

Water Levels and Artesian Pressures in Observation Wells in the United States in 1951

Part 2. Southeastern States

Prepared under the direction of A. N. SAYRE, Chief, Ground Water Branch

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1192

*Prepared in cooperation with the States
of Alabama, Florida, Georgia, Ken-
tucky, Maryland, North Carolina,
South Carolina, Tennessee, Virginia,
and West Virginia, and other agencies*



UNITED STATES DEPARTMENT OF THE INTERIOR

Douglas McKay, *Secretary*

GEOLOGICAL SURVEY

W. E. Wrather, *Director*

PREFACE

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

C. G. Paulsen	Chief Hydraulic Engineer
A. N. Sayre	Chief, Ground Water Branch
P. E. LaMoreaux	District Geologist (Ground Water), Tuscaloosa, Ala.
H. H. Cooper, Jr.	District Engineer (Ground Water), Tallahassee, Fla.
Nevin D. Hoy	District Geologist (Ground Water), Miami, Fla.
S. M. Herrick	District Geologist (Ground Water), Atlanta, Ga.
M. I. Rorabaugh	District Engineer (Ground Water), Louisville, Ky.
R. R. Bennett	District Geologist (Ground Water), Baltimore, Md.
W. C. Rasmussen	Geologist in Charge (Ground Water), Salisbury, Md.
H. E. LeGrand	Geologist in Charge (Ground Water), Raleigh, N. C.
G. E. Siple	Geologist in Charge (Ground Water), Columbia, S. C.
E. M. Cushing	District Engineer (Ground Water), Memphis, Tenn.
Allen Sinnott	District Geologist (Ground Water), Charlottesville, Va.
R. C. Smith	Geologist in Charge (Ground Water), Morgantown, W. Va.

CONTENTS

	Page
Introduction, by A. N. Sayre	1
Alabama, by G. W. Swindel, Jr. and P. E. LaMoreaux	3
Scope of water-level program	3
Precipitation	3
Interpretation of water-level fluctuations	3
Well-numbering system	6
Well descriptions and water-level measurements	6
Florida, by W. E. Clark and C. B. Sherwood, Jr.	11
Scope of water-level program	11
Occurrence of ground water	11
Publications	11
Precipitation	11
Pumpage	15
Interpretation of water-level fluctuations	15
Acknowledgments	19
Well-numbering system	19
Errata	19
Well descriptions and water-level measurements	20
Georgia, by G. H. Chase and S. M. Herrick	96
Scope of water-level program	96
Precipitation	96
Pumpage	96
Interpretation of water-level fluctuations	96
Acknowledgments	100
Well-numbering system	100
Well descriptions and water-level measurements	100
Kentucky, by M. I. Rorabaugh and E. A. Bell	114
Scope of water-level program	114
Precipitation	114
Pumpage	114
Interpretation of water-level fluctuations	114
Well-numbering system	117
Well descriptions and water-level measurements	117
Maryland, by Claire A. Richardson	146
Scope of water-level program	146
Precipitation	146
Interpretation of water-level fluctuations	146
Well-numbering system	146
Well descriptions and water-level measurements	148
Eastern Shore, by D. H. Boggess and W. C. Rasmussen	162
Scope of water-level program	162
Precipitation	162
Interpretation of water-level fluctuations	162
Well-numbering system	162
Well descriptions and water-level measurements	162
North Carolina, by H. E. LeGrand	171
Scope of water-level program	171
Interpretation of water-level fluctuations	171
Well-numbering system	171
Well descriptions and water-level measurements	173
South Carolina, by George E. Siple	182
Scope of water-level program	182
Precipitation	182
Interpretation of water-level fluctuations	182
Well-numbering system	182
Well descriptions and water-level measurements	182
Tennessee, by C. R. Lanphere, E. M. Cushing, and T. J. Henderson, Jr.	187
Scope of water-level program	187
Precipitation	187
Pumpage	187
Interpretation of water-level fluctuations	191
Well-numbering system	192
Well descriptions and water-level measurements	192

	Page
Virginia, by Allen Sinnott and Rodney Hart	216
Scope of water-level program	216
Interpretation of water-level fluctuations	216
Well-numbering system	219
Well descriptions and water-level measurements	219
West Virginia, by R. C. Smith	223
Scope of water-level program	223
Precipitation	223
Pumpage	223
Interpretation of water-level fluctuations	223
Well-numbering system	226
Well descriptions and water-level measurements	226

ILLUSTRATIONS

	Page
Figure 1. Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1951. The shaded area indicates the States included in this volume	2
2. Geologic provinces and location of observation wells in Alabama, 1951	4
3. Location of observation wells in Nassau, Duval, Clay, and St. Johns Counties, Florida	12
4. Location of observation wells in Escambia, Santa Rosa, and Okaloosa Counties, Florida	12
5. Location of observation wells in southern Florida	13
6. Location of observation wells in northern and western Florida	14
7. Average annual water levels in eastern Dade County, 1951	16
8. Approximate average water levels in eastern Dade County, 1940-50	17
9. Location of observation wells in eastern Dade County	18
10. Location of observation wells in northern Georgia, 1951	97
11. Location of observation wells in southwestern Georgia, 1951	98
12. Location of observation wells in southeastern Georgia, 1951	99
13. Physiographic units, areas of ground-water investigations, and location of observation wells in Kentucky, 1951	115
14. Pumpage, 1937-51, and changes in storage, 1943-51, in the Louisville area	116
15. Location of observation wells in the Louisville area, 1951	118
16. Water level and precipitation in downtown area of Louisville and in unpumped area south of Louisville	119
17. Pumpage and water level in west-central part of Louisville area	119
18. Pumpage and water level in south distillery area, Louisville	120
19. Pumpage and water level in Rubbertown area, southwest of Louisville	120
20. Water-level contours in the Louisville area, December 1951	121
21. Changes in water levels in the Louisville area, 1948-51	122
22. Location of observation wells in Maryland, 1951	147
23. Location of observation wells in Eastern Shore, Maryland, 1951	163
24. Pumpage from the Salisbury well field, water level in well Wi-Ce 13, average water level in 25 wells, and precipitation at Salisbury	164
25. Location of observation wells in North Carolina, 1951	172
26. Location of observation wells in South Carolina, 1951	183
27. Fluctuations of water level in well 1, Summerville, Dorchester County, South Carolina, 1949-51	184
28. Fluctuations of water level in well 1, Timmonsville, Florence County, South Carolina, 1949-51	184
29. Location of observation wells in Shelby County, Tennessee, 1951	188
30. Location of observation wells in Tennessee, 1951	189
31. Fluctuations of water levels in wells screened in the "1,400-foot" sand in the Memphis area, Tennessee, 1945-51	190
32. Fluctuations of water levels in wells screened in the "500-foot" sand in the Memphis area, Tennessee	191
33. Location of observation wells in northeastern and southeastern Virginia, 1951	217
34. Location of observation wells in West Virginia, 1951	224
35. Effect on the water level in well 40-5-14 in 1951 produced by nearby pumping for air conditioning	225
36. Water level in well 27-3-22 in 1951, pumpage at the Parkersburg well field and the stage of the Ohio River	225

WATER LEVELS AND ARTESIAN PRESSURES
IN OBSERVATION WELLS IN THE UNITED STATES
IN 1951

Part 2. SOUTHEASTERN

Introduction

By A. N. Sayre

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records for each year were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; 1939, 886. Since 1940 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. The following table gives the numbers of Water-Supply Papers from 1940 through 1951.

Year	North-eastern (1)	South-eastern (2)	North-central (3)	South-central (4)	North-western (5)	South-western (6)
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
1948	1126	1127	1128	1129	1130	1131
1949	1156	1157	1158	1159	1160	1161
1950	1165	1166	1167	1168	1169	1170
1951	1191	1192	1193	1194	1195	1196

The objectives of the observation-well program are to provide a day-to-day evaluation of available ground-water supplies, to facilitate the prediction of trends in ground-water levels that will indicate the probable status of important ground-water supplies in the future, to delineate present or potential areas of detrimentally high or low ground-water levels, to aid in the prediction of the base flow of streams, to determine the several forces that act on a ground-water body, and to demonstrate the interplay of those forces in the ground-water regimen, to furnish information for use in basic research, and to provide long-term continuous records of fluctuations of water levels in representative wells. These selected records serve as a framework to which many short-term records collected during an intensive investigation may be related.

Water levels in wells are seldom stationary but move up or down a fraction of an inch or many feet within a short time. Water-table wells may be influenced by direct recharge from precipitation, withdrawals from wells or springs, evapotranspiration by vegetation, evaporation from the soil, and by changes in atmospheric pressure. Artesian wells are influenced over large areas by changes in the rate of pumping from other wells, changes in atmospheric pressure, earthquakes, ocean tides, earth tides, and by recharge from precipitation, although the recharge may not be noticeable immediately. When accurate comparisons of water levels are made it is desirable to apply corrections for these influences, several of which may be compensating or additive depending upon the conditions at those particular times.

Water-level measurements are given in feet with reference to land-surface datum or sea-level datum. Land-surface datum is a precise datum plane that is approximately at land surface

at each well. Mean sea-level (msl) is the datum plane on which the national network of precise levels is based. When some measurements in a table are above and others are below the plane of reference, a plus (+) or minus (-) sign is placed immediately preceding the first entry in each column. Readings between minus signs are below the plane of reference and those between plus signs are above the plane of reference.

For the most part, discussions of precipitation in this report are based on data furnished by the United States Weather Bureau.

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States. Verda M. Dougherty edited the reports; Rodney Hart edited the illustrations; and Penn Livingston had general charge of the nation-wide observation-well program. This volume was typed by Mrs. Jonnie Shirley and completed by Charlotte Parker.

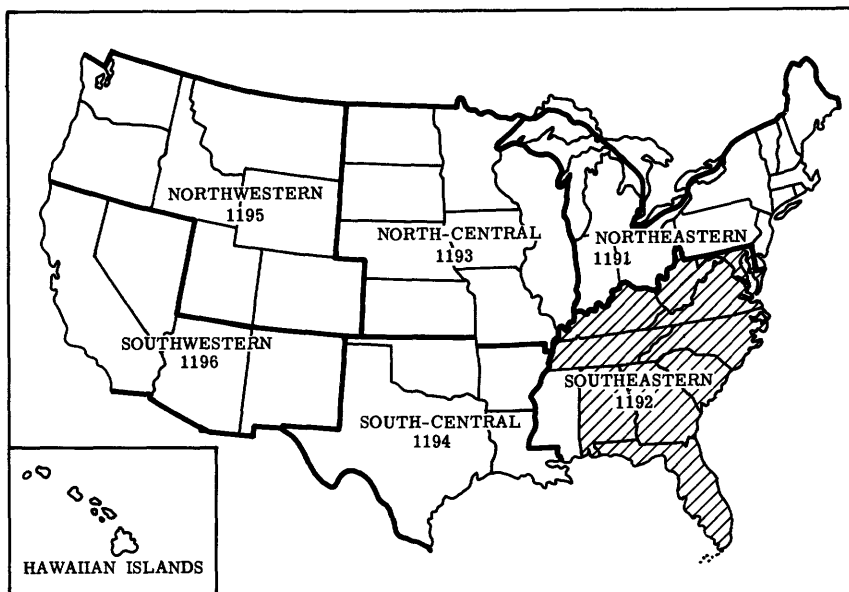


Figure 1.--Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1951. The shaded area indicates the States included in this volume.

16456

ALABAMA

By G. W. Swindel, Jr. and P. E. LaMoreaux

Scope of Water-Level Program

The observation-well program in Alabama was continued in cooperation with the State Geological Survey; the Water Works Board, city of Montgomery; the Water Works Board, city of Monroeville; and the city of Huntsville. Measurements were made in 14 wells, 5 of which were equipped with recording gages. Wells Mon-1 at Monroeville and Jac-1 at Scottsboro, formerly under observation by the TVA, were measured weekly. In April 1951 a report on the geology and ground-water resources of Choctaw County by L. D. Toulmin, P. E. LaMoreaux, and C. R. Lanphere was published by the Alabama Geological Survey as Special Report 21, County Report 2. During the year detailed cooperative ground-water investigations were begun in Madison, Montgomery, and Monroe Counties. These studies were carried on as a part of the State program with special emphasis in the vicinity of the cities of Huntsville, Monroeville, and Montgomery. A reconnaissance investigation of ground-water resources begun in the Piedmont area is the first phase of a series of ground-water studies in eastern Alabama. The detailed investigations of the geology and ground-water resources of Wilcox and Tuscaloosa Counties were continued. As a part of the ground-water program in Alabama, basic ground-water data were furnished 42 municipalities, 44 industries, and 51 individuals.

Precipitation

Precipitation in Alabama consists chiefly of rainfall and is reflected in the water-table fluctuation of water levels within a few days or in some cases a few hours after falling. The greatest amount of rainfall comes in the late winter and early spring months, furnishing the greatest amount of recharge to the ground-water reservoir. Intermittent heavy rains fall during July, August, and September owing to the influence of the Gulf of Mexico. These rains are sometimes torrential and contribute recharge to the ground-water reservoir, although a large percentage of the water runs off in surface streams. The year 1951 was marked by light to normal rainfall except in March, April, and September.

Interpretation of Water-Level Fluctuations

Geologically, the State may be divided into the Piedmont and Paleozoic provinces, and the Coastal Plain. (See fig. 2.) The Piedmont is characterized by metamorphic schist and gneiss injected by younger igneous rocks. In this area only small yields, generally less than 10 and rarely more than 50 gallons a minute, are obtained from wells. In the area only about 10 percent of the municipalities and industries use ground water, but all of the private farm supplies are taken from wells and springs. The important sources of ground water in northern Alabama are from the sandstone, limestone, and dolomite formations of Paleozoic age. Ground water in these rocks occurs along bedding planes, joints, fractures, and solution channels. Wells and springs in the area furnish 60 percent of the municipal, industrial, and all private water supplies. The Coastal Plain formations consist of unconsolidated clay, chalk, limestone, marl, sand, and gravel. Wells penetrating the more permeable sands, gravels, and limestones furnish nearly all municipal, industrial, and all of the private supplies.

In water-table well Aut-1 water levels can be closely correlated with rainfall. The weather station at Plantersville recorded a total of 47.21 inches of rainfall for the year. The most rainfall, 11.01 inches, fell in the month of March, and resulted in the highest recorded water level, 1.82 feet, on March 31. The least rainfall was recorded in May, 0.78 inch, and November, 1.01 inches, with the lowest recorded water level on November 27, 7.68 feet. This well along with Dis-1 (Dallas County) is used as an index well for a study of the relationship between runoff and ground water in the Mulberry Creek basin.

Artesian well Bal-1 in the city of Foley well field showed no marked changes in water level that could be correlated with rainfall. The levels ranged from a high of 23.8 feet in October to a low of 25.9 feet June 1. The lows usually come in the months of May and June. During these months, 9.7 to 14.4 million gallons per month are pumped from the field as compared with 2.7 to 4.4 million gallons per month during January, February, and March. From July through November the pumpage averages 6.7 million gallons per month.

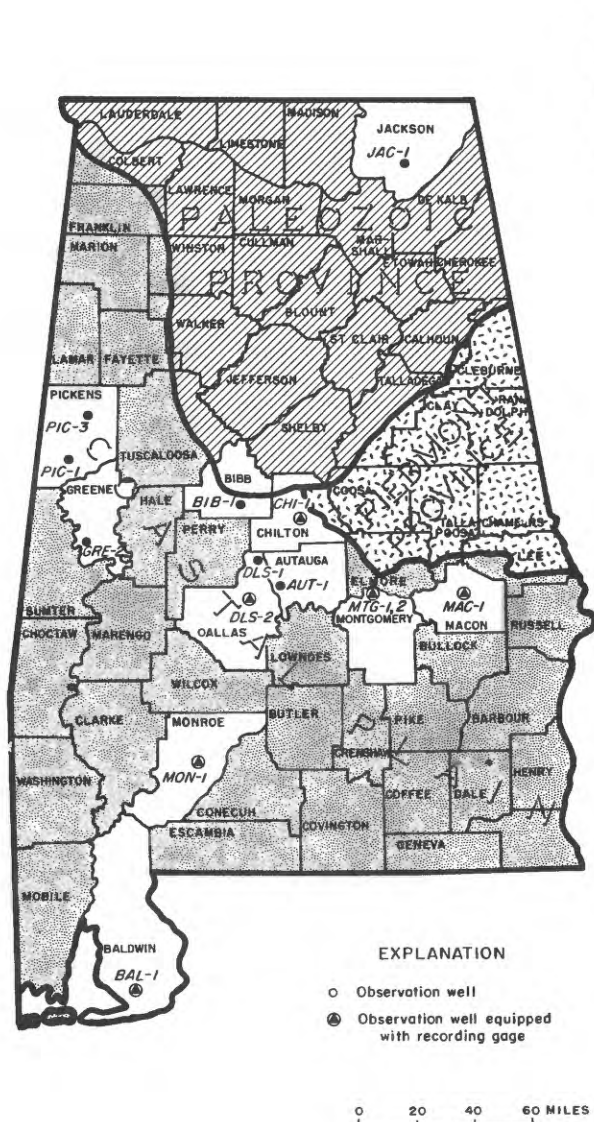


Figure 2. --Geologic provinces and location of observation wells in Alabama, 1951.

Water levels in water-table well Bib-1 (Bibb County) ranged from a high of 22.05 feet in March to 30.53 feet in November. The water levels in the well can be closely correlated with rainfall because high water levels occur within 10 to 15 days after precipitation.

Rainfall at Clanton is reflected in the water level in well Chi-1 within 24 hours after precipitation. It is expected that some of the sharp daily fluctuations as shown on the recorder graphs are caused by barometric influences and by trains because the well is close to a railroad. The water levels in the well ranged from a high of 17.56 feet April 1 to a low of 21.43 feet October 25.

In the Plantersville area the water levels in Dls-1 can be closely correlated with precipitation. The water levels ranged from a high of 15.55 feet in March to a low of 21.00 feet in November. This well is an index well in the Mulberry Creek basin for study of the relationship between ground water and runoff.

Artesian well Dls-2 owned by the city of Selma is in the heavily pumped well field. The water level ranged from a high of 16.7 feet April 2 to a new low of 32.5 feet September 8. The water level remains fairly steady from January through April, but gradually declines from May to early September, owing to heavy pumpage during the summer months. During October, November, and December a steady rise takes place. During the period of high water levels the city of Selma pumped an average of 1.75 million gallons a day, but during the period of low levels the consumption exceeded 3 million gallons a day. Since the beginning of observations in 1941, the water-level trend in the Selma area has been steadily declining.

The water level in flowing artesian well Gre-2 fluctuated only slightly during 1951. The high for the year was 5.84 feet in December and the low 5.41 feet in July. No appreciable lowering of the water level has been observed since beginning of observations in 1940. This well is in the Tombigbee River artesian basin in a locality of a great many uncontrolled flowing wells.

In water-table well Jac-1 high water levels occur within a few hours after precipitation. The high for the year, 2.47 feet was on April 1, and the low of 10.00 feet on September 9.

In artesian well Mac-1 the water level fluctuates mainly from pumping. The major fluctuations occur when a pump is started or stopped, or electrical disturbances cause a reduction in the pumping capacity. During 1951 the water level rose from a record low of 94.15 feet on January 1 to a high of 82.30 feet on December 31.

Mon-1 is a water-table well. During 1951 the Weather Bureau station at Peterman recorded 34.29 inches of rain for the first 9 months compared with 44.95 inches at Frisco City. The water level fluctuated from a high of 55.58 feet on February 14 to a low of 59.10 feet on April 18. Water levels in many wells in the area were reported below normal owing to sub-normal rainfall during 1951.

The water level in artesian well Mtg-1 fluctuates with pumping in the old city of Montgomery well field. The level fluctuates only slightly from March until the first part of May when a gradual decline begins and continues through the middle of September. A gradual rise in water level then takes place until March. The high level for the year, 104.7 feet occurred on March 14, and the low, 139.3 feet occurred on September 1. The maximum rate of pumping from this field was 7.3 million gallons a day on August 29 and the minimum rate was 0.4 million gallons a day on March 18. This well is significant as an index to the development of the municipal water supply in the old field at Montgomery.

Incomplete records for artesian well Mtg-2 show fluctuations of the water level caused by pumping from the new city of Montgomery well field. The high for the 2-month period occurred on December 29 when a level of 70.30 feet was observed. The low for the period occurred November 7 when a level of 75.57 feet was recorded. This field is pumped from 2.1 to 12.3 million gallons a day. The minimum daily rate of pumping for the year occurred December 5, the maximum rate was August 30. This well was established as an index well in the new field when the cooperative ground-water study was begun at Montgomery.

The water level in semiartesian well Pic-1 to some extent reflects precipitation in the area. The recorded high for the year occurred March 6 with a level of 2.44 feet and the recorded low occurred September 6 with a level of 4.75 feet. This well is sometimes pumped in dry weather to replenish the water in a nearby fish pond; however, the pumpage is neither constant nor of high capacity.

In the Reform area the water level in semiartesian well Pic-3 reflects rainfall with the highs for the year in January and February and the lows occurring during September, October, and November. The high water level, 3.58 feet occurred February 6, and the low for the year, 6.44 feet was recorded on September 6.

Wells Mtg-1 and Mtg-2 are tended voluntarily by Mr. G. W. Cowham. Mr. Charles W. Wann measures well Jac-1.

Well-Numbering System

Wells are listed numerically within counties. The letters of the prefix are derived from the county names. For instance, well 1 in Monroe County is Mon-1 and well 1 in Montgomery County is Mtg-1.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Autauga County

Aut-1. J. F. Apperson. At Jones, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 19 N., R. 12 E. Dug domestic water-table well in alluvial sand and gravel, diameter 36 inches, depth 14 feet. Land-surface datum is 198.4 feet above msl. Highest water level 1.82, Mar. 31, 1951; lowest 7.68, Nov. 27, 1951. Records available: 1948-51. Feb. 6, 3.42; Mar. 6, 3.74; Mar. 31, 1.82; June 27, 5.79; Aug. 9, 6.90; Nov. 27, 7.68; Dec. 27, 4.01.

Baldwin County

Bal-1. City of Foley. At Foley, in water works yard, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 7 S., R. 4 E. Drilled observation semiartesian well in sand and gravel, diameter 24-12 inches, depth 146 feet. Land-surface datum is 76.0 feet above msl. Highest water level 16.00, Sept. 26, 1949; lowest 25.90, June 1, 1951. Records available: 1949-51.

Daily lowest water level, below land-surface datum, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	24.5	24.6	24.5	24.0	25.9	24.3	24.3	24.4	24.0	24.0	....
2	24.2	24.6	24.6	24.5	24.0	25.7	24.2	24.3	24.5	23.9	24.0	....
3	24.3	24.5	24.6	24.4	24.9	24.7	24.2	24.3	24.5	24.0	24.1	....
4	24.3	24.6	24.6	24.4	....	25.6	24.2	24.3	....	24.0	24.0	24.4
5	24.3	24.6	24.6	24.4	....	25.8	24.2	24.3	24.5	24.0	24.1	24.4
6	24.3	24.5	....	24.4	....	25.8	24.2	24.3	24.5	24.0	24.1	24.4
7	24.3	24.6	24.6	24.3	25.2	25.9	24.3	24.3	24.5	24.0	24.1	24.5
8	24.3	24.6	24.7	24.4	24.6	25.9	24.2	24.3	24.5	24.0	24.1	24.4
9	24.3	24.5	24.7	24.4	24.5	25.9	....	24.3	24.4	23.9	24.1	24.4
10	24.3	24.5	24.7	24.3	25.2	24.9	....	24.3	24.5	23.9	24.1	24.4
11	24.3	24.5	24.6	24.3	25.3	25.5	....	24.3	24.5	23.9	24.0	24.5
12	24.3	24.5	24.6	24.3	24.5	25.4	....	24.3	24.5	23.9	24.0	24.4
13	24.3	24.5	24.7	24.3	24.4	25.4	....	24.3	24.5	23.9	24.1	24.4
14	24.3	24.5	24.7	24.2	25.3	25.6	....	24.3	24.5	23.8	24.2	24.4
15	24.3	24.5	24.7	24.2	25.4	25.6	....	24.3	24.5	23.8	24.2	24.5
16	24.3	24.5	24.7	24.1	25.4	25.5	24.1	24.4	24.5	23.9	24.4	24.5
17	24.3	24.5	24.7	....	25.5	25.1	24.2	24.4	24.5	23.9	24.4	24.5
18	25.1	24.5	24.7	....	25.5	24.6	24.2	24.4	24.5	23.9	24.3	....
19	24.3	24.5	24.7	....	25.5	24.5	24.9	24.4	24.5	23.9	24.3	24.9
20	24.3	24.5	....	....	25.6	24.5	24.2	24.4	24.5	23.9	24.2	24.9
21	24.4	24.6	....	....	25.5	24.5	24.3	....	24.5	23.9	24.2	25.0
22	24.3	24.6	....	....	25.5	24.6	24.2	24.5	24.3	23.9	24.2	25.0
23	24.3	24.6	....	24.1	25.5	24.6	24.1	25.2	24.2	23.9	24.2	25.9
24	24.4	24.6	....	24.1	25.5	24.4	24.2	24.4	24.3	23.9	24.2	24.9
25	24.4	24.6	....	24.1	25.6	24.4	24.2	24.4	....	23.9	24.2	24.4
26	24.4	24.6	24.4	24.6	25.6	24.5	24.3	24.4	....	23.9	24.2	24.6
27	24.4	24.6	24.4	24.7	25.7	24.5	24.3	24.4	....	23.8	....	24.6
28	24.4	24.6	25.6	24.1	25.6	24.5	24.3	....	....	23.8	....	24.5
29	24.4	....	24.6	24.0	25.7	24.4	24.2	24.4	....	23.8	....	24.5
30	24.4	....	24.6	24.0	25.7	24.3	24.3	24.5	....	23.9	..	24.5
31	24.4	....	24.5	....	25.7	....	24.3	24.5	....	24.0	....	24.8

Bibb County

Bib-1. Centerville Gin and Cotton Co. At Centerville. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T. 23 N., R. 9 E. Drilled observation semiartesian well in sand, diameter 8 inches, depth 404 feet. Land-surface datum is 230.93 feet above msl. Highest water level 22.05, Mar. 31, 1951; lowest 31.79, Sept. 28, 1948. Records available: 1948-51.

Bib-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	27.30	Mar. 31	22.05	Aug. 9	30.23	Dec. 27	26.44
Mar. 6	26.96	June 26	29.21	Nov. 27	30.53	28	26.18

Chilton County

Chi-1. City of Clanton. At Clanton, in water works lot, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 22 N., R. 14 E. Dug observation water-table well in sand and gravel, diameter 10 feet, depth 45 feet. Land-surface datum is 587.90 feet above msl. Highest water level 16.22, Mar. 26, 1948; lowest 22.88, Oct. 2, 1944. Records available: 1941-51. Measurement discontinued.

Daily lowest water level, below land-surface datum, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.89	19.11	19.21	17.56	17.97	.....	20.40	20.87	20.74	20.42	21.06	20.92
2	19.68	20.47	19.15	17.50	17.98	.....	20.22	20.89	20.81	20.40	20.88	20.89
3	19.58	20.17	19.16	17.83	17.91	.....	19.97	20.91	20.94	20.46	20.81	20.79
4	19.74	20.12	19.26	17.92	17.89	.....	19.87	20.96	20.99	20.56	20.79	20.72
5	19.67	20.16	19.31	17.98	17.97	.....	19.86	21.03	20.98	20.70	20.79	20.59
6	19.52	19.98	19.29	17.93	18.22	.....	19.88	21.05	21.04	20.76	20.53	20.57
7	19.40	19.95	19.19	17.73	18.34	.....	19.89	20.73	21.11	20.79	20.59	20.64
8	19.64	20.21	19.16	17.82	18.46	.....	19.91	19.66	21.22	20.91	20.63	20.57
9	19.66	19.21	19.35	17.95	18.48	.....	19.95	19.54	21.19	20.89	20.58	20.55
10	19.50	19.26	19.36	17.98	18.09	.....	20.04	19.42	21.19	20.92	20.54	20.46
11	19.51	19.13	19.28	17.94	18.10	.....	20.11	19.18	21.19	21.00	20.51	20.33
12	19.63	19.02	19.16	18.08	18.21	.....	20.20	19.04	21.11	21.09	20.47	20.31
13	19.61	19.06	19.15	18.08	18.34	.....	20.22	18.96	21.03	21.14	20.38	20.41
14	19.30	19.21	19.25	18.17	18.48	.....	20.21	18.93	20.92	21.13	20.37	20.27
15	19.47	19.15	19.30	18.19	18.58	.....	20.21	19.95	20.83	21.11	20.37	20.27
16	19.61	19.16	19.26	18.20	18.46	.....	20.26	19.92	20.78	21.16	20.39	20.37
17	19.41	19.14	19.27	18.35	18.46	.....	20.28	19.95	20.75	21.21	20.71	20.06
18	19.38	19.07	19.15	18.29	.....	.....	20.33	19.95	20.76	21.25	20.72	19.83
19	19.42	19.08	18.95	18.25	.....	.....	20.38	19.97	20.81	21.22	20.72	19.89
20	19.49	18.85	18.83	18.33	.....	.....	20.44	20.10	20.87	21.24	20.74	19.43
21	19.51	18.93	18.71	18.29	.....	.....	20.49	20.14	20.88	21.27	20.74	19.46
22	19.53	19.12	18.73	18.11	.....	.....	20.58	19.22	20.77	21.36	20.85	19.43
23	19.44	19.15	18.61	18.04	.....	.....	20.63	20.32	20.69	21.31	20.81	19.37
24	19.43	19.09	18.66	17.94	.....	.....	20.63	20.37	20.53	21.33	20.79	19.36
25	19.47	19.05	18.82	17.96	.....	.....	20.69	20.43	20.46	21.43	20.83	19.27
26	19.49	19.08	18.88	17.98	.....	.....	20.77	20.47	20.41	21.38	20.86	19.26
27	19.49	19.11	18.78	17.98	.....	20.56	20.79	20.50	20.43	21.25	20.88	19.49
28	19.53	19.13	18.34	17.81	.....	20.59	20.81	20.55	20.48	21.23	20.91	19.23
29	19.57		17.71	17.72	.....	20.58	20.80	20.63	20.49	21.84	20.95	19.15
30	19.47		17.74	17.83	.....	19.53	20.85	20.67	20.51	21.35	20.97	19.19
31	19.17		17.68	.....	.....	.....	20.85	20.68		21.11		19.89

Dallas County

Dis-1. J. W. Pickering. At Plantersville, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 19 N., R. 11 E. Dug domestic water-table well in alluvial sand and gravel, diameter 36 inches, depth 27 feet. Land-surface datum is 240.86 feet above msl. Highest water level 13.80, Mar. 9, 1948; lowest 21.00, Nov. 27, 1951. Records available: 1948-51. Feb. 6, 1936; Mar. 6, 18.36; Mar. 31, 15.55; June 27, 18.26; Aug. 9, 19.50; Nov. 27, 21.00; Dec. 27, 20.53.

Dis-2. City of Selma. At Selma, in water works lot, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 17 N., R. 11 E. Drilled observation artesian well in sand, diameter 6 inches, depth 420 feet. Land-surface datum is 125.26 feet above msl. Highest water level 13.49, Feb. 17, 1946; lowest 32.5, Sept. 8, 1951. Records available: 1941, 1945-51.

Daily lowest water level, below land-surface datum, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.2	18.4	19.9	17.6	21.1	26.2	26.7	29.5	31.3	26.4	25.5	23.0
2	18.3	18.4	20.0	16.7	21.4	26.1	26.2	29.6	30.9	26.6	25.4	22.9
3	18.3	18.4	20.0	16.8	21.4	26.2	26.2	29.5	31.7	26.6	25.2	22.7
4	18.4	20.6	20.1	16.9	21.5	26.9	26.3	28.8	31.8	26.7	25.1	22.7
5	18.4	19.9	20.3	17.1	21.5	26.6	26.2	28.8	32.3	26.7	24.9	22.6

Dis-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	18.4	19.9	20.4	17.3	21.6	27.0	26.3	28.8	32.3	26.8	24.6	22.6
7	18.4	20.1	20.4	17.3	22.1	27.2	26.7	29.5	32.4	27.0	24.6	22.5
8	18.5	20.1	20.3	17.2	22.4	27.5	27.1	29.4	32.5	26.8	24.5	22.6
9	18.7	20.0	20.4	17.6	22.5	27.6	27.5	28.8	32.3	26.8	24.5	22.6
10	18.7	20.0	20.4	17.8	22.6	27.5	28.0	28.6	31.3	26.7	24.5	22.2
11	18.7	18.8	20.4	18.0	22.6	28.4	28.0	28.5	31.1	26.6	24.3	22.3
12	18.7	19.8	19.9	18.2	22.5	27.6	28.1	28.5	31.0	26.6	24.2	22.2
13	18.7	19.9	19.9	18.2	22.6	27.7	27.9	28.8	30.9	26.7	23.6	22.3
14	18.7	20.0	19.9	18.4	23.1	27.7	27.4	29.2	30.8	26.6	23.6	22.3
15	19.0	20.0	20.0	18.4	23.5	28.0	27.3	29.3	30.6	26.4	23.6	22.3
16	19.1	20.1	20.0	19.9	23.6	27.5	28.3	29.0	....	26.5	23.5	22.2
17	19.1	20.1	20.0	20.1	23.8	27.2	28.6	29.2	28.2	26.6	23.5	22.0
18	19.1	20.0	20.0	20.2	23.9	26.9	28.7	29.1	28.2	26.7	23.4	21.9
19	19.0	20.1	19.6	20.2	24.2	27.0	28.7	29.6	28.3	26.7	22.9	21.7
20	19.0	20.1	19.5	20.2	24.8	26.9	28.8	30.0	28.3	26.7	23.0	21.7
21	19.1	20.2	19.5	20.3	24.8	26.9	28.9	30.3	28.3	26.7	23.1	21.5
22	18.9	20.2	19.5	20.3	26.4	26.7	29.2	30.4	28.2	26.6	23.0	21.3
23	19.0	20.1	19.5	20.0	25.8	26.7	29.9	30.4	27.8	26.5	22.9	21.0
24	19.1	20.1	19.5	20.0	25.4	26.8	29.8	30.4	27.6	26.5	22.9	20.8
25	19.1	20.0	19.6	20.0	25.3	26.7	29.8	30.6	27.0	26.4	22.9	19.4
26	19.1	19.6	19.2	20.1	25.6	26.9	30.0	30.8	27.0	26.3	22.9	19.4
27	19.1	19.8	18.9	20.3	25.8	26.9	30.1	30.8	26.9	26.2	23.1	19.5
28	19.1	19.8	18.9	20.5	26.5	27.1	30.1	30.8	26.9	26.1	23.1	19.6
29	18.4		18.9	20.6	26.9	27.3	29.5	31.1	26.9	25.8	23.0	19.6
30	18.4		18.5	20.7	26.9	27.2	29.2	31.3	....	25.6	23.0	19.6
31	18.4		18.0		26.4		29.3	31.2		25.6		19.5

Greene County

Gre-2. W. F. Bell. At Boligee, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 21 N., R. 1 E. Drilled public supply flowing artesian well in sand, diameter 3 inches, depth 560 feet. Land-surface datum is 117.13 feet above msl. Highest water level+8.59, July 21, 1941; lowest+4.58, Nov. 30, 1950. Records available: 1940-42, 1946-51. Feb. 6,+5.29; Mar. 6,+5.42; Mar. 31,+5.61; July 17,+5.41; Oct. 30,+5.62; Nov. 27,+5.79; Dec. 27,+5.84.

Jackson County

Jac-1. Tennessee Valley Authority well 28. At Scottsboro, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 4 S., R. 6 E. Drilled observation water-table well in chert, diameter 8 inches, depth 16 feet. Land-surface datum is 641.88 feet above msl. Highest water level 1.64, Feb. 26, 1944; lowest 13.86, Nov. 1, 1948. Records available: 1936-41, 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	6.60	Apr. 1	2.47	July 1	4.87	Oct. 1	6.82
7	5.14	9	2.50	8	5.31	9	8.71
15	3.90	16	3.12	15	6.11	15	8.78
23	3.14	24	3.63	22	6.87	22	9.34
Feb. 1	3.27	May 1	3.64	Aug. 1	8.74	29	8.74
9	3.05	8	3.94	8	9.42	Nov. 6	8.12
18	3.29	14	4.74	15	8.75	12	7.00
23	2.82	22	5.79	22	8.82	20	5.33
Mar. 6	2.84	June 1	6.60	Sept. 1	9.87	Dec. 1	4.14
14	3.00	8	7.34	9	10.00	9	4.31
19	3.02	15	8.12	16	9.80	15	3.50
27	3.30	25	8.94	24	6.55	26	2.94

Macon County

Mac-1. Tuskegee Institute. On campus. Drilled observation artesian well in sand, diameter 18-8 inches, depth 355 feet. Land-surface datum is 436.47 feet above msl. Highest water level 61.85, Sept. 20, 1949; lowest 94.15, Jan. 1, 1951. Records available: 1948-51.

Mac-1--Continued.

Daily lowest water level, below land-surface datum, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	94.15	93.90	93.90	93.80	93.60	93.60	89.60	89.55	89.15	88.65	83.75	83.00
2	94.15	94.15	93.90	93.75	93.60	93.10	89.60	89.55	89.00	88.55	83.75	83.00
3	94.05	94.15	93.90	93.75	93.50	93.25	89.65	89.50	89.15	88.45	83.80	82.85
4	94.00	94.10	93.85	93.70	91.85	93.35	89.65	89.45	89.20	88.50	83.80	82.65
5	94.10	94.10	94.00	93.85	92.80	93.40	89.60	89.40	89.05	88.55	83.80	82.65
6	94.10	94.00	94.05	93.80	93.35	93.30	89.65	89.45	88.65	88.55	83.55	82.65
7	94.00	93.85	94.05	93.75	93.60	91.45	89.65	89.40	88.90	88.55	83.60	82.70
8	94.10	93.60	93.90	93.65	93.85	91.25	89.60	89.40	89.05	88.70	83.65	82.70
9	94.05	93.85	94.00	93.70	93.85	91.10	89.65	89.40	89.15	88.80	83.70	82.75
10	94.10	94.05	94.00	93.70	93.75	90.90	89.65	88.45	89.15	88.80	83.65	82.80
11	93.95	94.15	93.95	93.50	93.65	93.10	89.65	88.80	89.20	88.85	83.60	82.80
12	94.00	94.10	93.95	93.60	93.70	94.35	89.70	88.85	89.20	88.90	83.55	82.65
13	93.95	94.05	94.00	93.60	93.80	90.00	89.35	89.00	89.15	88.95	83.40	82.65
14	93.85	94.05	94.00	93.70	93.95	90.05	89.45	89.10	89.10	88.95	83.20	82.65
15	93.75	94.05	94.05	93.70	93.95	90.10	89.50	89.20	89.10	88.85	83.05	82.75
16	93.95	94.00	94.05	93.70	93.90	90.15	89.50	89.20	89.10	88.80	83.10	82.95
17	93.00	94.00	93.45	93.75	93.80	90.15	89.50	89.20	89.10	88.80	83.30	82.95
18	93.90	94.00	93.60	93.80	93.75	90.20	89.50	89.20	89.15	88.80	83.40	82.60
19	93.80	93.95	93.80	93.75	93.75	90.15	89.50	89.25	89.20	88.85	83.40	82.65
20	93.80	93.90	93.85	93.75	93.75	90.15	89.55	89.25	89.20	88.85	83.40	82.60
21	93.95	94.05	93.90	93.70	91.25	90.10	89.55	89.25	89.20	88.80	83.40	82.35
22	94.05	94.15	93.95	93.70	92.55	90.05	89.60	89.20	89.10	88.85	83.40	82.55
23	93.90	93.95	93.70	93.70	92.65	90.05	89.65	89.15	87.95	88.85	83.25	82.60
24	93.70	94.00	93.80	93.75	92.75	90.05	89.60	89.30	88.40	88.80	83.10	82.70
25	93.80	94.00	93.80	93.75	93.00	89.50	89.55	89.40	88.15	88.95	83.00	82.60
26	93.90	93.90	93.80	93.70	93.15	89.65	89.60	89.45	88.40	84.80	82.95	82.55
27	93.90	93.90	93.80	93.70	93.30	89.75	89.60	89.50	88.45	84.65	82.90	82.70
28	93.90	93.85	93.75	93.70	93.35	89.75	89.50	89.40	88.55	84.35	82.95	82.70
29	93.80		93.70	93.65	93.50	89.80	89.55	89.35	88.65	84.10	83.05	82.55
30	93.80		93.75	93.60	93.50	89.60	89.55	89.25	88.65	84.00	83.05	82.35
31	93.80		93.80		93.55		89.55	89.20		83.95		82.30

Monroe County

Mon-1. City of Monroeville. At Monroeville, under water tank. Drilled observation semiartesian well in Ocala limestone, diameter 10 inches, depth 120 feet. Land-surface datum is 413.60 feet above msl. Highest water level 48.04, June 10, 1949; lowest 59.10, Apr. 18, 1951. Records available: 1948-51. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	56.50	May 25	56.20	Aug. 6	57.60	Oct. 20	58.45
9	57.90	28	56.30	11	57.50	22	58.45
16	56.90	June 2	57.80	13	57.40	27	58.43
23	56.90	6	57.70	18	57.30	29	58.44
30	56.80	9	57.70	20	57.10	Nov. 3	56.50
Feb. 7	57.10	11	57.80	25	56.90	5	57.42
14	55.58	16	57.80	27	56.90	10	57.50
21	57.30	19	57.70	Sept. 1	56.90	13	57.40
Mar. 28	57.60	23	57.50	4	56.87	17	57.49
Apr. 4	57.30	25	57.60	8	56.85	20	57.49
11	57.50	30	57.50	10	56.80	24	57.50
18	59.10	July 7	56.70	15	56.83	26	58.48
23	57.10	9	56.60	17	56.85	Dec. 3	58.30
26	56.90	14	56.60	22	56.82	8	58.40
30	57.30	16	56.65	27	56.80	10	58.50
May 4	57.00	21	56.66	Oct. 1	58.43	15	58.60
7	56.90	23	56.65	6	58.41	17	58.60
11	57.10	28	56.65	8	58.42	22	58.50
14	56.80	30	56.66	13	58.43	24	58.60
18	56.60	Aug. 4	57.60	15	58.44	29	58.70
21	56.30						

Montgomery County

Mtg-1. City of Montgomery well 15A. At Montgomery, Court and Chandler Sts. Drilled observation artesian well in sand, diameter 8 inches, depth 639 feet. Land-surface datum is 164.50 feet above msl. Highest water level 104.7, Mar. 14, 1951; lowest 139.3, Sept. 1, 1951. Records available: 1940-41, 1946-51.

Daily water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	106.2	107.1	108.7	108.2	121.0	115.0	112.0	115.6	139.3	117.1	114.5	113.0
2	106.3	108.6	108.0	108.2	124.6	115.5	110.6	115.6	128.0	116.9	114.2	112.9
3	107.2	122.0	107.0	109.0	126.4	115.3	111.9	.....	122.7	117.6	114.0	112.8
4	107.4	124.3	107.3	110.0	115.1	114.9	112.2	.....	132.0	117.8	113.9	114.4
5	107.4	113.9	107.2	110.8	114.9	115.6	112.5	.....	134.1	119.0	115.4	115.0
6	108.9	113.0	106.6	109.4	114.9	116.0	113.2	.....	124.6	119.2	116.1	114.3
7	107.4	111.6	106.1	109.1	115.1	116.3	113.8	.....	123.8	118.3	117.1	113.6
8	108.9	111.0	105.7	108.3	115.2	116.6	113.2	.....	123.6	118.4	117.3	113.8
9	110.5	111.3	107.5	108.5	115.4	116.0	114.1	.....	123.7	118.2	116.7	113.8
10	110.8	111.7	108.3	109.5	.....	116.1	114.8	.....	122.6	117.4	116.3	111.9
11	109.7	110.8	107.7	110.0	.....	116.1	115.2	.....	122.6	118.4	115.2	113.1
12	107.4	109.7	105.5	110.4	113.6	116.2	115.6	.....	120.9	118.4	115.3	113.0
13	107.4	110.2	104.9	110.5	112.3	116.4	115.6	.....	119.7	117.4	116.9	112.3
14	106.9	110.1	104.7	110.2	112.1	116.4	115.9	.....	118.2	116.6	118.0	112.6
15	107.6	109.2	104.9	110.8	112.0	116.0	115.7	114.4	117.8	116.4	118.0	.....
16	106.4	109.6	106.1	111.2	111.3	114.6	115.4	114.9	117.3	117.9	117.6	.....
17	106.1	108.3	107.3	111.3	111.5	112.9	115.5	115.0	116.2	118.9	116.7	.....
18	105.8	107.9	106.7	111.8	113.3	112.2	116.0	117.7	117.7	118.9	116.6	.....
19	105.6	108.2	106.9	111.9	113.9	113.4	116.2	118.6	118.1	120.1	115.8	.....
20	106.3	109.9	106.7	111.4	114.2	113.5	116.2	119.2	118.1	120.8	116.8	.....
21	107.6	110.1	107.8	109.6	114.2	114.2	115.7	119.7	117.6	120.8	116.6	111.6
22	108.6	109.5	108.5	109.6	114.4	114.7	115.0	120.1	117.3	118.9	116.0	111.6
23	109.2	108.6	110.1	108.7	114.4	.....	114.7	120.7	116.2	117.5	114.9	110.8
24	108.6	108.4	110.3	109.0	114.4	.....	115.5	119.8	117.0	116.4	114.5	108.9
25	108.6	107.8	110.2	108.4	114.2	.....	116.1	120.2	118.1	115.8	113.9	110.0
26	107.1	106.6	109.6	107.6	113.9	.....	116.2	120.4	118.4	115.4	113.5	.....
27	107.3	107.6	110.6	109.3	112.6	.....	115.9	120.6	117.2	115.1	113.2	.....
28	107.1	108.1	110.6	109.3	112.5	.....	116.0	120.8	117.9	114.8	112.8	.....
29	106.6	.....	110.6	109.2	113.3	.....	115.4	132.2	117.6	115.5	112.6	114.6
30	106.2	.....	109.0	116.2	113.8	112.1	115.5	136.2	116.6	116.1	113.1	113.6
31	105.5	.....	109.0	.....	114.0	.....	115.6	138.2	.....	115.3	.....	112.8

Mtg-2. City of Montgomery well 37. At Montgomery, on Hunter Loop Road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 16 N., R. 17 E. Drilled observation artesian well in sand, diameter 18 inches, depth 680 feet. Land-surface datum is 161.5 feet above msl. Highest water level 70.30, Dec. 29, 1951; lowest 75.57, Nov. 7, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 7	75.57	Nov. 23	73.25	Dec. 7	71.35	Dec. 21	71.30
16	74.70	30	72.27	14	70.37	29	70.30

Pickens County

Pic-1. H. M. Stapp. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 22 S., R. 16 W. Drilled stock semiartesian well in sand, diameter 4 inches, depth 560 feet. Land-surface datum is 173.56 feet above msl. Highest water level 2.18, Apr. 20, 1948; lowest 4.90, June 2, 1948. Records available: 1948-51. Feb. 6, 2.52; Mar. 6, 2.44; July 13, 3.28; Sept. 6, 4.75; Oct. 30, 4.64; Nov. 27, 4.25; Dec. 27, 2.94.

Pic-3. Reform Gin Co. At Reform. Drilled observation artesian well in sand, diameter 4-2 inches, depth 78 feet. Land-surface datum is 229.735 feet above msl. Highest water level 3.21, Apr. 20, 1948; lowest 6.46, Nov. 5, 1948. Records available: 1948-51. Feb. 6, 3.58; Mar. 6, 3.66; July 13, 4.86; Sept. 6, 6.44; Oct. 30, 5.31; Nov. 27, 5.03; Dec. 27, 4.08.

FLORIDA

By W. E. Clark and C. B. Sherwood, Jr.

Scope of Water-Level Program

The observation-well program in Florida is part of a cooperative investigation of the ground-water resources, which was begun in some areas of the State as early as 1930. During 1951 the investigations were conducted in cooperation with the State Geological Survey, with Dade, Hillsborough, Manatee, Pinellas, and Seminole Counties, with the Central and Southern Florida Flood Control District, and with the cities of Miami, Fort Lauderdale, Naples, Miami Beach, and Pensacola. At the close of 1951, the well-observation program included 197 observation wells, 103 of which were equipped with recording gages. (See figs. 3, 4, 5, 6, and 9.)

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. This aquifer is referred to as the Floridan aquifer after a name suggested by G. G. Parker of the U. S. Geological Survey. At most places, the Floridan aquifer is overlain by a thick section of younger materials including relatively impervious beds which confine the water under artesian pressure. The water is under sufficient pressure to rise above the land surface over roughly one-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 Biscayne aquifer 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 Floridan aquifer.

Publications

During the year, a paper entitled "Geologic and hydrologic factors in the perennial yield of the Biscayne aquifer" by Garald G. Parker was published as part of Journal American Water Works Association, vol. 43, no. 10, Oct. 1951, pages 817 through 835. Also, a paper entitled "Potential yield of ground water on Fair Point Peninsula," by Ralph C. Heath and William E. Clark, which contains records of water-level measurements made during the progress of the investigation, was published by the Florida Geological Survey as Part I of the "Report of Investigations No. 7."

Precipitation

The average precipitation for the State was 48.78 inches, which was 4.55 inches below normal. The 67.42 inches recorded at Milton, in Santa Rosa County, was the highest, and the 23.54 inches at Key West, in Monroe County, was the lowest. Of the 63 stations for which departures from the normal were reported, only 19 had above-normal precipitation for the year 1951. The greatest above-normal departure was the 13.77 inches reported for Tohopekaliga, in Osceola County, and the greatest below-normal departure was the 26.99 inches reported for West Palm Beach, in Palm Beach County. At most stations, the greatest deficiencies in precipitation during the year occurred in May and June. However, the precipitation was above normal in some parts of the State during these months.

The following shows the distribution of total rainfall for selected areas in south Florida during 1951:

Everglades, Collier County	37.5 inches
Fort Myers, Lee County	56 inches
Homestead, Dade County	45.5 inches
Miami, Dade County	41 inches
West Palm Beach, Palm Beach County	53 inches
Loxahatchee, Palm Beach County	65 inches

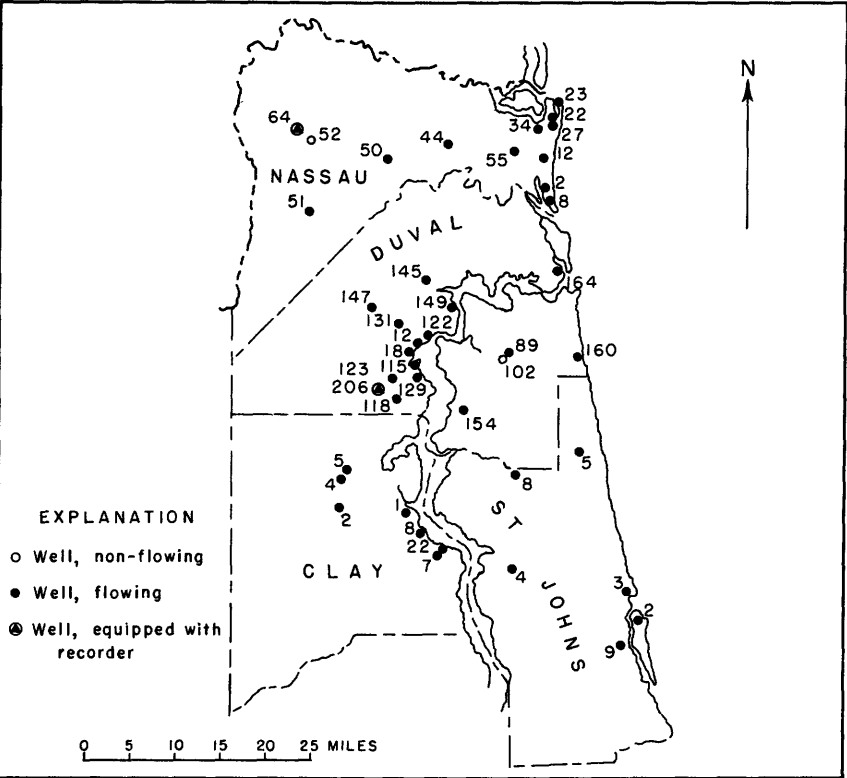


Figure 3.--Location of observation wells in Nassau, Duval, Clay, and St. Johns Counties, Florida.

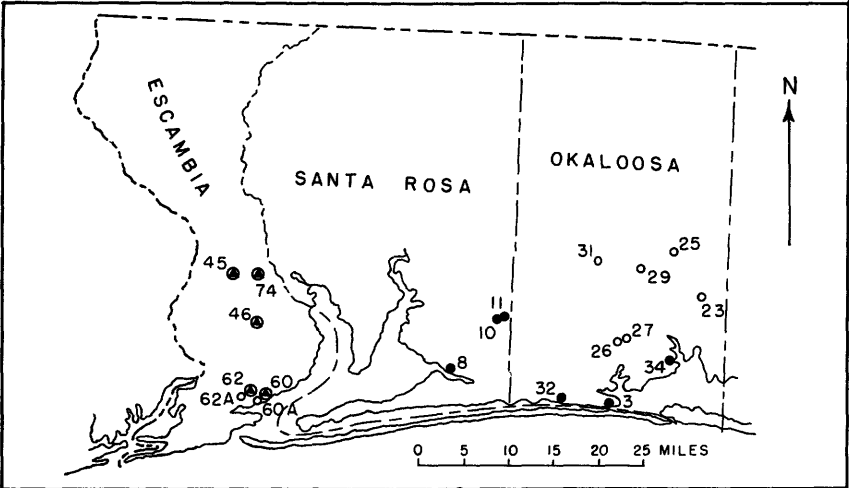


Figure 4.--Location of observation wells in Escambia, Santa Rosa, and Okaloosa Counties, Florida.

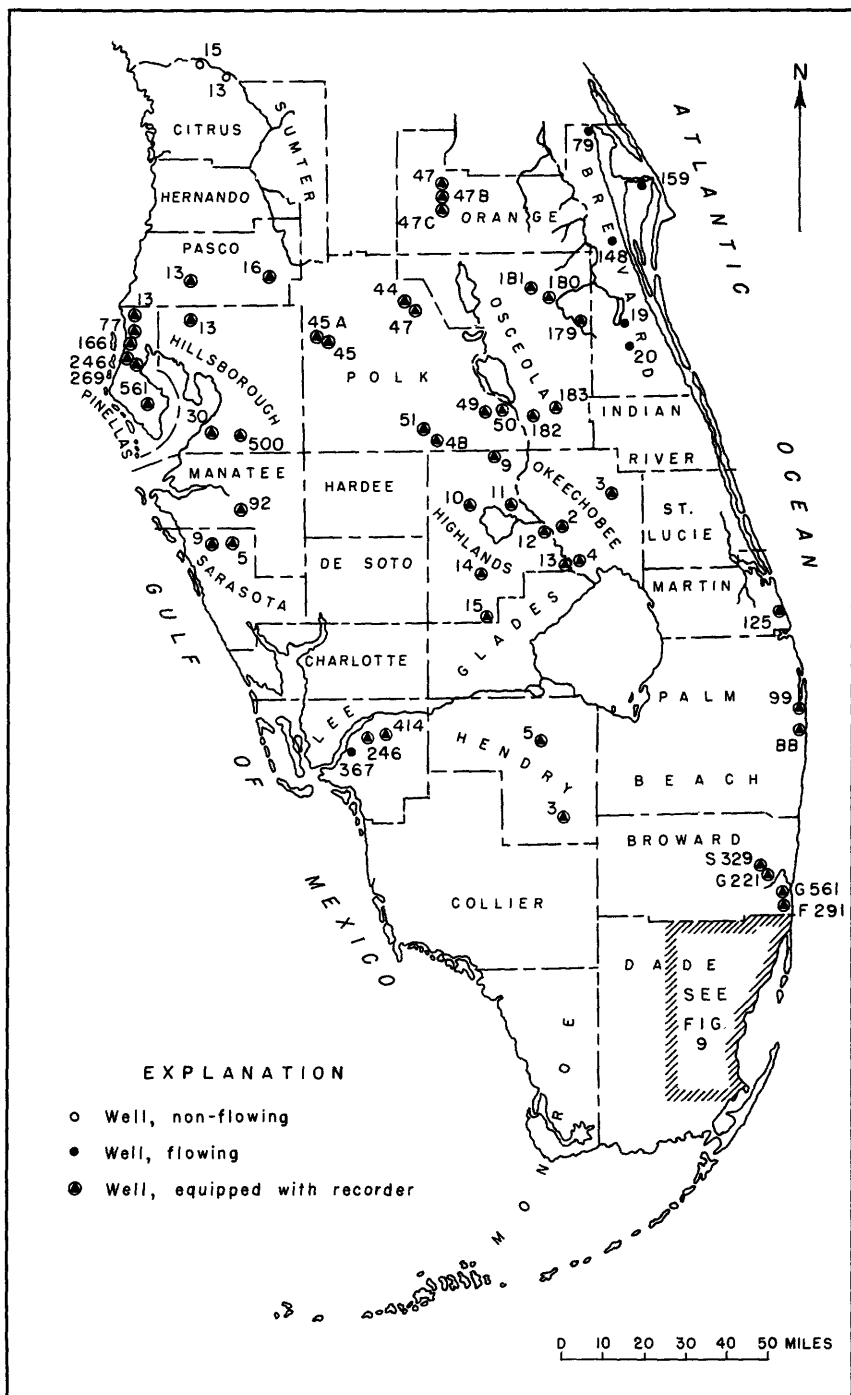


Figure 5.--Location of observation wells in southern Florida.

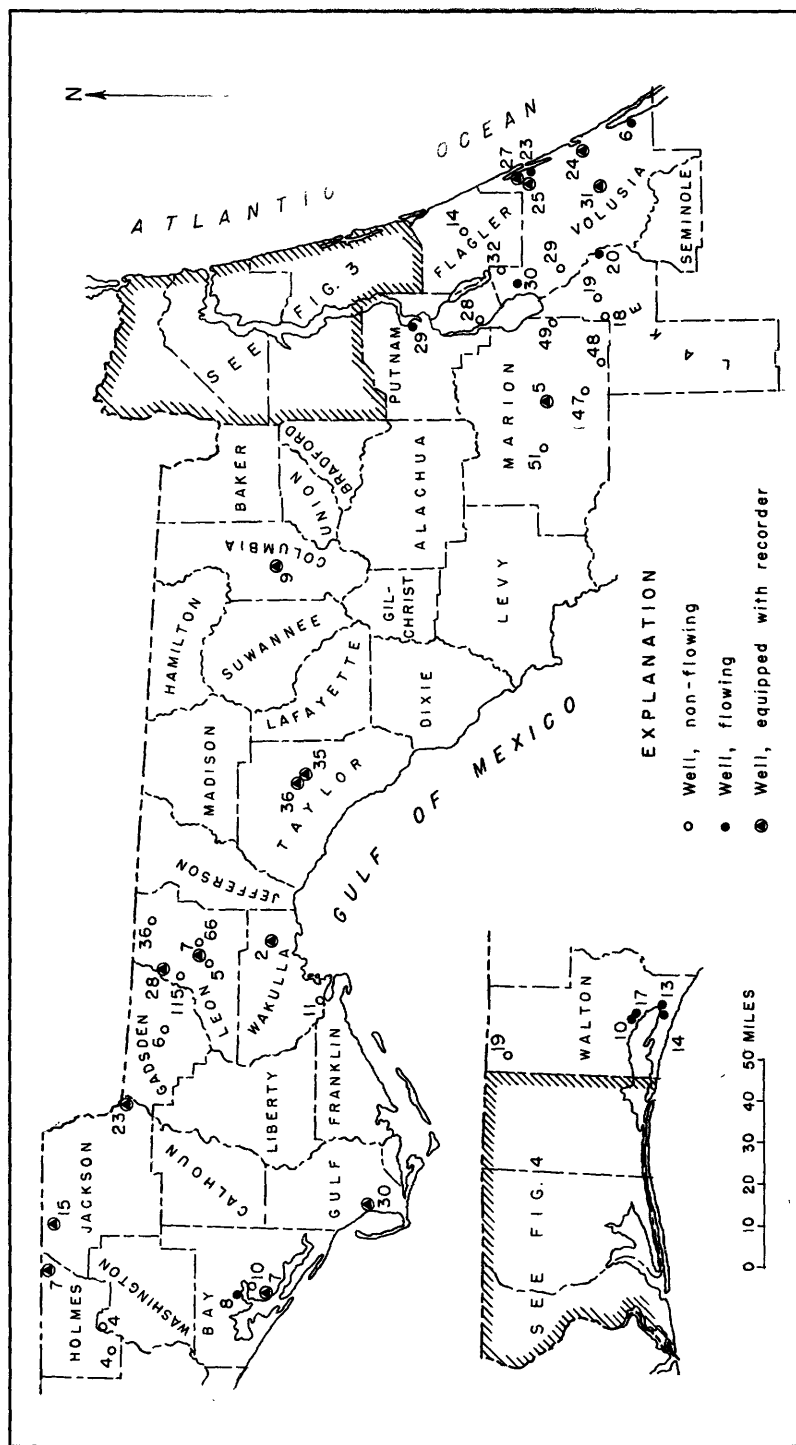


Figure 6. --Location of observation wells in northern and western Florida.

Pumpage

During 1951 the average daily pumpage in the Miami well field was 53 million gallons. The heaviest pumpage occurred during March when the daily average was 61 million gallons. The average yearly water level for well S-68 in the city well field was 0.67 foot lower than for well S-19 on the outer edge of the field, which indicates the depth of the cone of depression caused by pumping. Two cones of depression of about equal size are formed in this well field. Well G-3 is within one cone, whereas S-68 is near the center of the other.

Interpretation of Water-Level Fluctuations

West of the Suwannee River, water levels and artesian pressures were generally lower in 1951 than in 1950. The water level in Escambia County well 45 continued its progressive decline. It has declined more than 29 feet since records began in 1940 in response to pumping from the nearby well field of the Florida Pulp and Paper Co. In Escambia County well 46 the water level declined more than 2 feet during the year and more than 16 feet since 1948, reflecting, in part, a recession from the high water levels reached in 1948. On the other hand, the water level in Escambia County wells 60 and 62, near the industrial wells of Newport Industries, rose 2 to 3 feet near the end of the year. In Santa Rosa, Okaloosa, Walton, Washington, Holmes, and Jackson Counties water levels and artesian pressures were generally lower in 1951 than in 1950. In Bay County well 7, the water level continued its progressive decline. It declined more than 4 feet in 1951, and has declined more than 10 feet since records began in 1946. At the end of 1951, the water level was more than 28 feet below sea level. The decline of the water level in this well is a result of pumping by the Southern Kraft Division of the International Paper Company and by Panama City. On the other hand, the water levels in Bay County wells 8 and 10, which are farther from the pumped wells have not been lowered appreciably by the pumping.

Gulf County well 30 is near the well field of the St. Joe Paper Company in Port St. Joe, and its water level is affected by the pumping of the St. Joe Paper Company. Owing to the changes of rate of pumping, the water level in this well fluctuates over a wide range. However, the water level in this well did not decline progressively during 1951. In 1951 the water levels Taylor County wells 35 and 36 rose about four and five feet, respectively, whereas, the water level in the Leon County observation wells declined two to three feet. From early in 1948 to August 15, 1951, the water level in Columbia County well 9 declined more than 12 feet. This decline represents in part a recession from the high water levels that occurred in 1948. From August 15 to the end of the year, however, this water level rose more than one foot. In Nassau, Duval, and Clay Counties water levels and artesian pressures were lower in all observation wells in 1951 than in 1950. They ranged from about 1 to 5 feet lower in Nassau County, from 0.5 to 6 feet lower in Duval County, and from 0.5 to 2 feet lower in Clay County. The lowest water levels on record occurred in most of the observation wells in these three counties. Record lows occurred in 10 of the 13 wells in Nassau County, in 15 of the 17 wells in Duval County, and in 6 of the 7 wells in Clay County. The decreases in pressures in this area were doubtless due in part to an increase in withdrawals. Further decreases in pressures are expected to occur only with increases in withdrawal. In Putnam, Flagler, and St. Johns Counties the water levels and artesian pressures were only slightly lower in 1951 than in 1950. The water levels and artesian pressures in all observation wells in Marion and Pinellas Counties were slightly lower in 1951 than in 1950. In Volusia County they showed only seasonal trends. Generally, the lowest levels in these three counties were reached in June.

The water level in Orange County well 47 responds quickly to local rainfall. This water level declined nearly four feet from the beginning of the year until June. From June until the end of the year, it rose about four feet in response to above-normal precipitation. Centered around Polk County is a large area of recharge to the artesian water. Consequently, the water levels in wells in this area respond rapidly to local rainfall. The water levels in Sarasota County wells 5 and 9 and Manatee County well 92 continued their slow but progressive decline in 1951, which is, probably, a result of a gradual increase in withdrawal. Water-table fluctuations in south Florida and in the Kissimmee Valley area are closely related to rainfall. The distribution of rainfall during the year varies but generally the highest precipitation occurs from May through October, and correspondingly the water levels are generally highest during that period. On October 2, 1951, a tropical storm, accompanied by extremely heavy rains, crossed the State in a northeasterly direction from Fort Myers to Vero Beach, causing the highest water levels on record in certain areas of Lee, Hendry, Highlands, Okeechobee, and Osceola Counties. Average ground-water levels in southeastern Florida for the year 1951 as compared with 1950 were the same to 0.3 foot lower, except in the Palm Beach area, where average levels ranged from 0.5 to 1.0 foot lower. The 1951 average ground-water levels in shallow wells in the Kissimmee Valley and adjacent areas were approximately 1.0 foot higher than in 1950, except in local areas in Polk County where they were the same.

The average water levels in Dade and Broward Counties ranged from 0.2 to 1 foot lower in 1951 than in the period 1940-50. In Dade County this relationship is indicated by the average water level maps for 1951 and 1940-50 (see figures 7, 8). The 1940-50 map is based on the average annual water levels for 1949 which coincide closely with the average water levels for the period of 1940-50. The 1951 average water levels in southeastern Florida were 0.4 to 1 foot

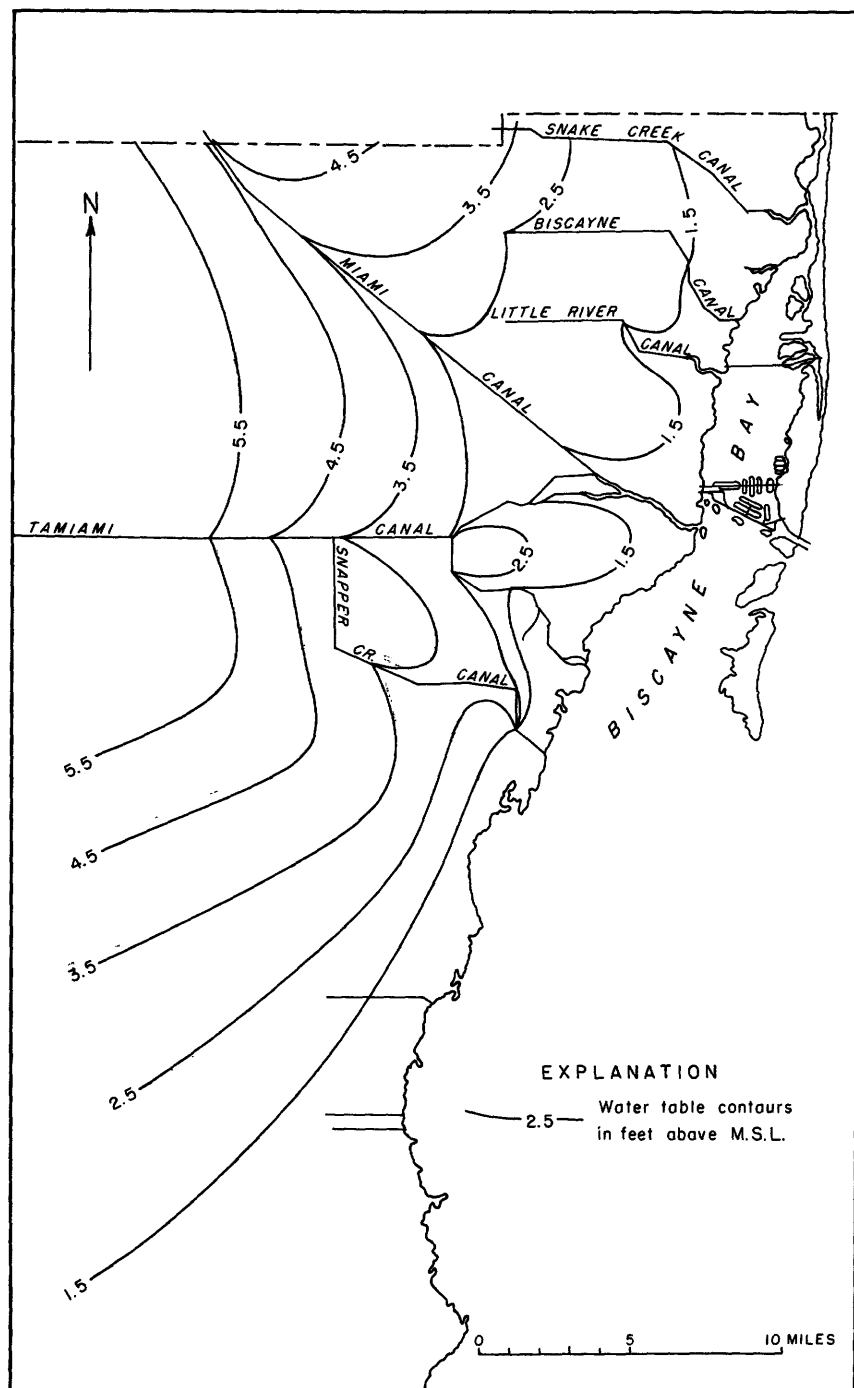


Figure 7.--Average annual water levels in eastern Dade County, 1951.

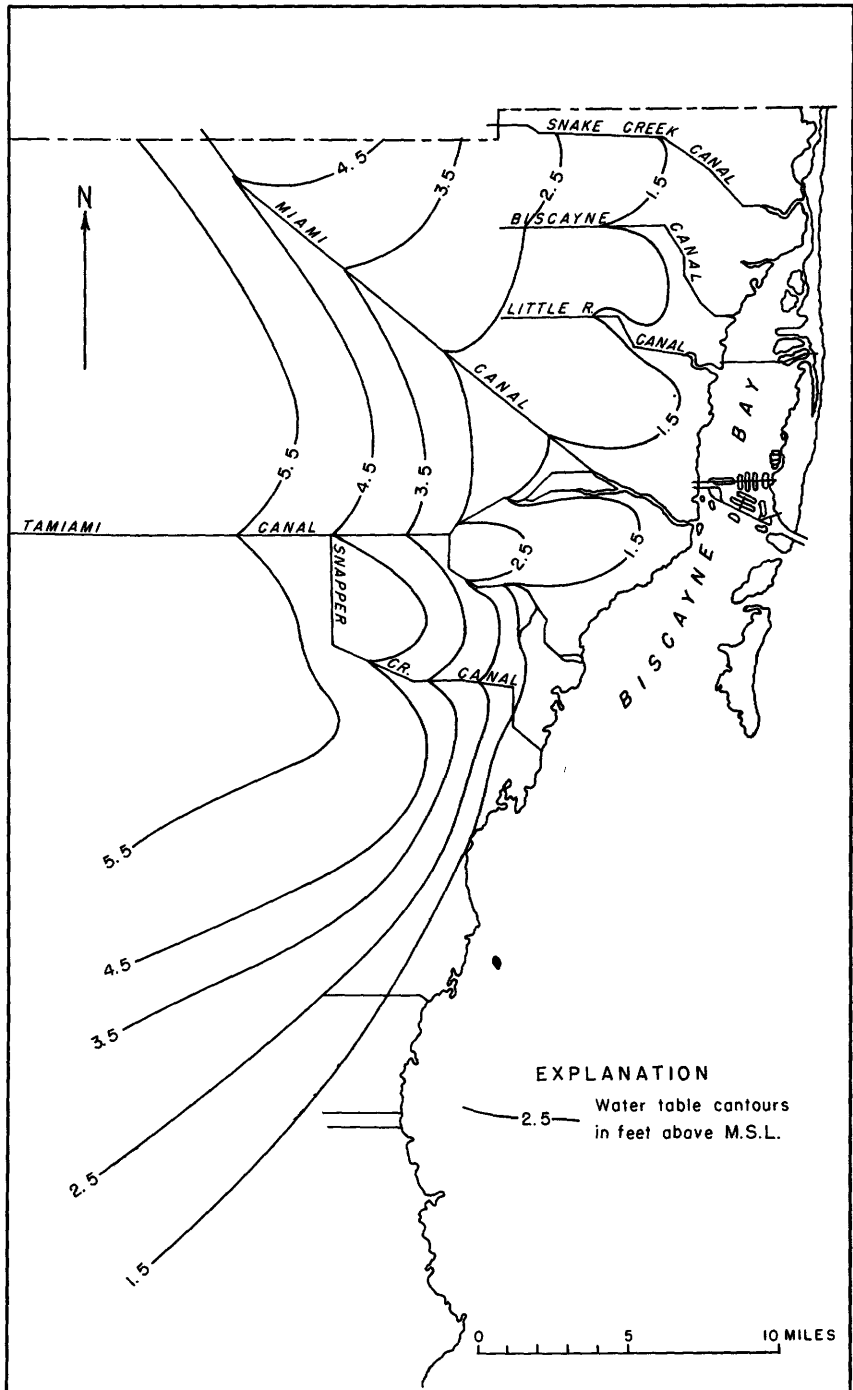


Figure 8. -- Approximate average water levels in eastern Dade County, 1940-50.

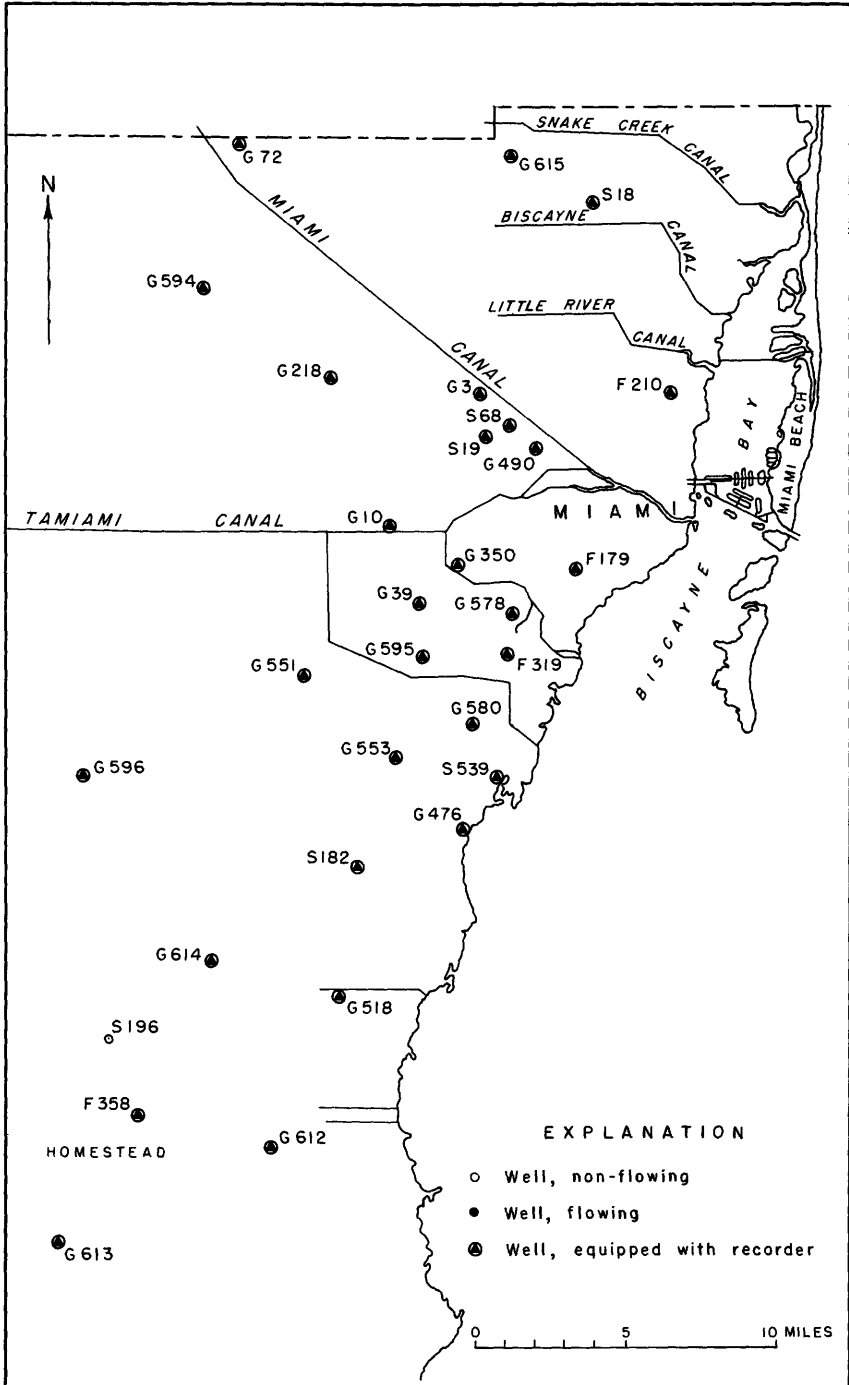


Figure 9. --Location of observation wells in eastern Dade County.

higher than the year of minimum average water levels (1945), except along the coastal ridge in Broward and Palm Beach Counties where the average levels were about the same to 0.2 foot lower than in 1945. In Lee County southwest of Fort Myers artesian pressures declined about 5 feet during the period from September 1950 to February 1951, owing to the heavy withdrawal of ground water for irrigation.

Average annual water levels or artesian pressures in feet above msl

Well no.	County and area	1944	1945	1946	1947	1948	1949	1950	1951	Average through 1951
S 329	Broward	3.20	2.50	3.80	5.45	4.10	3.80	3.70	3.02	3.78
	Fort Lauderdale									
F 210	Dade	1.20	1.05	1.40	2.30	1.45	1.55	1.45	1.45	1.47
	Miami									
G 72	Dade	4.60	3.75	4.80	6.15	5.70	5.40	4.75	4.73	4.97
	Lower Everglades									
S 196	Dade	2.65	2.10	3.30	3.85	3.65	3.35	2.85	2.64	3.15
	Homestead									
62-A	Escambia	2.6	2.0	2.8	2.8	2.9	2.8	1.8	1.8	2.4
	Pensacola									
246	Lee	.....	16.65	16.90	17.10	15.50	15.15	15.05	15.74	16.01
	Fort Myers									
5	Leon	24.6	21.5	26.5	27.1	33.6	27.1	23.6	20.5	25.4
	Tallahassee									
92	Manatee	42.0	41.4	42.2	42.4	42.2	40.6	39.6	40.5	41.5
	Bradenton									
5	Marion	47.7	48.6	50.3	50.6	52.0	51.1	50.1	49.4	49.9
	Ocala									
88	Palm Beach	.....	7.25	7.65	9.85	9.65	7.10	7.70	6.61	7.97
	Lake Worth									

Acknowledgments

The water level measurements for Leon County well 5 were furnished by the city of Tallahassee, and those for Leon County well 66 were furnished by C. J. Shuttleworth.

Well-Numbering System

Observation wells in Florida are generally numbered consecutively by counties. Exceptions to this are wells having numbers with a letter prefix or suffix. In Broward and Dade Counties, the letter prefixes, G, S, and F, denote U. S. Geological Survey wells, supply wells, and fire wells. In Polk, Orange, and Escambia Counties, a letter suffix denotes a shallow well near a deeper well having the corresponding number of the shallow well, without the letter suffix.

Errata

After publication of "Water Levels and Artesian Pressures in wells in Southeastern States" for previous years, errors were found in the Florida section.

Well 13, Hillsborough County

Corrected measurements in feet below land-surface datum

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 23, 1930	7.08	Nov. 28, 1931	6.85	Dec. 30, 1932	7.70	Mar. 24, 1934	7.55
Jan. 28, 1931	6.50	Dec. 20	7.60	Feb. 1, 1933	7.70	June 10	7.45
Feb. 4	6.60	Jan. 27, 1932	8.30	23	7.50	Sept. 14	7.15
Mar. 26	6.82	Feb. 29	8.70	Apr. 28	6.60	Oct. 31	7.55
Apr. 25	5.60	Mar. 21	8.50	June 6	8.20	Jan. 9, 1935	8.55
May 24	6.70	Apr. 20	9.10	July 1	7.80	Apr. 9	9.65
June 22	7.70	June 11	9.00	25	5.45	Jan. 5, 1937	7.15
July 23	7.00	July 29	8.80	Aug. 28	5.85	June 27, 1939	7.05
Aug. 26	6.60	Sept. 8	7.00	Oct. 22	6.35	July 13, 1940	6.85
Sept. 23	6.20	Oct. 21	7.00	Nov. 25	7.25	Nov. 7, 1941	7.49
Oct. 22	6.60	Nov. 26	7.00	Jan. 14, 1934	7.55		

Well 5, Marion County

To obtain corrected measurements from measurements as published, subtract 0.23 from measurements during the period July 10 to Aug. 6, 1946, subtract 0.30 from measurements during the period Aug. 6, 1946 to Jan. 1, 1947, subtract 0.45 from measurements during the years 1947 and 1948, and subtract 0.30 from measurements during the year 1949.

Well Descriptions and Water-Level Measurements

Water levels are in feet below land-surface datum unless otherwise indicated. When some measurements in a table are above and others below the plane of reference, a plus (+) or minus (-) sign is placed immediately preceding the first entry in each column of each mixed table. Readings between minus (-) signs are below the plane of reference, and those between plus (+) signs are above the plane of reference.

Bay County

7. City of Panama City. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 3 S., R. 15 W. Clay and Eleventh Sts., St. Andrews. Drilled unused artesian well in Floridan aquifer, diameter 3 inches, depth 356 feet. Land-surface datum is 28.3 feet above msl. Highest water level 41.76 below lsd, Mar. 22, 1948; lowest 56.79 below lsd, Sept. 15, 1951. Records available: 1946-51.

Weekly high and low water levels from recorder graph

Week ending	High	Low	Week ending	High	Low
Jan. 13	49.60	49.96	May 12	51.55	52.26
20	49.23	49.60	19	52.26	52.97
27	49.24	49.52	26	52.97	53.47
Feb. 3	49.19	49.85	June 2	53.47	53.93
10	49.85	50.33	9	53.93	54.96
17	50.23	50.31	16	53.55	54.53
24	49.63	50.23	23	53.55	53.63
Mar. 17	50.06	50.52	July 14	53.63	56.02
24	50.18	50.52	21	56.02	56.16
31	49.97	50.33	Sept. 15	56.64	56.79
Apr. 7	50.22	50.47	22	56.07	56.64
14	50.13	50.64	Dec. 15	54.07	55.34
21	50.64	50.68	22	53.76	54.56
28	50.69	51.12	29	53.89	54.53
May 5	51.12	51.55			

8. St. Joe Paper Co. Formerly Hunt Oil Co. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 2 S., R. 14 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 435 feet, cased to 300. Land-surface datum is 4 feet above msl. Highest water level 2.64 above lsd, Oct. 25, 1949; lowest 1.18 above lsd, Nov. 13, 1950. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+1.27	Apr. 4	+1.21	July 13	+1.43	Oct. 18	+1.48
Feb. 21	+1.38	May 31	+1.24	Sept. 6	+1.69	Dec. 7	+1.87

10. L. R. Pierson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 3 S., R. 14 W. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches, depth 300 feet. Land-surface datum is 25.74 feet above msl. Highest water level 5.88 below lsd, Aug. 21, 1946; lowest 8.67 below lsd, Nov. 13, 1950. Records available: 1946-51. Jan. 4, 7.81; Feb. 21, 8.05; Apr. 4, 7.69; May 31, 7.83; Sept. 6, 7.33; Oct. 18, 7.89; Dec. 7, 6.57.

Brevard County

19. R. M. Wall. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 28 S., R. 36 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 413 feet, cased to 80. Land-surface datum is 19.04 feet above msl. Highest water level 30.0 above lsd, Oct. 15, 1949; lowest 26.1 above lsd, Mar. 22, 1951. Records available: 1946-51.

Feb. 9	+27.8	Apr. 25	+28.0	July 26	+27.8	Nov. 1	+28.8
Mar. 22	+26.1	June 14	+27.2	Sept. 20	+27.9	Dec. 20	+28.1

20. Marion Platt. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 29 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 447 feet, cased to 125. Land-surface datum is 23 feet above msl. Highest water level 28.7 above lsd, May 12, 1947; lowest 24.2 above lsd, Mar. 22, 1951. Records available: 1946-51.

Feb. 9	+25.8	Apr. 25	+26.0	July 26	+25.7	Nov. 1	+26.3
Mar. 22	+24.2	June 14	+25.2	Sept. 20	+26.0	Dec. 20	+26.0

79. C. W. Carlisle. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 20 S., R. 35 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 160 feet, cased to 85. Land-surface datum is 8.98 feet above msl. Highest water level 6.7 above lsd, Aug. 29, 1946; lowest 1.56 above lsd, Aug. 1, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	+5.32	Apr. 25	+3.71	July 26	+3.70	Nov. 1	+4.88
Mar. 22	+2.82	June 14	+3.28	Sept. 20	+4.11	Dec. 20	+4.72

148. W. P. Warren. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 24 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 206 feet, cased to 105. Land-surface datum is 19.49 feet above msl. Highest water level 13.1 above lsd, Sept. 16, 1947; lowest 7.7 above lsd, Aug. 1, 1950. Records available: 1946-51.

Feb. 9	+11.5	Apr. 25	+11.6	July 26	+11.3	Nov. 1	+12.1
Mar. 22	+10.5	June 14	+10.7	Sept. 20	+11.6	Dec. 20	+11.7

159. H. R. Jacobsen. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 22 S., R. 37 E. Drilled irrigation well in Floridan aquifer, diameter 6 inches, depth 210 feet, cased to 144. Land-surface datum is 3.77 feet above msl. Highest water level 17.2 above lsd, Dec. 14, 1946; lowest 13.7 above lsd, Aug. 1, 1950. Records available: 1946-47, 1949-51.

Feb. 9	+15.2	Apr. 25	+14.9	July 26	+14.3	Nov. 1	+15.7
Mar. 22	+14.4	June 14	+14.7	Sept. 20	+15.3	Dec. 20	+15.7

Broward County

F291. City of Hollywood. South 20 Ave., and Dewey St., Hollywood. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 51 S., R. 42 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 107 feet. Land-surface datum is 9.16 feet above msl. Highest water level 7.26 above msl, Oct. 5, 1948; lowest 0.52 above msl, Apr. 12, 1943. Records available: 1939-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.10	1.38	1.26	0.83	0.95	1.17	0.71	1.69	1.60	1.84	2.51	1.78
2	2.07	1.34	1.22	.82	.91	1.13	.74	1.66	1.60	3.50	2.45	1.76
3	2.04	1.66	1.20	.81	.88	1.10	.71	1.65	1.58	3.52	2.41	1.74
4	2.00	1.70	1.19	.79	.84	1.06	.75	1.62	1.55	3.34	2.37	1.73
5	1.98	1.75	1.17	.77	.81	1.01	.76	1.59	1.50	3.24	2.33	1.72
6	1.96	1.78	1.15	.77	.79	1.00	.71	1.54	1.45	3.14	2.30	1.70
7	1.93	1.78	1.14	.84	.76	1.04	.71	1.52	1.42	3.04	2.25	1.67
8	1.86	1.77	1.12	.86	.73	.99	.79	1.71	1.39	2.95	2.21	1.65
9	1.79	1.75	1.11	.88	.71	.96	1.04	2.26	1.38	2.98	2.18	1.63
10	1.79	1.73	1.09	1.05	.69	.91	1.32	2.24	1.73	3.00	2.14	1.60
11	1.78	1.71	1.08	1.09	.66	.85	1.47	2.17	1.87	2.86	2.12	1.55
12	1.78	1.66	1.06	1.11	.64	.82	1.53	2.10	1.92	2.80	2.09	1.51
13	1.76	1.61	1.07	1.10	1.10	.79	1.54	2.03	1.93	2.77	2.08	1.49
14	1.75	1.56	1.06	1.09	1.22	.77	1.55	1.98	1.89	2.88	2.04	1.47
15	1.72	1.52	1.05	1.06	1.23	.77	1.56	1.92	1.85	2.87	2.01	1.46
16	1.63	1.48	1.04	1.03	1.16	.73	1.53	1.87	1.82	2.99	1.98	1.45
17	1.61	1.46	1.03	1.01	1.12	.80	1.56	1.80	1.76	2.98	2.01	1.43
18	1.59	1.43	1.02	.98	1.09	.94	1.62	1.76	1.73	2.98	1.98	1.41
19	1.56	1.40	1.00	1.00	1.12	1.04	1.63	1.72	1.67	2.98	1.95	1.40
20	1.54	1.37	.98	1.02	1.14	1.07	1.63	1.69	1.60	2.92	1.92	1.38
21	1.56	1.35	.98	1.16	1.12	1.06	1.64	1.66	1.56	2.88	1.89	1.37
22	1.54	1.34	.94	1.18	1.09	.99	1.64	1.65	1.52	2.84	1.87	1.36
23	1.52	1.32	.92	1.18	1.04	.95	1.60	1.64	1.47	2.80	1.85	1.36
24	1.50	1.31	.91	1.15	.98	.92	1.60	1.64	1.43	2.74	1.88	1.34
25	1.48	1.30	.90	1.13	.93	.88	1.84	1.62	1.40	2.72	1.83	1.33
26	1.47	1.29	.88	1.12	.89	.84	1.87	1.59	1.37	2.71	1.80	1.31
27	1.46	1.28	.87	1.09	1.04	.82	1.87	1.55	1.35	2.67	1.78	1.29
28	1.45	1.27	.85	1.08	1.18	.80	1.86	1.51	1.44	2.65	1.77	1.26
29	1.43		.84	1.02	1.20	.76	1.81	1.55	1.46	2.62	1.82	1.25
30	1.42		.85	.98	1.23	.73	1.79	1.62	1.58	2.59	1.84	1.26
31	1.40		.86		1.23		1.74	1.62		2.54		1.25

G221. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 50 S., R. 42 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 145 feet, cased to 143 feet. Land-surface datum is 15.63 feet above msl. Highest water level 11.49 above msl, Oct. 12, 1947; lowest 1.04 above msl, Apr. 5, 1949. Records available: 1946-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.86	1.90	1.58	1.41	1.57	e1.96	1.32	3.60	2.75	2.60	....	....
2	2.82	1.95	1.58	e1.39	1.52	1.96	1.58	3.58	2.79	3.10	....	....
3	2.78	2.17	e1.59	1.36	e1.47	1.95	1.61	3.52	2.88	....	....	....
4	2.70	2.26	e1.60	1.37	1.43	1.90	1.88	3.43	2.90	....	....	....
5	2.66	2.32	1.61	1.34	....	1.83	1.91	3.37	2.87	....	....	....
6	2.62	2.36	e1.59	....	....	1.84	....	3.30	2.60	3.38	....	....
7	2.63	2.31	e1.58	1.42	....	1.79	1.91	3.40	2.70	3.37	....	....
8	2.58	2.31	1.58	1.44	....	1.77	1.96	4.06	2.58	....	....	....
9	2.58	e2.32	1.61	1.52	....	e1.67	2.08	4.32	2.62	....	....	....
10	2.57	e2.22	1.62	e1.56	....	1.60	2.72	....	2.65	....	....	....
11	2.50	2.24	1.63	1.61	....	1.57	....	4.33	2.68	....	....	....
12	2.44	2.28	1.63	1.65	1.22	1.52	....	4.25	2.72	....	....	....
13	2.34	2.19	1.59	1.64	1.26	....	3.25	4.19	2.76	....	....	h1.47
14	2.32	2.14	1.62	1.68	1.29	1.24	3.38	4.09	2.83	....	....	h1.41
15	2.29	....	e1.58	e1.63	1.30	1.42	3.41	3.97	2.62	....	....	....
16	2.32	1.93	1.57	1.62	1.31	1.44	3.44	3.87	2.59	....	....	....
17	2.28	1.92	e1.55	1.64	....	1.45	3.69	3.74	2.58	....	....	....
18	2.21	1.90	1.55	1.64	....	1.46	4.12	3.66	2.51	....	....	....
19	2.16	1.86	1.52	1.67	....	1.46	4.15	3.62	2.46	....	....	....
20	2.10	e1.82	e1.49	1.72	....	1.40	....	3.55	2.38	....	....	....
21	2.10	e1.80	1.49	1.77	....	e1.36	4.16	3.44	2.32	....	....	h1.24
22	2.10	e1.79	1.49	1.79	....	1.35	4.15	3.34	2.33	....	....	....
23	2.07	1.80	1.46	1.80	....	1.31	4.07	3.26	2.26	....	....	....
24	2.07	e1.72	1.43	e1.77	....	1.27	3.92	3.21	2.25	....	....	....
25	2.05	1.65	1.40	e1.75	....	1.28	4.03	3.23	2.26	....	....	....
26	2.06	1.64	1.40	1.74	1.13	1.28	4.03	3.20	2.29	....	....	....
27	2.03	1.63	1.39	1.76	1.52	1.30	3.95	3.10	1.98	....	....	....
28	1.98	1.62	1.37	1.70	1.80	1.34	3.86	3.03	2.30	....	....	h1.53
29	1.94	....	1.36	e1.66	1.99	1.23	3.79	2.93	2.35	....	....	1.72
30	1.85	....	1.41	1.63	1.97	e1.18	3.74	2.88	2.44	....	....	1.63
31	1.86	....	1.43	....	e1.97	....	3.68	2.84	....	....	....	1.61

e Estimated.

h Tape measurement.

G561. U. S. Geol. Survey. Southeast 4 Ave., and 20 St., Fort Lauderdale. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 50 S., R. 42 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 20 feet. Land-surface datum is 8.15 feet above msl. Highest water level 7.40 above msl, Oct. 5, 1948; lowest 0.33 above msl, May 12, 1951. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.57	0.87	0.85	0.70	0.66	1.37	0.68	1.11	1.44	....	2.20	1.59
2	1.52	.83	.83	.67	.63	1.29	.66	1.25	1.44	....	2.13	1.60
3	1.49	1.30	.81	.68	.62	1.21	.65	1.18	1.41	....	2.15	1.53
4	1.45	1.38	.80	.61	.59	1.10	.65	1.14	1.37	....	2.10	1.56
5	1.42	1.44	.76	.67	.57	1.03	.64	1.11	1.32	2.86	2.05	1.49
6	1.38	1.47	.74	.65	.54	.99	.60	1.06	1.27	2.70	2.00	1.47
7	1.36	1.48	.74	.77	.48	.89	.62	1.04	1.23	2.57	1.98	1.45
8	1.34	1.46	.73	.80	.45	.85	.67	2.10	1.19	2.46	....	1.42
9	1.31	1.44	.75	.81	.42	.78	e.63	2.28	1.18	2.44	1.96	1.39
10	1.27	1.40	.77	1.08	.39	.73	1.62	2.23	1.42	2.56	e1.92	1.36
11	1.28	1.34	.74	1.12	.36	.66	1.70	2.09	1.65	2.47	e1.89	1.31
12	1.21	1.27	.73	1.09	.33	.62	1.65	1.96	1.72	2.39	e1.87	1.25
13	1.20	1.24	.77	1.07	.34	.60	1.57	1.84	1.72	2.43	e1.85	1.22
14	1.17	1.21	.78	1.03	.59	.58	1.50	1.83	1.70	2.87	e1.83	1.18
15	1.13	1.14	.75	.98	.66	.53	1.44	1.76	1.72	2.90	1.82	1.13
16	1.12	1.06	.73	.93	.68	.56	1.35	1.68	1.69	2.90	1.78	1.12
17	1.07	1.04	.72	.91	.66	1.00	1.33	1.62	1.65	2.80	1.77	1.12
18	1.03	1.01	.70	.89	.70	1.07	1.48	1.59	1.59	2.74	1.73	1.10
19	1.04	.94	.66	.90	.79	1.07	....	1.56	1.47	2.68	1.70	1.09
20	1.02	.94	.63	1.16	.86	1.00	1.41	1.51	1.41	2.66	1.64	1.08
21	1.01	.90	.63	1.24	.89	.99	1.41	1.48	1.37	2.62	1.62	1.06
22	.97	.92	.62	1.19	.90	.93	1.35	1.45	1.33	2.57	1.62	1.04
23	.99	.92	.59	1.07	.82	.91	1.28	1.48	1.29	2.50	1.58	1.01
24	1.00	.91	.59	.99	.79	.90	1.36	1.63	1.26	2.43	1.62	.98
25	1.01	.92	.59	.93	.84	.84	1.35	1.55	1.26	2.38	1.58	.95

G561--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	0.99	0.89	0.59	0.89	0.78	0.82	1.33	1.47	1.25	2.33	1.56	0.92
27	1.00	.88	.58	.83	1.45	.93	1.33	1.41	1.24	2.32	1.52	.90
28	.98	.90	.57	.79	1.68	.86	1.34	1.37	....	2.31	1.48	.87
29	.94		.57	.74	1.70	.79	1.27	1.41	....	2.26	1.59	.95
30	.92		.68	.68	1.58	.70	1.19	1.44	....	2.24	1.54	.99
31	.90		.72		1.47		1.21	1.44		2.22		.99

e Estimated.

S329. City of Fort Lauderdale. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 50 S., R. 41 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 68 feet. Land-surface datum is 9.22 feet above msl. Highest water level 10.76 above msl, Oct. 17, 1947; lowest 0.77 above msl, June 11, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.60	2.82	2.58	2.16	2.16	....	2.24	4.38	3.29	2.81	4.00	7.91
2	3.55	2.95	e2.56	2.14	2.10	2.43	2.46	4.32	3.40	3.75	3.95	2.86
3	3.50	3.35	e2.46	2.14	e2.04	2.42	2.60	4.24	3.74	4.09	3.92	2.81
4	3.46	3.52	2.40	2.14	2.02	2.34	2.69	4.13	3.87	4.13	3.90	2.78
5	3.43	3.60	2.38	2.06	1.93	2.26	2.75	4.05	3.84	3.84	3.87	2.78
6	3.42	3.62	e2.34	....	1.93	2.33	2.70	3.98	3.54	3.97	3.80	2.79
7	3.42	3.60	e2.31	2.10	1.93	2.34	2.69	3.92	3.56	3.88	3.71	2.74
8	3.40	3.58	2.39	2.16	1.83	2.35	2.94	4.72	3.42	....	3.66	2.72
9	3.39	3.49	2.34	2.18	1.82	2.24	3.22	4.87	3.44	3.90	3.66	2.70
10	3.35	3.32	2.33	e2.32	1.82	2.18	3.78	4.88	3.42	4.15	3.59	2.66
11	3.30	3.40	2.34	2.40	1.79	2.11	4.21	4.77	3.48	4.21	3.52	2.65
12	3.30	3.42	2.33	2.47	1.78	2.06	4.27	4.62	3.52	4.24	3.48	2.64
13	3.24	3.33	2.26	2.49	1.88	....	4.26	4.51	3.50	4.30	3.40	2.64
14	3.22	3.27	2.38	e2.53	1.90	....	4.25	4.39	3.39	5.04	3.34	2.59
15	3.19	3.14	2.39	e2.49	1.94	1.92	4.25	4.28	3.30	5.06	3.32	2.54
16	3.20	3.01	2.36	2.48	1.96	1.94	4.13	4.18	3.28	5.09	3.32	2.52
17	3.18	3.10	e2.28	2.42	1.90	2.00	4.09	4.08	3.26	5.10	3.27	2.56
18	3.12	3.06	2.27	2.39	e1.84	2.02	4.64	3.98	3.16	....	3.33	2.54
19	2.98	3.02	2.20	2.40	1.86	2.06	4.84	3.96	3.12	....	3.29	2.48
20	2.97	2.95	e2.16	2.41	1.87	2.05	4.77	3.88	3.03	4.77	3.22	2.46
21	2.96	2.91	2.16	2.50	1.85	1.96	4.66	3.64	2.96	4.63	3.16	2.43
22	2.94	2.87	2.16	2.56	1.76	1.96	4.60	3.70	2.95	4.58	3.10	2.42
23	2.93	2.86	2.12	2.56	1.67	1.89	4.50	3.61	2.88	4.53	3.08	2.45
24	2.92	2.80	2.10	e2.48	1.66	1.80	4.36	3.60	2.87	4.45	3.12	2.48
25	2.92	2.76	2.08	e2.43	1.65	1.81	4.86	3.60	2.85	4.33	3.05	2.44
26	2.93	2.69	2.08	2.42	1.64	e1.81	4.92	3.53	2.87	4.28	2.98	2.42
27	2.87	2.68	2.08	2.45	1.69	1.85	4.93	3.46	2.44	4.32	2.91	2.36
28	2.82	2.64	2.06	2.35	2.22	2.02	4.86	3.35	2.90	4.26	2.89	2.40
29	2.75		2.04	e2.28	2.31	1.90	4.68	3.31	2.97	4.24	2.93	2.36
30	2.70		2.10	2.26	....	1.88	4.58	3.37	3.06	4.16	2.95	2.31
31	2.75		2.14	....	....		4.48	3.36		4.06		2.30

e Estimated.

Citrus County

13. A. C. Yonley. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 17 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 3 inches, reported depth 113 feet. Land-surface datum is 38.4 feet above msl. Highest water level 0.4 above lsd, Sept., 1945; lowest 7.0 below lsd, June, 1945. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	2.09	Apr. 23	3.54	July 24	4.98	Oct. 30	3.50
Mar. 5	2.94	June 12	3.82	Sept. 18	4.48	Dec. 18	3.27

15. Charles Rush. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 17 S., R. 18 E. Drilled domestic artesian well in Floridan aquifer, diameter 3 inches, depth 78 feet. Land-surface datum is 44.2 feet above msl. Highest water level 7.84 below lsd, Oct. 16, 1950; lowest 17.9 below lsd, June, 1945. Records available: 1935-51.

Jan. 16	9.40	Apr. 23	11.56	July 24	14.00	Oct. 30	13.68
Mar. 5	10.46	June 12	11.67	Sept. 18	13.31	Dec. 18	13.27

Clay County

1. Girl Scouts of America. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 5 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet, cased to 72. Land-surface datum is 11.74 feet above msl. Highest water level 44.3 above lsd, Mar. 22, 1948; lowest 33.6 above lsd, Aug. 8, 1951. Records available: 1934, 1940, 1942, 1944-51. Feb. 8, +39.1; Mar. 20, +36.3; May 10, +35.9; June 21, +36.6; Aug. 8, +33.6; Oct. 3, +38.7; Nov. 21, +38.9.

2. Mrs. M. A. Chaulker. At Middleburg. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 5 S., R. 24 E. Drilled domestic artesian well in Floridan aquifer, diameter 3 inches, reported depth 498 feet, depth of casing 300. Land-surface datum is 27.72 feet above msl. Highest water level 48.1 above lsd, Apr. 30, 1948; lowest 39.3 above lsd, May 10, 1951. Records available: 1934, 1940-42, 1944-51. Feb. 8, +41.0; Mar. 20, +40.0; May 10, +39.3; June 21, +40.2; Aug. 8, +40.1; Oct. 3, +40.7; Nov. 21, +40.5.

4. T. J. Jennings. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 4 S., R. 25 E. Drilled stock well in Floridan aquifer, diameter 4 inches, reported depth 481 feet, cased to 80. Land-surface datum is 26.07 feet above msl. Highest water level 42.3 above lsd, July 15, 1947; lowest 33.9 above lsd, Jan. 24, 1944. Records available: 1940-42, 1944-51. Feb. 8, +36.7; Mar. 20, +35.5; May 10, +34.9; June 21, +34.3; Aug. 8, +34.5; Oct. 3, +34.5; Nov. 21, +34.9.

5. John Huntley. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 4 S., R. 25 E. Drilled domestic artesian well in the Floridan aquifer, diameter 4 inches, reported depth 530 feet, cased to 157 feet. Land-surface datum is 24.02 feet above msl. Highest water level 36.9 above lsd, Apr. 28, 1944; lowest 29.0 above lsd, June 21, 1951. Records available: 1940-41, 1944-51. Feb. 8, +31.8; Mar. 20, +30.5; May 10, +30.0; June 21, +29.0; Aug. 8, +29.5; Oct. 3, +29.8; Nov. 21, +30.3.

7. U. S. Navy. At auxiliary air base. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 650 feet, cased to 276. Land-surface datum is 12.14 feet above msl. Highest water level 27.2 above lsd, Nov. 10, 1940; lowest 13.2 above lsd, May 10, 1951. Records available: 1940-42, 1946-47, 1949-51. Feb. 8, +17.8; Mar. 20, +19.9; May 10, +13.2; June 21, +15.3; Aug. 8, +15.7; Oct. 3, +15.9; Nov. 21, +16.2.

8. St. Elmo Hotel. Green Cove Springs. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 600 feet, cased to about 150. Land-surface datum is 15.89 feet above msl. Highest water level 22.5 above lsd, July 15, 1947; lowest 16.0 above lsd, June 21, 1951. Records available: 1934-35, 1940-42, 1944-51. Feb. 8, +17.2; Mar. 20, +16.9; May 10, +16.7; June 21, +16.0; Aug. 8, +16.5; Oct. 3, +17.0; Nov. 21, +17.0.

22. U. S. Navy. At auxiliary air base, Green Cove Springs. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 650 feet, cased to 282. Highest water level 23.5 above lsd, Sept. 4, 1946; lowest 14.6 above lsd, Oct. 3, 1951. Records available: 1946-51. Feb. 8, +17.9; Mar. 20, +19.2; May 10, +18.5; June 21, +15.5; Aug. 8, +14.9; Oct. 3, +14.6; Nov. 21, +16.3.

Columbia County

9. City of Lake City. Sec. 5, T. 4 S., R. 17 E. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, reported depth 836 feet. Highest water level 79.58 below lsd, June 5, 1948; lowest 91.62 below lsd, Aug. 15, 1951. Records available: 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	89.61	89.70	90.03	90.24	90.61	90.98	91.24	91.52	91.36	.....	91.27	90.85
2	89.57	89.90	90.03	90.13	90.58	90.94	91.30	91.49	91.39	.....	91.15	90.77
3	89.55	89.90	90.02	90.18	90.46	90.90	91.31	91.43	91.44	91.17	91.25	90.70
4	89.57	89.84	90.02	90.28	90.39	90.91	91.27	91.45	91.47	91.29	91.33	90.55
5	89.60	89.86	90.08	90.34	90.38	90.93	91.25	91.47	91.48	91.37	91.36	90.55
6	89.56	89.79	90.15	90.29	90.51	90.92	91.26	91.52	91.46	91.36	91.24	90.61
7	89.45	89.69	90.07	90.09	90.60	90.95	91.27	91.47	91.44	91.36	91.16	90.70
8	89.58	89.93	90.02	90.12	90.68	90.98	91.27	91.42	91.48	91.40	91.30	90.70
9	89.70	89.95	90.12	90.21	90.71	91.02	91.21	91.44	91.52	91.36	91.34	90.69
10	89.68	89.98	90.21	90.23	90.67	90.94	91.30	91.49	91.53	91.35	91.28	90.62
11	89.61	90.00	90.17	90.25	90.60	90.93	91.34	91.52	91.54	91.45	91.22	90.52
12	89.66	89.92	89.95	90.27	90.60	90.98	91.37	91.55	91.53	91.51	91.15	90.47
13	89.67	89.96	89.91	90.36	90.73	90.93	91.39	91.55	91.51	91.54	91.07	90.54
14	89.56	90.00	90.02	90.40	90.89	90.92	91.41	91.55	91.51	91.52	91.02	90.50
15	89.47	90.01	90.08	90.42	90.92	90.97	91.41	91.55	91.49	91.43	90.97	90.48
16	89.70	90.01	90.11	90.39	90.77	90.97	91.40	91.54	91.45	91.45	90.90	90.70
17	89.73	89.97	90.16	90.43	90.68	90.96	91.42	91.53	91.40	91.48	91.00	90.67
18	89.67	89.97	90.14	90.46	90.72	91.08	91.42	91.52	91.44	91.46	91.12	90.48

9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
19	89.68	89.96	90.09	90.39	90.74	91.11	91.41	91.52	91.53	91.40	91.10	90.45
20	89.67	89.89	90.18	90.47	90.70	91.10	91.42	91.52	91.57	91.39	91.17	90.32
21	89.67	89.72	90.18	90.57	90.72	91.12	91.48	91.53	91.57	91.38	91.20	90.30
22	89.73	89.90	90.23	90.53	90.73	91.12	91.55	91.53	91.53	91.41	91.16	90.45
23	89.70	89.98	90.26	90.53	90.64	91.19	91.55	91.52	91.53	91.42	91.04	90.50
24	89.61	90.01	90.18	90.58	90.64	91.24	91.52	91.46	91.56	91.40	90.96	90.53
25	89.64	89.99	90.25	90.60	90.74	91.22	91.51	91.47	91.54	91.45	90.94	90.49
26	89.77	89.99	90.31	90.61	90.73	91.19	91.52	91.50	91.46	91.46	90.87	90.38
27	89.83	89.98	90.31	90.62	90.71	91.24	91.50	91.47	91.44	91.38	90.77	90.52
28	89.85	89.99	90.23	90.61	90.69	91.27	91.47	91.47	91.46	91.26	90.75	90.52
29	89.81		90.16	90.54	90.74	91.24	91.46	91.46	.....	91.31	90.85	90.40
30	89.77		90.18	90.55	90.83	91.23	91.47	91.42	.....	91.35	90.89	90.35
31	89.73		90.29		90.91		91.49	91.40		91.37		90.40

Dade County

F179. City of Miami. Southwest 24 Terrace and 32 Ave. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 77 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.21 above msl, Oct. 14, 1947; lowest 0.80 above msl, Mar. 10, 1945. Records available: 1939-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.49	1.22	1.39	1.30	1.64	1.68	1.56	1.70	1.66	2.25	2.59	1.80
2	1.51	1.21	1.39	1.32	1.60	1.67	1.55	1.65	1.68	2.98	2.54	1.82
3	1.52	1.28	1.37	1.33	1.56	1.65	1.53	1.62	1.66	3.00	2.49	1.82
4	1.52	1.28	1.37	1.33	1.54	1.58	1.52	1.60	1.64	3.00	2.44	1.82
5	1.52	1.36	1.36	1.33	1.52	1.53	1.44	1.60	1.61	3.02	2.39	1.82
6	1.50	1.50	1.36	1.33	1.49	1.47	1.42	1.59	1.58	2.99	2.35	1.82
7	e1.49	1.55	1.31	1.37	1.41	1.44	1.41	1.63	1.57	2.99	2.31	1.82
8	e1.46	1.56	1.31	1.73	1.40	1.42	1.40	1.64	1.55	2.98	2.27	1.78
9	e1.44	1.55	1.30	1.77	1.38	1.40	1.77	1.65	1.55	2.96	2.25	1.74
10	e1.41	1.53	1.31	2.55	1.37	1.38	e2.07	1.66	1.56	2.96	2.24	1.70
11	e1.37	1.50	1.32	2.60	1.35	e1.37	e2.20	1.65	1.56	2.96	2.22	1.66
12	1.36	1.48	1.32	2.59	1.35	e1.36	e2.32	1.64	1.63	2.65	2.21	1.62
13	1.34	1.56	1.33	2.55	1.95	e1.34	2.33	1.63	1.69	2.65	2.20	1.57
14	1.33	1.44	1.33	2.51	1.96	e1.32	2.30	1.61	1.72	2.67	2.18	1.54
15	1.32	1.41	1.34	2.38	1.92	1.31	2.22	1.59	1.73	....	2.12	e1.51
16	1.30	1.40	1.32	2.34	1.91	1.38	2.18	1.58	1.73	....	2.10	e1.49
17	1.28	1.38	1.30	2.27	1.89	1.43	2.12	1.57	1.72	....	2.08	1.47
18	1.27	1.37	1.31	2.21	1.93	1.51	2.07	1.57	1.72	....	2.03	1.46
19	1.27	1.37	1.29	2.18	1.93	1.57	2.02	1.58	1.68	3.53	1.91	1.46
20	1.27	1.26	1.28	2.14	1.92	1.58	1.97	1.60	1.67	3.51	1.90	1.47
21	1.26	1.35	e1.25	2.11	1.91	1.59	1.95	1.61	1.66	....	1.90	1.48
22	1.26	1.34	e1.22	2.07	1.90	1.62	1.93	1.67	1.66	....	1.90	1.45
23	1.26	1.33	1.22	2.01	1.86	1.64	e1.90	1.71	1.65	....	....	1.42
24	1.27	1.34	1.22	1.95	1.83	1.64	e1.88	1.71	1.64	....	....	1.38
25	1.28	1.35	1.24	1.89	1.82	1.64	e1.86	1.70	1.65	....	1.93	1.35
26	1.29	1.37	1.24	1.83	1.81	1.64	e1.85	1.69	1.67	2.96	1.87	1.33
27	1.29	1.38	1.25	1.76	1.80	1.64	1.84	1.68	1.68	2.90	1.83	1.30
28	1.29	1.39	1.27	1.75	1.80	1.61	1.82	1.67	1.72	2.85	1.81	1.31
29	1.29		1.28	e1.71	1.79	1.59	1.81	1.66	1.74	2.78	1.80	1.32
30	1.28		1.33	e1.68	1.76	1.58	1.81	1.65	1.76	2.72	1.79	1.33
31	1.25		1.31		1.70		1.76	1.65		2.65		1.33

e Estimated.

F210. City of Miami. Northwest 62 St., and Miami Court. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 53 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 112 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.92 above msl, Oct. 12, 1947; lowest 0.25 above msl, Apr. 6, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.21	0.93	1.07	0.88	1.22	1.01	1.08	e1.77	1.60	2.17	2.35	1.47
2	1.22	.90	1.06	.91	1.19	.98	1.18	1.59	1.60	3.57	2.28	1.48
3	1.20	1.15	1.06	.92	1.17	.95	1.15	1.65	1.57	3.53	2.22	1.49
4	1.19	1.18	1.04	.91	1.14	.92	1.13	1.63	....	3.42	2.15	1.58
5	1.16	1.25	1.03	.90	1.11	.88	1.06	1.57	....	3.27	2.10	1.61
6	1.13	1.31	1.02	.91	1.08	1.07	1.12	1.52	....	3.17	2.07	1.56
7	1.11	1.33	.99	1.01	1.05	1.03	1.09	1.48	1.35	2.99	2.02	1.51
8	1.07	1.32	.98	1.17	1.02	.96	1.08	1.55	1.32	2.88	1.97	1.45

F210--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	1.04	1.31	0.97	1.21	1.00	0.91	1.44	1.52	1.32	2.87	1.92	1.42
10	1.03	1.28	.98	1.78	.98	.88	1.88	1.49	1.67	2.78	1.90	1.37
11	1.03	1.26	.97	1.85	.95	.88	1.91	1.57	1.78	e2.70	1.88	1.35
12	1.02	1.24	.97	1.86	.94	.89	1.83	1.53	1.83	2.64	1.86	1.32
13	1.00	1.23	1.01	1.79	.94	.87	1.97	1.49	1.85	2.58	1.84	1.28
14	1.00	1.20	1.02	1.74	1.06	.86	1.95	1.61	1.84	2.55	1.81	1.29
15	1.00	1.17	1.02	1.68	1.00	.93	1.90	1.57	1.80	2.51	1.80	1.25
16	.98	1.12	.99	1.64	.99	.98	1.83	1.53	1.89	3.32	1.75	1.23
17	.97	1.10	.98	1.59	1.03	.98	1.77	1.50	1.88	3.61	1.70	1.21
18	.97	1.08	.98	1.56	1.02	.99	1.70	1.48	1.83	3.55	1.65	1.23
19	.97	1.07	.96	1.54	1.06	1.00	1.65	1.47	1.75	3.42	1.62	1.20
20	.95	1.08	.93	1.50	1.08	1.01	1.82	1.46	1.68	3.30	1.60	1.20
21	.95	1.08	.92	1.69	1.10	1.02	1.83	1.45	1.62	3.20	1.58	1.19
22	.95	1.08	.90	1.61	1.09	1.04	1.64	1.62	1.58	3.10	1.58	1.16
23	.95	1.07	.86	1.54	1.07	1.06	1.58	1.67	1.54	2.99	1.59	1.14
24	.96	1.08	.88	1.48	1.03	1.07	1.54	1.63	1.51	2.91	1.58	1.11
25	.99	1.09	.89	1.43	1.01	1.07	1.52	1.60	1.50	2.82	1.55	1.10
26	.96	1.11	.88	1.38	1.01	1.09	e1.67	1.56	1.48	2.73	1.52	1.08
27	.97	1.12	.89	1.33	1.00	1.23	1.66	1.53	1.50	2.65	1.50	1.05
28	.99	1.12	.90	1.29	1.05	1.19	1.63	1.51	1.57	2.60	1.48	1.05
29	1.00		.91	1.27	1.07	1.16	e1.65	1.48	1.59	2.53	1.46	1.10
30	.96		.89	1.25	1.06	1.10	e1.58	1.54	1.60	2.47	1.46	1.11
31	.94		.87		1.04		e1.93	1.60		2.40		1.10

e Estimated.

F319. Town of South Miami. North First Ave., and Sunset Drive. $SE\frac{1}{4}SE\frac{1}{4}$ sec. 25, T. 54 S., R. 40 E. Dug unused water-table well in limestone of Biscayne aquifer, size 4 by 4 feet, depth 14 feet, lined with concrete. Land-surface datum is 11.12 feet above msl. Highest water level 8.86 above msl, Oct. 11, 1947; lowest 0.47 above msl, May 19, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.08	1.80	1.90	....	2.23	1.80	1.48	2.07	2.09	....	2.37	2.13
2	2.10	1.77	1.88	....	2.19	1.78	1.47	2.02	2.11	....	2.34	2.16
3	2.11	1.84	1.87	....	2.17	1.77	1.44	1.98	2.11	e3.50	2.30	2.18
4	2.09	1.87	1.86	....	2.14	1.71	1.42	1.96	e2.08	....	2.25	2.19
5	2.07	1.94	1.83	1.65	2.10	1.68	1.41	1.95	e2.05	3.19	2.20	2.18
6	2.05	2.00	1.80	1.65	2.08	1.64	1.39	1.93	e2.02	3.04	2.20	2.16
7	2.05	2.05	1.82	1.67	2.02	1.70	1.38	1.93	2.00	2.90	2.18	2.15
8	2.02	2.07	1.79	2.25	1.99	1.69	1.38	1.94	1.98	2.78	2.14	2.07
9	1.98	2.08	1.78	2.36	1.96	1.66	1.54	1.95	1.96	2.70	2.10	2.04
10	1.96	2.08	1.79	3.36	1.91	1.62	1.89	1.97	1.96	2.66	2.07	2.00
11	1.95	2.07	1.79	3.44	1.89	1.60	1.98	1.99	1.96	2.59	2.07	1.97
12	1.95	2.05	1.76	3.29	1.87	1.58	2.02	1.98	e1.99	2.54	2.06	1.95
13	1.94	2.03	1.80	3.14	1.85	1.56	2.08	1.97	e2.00	2.54	2.04	1.93
14	1.94	2.02	1.81	3.02	1.82	1.53	2.09	1.96	2.02	2.55	2.04	1.91
15	1.93	2.00	1.81	2.93	1.82	1.54	2.10	1.96	2.02	2.56	2.05	1.90
16	1.90	1.96	1.81	2.84	1.83	1.54	2.10	1.95	2.04	2.77	2.06	1.88
17	1.88	1.95	1.81	2.77	1.85	1.55	2.08	1.95	2.06	2.95	2.09	1.86
18	1.88	1.94	1.81	2.73	1.88	1.55	2.07	1.95	2.06	3.01	2.08	1.88
19	1.88	1.90	1.77	2.70	1.90	1.54	2.03	1.95	2.03	3.00	2.07	1.88
20	1.87	1.89	1.75	2.66	1.92	1.53	2.03	1.95	2.01	2.99	2.07	1.88
21	1.86	1.90	1.73	2.62	1.94	1.53	2.02	1.95	1.99	2.95	2.09	1.87
22	1.85	1.89	1.73	2.61	1.94	1.54	2.00	1.95	1.98	2.89	2.14	1.85
23	1.85	1.88	1.67	2.56	1.92	1.56	1.98	1.97	1.97	2.82	2.16	1.83
24	1.86	1.89	1.67	2.49	1.91	1.55	1.97	2.01	1.95	2.76	2.17	1.81
25	1.86	1.91	1.68	2.45	1.86	1.54	1.97	2.01	1.95	2.69	2.17	1.79
26	1.85	1.91	1.67	2.42	1.85	1.53	2.11	2.01	1.94	2.64	2.15	1.76
27	1.85	1.93	1.67	2.37	1.84	1.55	2.16	2.02	1.95	2.60	2.12	1.75
28	1.86	1.91	1.70	2.33	1.85	1.53	2.18	2.03	1.97	2.56	2.12	1.73
29	1.86		1.68	2.29	1.85	1.52	2.17	2.04	1.99	2.53	2.12	1.75
30	1.83		1.70	2.27	1.83	1.49	2.14	2.05	2.01	2.48	2.10	1.80
31	1.82		....		1.81		2.09	2.06		2.43		1.81

e Estimated.

F358. Town of Homestead. Northwest 6 St., and 2 Ave. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 57 S., R. 38 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 54 feet. Land-surface datum is 7.76 feet above msl. Highest water level 8.19 above msl, Oct. 5, 1948; lowest 0.85 below msl, May 24, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.90	1.79	1.77	0.87	1.60	1.18	1.22	3.80	3.26	4.18	3.33	2.15
2	2.92	1.79	1.73	.91	1.65	1.11	1.19	3.87	3.18	4.20	3.25	2.12
3	2.90	2.15	1.70	.92	1.50	1.05	1.13	3.90	3.11	4.16	3.28	2.11
4	2.85	2.22	1.68	.88	1.45	.99	1.10	3.99	e3.08	4.06	3.24	2.09
5	2.80	2.50	1.64	.84	1.41	.95	1.09	3.88	3.02	3.97	3.18	2.07
6	2.77	2.64	1.61	.81	1.35	.93	1.11	3.88	2.94	3.83	3.12	2.04
7	2.76	2.69	1.58	.79	1.31	.94	1.12	4.29	2.90	3.73	3.07	1.99
8	2.70	2.67	1.55	.78	1.25	.92	1.51	4.25	2.87	3.64	3.01	1.96
9	2.64	2.64	1.53	1.03	1.22	.90	1.62	4.29	3.16	3.78	2.97	1.93
10	2.60	2.60	1.50	1.73	1.18	.87	2.12	4.18	3.18	3.74	2.91	1.89
11	2.56	2.54	1.48	1.93	1.15	.84	2.38	4.14	3.17	3.66	2.86	1.86
12	2.52	2.49	1.46	2.03	1.11	.80	2.42	4.19	3.15	3.61	2.81	1.83
13	2.47	2.44	1.45	2.06	1.10	.76	2.44	4.08	3.09	3.57	2.76	1.80
14	2.42	2.39	1.42	2.07	1.48	.73	2.43	4.04	3.08	3.56	2.72	1.75
15	2.38	2.34	1.38	2.04	1.54	.72	2.62	3.96	2.97	3.54	2.68	1.73
16	2.32	2.27	1.34	2.01	1.53	.95	2.65	3.87	3.55	4.08	2.59	1.71
17	2.26	2.22	1.31	1.97	1.80	1.55	2.68	3.80	3.45	4.12	2.59	1.70
18	2.20	2.18	1.28	1.93	1.83	1.86	2.69	3.69	3.37	4.07	2.55	1.69
19	2.16	2.15	1.24	1.89	1.82	1.92	2.68	3.60	3.26	3.99	2.50	1.67
20	2.12	2.12	1.22	1.85	1.83	1.83	2.68	3.53	3.15	3.90	2.46	1.65
21	2.10	2.08	1.19	1.84	1.79	1.77	2.76	3.45	3.05	3.81	2.41	1.63
22	2.07	2.04	1.16	1.82	1.75	1.73	2.78	3.38	2.95	3.74	2.36	1.62
23	2.03	1.96	1.11	1.79	1.69	1.68	2.72	3.35	2.86	3.66	2.34	1.61
24	2.01	1.93	1.08	1.79	1.62	1.61	2.71	3.33	2.81	3.58	2.30	1.60
25	1.98	1.89	1.04	1.78	1.55	1.63	2.70	3.27	2.87	3.50	2.26	1.57
26	1.94	1.86	1.01	1.77	1.48	1.57	2.81	3.19	2.81	3.47	2.22	1.55
27	1.91	1.83	.98	1.73	1.47	1.50	2.77	3.15	2.78	3.41	2.19	1.54
28	1.88	1.79	.94	1.70	1.45	1.44	2.72	3.18	3.04	3.52	2.16	1.52
29	1.86		.92	1.68	1.38	1.38	2.66	3.21	3.08	3.52	2.17	1.50
30	1.84		.90	1.64	1.32	1.26	2.60	3.33	3.27	3.48	2.19	1.45
31	1.81		.88		1.25		2.61	3.34		3.40		1.46

e Estimated.

G3. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E. Dug and driven water-table well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 9 feet, cased to 8 feet. Land-surface datum is 4.88 feet above msl. Highest water level 7.64 above msl, Oct. 12, 1947; lowest 0.82 below msl, Feb. 18, 1950. Records available: 1940-51. Affected by pumping of nearby wells.

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.21	-0.08	+0.79	+0.64	+0.42	-0.30	+0.48	+0.91	+0.67	+0.55	+0.90	+0.22
2	.50	.16	.75	.72	.56	.33	.48	.67	.88	1.16	.76	.34
3	.31	.09	.77	.69	.54	.29	.45	.48	.60	.50	.85	.41
4	.45	-.04	.71	.35	.36	.26	.57	.57	.54	1.55	1.05	.44
5	.18	+ .39	.73	.32	.24	.38	.60	.70	.42	1.69	.76	.63
6	.13	.64	.70	.37	.13	-.20	.43	.70	.44	1.58	.72	.50
7	.13	.87	.66	.31	+.07	+.02	.29	.55	.22	1.60	.93	.45
8	.25	.61	.66	.37	-.03	.14	.67	.40	.17	1.31	.69	.39
9	.37	.73	.69	.57	.09	.13	.82	.28	.26	1.20	.57	.36
10	.22	.87	.64	.66	.14	.07	.82	.22	.41	1.35	.56	.34
11	.17	1.00	.64	.92	.18	+.02	.90	.22	.45	1.27	.56	.29
12	.22	.82	.67	.79	.22	-.05	.90	.31	.42	1.08	.56	.27
13	.22	.69	.73	.80	-.23	.17	1.02	.31	.43	1.01	.53	.20
14	.30	.64	.82	.73	+.03	.22	1.09	.42	.59	1.01	.52	.14
15	.22	.61	.77	.80	+.13	-.26	1.10	.50	.65	1.21	.49	.20
16	.22	.56	.91	.81	-.09	+.04	1.00	.65	.66	1.35	.45	.22
17	.25	.48	.85	.83	.11	.28	.94	.54	.60	1.53	.45	.22
18	.35	.41	.96	.81	.12	.45	.87	.32	.38	1.60	.74	....
19	.25	.41	.70	.92	.10	.60	.81	.27	.19	1.46	.52	....
20	.26	.61	.59	.90	-.02	.76	.76	.20	+.10	1.43	.41	....
21	.38	.56	.53	.81	.00	.74	.71	.13	-.04	1.43	.42	.09
22	.34	.53	.61	.75	-.14	.74	.71	.10	.04	1.66	.41	+.02
23	.33	.79	.79	.66	.21	.72	.77	.10	.06	1.34	.53	-.02
24	....	.75	.75	.64	.23	.72	.75	.34	.03	1.18	.44	-.03
25	....	.78	.70	.66	.34	.84	.97	.24	.07	1.13	.36	+.02

G3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+0.76	+0.80	+0.43	+0.62	-0.45	+0.96	+1.36	+0.17	-0.08	+1.34	+0.30	+0.05
27	.52	.79	.37	.65	.44	.74	1.21	.18	-.15	1.09	.22	-.01
28	.57	.88	.33	.64	.35	.89	1.20	.19	+.27	1.24	.26	.00
29	.29		.29	.52	.38	.60	1.19	.10	.30	.96	.26	-.00
30	+.07		.29	.44	.35	.50	1.16	.67	.38	.95	.22	+.16
31 *	-.06		.53		.27		.95	.67		.98		.20

G10. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 54 S., R. 40 E. Dug and driven observation water-table well in oolitic limestone of Biscayne aquifer, diameter 8 inches, depth 6 feet, cased to 6 feet. Land-surface datum is 5.64 feet above msl. Highest water level 8.92 above msl, Oct. 13, 1947; lowest 0.53 above msl, June 20, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.64	3.25	3.13	2.74	2.88	2.16	2.66	2.98	3.55	5.14	3.84	3.16
2	3.55	3.40	3.10	2.72	2.78	2.14	2.63	3.05	3.39	5.04	3.80	3.15
3	3.49	4.08	3.09	2.69	2.76	2.10	2.59	3.26	3.25	4.85	3.96	3.14
4	3.47	3.72	3.08	2.68	2.74	2.07	2.60	3.26	3.16	4.67	3.77	4.09
5	3.48	3.69	3.06	2.65	2.70	2.05	2.60	2.96	3.06	4.52	3.72	3.68
6	3.48	3.58	3.06	2.63	2.66	2.11	2.75	2.86	2.96	4.38	3.68	3.50
7	3.50	3.47	3.05	2.65	2.63	2.16	2.73	2.78	2.87	4.25	3.64	3.39
8	3.44	3.36	3.04	3.13	2.58	2.20	4.78	2.72	2.82	4.17	3.57	3.29
9	3.41	3.33	3.04	3.08	2.55	2.21	3.60	2.68	2.90	4.13	3.52	3.22
10	3.40	3.29	3.03	4.26	2.49	2.17	3.32	2.78	2.92	4.33	3.49	3.18
11	3.44	3.26	3.02	3.84	2.47	2.14	3.18	2.84	2.95	4.06	3.48	3.13
12	3.45	3.22	3.01	3.60	2.43	2.08	3.47	2.86	3.20	4.03	3.45	3.08
13	3.44	3.20	3.08	3.48	2.66	2.04	3.24	2.73	3.13	4.09	3.43	3.04
14	3.42	3.20	3.04	3.36	2.61	2.01	3.17	2.89	3.06	4.13	3.41	3.03
15	3.44	3.20	3.04	3.28	2.55	2.32	3.04	2.86	3.05	4.04	3.39	3.06
16	3.38	3.22	3.06	3.25	2.49	2.35	2.94	2.69	3.09	4.75	3.34	3.13
17	3.38	3.20	3.05	3.21	2.46	2.38	3.01	2.66	3.02	4.51	3.32	3.21
18	3.36	3.18	3.02	3.15	2.48	2.46	2.96	2.66	2.96	4.41	3.26	3.27
19	3.34	3.17	3.00	3.12	2.45	2.50	2.90	2.69	2.91	4.30	3.22	3.30
20	3.32	3.16	2.98	3.12	2.42	2.56	2.86	2.63	2.87	4.23	3.20	3.29
21	3.32	3.15	2.97	3.13	2.39	2.59	2.84	2.62	2.90	4.18	3.10	3.29
22	3.31	3.16	2.93	3.06	2.36	2.58	2.80	2.62	2.90	4.17	3.18	3.28
23	3.30	3.16	2.91	3.01	2.31	2.56	2.78	2.74	2.88	4.12	3.10	3.30
24	3.29	3.18	2.90	2.96	2.27	2.56	2.91	2.88	2.86	4.11	3.17	3.31
25	3.28	3.17	2.87	2.91	2.24	2.53	3.13	2.91	2.92	4.14	3.15	3.34
26	3.28	3.17	2.85	2.89	2.20	2.57	3.20	2.94	2.95	4.05	3.12	3.30
27	3.34	3.16	2.83	2.86	2.38	2.69	3.14	3.03	3.00	4.11	3.10	3.34
28	3.33	3.14	2.81	2.83	2.39	2.67	3.03	3.02	3.20	4.03	3.10	3.33
29	3.32		2.78	2.93	2.32	2.66	2.96	4.78	3.33	4.00	3.22	3.33
30	3.30		2.79	2.82	2.25	2.62	3.32	4.34	4.30	3.95	3.18	3.33
31	3.26		2.75		2.20		3.00	3.79		3.89		3.32

G39. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 54 S., R. 40 E. Dug observation water-table well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 6 feet, cased to 6 feet. Land-surface datum is 8.08 feet above msl. Highest water level 8.99 above msl, Sept. 21, 1940; lowest 1.73 above msl, Apr. 12, 1945. Records available: 1940-43, 1945, 1947, 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.84	3.43	3.36	2.96	3.76	2.80	....	3.30	3.52	4.03	4.28	3.61
2	3.84	3.43	3.32	2.96	3.71	2.78	....	3.29	3.56	4.44	4.24	3.60
3	3.85	3.53	3.31	2.94	3.66	2.76	....	3.34	3.56	4.58	4.23	3.59
4	3.85	3.57	3.29	2.92	3.63	2.72	....	3.34	3.56	4.63	4.21	3.58
5	3.85	3.62	3.27	2.91	3.57	2.69	....	3.34	3.54	4.63	4.18	3.58
6	3.85	3.65	3.27	2.89	3.52	2.65	....	3.34	3.53	4.62	4.15	3.60
7	3.84	3.66	3.24	2.88	3.47	2.63	....	3.32	3.49	4.59	4.11	3.61
8	3.82	3.67	3.22	3.35	3.41	2.61	....	3.38	3.46	4.55	4.08	3.62
9	3.80	3.67	3.21	3.45	3.34	2.59	2.67	3.38	3.45	4.52	4.06	3.61
10	3.79	3.67	3.20	4.54	3.28	2.57	2.72	3.38	3.44	4.57	4.03	3.60
11	3.78	3.68	3.18	4.72	3.24	2.55	....	3.37	3.42	4.53	4.01	3.60
12	3.75	3.68	3.16	4.76	3.18	2.52	....	3.35	3.42	4.51	3.98	3.58
13	3.74	3.67	3.16	4.76	3.14	....	2.92	3.34	3.42	4.48	3.95	3.56
14	3.74	3.66	3.17	4.70	3.16	....	2.98	3.35	3.41	4.46	3.92	3.54
15	3.74	3.63	3.17	4.62	3.15	....	3.03	3.34	3.41	4.43	3.90	3.54

G39--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	3.71	3.62	3.18	4.54	3.13	....	3.07	3.33	3.44	4.45	3.86	e3.53
17	3.70	3.62	3.18	4.46	3.11	....	3.13	3.30	3.42	4.53	3.85	e3.53
18	3.70	3.59	3.17	4.39	3.12	....	3.16	3.29	3.40	4.60	3.82	e3.52
19	3.69	3.57	3.16	e4.31	3.11	....	3.19	3.27	3.38	4.61	3.81	e3.52
20	3.67	3.55	3.15	4.36	3.10	....	3.20	3.25	3.37	e4.58	3.78	e3.51
21	3.65	3.53	3.14	4.32	3.08	....	3.20	3.23	3.36	e4.56	3.76	h3.51
22	3.62	3.50	3.10	4.27	3.05	....	3.19	3.21	3.35	e4.53	3.74	e3.51
23	3.60	3.48	3.08	4.21	3.03	....	3.17	3.20	3.32	e4.51	3.73	e3.51
24	3.58	3.46	3.08	4.16	3.00	....	3.17	3.24	e3.30	e4.48	....	e3.51
25	3.56	3.43	3.05	4.09	2.95	....	3.20	....	e3.28	4.46	....	e3.50
26	3.53	3.41	3.02	4.04	2.93	....	3.22	....	3.26	4.41	....	e3.50
27	3.52	3.39	3.00	3.99	2.91	....	3.23	3.27	3.25	4.38	3.66	e3.50
28	3.50	3.37	2.98	3.93	2.90	....	3.24	3.28	3.27	4.39	3.65	3.49
29	3.49	....	2.96	3.87	2.87	....	3.27	3.32	3.28	4.35	3.64	3.49
30	3.47	....	2.98	3.81	2.86	....	3.29	3.39	3.32	4.32	3.62	3.48
31	3.45	....	2.97	....	2.82	....	3.30	3.46	....	4.30	....	3.47

e Estimated.

h Tape measurement.

G72: U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 52 S., R. 39 E. Dug observation water-table well in oolitic limestone of Biscayne aquifer, diameter 8 inches, depth 5 feet, cased to 4 feet. Land-surface datum is 5.75 feet above msl. Highest water level 9.38 above msl, Oct. 11, 1947; lowest 1.14 above msl, June 5, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.53	4.82	4.46	3.31	2.92	2.49	3.14	5.65	5.64	e6.81	6.17	6.17
2	5.51	4.80	4.42	3.24	2.87	2.44	3.19	5.58	5.63	e6.69	6.17	6.16
3	5.50	5.17	4.38	3.20	2.82	2.39	3.14	5.57	5.62	e6.56	6.17	6.15
4	5.48	5.15	4.34	3.16	2.76	2.33	3.05	5.52	5.62	e6.43	6.17	6.14
5	5.46	5.15	4.28	3.12	2.70	2.28	3.00	5.50	5.61	e6.31	6.16	6.15
6	5.43	5.14	4.24	3.09	2.66	2.55	2.96	5.68	5.60	e6.18	6.16	6.15
7	5.41	5.12	4.20	3.22	2.58	2.58	2.97	5.67	5.59	e6.06	6.16	6.14
8	5.40	5.10	4.15	3.22	2.53	2.60	3.02	5.61	5.58	6.01	6.15	6.14
9	e5.36	5.08	4.10	3.23	2.50	2.53	3.19	5.57	e5.60	6.18	6.15	6.13
10	e5.34	5.07	4.06	4.22	2.49	2.51	3.84	5.60	5.60	6.16	6.15	6.13
11	e5.32	5.04	4.01	4.16	2.48	2.46	3.97	5.57	5.62	6.15	6.15	6.12
12	e5.30	5.01	3.94	4.06	2.52	2.37	4.04	5.55	5.62	6.13	6.15	6.12
13	e5.28	e5.00	4.07	3.99	2.55	2.32	4.05	5.74	5.62	6.12	6.15	6.11
14	e5.26	e4.96	3.99	3.90	2.61	2.28	4.17	5.65	5.61	6.12	6.15	6.10
15	5.25	e4.94	3.94	3.82	2.64	3.50	4.23	5.63	5.62	6.13	6.16	6.10
16	5.22	4.90	3.90	3.73	2.59	3.62	4.11	5.60	5.62	6.14	6.17	6.09
17	5.20	4.87	3.87	3.67	2.55	3.63	4.45	5.57	5.63	6.14	6.18	6.08
18	5.19	4.85	3.81	3.63	2.49	3.54	4.74	5.56	5.63	6.14	6.18	6.07
19	5.15	4.82	3.76	3.60	2.42	3.52	4.69	5.54	5.64	6.14	6.18	6.06
20	5.14	e4.77	3.72	3.55	2.38	3.54	4.69	5.53	5.64	6.14	6.18	6.06
21	5.11	e4.73	3.70	3.51	2.31	3.50	4.83	5.52	5.65	6.14	6.17	6.05
22	5.08	e4.70	3.65	3.47	2.29	3.46	4.90	5.51	5.65	6.15	6.17	6.05
23	5.05	e4.66	3.61	3.38	2.34	3.47	4.78	5.61	5.66	6.15	6.18	6.04
24	5.04	e4.63	3.57	3.31	2.38	3.42	4.81	5.60	5.66	6.15	6.18	6.03
25	5.02	e4.60	3.52	3.25	2.36	3.34	4.91	5.58	5.68	6.15	6.18	6.02
26	5.01	4.57	3.45	3.21	2.33	3.24	4.91	5.57	5.68	6.18	6.15	6.02
27	4.93	4.53	3.41	3.14	2.50	3.76	4.92	5.55	5.68	6.17	6.15	6.01
28	4.89	4.50	3.38	3.08	2.60	3.40	4.85	5.55	5.74	6.17	6.15	6.00
29	4.82	....	3.34	3.04	2.64	3.27	4.82	5.62	5.88	6.17	6.18	5.99
30	4.79	....	3.39	2.97	2.58	3.18	5.22	5.60	....	6.17	6.17	5.98
31	4.74	....	3.34	....	2.55	....	5.35	5.58	....	6.17	....	5.97

e Estimated.

G218. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 53 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 71 feet, cased to 70 feet. Land-surface datum is 5.25 feet above msl. Highest water level 8.95 above msl, Oct. 12, 1947; lowest 1.20 above msl, May 19, 1945. Records available: 1945-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.45	4.72	4.08	3.34	3.24	2.27	3.99	5.20	5.36	....	5.60	5.55
2	5.46	5.00	4.04	3.30	3.17	2.23	3.82	5.27	5.30	....	5.60	5.55
3	5.46	5.12	4.02	3.26	3.12	2.20	3.70	5.27	5.27	....	5.60	5.55
4	5.45	5.20	3.98	3.23	3.05	2.18	3.60	5.27	5.74	....	5.59	5.55
5	5.44	5.20	3.95	3.18	3.02	2.16	3.56	5.23	5.20	....	5.59	5.55

G218--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	5.41	5.22	3.92	3.16	2.96	2.39	3.52	5.18	5.14	....	5.59	5.55
7	5.40	5.22	3.90	3.25	2.92	2.56	3.43	5.12	5.08	....	5.59	5.55
8	5.37	5.21	3.87	3.49	2.87	2.63	3.40	5.08	5.01	....	5.58	5.57
9	5.35	5.17	3.84	3.54	2.85	2.65	3.64	5.19	4.99	....	5.57	5.58
10	5.32	5.12	3.81	4.35	2.80	2.59	3.80	5.26	5.13	....	5.57	5.58
11	5.30	5.08	3.77	4.38	2.74	2.51	4.45	5.26	5.33	....	5.56	5.59
12	5.27	5.02	3.75	4.33	2.70	2.45	4.45	5.24	5.33	....	5.56	5.58
13	5.25	4.95	3.95	4.27	2.69	2.37	4.43	5.20	5.31	....	5.56	5.58
14	5.22	4.90	3.92	4.16	2.64	2.31	4.63	5.17	5.24	5.60	5.56	5.58
15	5.20	4.82	3.85	4.07	2.62	2.25	4.58	5.15	5.19	5.59	5.55	5.58
16	5.18	4.75	3.80	3.99	2.60	3.90	4.35	5.08	5.15	5.62	5.55	5.56
17	5.14	4.67	3.75	3.93	2.59	3.70	4.64	5.00	5.11	5.62	5.56	5.56
18	5.12	4.62	3.72	3.89	2.65	4.17	4.61	4.91	5.06	5.62	5.56	5.56
19	5.08	4.55	3.70	3.85	2.61	3.96	4.53	4.80	5.01	5.62	5.56	5.56
20	5.04	4.48	3.65	3.80	2.57	4.20	4.55	4.70	4.95	5.62	5.55	5.57
21	5.00	4.42	3.64	3.74	2.53	4.15	4.47	4.61	4.87	5.62	5.54	5.57
22	4.97	4.37	3.61	3.69	2.50	4.14	4.43	4.53	4.87	5.61	5.53	5.57
23	4.92	4.32	3.57	3.60	2.46	4.14	4.40	4.50	4.83	5.61	5.53	5.55
24	4.89	4.26	3.52	3.55	2.43	4.14	4.40	4.91	4.83	5.61	5.53	5.55
25	4.85	4.20	3.50	3.50	2.39	4.14	e4.49	4.93	4.83	5.61	5.52	5.55
26	4.80	4.15	3.48	3.45	2.35	4.14	e4.63	4.93	e4.82	5.61	5.52	5.55
27	4.75	4.14	3.44	3.40	2.32	4.14	4.67	4.93	e4.90	5.61	5.52	5.55
28	4.70	4.12	3.40	3.35	2.43	4.09	4.57	4.95	e5.00	5.61	5.52	5.55
29	4.62		3.37	3.36	2.41	4.00	4.52	5.32	e5.10	5.60	5.53	5.55
30	4.58		3.35	3.30	2.35	3.95	5.10	5.37	e5.20	5.60	5.54	5.54
31	4.54		3.36		2.30		5.10	5.37		5.60		5.54

e Estimated.

G350. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 54 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 15 feet, cased to 10 feet. Land-surface datum is 7.48 feet above msl. Highest water level 8.85 above msl, Oct. 14, 1947; lowest 0.61 above msl, June 27, 1945. Records available: 1944-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.07	2.93	2.88	2.63	e2.80	2.27	2.59	2.64	2.52	3.35	2.72	2.58
2	3.05	2.93	2.89	2.62	e2.79	2.24	2.61	2.63	2.38	3.69	2.87	2.60
3	3.01	3.12	2.89	2.62	e2.78	2.21	....	2.68	....	3.40	2.62	2.58
4	2.99	3.10	2.88	2.59	2.78	2.18	....	2.75	....	3.27	2.60	2.90
5	3.06	3.09	2.87	2.57	2.76	2.16	....	2.32	....	3.14	2.59	3.11
6	3.06	3.08	2.86	2.52	2.59	2.15	2.66	2.55	....	3.04	2.61	2.85
7	3.07	3.04	2.84	2.52	2.58	2.17	2.67	2.56	1.99	2.94	2.57	2.78
8	3.06	3.00	2.83	2.83	2.56	2.19	2.85	2.54	1.93	2.88	2.52	2.70
9	3.03	2.96	2.83	2.95	2.55	2.19	2.98	2.53	1.94	2.82	2.51	2.66
10	3.04	2.93	2.81	3.53	2.53	2.19	3.01	2.40	1.94	2.91	2.52	2.61
11	3.09	2.90	2.78	3.13	2.51	2.16	3.02	2.48	1.96	2.86	2.53	2.54
12	3.10	2.86	2.78	2.93	2.48	2.13	3.03	2.48	2.04	2.81	2.52	2.51
13	3.09	e2.85	2.82	2.77	2.62	2.11	3.00	2.47	2.10	2.89	2.53	2.47
14	3.05	....	2.72	2.92	2.65	2.07	2.97	2.45	2.10	2.93	2.50	2.44
15	3.06	....	2.77	2.98	2.59	2.07	3.00	2.46	2.09	2.93	2.61	2.51
16	3.03	2.91	2.82	3.03	2.59	2.19	2.97	2.44	2.10	3.03	2.60	2.68
17	3.01	2.90	2.83	3.04	2.59	2.26	2.99	2.42	2.10	3.27	2.58	2.80
18	2.99	2.89	2.83	3.08	2.57	2.36	e2.91	2.41	2.07	3.16	2.53	2.88
19	2.97	2.88	2.82	2.94	2.55	....	e2.86	2.43	2.03	3.07	2.51	e2.89
20	2.96	2.87	2.81	2.96	2.52	....	2.83	2.43	2.01	3.04	2.52	e2.89
21	2.95	2.87	2.81	2.98	2.48	....	2.80	2.42	2.12	2.99	2.52	2.89
22	2.94	2.91	2.79	2.96	2.45	2.56	2.75	2.41	2.16	2.94	2.54	....
23	2.94	2.91	2.79	2.91	2.43	2.55	2.74	2.39	2.20	2.93	2.57	....
24	2.94	2.91	2.77	2.87	2.39	2.54	2.75	2.25	2.24	2.95	2.57	....
25	2.93	2.91	2.75	2.82	2.36	2.51	2.84	2.29	2.32	2.91	2.54	....
26	2.94	2.91	2.73	2.82	2.32	2.50	2.91	2.27	2.38	2.88	2.50	....
27	2.99	2.90	2.70	h2.84	2.31	2.54	2.87	2.26	2.43	2.94	2.48	....
28	3.00	2.89	2.67	e2.83	2.39	2.58	2.84	2.40	2.47	2.99	2.50	2.94
29	3.01		2.64	e2.82	2.39	2.58	2.80	2.75	2.53	2.96	2.53	2.96
30	3.00		2.65	e2.81	2.36	2.57	2.75	2.96	2.71	2.87	2.54	2.96
31	2.97		2.65		2.30		2.69	2.68		2.78		2.94

e Estimated.

h Tape measurement.

G476. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 55 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 24 feet, cased to 19 feet. Land-surface datum is 12.15 feet above msl. It was incorrectly reported as 14.15 in 1947. Highest water level 6.55 above msl, Sept. 24, 1948; lowest 0.18 above msl, June 29, 1950. Records available: 1947-51. Affected by tides in Biscayne Bay.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.43	0.96	1.19	1.08	1.21	1.21	0.91	1.00	1.61	2.01	2.06	1.92
2	1.46	.83	1.07	1.10	1.17	1.22	.96	1.00	1.63	2.08	2.00	1.85
3	1.46	.92	1.06	1.09	1.12	1.09	1.03	1.07	1.49	2.16	1.97	1.85
4	1.32	1.17	1.06	1.04	1.03	1.01	1.05	1.08	1.40	2.15	1.84	1.78
5	1.23	1.52	1.05	1.10	.90	.91	1.00	1.10	1.32	2.11	2.00	1.67
6	1.20	1.68	1.07	1.17	.90	.79	.93	1.12	1.28	2.00	2.09	1.57
7	1.20	1.59	1.08	1.39	.85	.93	.92	1.24	1.16	1.89	1.99	1.54
8	1.07	1.36	1.02	1.33	.90	.94	.98	1.33	1.15	1.81	1.83	1.40
9	1.06	1.36	1.08	1.26	.92	.91	1.01	1.36	1.21	1.80	1.80	1.32
10	1.21	1.33	1.16	1.46	.95	.85	1.05	1.35	1.27	1.90	1.94	1.20
11	1.25	1.19	1.20	1.44	.94	.96	1.13	1.28	1.33	1.94	1.98	1.14
12	1.23	1.17	1.10	1.42	.95	1.00	1.21	1.27	1.44	2.17	1.94	1.13
13	1.10	1.14	1.03	1.32	.89	1.01	1.26	1.29	1.46	2.29	1.95	1.10
14	1.08	1.08	1.03	1.28	1.16	.93	1.20	1.34	1.52	2.34	1.88	1.19
15	1.05	1.00	1.00	1.23	1.28	.88	1.22	1.38	1.55	2.35	1.80	1.14
16	.87	.98	.90	1.29	1.25	1.07	1.25	1.33	1.58	2.44	1.70	1.04
17	.96	.98	1.04	1.32	1.31	1.09	1.25	1.35	1.54	2.50	1.60	1.36
18	1.04	1.02	1.07	1.44	1.38	1.10	1.27	1.52	1.46	2.51	1.38	1.40
19	1.01	1.02	.96	1.51	1.51	1.14	1.20	1.58	1.40	2.46	1.37	1.33
20	.96	1.10	.84	1.45	1.54	1.18	1.24	1.56	1.43	2.49	1.55	1.35
21	.97	1.08	.86	1.39	1.58	1.32	1.24	1.53	1.40	2.43	1.68	1.29
22	1.05	1.20	.85	1.40	1.52	1.40	1.20	1.55	1.45	2.34	1.84	....
23	1.11	1.26	.96	1.37	1.38	1.46	1.17	1.50	1.40	2.26	1.83	....
24	1.15	1.28	.98	1.26	1.35	1.35	1.18	1.40	1.36	2.23	1.78	....
25	1.11	1.33	1.09	1.30	1.28	1.28	1.25	1.31	1.45	2.18	1.62	1.17
26	1.05	1.39	1.10	1.23	1.33	1.32	1.32	1.29	1.53	2.16	1.51	....
27	1.20	1.36	1.21	1.13	1.24	1.24	1.33	1.37	1.61	2.22	1.53	1.18
28	1.25	1.28	1.27	1.14	1.27	1.13	1.26	1.42	1.66	2.28	1.56	1.47
29	1.19		1.19	1.16	1.28	1.05	1.17	1.40	1.72	2.24	1.60	1.54
30	1.07		.94	1.21	1.24	.95	1.08	1.42	1.77	2.17	1.82	1.52
31	.94		.94		1.25		1.01	1.50		2.13		1.47

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.10	0.50	0.86	0.63	0.88	0.81	0.53	0.69	1.28	1.46	1.69	1.47
2	1.24	.36	.70	.75	e. 78	.83	.60	.66	1.20	1.63	1.61	1.51
3	1.15	.47	.67	.70	e. 72	.69	.60	.71	1.08	1.63	1.54	1.45
4	1.02	.55	.70	.62	e. 62	.54	.70	.73	1.03	1.77	1.48	1.39
5	.84	.83	.67	.66	e. 54	.42	.61	.76	.95	1.76	1.61	1.28
6	.82	1.21	.68	.88	e. 49	.38	.50	.79	.93	1.64	1.68	1.24
7	.77	1.11	.64	1.00	e. 55	.60	.52	.85	.90	1.56	1.55	1.14
8	.70	.98	.62	.89	e. 54	.59	.65	.96	.75	1.48	1.48	1.06
9	.46	1.01	.67	.91	e. 54	.50	.72	1.02	.91	1.49	1.43	1.00
10	.65	.90	.74	1.18	e. 65	.54	.72	1.00	.94	1.55	1.58	.86
11	.84	.86	.81	1.11	.65	.63	.83	.85	1.00	1.60	1.60	.78
12	.79	.87	.63	1.03	.60	.71	.87	.91	1.09	1.61	1.58	.74
13	.72	.83	.64	1.06	.62	.60	.93	.92	1.13	1.84	1.59	.73
14	.77	.78	.64	.97	.74	.54	.83	.96	1.13	1.89	1.56	.79
15	.64	.74	.72	.98	1.06	.41	.84	.96	1.17	1.92	1.47	.77
16	.57	.70	.66	.99	.92	.67	.80	.84	1.10	1.92	1.37	.58
17	.54	.70	.66	1.03	.88	.63	.82	.97	1.18	2.09	1.18	.94
18	.75	.70	.83	1.10	.97	.64	.82	1.12	1.13	2.12	1.03	1.06
19	.69	.70	.67	1.13	1.06	.70	.78	1.21	.99	2.07	1.05	1.01
20	.68	.74	.53	1.04	1.11	.70	.80	1.20	1.12	2.17	1.20	1.04
21	.64	.70	.48	.97	1.14	.88	.82	1.17	1.15	2.14	1.44	....
22	.60	.66	.42	.96	1.02	1.04	.80	1.23	1.15	2.05	1.62	....
23	.71	.87	.51	.85	.87	1.02	.82	1.16	1.14	2.00	1.60	....
24	.74	.94	.63	.84	.90	.97	.84	1.23	1.08	2.00	1.42	....
25	.73	.96	.69	.87	.93	.89	.92	1.02	1.17	1.92	1.34	....
26	.64	1.02	.69	.83	.90	1.00	1.05	1.00	1.23	1.90	1.18	....
27	.82	.93	.86	e. 78	.90	.86	1.04	1.06	1.33	1.90	1.08	....
28	.88	.90	.86	e. 78	.92	.74	.87	1.14	1.35	1.91	1.13	1.04
29	.75		.84	.84	.94	.65	.85	1.08	1.36	1.84	1.15	1.06
30	.58		.55	.86	.88	.58	.74	1.06	1.38	1.79	1.21	1.10
31	.58		.56		.89		.66	1.25		1.66		1.00

e Estimated.

G490. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 53 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 23 feet, cased to 20 feet. Land-surface datum is 5.40 feet above msl. Highest water level 6.27 above msl, Oct. 12, 1947; lowest 0.29 above msl, Mar. 15, 1950. Records available: 1947-51. Water level affected by tides in Miami Canal.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.21	....	1.45	1.21	1.19	0.97	1.16	1.16	1.52	2.50	1.88	1.58
2	1.23	0.68	1.37	1.26	1.15	.98	1.18	1.15	1.62	3.02	1.83	1.63
3	1.23	.98	1.38	1.26	1.13	.90	1.20	1.33	1.47	....	1.84	1.61
4	1.16	1.28	1.38	1.21	1.10	.86	1.19	1.34	1.39	....	1.69	1.68
5	1.07	1.46	1.39	1.19	1.04	.85	1.13	1.28	1.29	....	1.70	1.60
6	1.03	1.57	1.38	1.24	.98	.96	1.09	1.25	1.21	2.12	1.77	1.52
7	1.05	1.57	1.37	1.41	.92	.96	1.15	1.30	1.18	1.97	1.78	1.46
8	.94	1.45	1.35	1.52	.92	.94	1.94	1.35	1.08	1.86	1.64	1.34
9	.93	1.47	1.38	1.48	.89	.91	1.84	1.36	1.08	1.91	1.64	1.26
10	1.05	1.46	1.38	2.03	.90	.89	1.91	1.33	1.24	1.95	1.68	1.18
11	1.16	1.37	1.38	1.84	.93	.94	1.83	1.26	1.29	1.94	1.72	1.15
12	1.16	1.34	1.35	1.69	.93	.95	1.65	1.21	1.33	2.00	1.73	1.14
13	1.08	1.33	1.44	1.55	.94	.97	1.63	1.24	1.40	2.16	1.72	1.09
14	1.06	1.28	1.45	1.54	.93	.89	1.58	1.30	1.42	2.17	1.69	1.13
15	1.05	1.16	1.42	1.48	.93	1.16	1.58	1.34	1.44	2.19	1.62	1.07
16	.97	1.14	1.33	1.54	.94	1.22	1.55	1.28	1.47	2.48	1.55	.97
17	1.08	1.15	1.35	1.57	1.09	1.22	1.56	1.27	1.45	2.48	1.48	1.05
18	1.16	1.16	1.36	1.59	1.13	1.30	1.51	1.31	1.44	2.48	1.33	1.14
19	1.17	1.19	1.31	1.61	1.18	1.30	1.47	1.35	1.32	2.38	1.28	1.12
20	1.13	1.28	1.24	1.58	1.18	1.37	1.42	1.33	1.25	2.42	1.40	1.13
21	1.13	1.32	1.23	1.53	1.20	1.44	1.38	1.32	1.23	2.38	1.45	1.13
22	1.16	1.35	1.19	1.48	1.15	1.47	1.33	1.30	1.22	2.27	1.54	.97
23	1.24	1.39	1.22	1.45	1.08	1.49	1.30	1.28	1.22	2.15	1.58	.94
24	1.29	1.43	1.29	1.37	1.07	1.42	1.29	1.29	1.17	2.07	1.56	.89
25	1.31	1.45	1.30	1.35	1.02	1.38	1.44	1.25	1.23	2.04	1.46	.95
26	1.18	1.54	1.29	1.29	1.03	1.39	1.46	1.19	1.29	1.93	1.38	.92
27	1.10	1.52	1.29	1.24	1.07	1.37	1.47	1.24	1.32	1.99	1.39	.97
28	1.10	1.52	1.31	1.19	1.10	1.30	1.44	1.27	1.45	2.05	1.42	1.18
29	1.05		1.28	1.18	1.13	1.24	1.40	1.29	1.44	2.03	1.42	1.30
30	.95		1.17	1.20	1.10	1.08	1.36	1.37	1.51	1.96	1.45	1.31
31	.85		1.08		1.09		1.22	1.44		1.93		1.29

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.98	....	1.20	0.92	0.98	0.83	1.02	0.82	1.31	1.27	1.58	1.24
2	.98	0.50	1.15	1.04	.94	.79	1.03	.80	1.25	2.50	1.52	1.33
3	.93	.48	1.14	1.06	.92	.73	1.05	1.09	1.16	....	1.46	1.34
4	.81	.91	1.15	1.01	.89	.68	1.03	1.05	1.10	....	1.40	1.34
5	.84	1.10	1.16	.98	.82	.64	.96	1.01	1.01	1.91	1.41	1.30
6	.75	1.23	1.16	1.07	.77	.72	.93	1.00	.95	1.75	1.52	1.25
7	.73	1.26	1.14	1.20	.73	.82	.95	1.02	.90	1.64	1.43	1.18
8	.68	1.15	1.13	1.28	.71	.79	1.04	1.06	.82	1.58	1.33	1.10
9	.60	1.24	1.15	1.24	.69	.74	1.65	1.08	.83	1.56	1.33	1.04
10	.79	1.19	1.13	1.47	.73	.75	1.74	1.04	.87	1.67	1.38	.97
11	.94	1.09	1.16	1.49	.77	.82	1.55	.96	1.04	1.62	1.44	.91
12	.93	1.15	1.16	e1.57	.77	.84	1.50	.94	1.07	1.62	1.42	.92
13	.87	1.11	1.23	1.40	.77	.77	1.44	.95	1.10	1.74	1.46	.87
14	.89	1.04	1.27	1.36	.78	.72	1.37	1.03	1.14	1.81	1.43	.96
15	.85	1.01	1.21	1.36	.80	.68	1.37	1.04	1.15	1.85	1.37	.87
16	.82	1.00	1.18	1.37	.79	1.06	1.33	.99	1.16	1.84	1.31	.74
17	.82	.97	1.20	1.40	.86	1.03	1.32	.99	1.16	2.15	1.22	.81
18	.99	.97	1.18	1.40	.92	1.03	1.26	1.03	1.13	2.10	1.06	.94
19	1.02	.96	1.13	1.40	.96	1.10	1.24	1.08	1.02	2.07	1.06	.93
20	.99	1.03	1.06	1.33	.97	1.18	1.20	1.08	1.02	2.15	1.18	.96
21	.96	1.09	1.04	1.27	.97	1.25	1.17	1.07	1.00	2.12	1.28	.85
22	.96	1.09	.98	1.24	.91	1.31	1.12	1.08	1.02	2.00	1.35	.74
23	1.00	1.17	.99	1.17	.86	1.28	1.11	1.05	1.01	1.88	1.41	.72
24	1.07	1.19	1.05	1.10	.87	1.25	1.12	1.10	.98	1.86	1.36	.67
25	1.13	1.21	1.08	1.09	.84	1.21	1.17	1.02	1.02	1.74	1.25	.65
26	.92	1.31	1.03	1.03	.86	1.25	1.29	1.09	1.09	1.70	1.15	.68
27	.85	1.27	1.07	.99	.85	1.18	1.30	1.04	1.10	1.71	1.08	.66
28	.84	1.28	1.08	.98	.95	1.14	1.27	1.07	1.15	1.71	1.11	.72
29	.75		1.02	.99	.99	1.08	1.23	1.04	1.18	1.73	1.12	.93
30	.62		.93	1.01	.95	1.02	1.09	1.08	1.22	1.65	1.13	1.03
31	....		.91		.91		.99	1.24		1.57		1.01

e Estimated.

G518. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 56 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 75 feet, cased to 73 feet. Land-surface datum is 5.65 feet above msl. Highest water level 4.69 above msl, Oct. 14, 1950; lowest 0.43 above msl, July 2, 1950. Records available: 1947-51. Water level affected by tides in Goulds Canal.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.26	1.20	1.22	0.88	1.11	1.02	1.34	1.67	1.95	3.22	2.08	1.76
2	2.06	1.20	1.19	.87	1.07	.98	1.43	1.64	1.88	3.22	1.98	1.76
3	2.06	1.80	1.16	.80	1.05	.93	1.38	2.11	1.82	2.74	2.00	1.75
4	2.00	1.66	1.15	.73	1.03	.87	1.41	2.05	1.92	2.57	1.99	1.74
5	1.89	2.34	1.14	.71	.97	.81	1.36	2.03	1.89	2.42	2.02	1.73
6	1.87	2.17	1.12	.74	.93	1.10	1.51	1.91	1.81	2.31	2.06	1.70
7	1.90	2.07	1.13	.84	.90	1.26	1.46	1.93	1.72	2.22	2.05	1.66
8	1.89	1.79	1.10	1.20	.90	1.25	2.87	1.98	1.70	2.18	2.00	1.44
9	1.81	1.62	1.09	1.38	.89	1.15	2.20	2.03	2.62	2.20	1.98	1.33
10	1.73	1.59	1.10	3.58	.90	1.01	4.24	2.03	2.35	....	2.03	1.29
11	1.74	1.51	1.09	2.63	.90	.89	3.45	2.01	2.24	....	2.04	1.33
12	1.70	1.46	1.04	1.93	.87	.79	2.70	2.00	2.11	2.40	2.04	1.36
13	1.67	1.42	1.04	1.62	.94	.72	2.02	2.15	2.07	2.47	2.04	1.34
14	1.64	1.36	1.06	1.52	1.38	.66	2.39	2.14	2.04	2.50	2.02	1.36
15	1.63	1.30	1.02	1.40	1.44	.63	2.30	2.09	1.95	2.50	1.82	1.34
16	1.64	1.27	.97	1.34	1.38	.88	2.06	2.03	2.14	3.66	1.73	1.30
17	1.60	1.24	.98	1.30	1.86	1.20	2.25	1.95	2.15	3.54	1.64	1.47
18	1.61	1.23	1.00	1.30	1.88	1.82	2.25	1.86	2.07	3.14	1.63	1.50
19	1.61	1.19	.94	1.30	1.80	1.81	2.04	1.82	1.96	2.91	1.56	1.46
20	1.51	1.19	.90	1.28	1.73	1.73	2.56	1.78	1.87	2.76	1.61	1.44
21	1.42	1.16	.96	1.29	1.66	1.57	2.57	1.75	1.82	2.69	1.67	1.41
22	1.37	1.13	1.01	1.23	1.58	1.46	2.20	1.83	1.81	2.63	1.74	1.38
23	1.40	1.17	.95	1.19	1.47	1.39	1.97	2.27	1.75	2.59	1.72	1.34
24	1.44	1.18	.92	1.18	1.36	1.29	1.86	2.50	1.71	2.61	1.66	1.31
25	1.46	1.16	.89	1.21	1.24	1.17	2.14	2.27	1.79	2.54	1.55	1.30
26	1.44	1.19	.87	1.18	1.21	1.10	2.27	2.15	1.83	2.50	1.47	1.29
27	1.42	1.16	.85	1.15	1.18	1.04	2.15	2.11	1.90	2.44	1.59	1.29
28	1.36	1.21	.87	1.13	1.24	.97	2.02	2.02	2.10	2.41	1.64	1.35
29	1.31		.84	1.13	1.22	.90	1.89	2.00	2.10	2.38	1.72	1.35
30	1.27		.83	1.12	1.13	.84	1.82	1.92	2.15	2.30	1.74	1.37
31	1.21		.86		1.06		1.73	1.96		2.12		1.35

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.02	1.11	1.17	0.85	1.06	0.96	0.75	1.64	1.87	2.06	1.88	1.71
2	2.00	1.12	1.14	.80	1.03	.93	1.34	1.60	1.80	2.74	1.80	1.74
3	2.00	1.12	1.13	.73	1.02	.87	1.25	1.57	1.75	2.57	1.83	1.74
4	1.91	1.61	1.11	.68	.97	.81	1.21	1.97	1.74	2.42	1.80	1.73
5	1.87	1.61	1.08	.66	.93	.79	1.34	1.92	1.81	2.30	1.85	1.70
6	1.85	2.04	1.07	.71	.90	.78	1.46	1.83	1.72	2.22	1.86	1.66
7	1.85	1.79	1.07	.77	.88	1.12	1.34	1.85	1.66	2.18	1.99	1.40
8	1.81	1.60	1.05	.80	.87	1.15	1.30	1.88	1.61	2.12	1.94	1.30
9	1.73	1.52	1.03	1.14	.87	1.01	2.09	1.96	2.33	2.11	1.93	1.22
10	1.72	1.46	1.05	1.40	.88	.89	2.08	2.00	2.22	....	1.98	1.15
11	1.70	1.42	1.02	1.91	.88	.80	2.70	1.94	2.13	....	2.00	1.29
12	1.66	1.38	.98	1.57	.85	.72	e2.15	1.97	2.08	2.29	2.00	1.32
13	1.63	1.31	.98	1.46	.84	.67	1.92	1.97	2.03	2.33	2.00	1.31
14	1.61	1.27	.99	1.38	.94	.63	1.84	2.08	1.95	2.40	1.73	1.32
15	1.61	1.22	.96	1.30	1.38	.60	2.06	2.02	1.86	2.40	1.62	1.30
16	1.60	1.21	.94	1.26	1.28	.60	1.90	1.94	1.81	2.37	1.58	1.29
17	1.59	1.19	.94	1.24	1.25	.88	1.81	1.86	2.07	3.12	1.50	1.30
18	1.59	1.16	.94	1.20	1.80	1.20	2.04	1.80	1.96	2.91	1.47	1.46
19	1.51	1.12	.90	1.22	1.71	1.73	1.88	1.77	1.87	2.74	1.44	1.44
20	1.42	1.10	.86	1.17	1.66	1.57	1.78	1.74	1.82	2.68	1.44	1.41
21	1.37	1.06	.86	1.16	1.58	1.46	2.20	1.70	1.78	2.61	1.55	1.38
22	1.36	1.05	.96	1.10	1.47	1.39	1.97	1.74	1.76	2.58	1.58	1.34
23	1.36	1.07	.87	1.08	1.36	1.29	1.85	1.77	1.70	2.55	1.54	1.31
24	1.40	1.08	.85	1.12	1.26	1.18	1.78	2.27	1.68	2.54	1.46	1.29
25	1.43	1.07	.82	1.14	1.20	1.07	1.76	2.14	1.71	2.45	1.40	1.28
26	1.40	1.08	.79	1.14	1.16	1.05	2.14	2.14	1.79	2.40	1.34	1.25
27	1.31	1.08	.80	1.11	1.15	.97	2.02	1.99	1.83	2.41	1.47	1.24
28	1.26	1.14	.80	1.09	1.18	.90	1.90	1.94	1.90	2.33	1.59	1.30
29	1.23		.77	1.09	1.13	.84	1.82	1.92	2.05	2.29	1.64	1.31
30	1.17		.77	1.08	1.08	.77	1.74	1.86	2.05	2.10	1.70	1.32
31	1.15		.83		1.02		1.67	1.88		1.99		1.31

e Estimated.

G551. City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T. 54 S., R. 39 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 24 to 18 inches, depth 80 feet, cased to 71 feet, slotted 29-71. Land-surface datum is 8.04 feet above msl. Highest water level 8.77 above msl, Oct. 5, 1948; lowest 3.08 above msl, June 8, 1951. Records available: 1947-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.17	....	4.33	e3.69	4.38	3.26	3.19	4.56	5.20	6.12	5.50	5.01
2	5.13	....	4.30	e3.66	4.32	3.24	3.55	4.55	5.15	6.44	5.49	4.98
3	5.10	e4.50	e4.29	e3.63	4.27	3.20	3.55	4.55	5.09	6.23	5.50	4.96
4	5.06	....	e4.27	e3.60	4.20	3.17	3.55	4.57	5.07	6.09	5.50	4.96
5	5.04	....	e4.25	e3.57	4.14	3.15	3.55	4.57	5.02	5.96	5.48	4.96
6	5.01	....	e4.23	3.57	4.08	3.11	3.63	4.57	4.97	5.85	5.45	4.96
7	5.00	....	e4.20	3.56	4.03	3.09	3.65	4.58	4.91	5.78	5.42	4.96
8	4.96	....	e4.18	4.47	3.96	3.08	3.67	4.58	4.86	5.70	5.38	4.96
9	4.90	....	e4.16	4.64	3.91	3.10	3.73	4.59	4.85	5.67	5.35	4.96
10	4.87	e4.93	e4.14	5.93	3.85	3.13	3.80	4.70	4.91	5.72	5.34	4.93
11	e4.86	....	e4.12	5.86	3.81	3.14	3.85	4.78	4.91	5.60	5.32	4.90
12	e4.84	....	e4.10	5.72	3.76	3.14	4.01	4.80	4.91	5.55	5.30	4.89
13	e4.83	....	e4.08	5.58	3.71	3.14	4.10	4.80	4.91	5.54	5.27	4.88
14	e4.81	....	e4.06	5.47	3.67	3.11	4.16	4.80	4.86	5.54	5.25	4.87
15	e4.80	....	e4.04	5.35	3.67	3.10	4.28	4.80	4.83	5.50	5.24	4.86
16	e4.78	....	e4.02	5.25	3.67	3.11	4.28	4.80	4.82	5.60	5.22	4.85
17	e4.76	....	e4.00	5.15	3.65	3.15	4.28	4.76	4.87	5.85	5.21	4.83
18	e4.75	....	e3.98	5.08	3.62	3.16	4.26	4.73	4.87	5.85	5.20	4.83
19	e4.73	....	e3.96	5.02	3.60	3.17	4.24	4.69	4.89	5.80	5.17	4.82
20	e4.72	....	e3.94	4.96	3.59	3.17	4.22	4.65	4.86	5.75	5.15	4.81
21	e4.71	4.53	3.92	5.10	3.58	3.17	4.22	4.60	4.83	5.70	5.12	4.80
22	e4.69	4.49	3.90	5.02	3.55	3.17	4.22	4.59	e4.80	5.67	5.10	4.79
23	e4.67	4.47	3.87	4.93	3.53	3.16	4.22	4.58	e4.78	5.65	5.08	4.78
24	e4.66	4.45	3.85	4.84	3.50	3.15	4.35	4.68	e4.75	5.61	5.07	4.77
25	e4.64	4.42	3.82	4.77	3.45	3.13	4.45	4.70	e4.73	5.58	5.05	4.76
26	4.63	4.40	3.80	4.71	3.42	3.11	4.58	4.68	e4.70	5.57	5.05	4.75
27	....	4.38	3.76	4.64	3.39	3.13	4.58	4.68	e4.68	5.56	5.04	4.75
28	....	4.35	e3.72	4.58	3.35	3.18	4.58	4.68	4.65	5.56	5.02	4.72
29	....	....	e3.70	4.52	3.34	3.19	4.58	4.85	4.75	5.56	5.02	4.71
30	....	....	e3.70	4.45	3.32	3.19	4.58	5.13	5.18	5.55	5.02	4.70
31	....	....	e3.69	....	3.30	....	4.59	5.23	....	5.52	....	4.70

e Estimated.

G553. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 55 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 24 to 18 inches, depth 91 feet, cased to 79 feet, slotted 36-79. Land-surface datum is 12.11 feet above msl. Highest water level 11.06 above msl, Oct. 5, 1948; lowest 2.16 above msl, June 26, 1950. Records available: 1947-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.14	3.38	3.32	2.58	3.88	2.75	2.25	3.50	3.87	3.96	e5.01	3.84
2	4.12	3.38	3.23	2.56	3.82	2.73	2.24	3.49	3.88	4.20	4.97	3.82
3	4.08	3.52	3.22	2.53	3.77	2.70	2.23	3.48	3.89	4.34	4.95	3.77
4	4.04	3.53	3.21	2.52	3.70	2.67	2.24	3.47	3.88	4.46	4.92	3.76
5	4.00	3.59	3.18	2.50	3.66	2.65	2.25	3.45	3.88	4.57	4.88	3.74
6	3.99	3.65	3.16	2.46	3.60	2.62	2.24	3.44	3.87	4.60	4.82	e3.68
7	3.98	3.66	3.15	2.45	3.54	2.58	2.24	3.44	3.85	4.63	4.76	3.66
8	3.96	3.67	3.13	2.80	3.47	2.56	2.24	3.43	3.83	4.64	4.72	3.65
9	3.94	3.68	3.06	2.96	3.42	2.53	2.28	3.45	3.83	4.74	4.63	3.64
10	3.92	3.68	3.04	3.91	3.34	2.50	2.57	3.44	3.82	4.75	4.59	3.62
11	3.88	3.69	3.04	4.54	3.30	2.48	2.75	3.48	3.81	4.73	4.57	3.56
12	3.83	3.68	3.00	4.68	3.26	2.43	2.93	3.49	3.81	4.71	4.52	e3.53
13	3.82	3.67	3.00	4.71	3.23	2.40	3.02	3.50	3.81	4.70	4.45	e3.50
14	3.79	3.66	2.98	4.73	3.21	2.38	3.10	3.51	3.81	4.70	4.43	3.48
15	3.76	3.65	2.96	4.70	3.19	2.36	3.14	3.52	3.79	4.68	e4.37	3.47
16	3.74	3.59	2.93	4.66	3.16	2.41	3.19	3.53	3.79	5.01	4.32	3.47
17	3.71	3.57	2.92	4.59	3.13	2.39	3.27	3.51	3.82	5.33	4.31	3.46
18	3.69	3.56	2.90	4.52	3.14	2.38	3.33	3.50	3.82	5.47	4.27	e3.44
19	3.68	3.53	2.89	4.46	3.12	2.39	3.36	3.48	3.84	5.52	4.26	e3.42
20	3.67	3.51	2.87	4.44	3.11	2.38	3.38	3.47	3.82	5.51	4.20	e3.40
21	3.66	3.45	2.82	4.41	3.10	2.37	3.40	3.46	3.80	5.49	4.17	3.39
22	3.65	3.43	2.80	4.35	3.08	2.36	3.41	3.48	3.77	5.48	e4.11	3.38
23	3.64	3.40	2.78	4.29	3.05	2.34	3.41	3.53	3.75	5.43	4.07	3.37
24	3.62	3.39	2.76	4.26	3.03	2.33	3.42	3.59	3.72	5.42	4.05	3.35
25	3.59	3.38	2.74	4.21	2.95	2.32	3.45	3.63	3.69	5.33	4.01	3.33

G553--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.52	3.36	2.72	4.16	2.93	2.31	3.49	3.68	3.65	5.27	4.00	3.31
27	3.50	3.34	2.70	4.09	2.91	2.30	3.51	3.70	3.64	e5.23	e3.95	3.29
28	3.49	3.33	2.68	4.05	2.91	2.29	3.51	3.70	3.64	e5.18	e3.91	3.28
29	3.47		2.66	4.00	2.88	2.27	3.52	3.73	3.67	e5.14	e3.87	3.27
30	3.43		2.60	3.95	2.85	2.26	3.53	3.76	3.67	e5.10	3.85	3.26
31	3.40		2.59		2.83		3.51	3.86		e5.05		3.24

e Estimated.

G578. University of Miami. Coral Gables, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 54 S., R. 41 E. Drilled observation water-table well in sand and gravel of Biscayne aquifer, diameter 8 inches, depth 26 feet, cased to 24 feet. Land-surface datum is 12.56 feet above msl. Highest water level 6.57 above msl, Sept. 22, 1948; lowest 0.48 above msl, Feb. 21, 1949. Records available: 1948-51. Measurement discontinued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.09	0.80	1.05	0.91	1.05	1.07	0.85	0.88	1.30	1.73	1.83	1.45
2	1.14	.70	.97	.97	1.03	1.05	.86	.85	1.34	2.20	1.80	1.50
3	1.15	.65	.94	.97	1.00	.97	.90	.87	1.22	2.20	1.68	1.51
4	1.05	.81	.94	.95	.96	.91	.95	.92	1.17	2.17	1.62	1.48
5	.98	1.00	.94	1.00	.91	.84	.89	.95	1.08	2.08	1.68	1.42
6	.95	1.15	.94	1.05	.86	.77	.85	.95	1.04	1.97	1.75	1.38
7	.93	1.20	.93	1.16	.82	.79	.83	.98	1.00	1.87	1.72	1.32
8	.86	1.04	.92	1.31	.82	.77	.89	1.07	.96	1.82	1.60	1.22
9	.84	1.07	.90	1.23	.82	.75	.94	1.12	.99	1.78	1.55	1.15
10	.83	1.00	.94	1.65	.85	.75	1.00	1.09	1.06	1.83	1.64	1.07
11	.94	.95	.97	1.70	.90	.84	.99	1.05	1.09	1.83	1.65	1.03
12	.95	.93	.94	1.70	.92	.88	1.00	1.02	1.15	1.90	1.66	1.00
13	.85	.92	.96	1.63	.91	.86	1.04	1.02	1.18	2.00	1.67	.97
14	.85	.90	.95	1.53	.95	.81	1.00	1.04	1.21	2.05	1.60	1.00
15	.84	.85	.94	1.45	1.01	.76	1.04	1.06	1.23	2.10	1.55	.95
16	.75	.82	.87	1.45	1.02	.90	1.05	1.04	1.26	2.17	1.48	.90
17	.70	.80	.85	1.44	1.12	.90	1.07	1.06	1.27	2.30	1.40	1.00
18	.82	.79	.95	1.47	1.16	.87	1.10	1.12	1.28	2.37	1.25	1.05
19	.82	.83	.87	1.49	1.22	.87	1.09	1.17	1.13	2.34	1.18	1.02
20	.80	.87	.80	1.41	1.27	.88	1.05	1.19	1.12	2.39	1.27	1.03
21	.78	.88	.83	1.35	1.32	.97	1.00	1.18	1.15	2.35	1.38	1.00
22	.76	.89	.86	1.32	1.23	1.09	.97	1.10	1.17	2.25	1.50	.88
23	.85	.96	.84	1.25	1.15	1.15	.96	1.16	1.13	2.17	1.55	.85
24	.90	1.02	.87	1.20	1.15	1.11	1.00	1.13	1.11	2.11	1.50	.80
25	.93	1.04	.93	1.18	1.14	1.07	1.05	1.08	1.19	2.05	1.39	.85
26	.85	1.09	.94	1.10	1.20	1.13	1.11	1.05	1.22	2.00	1.30	.83
27	.94	1.09	.98	1.06	1.13	1.05	1.10	1.10	1.30	2.03	1.25	.82
28	1.00	1.08	1.04	1.04	1.18	.99	1.08	1.15	1.34	2.05	1.27	1.01
29	.92		1.03	1.07	1.20	.94	1.04	1.12	1.36	2.03	1.30	1.10
30	.83		.90	1.08	1.17	.87	.98	1.10	1.39	1.93	1.33	1.15
31	.81		.83		1.15		.96	1.20		1.90		1.10

G580. U. S. Geol. Survey. Ludlum Road and Killian Drive, South Miami. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 55 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 2 $\frac{1}{2}$ inches, depth 100 feet, cased to 95 feet. Land-surface datum is 9.20 feet above msl. Highest water level 6.46 above msl, Oct. 18, 1950; lowest 1.18 above msl, July 14, 1950. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.49	1.97	2.00	1.60	2.51	1.92	1.52	2.18	2.68	2.64	3.14	2.42
2	2.47	1.96	1.96	1.59	2.46	1.89	1.49	2.15	2.66	3.56	3.08	2.42
3	2.45	2.03	1.94	1.59	2.42	1.86	1.47	2.12	2.63	3.68	3.03	2.43
4	2.42	2.08	1.92	1.58	2.37	1.82	1.45	2.09	2.60	3.65	2.97	2.43
5	2.40	2.15	1.91	1.57	2.32	1.77	1.44	2.07	2.53	3.61	2.92	2.41
6	2.38	2.25	1.92	1.55	2.28	1.73	1.41	2.05	2.48	3.53	2.87	2.39
7	2.36	2.30	1.90	1.56	2.23	1.80	1.40	2.03	2.34	3.44	2.83	2.35
8	2.33	2.31	1.87	2.16	2.18	1.81	1.39	2.05	....	3.34	2.78	2.33
9	2.30	2.31	1.86	2.38	2.13	1.78	1.56	2.09	....	3.27	2.72	2.30
10	2.27	2.31	1.85	3.40	2.08	1.74	1.99	2.09	....	e3.20	2.67	2.27
11	2.26	2.31	1.85	3.65	2.04	1.70	2.32	2.11	....	e3.11	2.64	2.23
12	2.24	2.29	1.84	3.66	2.00	1.67	2.44	2.13	....	3.04	2.61	2.20
13	2.22	2.26	1.84	3.55	1.98	1.65	2.62	2.10	....	3.00	2.58	2.14
14	2.20	2.24	1.82	3.46	1.97	1.63	2.74	2.09	2.34	2.99	2.55	e2.10
15	2.18	2.21	1.80	3.38	1.99	1.64	2.75	2.08	2.32	2.97	2.54	2.07

G580--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	2.16	2.18	1.78	3.29	1.99	1.64	2.70	2.06	2.31	3.30	2.51	2.03
17	2.14	2.16	1.77	3.20	2.00	1.64	2.65	2.05	e2.30	e3.58	2.51	2.02
18	2.12	2.12	1.76	3.14	2.06	1.59	2.59	2.04	e3.28	e3.86	2.51	2.03
19	2.10	2.10	1.76	3.08	2.12	1.62	2.53	2.04	e2.26	3.99	2.50	2.05
20	2.08	2.08	1.75	3.04	2.22	1.63	2.47	2.04	e2.25	3.93	2.48	2.04
21	2.07	2.06	1.71	3.00	2.24	1.64	2.48	2.03	2.24	3.86	2.47	2.03
22	2.05	2.06	1.70	2.95	2.24	1.61	2.45	2.38	e2.23	3.81	2.47	2.01
23	2.03	2.01	1.68	2.90	2.22	1.62	2.40	2.56	e2.22	3.74	2.47	1.99
24	2.03	2.01	1.68	2.84	2.18	1.61	2.38	2.75	e2.20	3.68	2.47	1.97
25	2.03	2.02	1.67	2.81	2.12	1.59	2.35	2.81	2.19	3.60	2.46	1.95
26	2.03	2.02	1.67	2.77	2.08	1.58	2.34	2.82	2.17	3.54	2.44	1.93
27	2.03	2.02	1.67	2.72	2.06	1.58	2.31	2.80	2.16	3.46	2.42	1.92
28	2.02	2.02	1.67	2.66	2.05	1.56	2.30	2.76	2.15	3.39	2.41	1.91
29	2.02		1.64	2.62	2.02	1.58	2.28	2.74	2.16	3.34	2.41	1.92
30	2.01		1.62	2.56	1.98	1.55	2.25	2.71	2.19	3.26	2.42	1.93
31	1.99		1.61		1.96		2.21	2.70		3.20		1.94

e Estimated.

G594. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 52 S., R. 39 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 14. Land-surface datum is 7.40 feet above msl. Highest water level 7.71 above msl, Oct. 12, 1949; lowest 2.64 above msl, June 5, 1951. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.68	6.25	5.85	4.47	3.83	2.79	4.32	6.17	6.24	6.75	7.05	....
2	6.67	6.34	5.82	4.42	3.77	2.76	4.24	6.18	6.25	6.80	7.05	....
3	6.67	6.38	5.79	4.37	3.72	2.69	4.12	6.15	6.26	6.80	7.05	....
4	6.66	6.38	5.75	4.29	3.65	2.68	4.01	6.11	6.27	6.80	7.05	....
5	6.65	6.38	5.71	4.22	3.56	2.64	3.93	6.08	6.27	6.81	7.05	....
6	6.64	6.38	5.67	4.15	3.52	3.45	3.83	6.15	6.26	6.81	7.05	....
7	6.61	6.38	5.64	4.17	3.44	3.47	3.78	6.16	6.23	6.82	7.05	....
8	6.61	6.35	5.59	4.15	3.40	3.30	3.92	6.16	6.20	6.82	7.05	....
9	6.61	6.33	5.53	4.20	3.35	3.19	4.10	6.25	6.20	6.92	7.05	....
10	6.60	6.32	5.48	5.15	3.30	3.08	4.75	6.25	6.20	6.95	....	....
11	6.59	6.30	5.43	5.18	3.25	2.98	4.90	6.23	6.20	6.95	....	....
12	6.58	6.30	5.38	5.17	3.23	2.90	4.95	6.19	6.21	6.95	....	....
13	6.55	6.27	5.51	5.12	3.27	2.84	5.00	6.24	6.22	6.96	....	....
14	6.53	6.25	5.51	5.04	3.27	2.79	4.99	6.25	6.22	6.97	....	....
15	6.52	6.24	5.45	4.94	3.25	2.76	5.23	6.25	6.39	6.98	....	....
16	6.51	6.22	5.39	4.85	3.23	3.89	5.16	6.22	6.41	7.01	....	....
17	6.50	6.18	5.34	4.80	3.18	4.23	5.10	6.19	6.40	7.03	....	....
18	6.48	6.16	5.27	4.85	3.15	4.32	5.41	6.16	6.40	7.04	....	....
19	6.47	6.14	5.23	4.79	3.12	4.95	5.43	6.12	6.40	7.04	....	....
20	6.45	6.11	5.17	4.70	3.04	4.97	5.41	6.08	6.40	7.04	....	....
21	6.44	6.08	5.14	4.60	3.04	4.90	5.36	6.03	6.40	7.05	....	....
22	6.42	6.06	5.06	4.53	3.03	4.81	5.31	6.03	6.40	7.05	....	....
23	6.41	6.04	5.00	4.43	3.00	4.71	5.24	6.06	6.40	7.04	....	....
24	6.38	6.01	4.94	4.34	2.93	4.69	5.37	6.27	6.38	7.04	....	....
25	6.36	5.97	4.86	4.25	2.90	4.63	5.48	6.26	6.37	7.04	....	....
26	6.34	5.93	4.80	4.20	2.87	4.61	5.50	6.21	6.36	7.04	....	6.92
27	6.29	5.92	4.74	4.12	2.95	4.60	5.51	6.20	6.35	7.04	....	6.92
28	6.28	5.89	4.68	4.04	2.97	4.59	5.45	6.24	6.35	7.04	....	6.91
29	6.25		4.61	3.97	2.92	4.49	5.42	6.24	6.40	7.04	....	6.90
30	6.24		4.60	3.90	2.85	4.36	5.73	6.24	6.53	7.04	....	6.90
31	6.23		4.53		2.84		6.01	6.24		7.05		6.89

G595. U. S. Geol. Survey. Galloway Road and Sunset Drive, South Miami, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 54 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 14 feet, cased to 11 feet. Land-surface datum is 8.80 feet above msl. Highest water level 7.39 above msl, Oct. 18, 1950; lowest 2.04 above msl, June 30, 1951. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.99	c3.26	c3.27	c2.93	3.87	2.87	c2.07	3.41	3.62	4.24	4.36	3.80
2	3.98	c3.34	c3.23	c2.90	3.81	2.85	c2.08	3.40	3.64	4.59	4.34	3.78
3	3.97	c3.48	c3.24	c2.86	3.76	2.82	c2.04	3.39	3.66	4.66	4.32	3.77
4	3.95	c3.55	c3.23	c2.84	3.73	c2.53	c2.05	3.40	3.68	4.67	4.31	3.76
5	3.94	c3.59	c3.21	c2.82	3.67	c2.46	c2.22	3.39	3.69	4.66	4.28	3.76

G595--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	3.93	c3.63	c3.17	c2.62	3.62	c2.60	c2.25	3.38	3.68	4.64	4.26	3.76
7	3.93	c3.65	c3.17	c2.68	3.56	c2.49	c2.37	3.37	3.66	4.58	4.23	3.75
8	3.90	c3.66	c3.12	3.85	c3.29	2.47	c2.45	3.36	3.64	4.54	4.20	3.75
9	3.89	c3.60	c3.11	3.90	c3.19	2.59	c2.33	3.47	3.65	4.51	4.17	3.74
10	3.88	3.70	c3.07	5.37	c3.29	2.47	c2.42	e3.48	3.66	4.63	4.15	3.73
11	3.86	3.74	c3.08	5.10	c3.08	2.53	c2.56	e3.48	3.64	4.55	4.12	3.72
12	3.84	3.75	c3.07	4.93	c3.18	2.52	c2.50	e3.48	3.63	e4.52	4.10	3.71
13	3.82	3.74	c3.08	4.80	c3.19	2.50	c2.56	3.48	3.63	e4.50	4.07	3.70
14	3.81	3.73	3.20	4.63	c3.29	2.53	2.62	3.48	3.62	e4.49	4.04	3.67
15	e3.77	3.71	3.23	4.57	c3.28	2.51	2.67	3.47	3.60	e4.47	4.04	3.66
16	e3.72	3.70	3.21	4.74	c3.23	2.52	2.77	3.46	3.60	e4.58	e4.02	3.65
17	e3.70	3.68	3.20	4.37	c3.21	2.48	2.82	3.44	3.62	e4.71	4.00	3.64
18	e3.67	3.66	3.19	4.52	c3.28	2.52	2.85	3.42	3.59	e4.72	3.99	3.65
19	e3.64	3.64	3.17	4.17	c3.25	2.45	2.86	3.40	3.57	4.72	3.97	3.65
20	c3.60	3.63	3.17	4.45	e3.23	2.52	3.01	3.37	3.55	4.70	3.97	3.63
21	c3.54	c3.55	c3.08	4.54	c3.19	2.49	c3.06	3.35	3.51	4.67	3.95	3.62
22	c3.56	c3.50	c3.03	4.29	c3.16	2.49	c2.75	3.42	3.49	e4.64	3.92	3.61
23	c3.51	c3.45	c3.02	4.36	c3.13	2.46	c3.05	3.44	3.46	e4.60	3.89	3.61
24	c3.47	c3.41	c2.99	4.14	c3.09	2.46	c3.01	e3.53	....	e4.56	3.88	3.59
25	c3.45	c3.39	c2.97	4.02	c3.04	2.42	c3.05	e3.54	....	e4.53	3.87	3.58
26	c3.41	c3.36	c2.95	3.93	c3.01	2.45	c3.07	3.53	3.40	4.52	3.85	3.57
27	c3.39	c3.34	c2.91	4.11	c3.00	2.47	c2.96	3.52	3.37	4.48	3.84	3.54
28	c3.36	c3.32	c2.89	4.06	c3.01	2.49	c3.29	3.51	3.40	4.47	3.83	c3.22
29	c3.33		c2.84	3.99	c2.98	2.13	3.42	3.52	3.42	4.45	3.83	c3.22
30	c3.29		c2.82	3.93	c2.95	2.04	3.46	3.57	3.49	4.42	3.81	c3.19
31	c3.28		c2.92		c2.90		3.42	3.61		4.40		c3.11

c Nearby well being pumped.

e Estimated.

G596. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 55 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 13 feet, cased to 11 feet. Land-surface datum is 7.70 feet above msl. Highest water level 8.01 above msl, Oct. 25, 1949; lowest 3.25 above msl, May 16, 1950. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	4.97	4.89	3.80	4.85	3.68	3.50	7.60	6.30	6.71	6.08	5.35
2	....	5.35	4.84	3.77	4.79	3.61	3.70	6.95	6.23	6.76	6.05	5.34
3	5.77	5.92	4.80	3.73	4.71	3.55	3.75	6.77	6.15	6.65	6.03	5.30
4	5.74	5.84	4.76	3.68	4.68	3.49	3.75	6.60	6.10	6.53	6.00	5.30
5	5.70	5.83	4.72	3.65	4.61	3.45	3.80	6.45	6.03	6.45	5.98	5.29
6	5.69	5.93	4.68	3.60	4.53	3.50	3.90	6.43	5.97	6.36	5.95	5.28
7	5.68	5.84	4.65	3.57	4.46	3.64	3.97	6.37	5.92	6.31	5.91	5.26
8	5.64	5.77	4.61	4.97	4.37	3.82	4.07	e6.32	5.86	6.28	5.87	5.22
9	5.60	5.72	4.57	5.03	4.30	3.87	4.16	e6.30	5.97	6.27	5.85	5.20
10	5.57	5.67	4.53	6.82	4.25	3.89	4.25	e6.70	6.01	6.37	5.82	5.18
11	5.54	5.62	4.49	6.45	4.17	3.90	4.40	e6.83	6.53	6.28	5.80	5.16
12	5.50	5.59	4.46	6.25	4.11	3.85	4.57	6.64	6.27	6.24	5.77	5.15
13	5.47	5.54	4.43	6.12	4.13	4.26	4.60	6.53	6.17	6.22	5.74	5.13
14	5.45	5.50	4.43	6.00	4.24	4.16	4.70	4.66	6.09	6.22	5.72	5.11
15	5.43	5.45	4.40	5.90	4.33	4.06	4.75	6.48	6.42	6.20	5.70	5.10
16	5.40	5.42	4.40	5.80	4.33	3.96	4.75	6.40	6.32	6.72	5.68	5.07
17	5.36	5.37	4.36	5.70	4.30	3.87	4.74	6.32	6.22	6.56	5.65	5.07
18	5.35	5.33	4.32	5.64	4.38	3.80	5.02	6.28	6.14	6.47	5.60	5.07
19	5.32	5.28	4.29	5.56	4.40	3.71	5.05	6.10	6.06	6.40	5.58	5.07
20	5.30	5.26	4.27	5.50	4.39	3.67	5.07	6.13	6.01	6.35	5.55	5.06
21	5.28	5.20	4.23	5.59	4.35	3.67	5.13	6.11	5.95	6.31	5.52	5.05
22	5.26	5.15	4.17	5.53	4.29	3.67	5.14	6.02	5.90	6.22	5.50	5.03
23	5.24	5.11	4.15	5.46	4.22	3.67	5.15	6.31	5.83	6.25	5.48	5.02
24	5.20	5.08	4.10	5.38	4.14	3.67	5.15	6.21	5.80	6.21	5.46	5.01
25	5.17	5.03	4.06	5.31	4.07	3.63	5.16	6.57	5.76	6.20	5.44	4.99
26	5.13	5.00	4.03	5.24	4.00	3.59	5.24	6.98	5.70	6.16	5.42	4.97
27	5.11	4.95	3.98	5.15	3.94	3.56	5.32	6.38	5.67	6.15	5.40	4.97
28	5.08	4.91	3.94	5.09	3.90	3.54	5.32	6.34	5.68	6.19	5.38	4.96
29	5.05		3.90	5.02	3.85	3.49	5.29	6.27	5.69	6.20	5.38	4.96
30	5.03		3.84	4.94	3.80	3.48	5.27	6.48	5.71	6.17	5.37	4.94
31	5.00		3.83		3.74		6.14	6.40		6.12		4.92

e Estimated.

G612. U. S. Geol. Survey. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 23, T. 57 S., R. 39 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 19 feet, cased to 17 feet. Land-surface datum is 3.90 feet above msl. Highest water level 3.17 above msl, Oct. 6, 1950; lowest 0.20 below msl, May 15, 1950. Records available: 1950-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.44	0.87	0.92	0.60	0.83	0.53	0.75	1.57	1.60	2.65	1.68	1.21
2	1.37	1.30	.90	.66	.77	.46	1.31	1.43	1.51	2.31	1.66	1.23
3	1.42	1.77	.90	.70	.73	.37	.76	2.20	1.42	....	2.00	1.31
4	1.34	1.30	.80	.63	.70	.30	.86	1.83	1.43	....	1.65	1.32
5	1.31	2.03	.87	.54	.67	.27	.78	1.67	1.28	....	1.56	1.30
6	1.30	1.59	.85	.48	.65	.26	.94	2.34	1.21	....	1.50	1.25
7	1.39	1.24	.86	.47	.60	.28	.85	1.87	1.10	....	1.45	1.20
8	1.20	1.11	.83	.97	.55	.33	1.28	1.73	1.07	....	1.39	1.10
9	1.15	1.02	.81	.72	.52	.31	1.45	1.63	1.79	....	1.38	1.05
10	1.13	.90	.80	2.17	.55	.23	2.71	1.87	1.43	....	1.37	1.00
11	1.20	.82	.76	1.35	.50	.19	2.30	1.63	1.38	....	1.37	1.00
12	1.30	.85	.74	1.07	.45	.15	2.05	1.61	1.33	....	1.35	1.02
13	1.37	1.00	.89	.91	.90	.12	2.07	1.51	1.29	....	1.30	1.07
14	1.40	.80	.87	.82	1.33	.23	1.79	1.51	1.24	....	1.37	1.08
15	1.45	.75	.83	.74	1.34	.16	1.95	1.45	1.40	....	1.43	1.13
16	1.35	.75	.78	.67	1.20	.85	1.58	1.37	2.30	e2.94	1.30	1.15
17	1.25	.74	.76	.61	.90	2.59	1.48	1.45	1.63	....	1.43	1.24
18	1.15	.93	.72	.60	1.93	2.13	1.36	1.71	1.49	....	1.31	1.16
19	1.09	.91	.70	.55	1.53	1.89	1.27	1.75	1.37	....	1.22	1.10
20	1.00	.82	.66	.73	1.54	1.73	1.53	1.54	1.37	....	1.15	1.10
21	1.07	.77	.67	.86	1.35	1.57	1.55	1.47	1.34	....	1.12	1.10
22	.88	.83	.63	.84	1.24	1.48	1.59	1.58	1.28	....	1.05	1.10
23	.87	.81	.59	.80	1.13	1.35	1.28	2.20	1.25	....	1.04	1.10
24	.90	.81	.58	.82	1.00	1.26	1.27	1.65	1.45	....	1.08	1.08
25	.93	.80	.54	.87	.90	1.35	1.83	1.46	1.83	....	1.00	1.07
26	.84	.82	.50	.95	.86	1.20	1.55	1.34	1.70	2.14	1.09	1.03
27	.88	.84	.48	.95	.73	1.13	1.40	1.33	1.63	1.90	1.24	1.06
28	.92	.90	.45	.90	.91	.98	1.26	1.36	2.49	2.73	1.12	1.03
29	.99		.45	.92	.86	.90	1.12	1.39	1.97	2.07	1.32	1.02
30	.91		.55	.88	.72	.78	1.07	2.11	1.95	1.86	1.24	1.03
31	.88		.57		.66		1.41	1.72		1.78		1.02

e Estimated.

G613. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 58 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 21 feet, cased to 18 feet. Land-surface datum is 5.00 feet above msl. Highest water level 5.48 above msl, Oct. 9, 1950; lowest 0.24 below msl, May 16, 1950. Records available: 1950-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.30	1.38	1.30	0.86	1.06	0.69	0.75	4.34	3.06	3.67	2.72	1.72
2	2.29	1.37	1.26	.99	1.02	.60	.70	3.80	2.94	3.83	2.66	1.70
3	2.22	2.05	1.23	.93	.95	.53	.60	3.57	2.82	3.65	2.80	1.66
4	2.18	2.07	1.20	.80	.88	.46	.60	3.39	2.75	3.48	2.75	1.65
5	2.13	2.44	1.15	.71	.85	.40	.68	3.23	2.68	3.33	2.69	1.63
6	2.10	2.52	1.12	.63	.80	.35	.72	3.16	2.59	3.22	2.65	1.60
7	2.10	2.46	1.10	.55	.73	.31	.79	3.62	2.52	3.12	2.57	1.57
8	2.05	2.37	1.06	.53	.66	.40	.95	3.51	2.47	3.02	2.50	1.54
9	2.00	2.30	1.03	1.03	.63	.39	1.17	3.40	2.67	2.99	2.45	1.50
10	1.96	2.22	1.00	1.93	.65	.33	1.42	3.34	2.78	3.35	2.40	1.47
11	1.92	2.17	.95	2.08	.58	.28	2.20	3.84	3.00	3.22	2.35	1.45
12	1.89	2.10	.93	2.06	.52	.24	2.22	3.90	3.02	3.13	2.30	1.40
13	1.85	2.04	.92	2.03	.49	.18	2.20	3.64	2.91	3.05	2.26	1.37
14	1.82	1.97	.94	1.95	1.61	.15	2.15	3.55	2.80	2.98	2.21	1.35
15	1.80	1.92	.90	1.88	1.68	.19	2.21	3.41	2.75	2.93	2.16	1.33
16	1.75	1.87	.87	1.80	1.60	.15	2.17	3.27	2.73	3.15	2.12	1.30
17	1.75	1.81	.85	1.73	1.53	1.30	2.10	3.15	2.74	3.35	2.11	1.30
18	1.73	1.75	.81	1.67	1.58	1.75	2.05	3.04	2.80	3.33	2.07	1.30
19	1.71	1.72	.77	1.63	1.50	1.79	1.99	2.94	2.75	3.23	2.04	1.27
20	1.71	1.69	.74	1.58	1.46	1.68	1.96	2.83	2.86	3.15	1.99	1.25
21	1.70	1.62	.72	1.56	1.42	1.66	2.00	2.78	2.80	3.07	1.95	1.24
22	1.70	1.57	.69	1.50	1.38	1.55	2.01	2.75	2.52	2.99	1.91	1.20
23	1.67	1.51	.64	1.44	1.30	1.45	1.98	3.05	2.44	2.94	1.89	1.20
24	1.64	1.46	.60	1.40	1.22	1.33	2.10	3.10	2.40	2.86	1.85	1.18
25	1.60	1.43	.56	1.40	1.12	1.36	2.11	2.94	2.39	2.80	1.82	1.14

G613--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.54	1.40	0.51	1.35	1.04	1.25	2.14	2.83	2.35	2.79	1.79	1.11
27	1.50	1.36	.48	1.30	1.00	1.15	2.15	2.76	2.32	2.75	1.75	1.10
28	1.46	1.33	.45	1.25	1.03	1.05	2.09	3.15	2.46	2.93	1.73	1.09
29	1.45		.41	1.20	.95	.94	2.02	3.18	2.68	2.90	1.75	1.08
30	1.42		.39	1.13	.87	.84	1.98	3.36	3.08	2.84	1.74	1.06
31	1.40		.37		.77		2.39	3.21		2.76		1.05

G614. U. S. Geol. Survey. Newton Road and Silver Palm Drive. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 56 S., R. 39 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 18 feet. Land-surface datum is 11.10 feet above msl. Highest water level 7.49 above msl, Oct. 18, 1950; lowest 1.30 above msl, May 22, 1950. Records available: 1950-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.52	2.78	2.72	1.78	2.69	2.11	1.77	3.85	4.06	3.81	4.26	3.08
2	3.56	2.76	2.70	1.74	2.65	2.06	1.76	3.95	4.05	4.08	4.22	3.04
3	3.57	2.78	2.67	1.72	2.61	2.02	1.75	4.10	4.03	4.37	4.18	3.01
4	3.58	2.84	2.64	1.69	2.58	1.98	1.74	4.21	3.99	4.52	4.14	2.98
5	3.58	2.23	2.61	1.67	2.55	1.93	1.73	4.30	3.96	4.60	4.10	2.95
6	3.56	3.05	2.58	1.64	2.50	1.90	1.73	4.35	3.93	4.62	4.06	2.93
7	3.54	3.17	3.55	1.61	2.46	1.88	1.73	4.50	3.89	4.62	4.03	2.89
8	3.51	3.25	2.51	1.60	2.40	1.86	1.75	4.60	3.87	4.60	3.98	2.88
9	3.50	3.28	2.48	1.61	2.36	1.85	1.82	4.69	3.84	4.58	3.94	2.84
10	3.46	3.34	2.45	1.82	2.31	1.85	1.94	4.74	3.84	4.54	3.91	2.81
11	3.42	3.35	2.43	2.12	2.25	1.84	2.14	4.78	3.85	4.51	3.86	2.78
12	3.38	3.36	2.39	2.37	2.22	1.80	2.32	4.83	3.86	4.47	3.82	2.75
13	3.33	3.34	2.36	2.49	2.18	1.77	2.41	4.86	3.86	4.46	3.77	2.72
14	3.30	3.31	2.32	2.61	2.16	1.74	2.56	4.89	3.85	4.46	3.74	2.68
15	3.27	3.28	2.30	2.69	2.14	1.70	2.79	4.90	3.84	4.45	3.69	2.66
16	3.24	3.24	2.27	2.75	2.13	1.68	2.96	4.97	3.83	4.44	3.63	2.64
17	3.21	3.20	2.24	2.78	2.13	1.65	3.06	4.86	3.83	4.50	3.60	2.61
18	3.19	3.16	2.21	2.80	2.18	1.67	3.19	4.78	3.84	4.61	3.55	2.60
19	3.17	3.14	2.18	2.84	2.27	1.76	3.31	4.70	3.85	4.67	3.52	2.58
20	3.15	3.10	2.15	2.83	2.32	1.83	3.39	4.62	3.85	4.71	3.47	2.56
21	3.12	3.05	2.12	2.83	2.37	1.86	3.50	4.55	3.84	4.71	3.43	2.55
22	3.09	3.02	2.09	2.84	2.39	1.88	3.59	4.47	3.82	4.70	3.39	2.54
23	3.07	2.96	2.06	2.84	2.40	1.87	3.64	4.42	3.78	4.69	3.36	2.52
24	3.04	2.93	2.03	2.83	2.39	1.89	3.67	4.33	3.75	4.62	3.34	2.51
25	3.00	2.88	2.00	2.83	2.37	1.88	3.68	4.28	3.72	4.57	3.29	2.48
26	2.97	2.84	1.97	2.82	2.35	1.87	3.74	4.23	3.68	4.51	3.26	2.45
27	2.94	2.80	1.95	2.79	2.34	1.83	3.81	4.17	3.65	4.47	3.22	2.43
28	2.92	2.76	1.91	2.78	2.30	1.82	3.86	4.13	3.65	4.42	3.18	2.41
29	2.88		1.87	2.77	2.25	1.81	3.87	4.09	3.65	4.38	3.16	2.40
30	2.84		1.83	2.74	2.20	1.79	3.86	4.06	3.67	4.34	3.10	2.38
31	2.82		1.80		2.16		3.83	4.06		4.30		2.36

G615. U. S. Geol. Survey. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 52 S., R. 41 E. Drilled observation water-table well in sand and gravel of Biscayne aquifer, diameter 6 inches, depth 24 feet, cased to 22 feet. Land-surface datum is 6.50 feet above msl. Highest water level 6.65 above msl, Nov. 24, 1950; lowest 1.73 above msl, May 26, 1951. Records available: 1950-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.42	3.20	2.99	2.29	2.49	2.37	2.09	4.10	3.90	4.50	3.87	3.58
2	4.32	3.34	2.97	2.27	2.44	2.32	2.05	4.04	4.06	5.25	3.85	3.55
3	4.22	3.82	2.95	2.27	2.39	2.27	2.01	3.95	3.92	4.85	3.83	3.51
4	4.15	3.84	e2.93	2.25	2.34	2.24	1.99	3.93	4.02	4.66	3.80	3.50
5	4.10	3.86	e2.90	2.24	2.30	2.22	1.97	3.90	3.92	4.50	3.78	3.49
6	4.05	3.92	e2.88	2.23	2.25	2.20	1.96	3.83	3.85	4.38	3.76	3.49
7	4.00	3.84	e2.87	2.21	2.20	2.20	1.99	3.84	3.77	4.29	3.72	3.48
8	3.92	3.75	e2.85	2.20	2.16	2.18	2.10	3.80	3.72	4.21	3.70	3.47
9	3.87	3.70	e2.83	2.17	2.14	2.15	2.37	3.75	3.91	4.97	3.68	3.45
10	3.83	3.65	e2.81	2.24	2.10	2.11	3.00	3.73	3.82	5.02	3.65	3.44
11	3.79	3.63	e2.78	2.36	2.07	2.08	3.16	3.73	3.78	4.48	3.63	3.43
12	3.75	3.58	e2.75	2.43	2.05	2.05	3.23	3.69	3.82	4.35	3.61	3.42
13	3.71	3.53	e2.73	2.48	2.03	2.00	3.25	3.64	3.78	4.31	3.60	3.40
14	3.70	3.49	e2.70	2.50	2.00	1.97	3.25	3.87	3.69	4.40	3.59	3.39
15	3.67	3.44	2.66	2.51	1.97	1.94	3.22	3.78	3.62	4.24	3.57	3.38

G615--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	3.62	3.41	2.64	2.50	1.95	2.05	3.19	3.67	3.59	4.21	3.56	3.38
17	3.60	3.37	2.62	2.50	1.93	2.15	3.18	3.60	3.80	4.37	3.55	3.38
18	3.55	3.34	2.60	2.47	1.90	2.21	4.37	3.55	3.74	4.23	3.64	3.38
19	3.55	3.30	2.57	2.45	1.89	2.30	4.27	3.51	3.65	4.43	3.60	3.38
20	3.52	3.27	2.55	2.55	1.87	2.35	4.59	3.46	3.58	4.18	3.55	3.38
21	3.50	3.22	2.52	2.60	1.85	2.39	4.45	3.43	3.54	4.14	3.53	3.38
22	3.46	3.19	2.50	2.60	1.82	2.39	4.31	3.41	3.53	4.13	3.51	3.37
23	3.44	3.16	2.47	2.88	1.80	2.36	4.19	3.68	3.46	4.10	3.58	3.37
24	3.41	3.13	2.45	e2.83	1.77	2.33	4.30	3.88	3.40	4.07	3.61	3.36
25	3.38	3.11	2.43	e2.77	1.75	2.30	4.17	3.90	3.47	4.05	3.57	3.35
26	3.35	3.08	2.41	2.74	1.73	2.27	4.63	3.78	3.43	4.04	3.55	3.34
27	3.33	3.05	2.39	2.70	1.93	2.24	4.30	3.70	3.37	4.01	3.52	3.33
28	3.29	3.02	2.37	2.65	2.27	2.15	4.15	3.67	3.50	3.99	3.50	3.34
29	3.28		2.35	2.59	2.36	2.15	4.07	3.87	3.69	3.95	3.64	3.33
30	3.25		2.32	2.54	2.38	2.12	4.46	4.00	3.92	3.93	3.62	3.32
31	3.23		2.31		2.38		4.14	4.02		3.90		3.31

e Estimated.

S18. Model Dairy. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 52 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 8 inches, depth 52 feet. Land-surface datum is 9.12 feet above msl. Highest water level 7.54 above msl, Oct. 12, 1947; lowest 0.05 above msl, June 3, 1945. Records available: 1939-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.27	1.73	1.59	1.17	....	1.10	0.97	2.08	1.90	2.26	2.08	1.82
2	2.27	1.74	1.59	1.16	....	1.07	.98	2.05	1.97	3.48	2.05	1.82
3	2.25	1.95	1.57	1.14	....	1.05	.94	2.08	1.99	3.30	2.01	1.81
4	2.22	2.01	1.55	1.13	1.38	1.03	.93	2.05	1.97	3.18	1.97	1.81
5	2.17	2.05	1.53	1.11	1.34	1.02	.92	2.01	1.93	3.01	1.93	1.82
6	2.14	2.07	1.52	1.10	1.31	1.03	.92	1.97	1.88	2.87	1.90	1.80
7	2.11	2.09	1.50	1.13	1.27	1.03	.91	1.94	1.83	2.75	1.88	1.79
8	2.07	2.09	1.49	1.14	1.24	1.07	1.03	1.92	1.79	2.64	1.84	1.77
9	2.02	2.07	1.47	1.16	1.21	1.06	1.22	1.91	1.81	2.60	1.84	1.75
10	1.99	2.06	1.45	1.32	1.18	1.03	1.42	1.88	1.80	....	1.84	1.74
11	1.96	2.04	1.44	1.37	1.18	1.01	1.48	1.86	1.86	....	1.86	1.72
12	1.96	2.01	1.42	1.41	1.15	.98	1.54	1.83	1.97	2.42	1.89	1.70
13	1.94	1.98	1.43	1.39	1.14	.95	1.68	1.80	2.01	2.39	1.90	1.69
14	1.92	1.94	1.42	1.40	1.14	.93	1.72	1.85	2.00	2.37	1.92	1.68
15	1.91	1.90	1.40	1.41	1.12	.97	1.74	1.83	1.91	2.36	1.93	1.71
16	1.89	1.87	1.39	1.41	1.11	.98	1.75	1.80	1.89	2.43	1.90	1.72
17	1.88	1.84	1.37	1.39	1.10	.96	1.89	1.79	1.98	2.52	1.92	1.73
18	1.86	1.81	1.36	1.40	1.07	.97	2.01	1.76	1.99	2.64	1.95	1.73
19	1.86	1.78	1.34	1.38	1.06	1.00	2.04	1.74	1.90	2.68	1.96	1.74
20	1.85	1.76	1.32	1.37	1.04	1.02	2.40	1.72	1.84	2.64	1.93	1.74
21	1.87	1.74	1.31	1.74	1.03	1.01	2.47	1.70	1.78	2.58	1.90	1.74
22	1.85	1.72	1.29	1.80	1.00	1.00	2.33	1.70	1.74	2.51	1.87	1.73
23	1.84	1.72	1.28	1.79	.99	.98	2.24	1.75	1.68	2.44	1.87	1.73
24	1.84	1.70	1.26	1.77	.98	1.00	2.22	1.80	1.64	2.37	1.88	1.73
25	1.82	1.68	1.25	1.74	.96	1.02	2.20	1.80	1.66	2.32	1.85	1.72
26	1.81	1.66	1.24	1.71	.94	1.02	2.24	1.79	1.65	2.28	1.84	1.72
27	1.79	1.64	1.22	....	1.04	1.01	2.23	1.75	1.64	2.24	1.82	1.72
28	1.77	1.62	1.21	....	1.13	1.02	2.20	1.72	1.74	2.22	1.81	1.71
29	1.76		1.20	....	1.15	.98	2.16	1.75	1.84	2.19	1.84	1.70
30	1.75		1.20	....	1.13	.96	2.18	1.82	1.97	2.15	1.83	1.69
31	1.74		1.18		1.12		2.12	1.87		2.11		1.69

S19. City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 53 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 95 feet, cased to 91 feet. Land-surface datum is 7.24 feet above msl. Highest water level 7.63 above msl, Oct. 11, 1947; lowest 1.41 below msl, June 18, 1945. Records available: 1939-51.

Daily highest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.54	+0.26	+0.95	+0.40	+0.62	+0.05	+0.80	+1.23	+1.13	+1.35	+1.40	+1.05
2	.62	.29	.85	.44	.69	.05	.90	1.15	1.18	2.10	1.32	1.07
3	.61	.40	.80	.49	.45	+.00	.94	1.26	1.11	2.25	1.26	1.07
4	.51	.58	.83	.48	.37	-.08	.75	1.41	.98	1.93	1.29	1.02
5	.50	.75	.81	.44	.31	-.12	.72	1.36	.81	1.79	1.22	1.09

S19--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	+0.47	+0.88	+0.80	+0.34	+0.25	-0.07	+0.81	+1.27	+0.68	+1.70	+1.28	+1.15
7	.48	.95	.91	.33	.22	+.03	.73	1.13	.53	1.56	1.20	1.08
8	.49	.91	.93	.47	.17	.14	1.46	1.00	.48	1.48	1.15	1.02
9	.44	.93	.79	.56	.13	.28	1.97	.95	.59	1.45	1.02	.93
10	.40	.91	.73	1.24	.09	.36	2.11	.93	.66	1.54	.95	.89
11	.36	.85	.70	1.46	.05	.28	2.16	.87	.74	1.41	.97	.85
12	.36	.78	.68	1.50	.03	.16	1.97	.89	.89	1.37	1.14	.83
13	.36	.73	.81	1.46	.14	.11	1.78	.90	.91	1.56	1.18	.75
14	.34	.72	.84	1.43	.24	.00	1.67	.77	.89	1.60	1.04	.71
15	.31	.67	.82	1.26	.20	.22	1.96	.75	.88	1.54	.90	.79
16	.34	.69	.86	1.23	.23	.58	1.71	.72	.85	1.50	.84	.90
17	.35	.73	.86	1.18	.20	.65	1.66	.69	.80	1.70	.80	.94
18	.37	.78	.82	1.21	.25	.75	1.62	.76	.85	1.78	.85	.76
19	.42	.66	.77	1.17	.25	.83	1.58	.80	.88	1.81	.91	.73
20	.55	.61	.67	1.25	.34	.95	1.37	.76	.85	1.75	.98	.70
21	.59	.61	.61	1.38	.27	1.12	1.29	.66	.69	1.68	.90	.74
22	.64	.63	.57	1.41	.24	1.03	1.18	.65	.56	1.80	.87	.75
23	.62	.58	.59	1.31	.13	.95	1.07	.63	.48	1.65	1.02	.70
24	.55	.57	.61	1.07	+.03	1.12	1.10	.78	.43	1.67	1.09	.69
25	.53	.58	.55	.98	-.04	1.15	1.09	.87	.40	1.60	1.14	.80
26	.62	.67	.49	.91	.08	.97	1.32	.88	.38	1.50	.94	.84
27	.66	.84	.43	.80	-.11	.92	1.34	.78	.53	1.72	.82	.69
28	.68	.93	.39	.71	+.14	.91	1.27	.65	.63	1.78	.84	.65
29	.50		.42	.67	.16	.92	1.17	.87	.73	1.79	.93	.64
30	.35		.37	.66	.17	.91	1.43	1.10	.83	1.62	.98	.71
31	.24		.37		.10		1.43	1.09		1.49		.79

S68. City of Miami. Deer Run, Miami Springs. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 61 feet, cased to 51 feet. Land-surface datum is 6.45 feet above msl. Highest water level 7.06 above msl, Oct. 12, 1947; lowest 2.38 below msl, June 17, 1945. Records available: 1940-51. Water level affected by pumping of nearby wells.

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.02	-0.69	+0.05	-0.40	-0.14	-0.94	+0.02	+0.38	+0.43	+0.42	+0.87	+0.14
2	+.08	.62	.09	.30	.31	.94	+.03	.37	.35	.73	.64	.16
3	-.20	.50	+.11	.30	.38	.96	-.10	.29	.48	1.45	....	.23
4	.30	-.02	-.02	.12	.40	1.03	-.19	.52	.17	1.10	....	.15
5	.32	+.20	.08	.24	.47	1.19	+.04	.46	+.06	1.11	....	.16
6	.35	.20	.09	.37	.48	1.06	.26	.39	-.20	1.13	.42	.33
7	.28	.28	.16	.37	.48	.91	.23	.03	.38	1.06	.44	.33
8	.20	.24	.18	-.36	.60	.47	.27	.03	.42	.86	.38	+.16
9	.06	.19	-.18	+.20	.60	.46	.86	.30	-.12	.92	.36	-.02
10	.28	.18	+.04	.36	.66	.40	.79	.33	+.06	.92	.34	+.02
11	.38	.08	.01	.72	.74	.64	.94	.24	.14	.94	.13	+.07
12	.46	.23	.10	.71	.82	.76	.96	+.02	.30	.90	.18	-.14
13	.41	.14	.08	.70	.84	.84	.88	.00	.45	.94	.15	+.08
14	.42	.18	.08	.56	.57	.93	1.09	-.17	.23	.80	.05	.00
15	.29	+.02	+.10	.48	.44	.92	1.06	-.20	.18	1.13	.07	.02
16	.26	-.04	.00	.56	.40	.62	.95	+.12	.18	1.06	.16	+.12
17	.30	.16	-.08	.48	.48	-.21	.74	-.19	.10	1.18	+.08	.00
18	.41	-.11	.04	.50	.48	.00	.49	.20	.15	1.24	-.01	-.12
19	-.44	+.02	.14	.56	.41	+.12	.46	.25	.25	1.20	+.07	.18
20	.33	-.03	.21	.54	.45	.24	.58	.28	.15	1.09	+.13	.13
21	.27	.10	.12	.62	.57	.28	.86	.41	+.12	1.10	-.02	.18
22	.04	.17	.16	.69	.69	.21	.69	.37	-.01	1.10	-.02	.14
23	.02	.17	.20	.49	.85	.28	.68	-.38	.17	1.20	+.26	.25
24	.17	.20	.36	.29	.91	.24	.46	+.06	.20	1.14	.24	.04
25	-.10	.16	.35	.18	.88	.21	.24	-.12	.49	1.03	.25	.17
26	+.14	.05	.37	.12	.94	.17	.22	+.20	.68	.96	.10	.34
27	-.12	-.02	.41	.08	.92	.34	.46	-.27	.68	.99	+.08	.38
28	.14	+.08	.37	.16	.76	.31	.46	.32	.40	1.07	-.08	.04
29	.25		.50	+.20	.52	+.02	.50	-.08	-.12	1.03	+.08	.09
30	.45		.58	-.05	.70	-.04	.52	+.20	.00	.96	+.13	.09
31	.47		.46	.90	.90		+.53	.34		.86		-.07

S182. International Fruit Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 56 S., R. 40 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 51 feet. Land-surface datum is 11.14 feet above msl. Highest water level 10.06 above msl, Oct. 5, 1948; lowest 0.44 below msl, June 20, 1945. Records available: 1940-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.75	2.93	2.78	2.06	2.96	2.22	1.82	3.35	3.49	3.57	4.56	3.34
2	3.74	2.92	2.75	2.04	2.93	2.18	1.86	3.35	3.46	3.91	4.50	3.30
3	3.72	3.06	2.73	2.02	2.88	2.15	1.87	3.37	3.45	....	4.47	3.27
4	3.69	3.12	2.70	2.00	2.84	2.12	1.87	3.36	3.45	....	4.42	3.25
5	3.66	3.22	2.67	1.96	2.80	2.08	1.88	3.35	3.46	4.23	4.38	3.23
6	3.63	3.33	2.65	1.94	2.76	2.05	1.90	3.34	3.45	4.24	4.34	3.19
7	3.62	3.37	2.62	1.90	2.71	2.04	1.91	3.33	3.42	4.25	4.29	3.16
8	3.61	3.36	2.60	1.89	2.67	2.03	1.92	3.33	3.41	4.24	4.24	3.14
9	e3.57	3.36	2.58	1.96	2.63	2.01	2.04	3.35	3.46	4.24	4.18	3.11
10	e3.51	3.35	2.56	2.50	2.60	1.99	2.40	3.38	3.53	4.29	4.14	3.07
11	e3.47	3.34	2.54	....	2.54	1.95	....	3.39	3.57	4.29	4.09	3.04
12	3.44	3.33	2.51	....	2.52	1.91	....	3.42	3.58	4.27	4.05	3.00
13	3.42	3.28	2.49	3.07	2.47	1.87	3.01	3.44	3.58	4.27	4.00	2.96
14	3.40	3.25	2.47	3.15	2.49	1.83	3.06	3.51	3.58	4.27	3.97	2.92
15	3.38	3.23	2.44	3.20	2.52	1.85	3.17	3.54	3.56	4.27	3.92	2.90
16	3.36	3.18	2.40	3.24	2.50	1.92	3.20	3.55	3.55	4.55	3.87	2.88
17	3.32	3.15	2.38	3.25	2.48	1.95	3.25	3.55	3.58	4.75	3.84	2.95
18	3.29	3.12	2.35	3.26	2.53	1.97	3.39	3.54	3.61	....	3.81	2.97
19	3.26	3.09	2.34	3.27	2.54	2.02	....	3.51	3.62	5.01	3.78	2.99
20	3.24	3.05	2.30	3.27	2.55	2.04	3.49	3.50	3.62	5.01	3.72	2.99
21	3.22	3.02	2.28	3.27	2.55	2.05	3.48	3.43	3.60	4.99	3.68	2.97
22	3.19	2.98	2.26	3.26	2.53	2.04	3.48	3.41	3.59	5.00	3.63	2.95
23	3.17	2.95	2.22	3.24	2.51	2.03	3.46	3.40	3.57	4.97	3.59	2.92
24	3.14	2.93	2.20	3.20	2.47	2.02	3.44	3.54	3.51	4.93	3.56	2.89
25	3.12	2.91	2.17	3.18	2.43	1.96	e3.43	3.56	3.46	4.87	3.53	2.86
26	3.08	2.86	2.14	3.14	2.40	1.91	e3.42	3.56	3.43	4.83	3.49	2.84
27	3.06	2.83	2.11	3.12	2.37	1.87	3.40	3.54	3.40	4.78	3.46	2.80
28	3.04	2.81	2.08	3.08	2.35	1.85	3.38	3.52	3.42	4.74	3.42	2.77
29	3.00		2.06	3.05	2.33	1.85	3.37	3.51	3.43	4.70	3.40	2.75
30	2.98		2.06	3.01	2.30	1.83	3.33	3.50	3.46	4.65	3.36	2.73
31	2.95		2.08		2.26		3.31	3.50		4.61		2.70

e Estimated.

S196. University of Florida Experiment Station. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 56 S., R. 38 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 4 inches, depth 20 feet. Land-surface datum is 10.32 feet above msl. Highest water level 9.58 above msl, Oct. 5, 1933; lowest 1.23 below msl, June 20, 1945. Records available: 1932-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.20	2.15	2.15	1.09	2.05	1.45	1.35	4.17	3.82	3.78	3.79	2.46
2	3.27	2.14	2.12	1.06	2.00	1.38	1.32	3.87	3.80	4.60	3.74	2.44
3	3.27	2.22	2.09	1.05	1.95	1.34	1.28	3.76	3.72	4.74	3.69	2.42
4	3.23	2.44	2.06	1.04	1.90	1.28	1.22	4.64	3.66	4.69	3.69	2.39
5	3.18	2.54	2.02	1.01	1.83	1.22	1.20	4.57	3.63	4.57	3.63	2.37
6	3.14	2.82	1.96	.99	1.80	1.18	1.23	4.64	3.59	4.44	3.60	2.34
7	3.09	2.98	1.93	.96	1.74	1.18	1.29	5.24	3.54	4.37	3.58	2.30
8	3.07	2.96	1.90	.93	1.69	1.18	1.42	5.12	3.46	4.27	3.50	2.27
9	3.02	3.06	1.85	1.00	1.62	1.18	1.53	5.12	3.48	4.20	3.44	2.24
10	2.95	3.05	1.83	1.16	1.56	1.17	1.66	4.99	3.59	4.22	3.40	2.20
11	2.90	3.00	1.80	1.81	1.52	1.15	1.94	5.98	3.68	4.20	3.33	2.17
12	2.85	2.97	1.75	2.14	1.47	1.12	2.18	5.98	3.67	4.13	3.29	2.14
13	2.82	2.92	1.72	2.29	1.42	1.09	2.30	4.90	3.69	4.10	3.25	2.10
14	2.78	2.88	1.60	2.39	1.41	1.04	2.52	4.93	3.64	4.18	3.20	2.05
15	2.75	2.83	1.65	2.43	1.48	1.01	2.85	4.90	3.59	4.14	3.14	2.02
16	2.69	2.78	1.63	2.44	1.52	.97	2.92	4.82	3.64	4.09	3.08	1.99
17	2.66	2.72	1.60	2.42	1.55	1.04	3.02	4.70	3.78	4.32	3.04	1.95
18	2.64	2.67	1.56	2.40	1.84	1.28	3.22	4.55	3.80	4.45	2.98	1.94
19	2.60	2.64	1.54	2.37	1.90	1.48	3.33	4.45	3.77	4.45	2.96	1.92
20	2.55	2.58	1.49	2.33	1.93	1.58	3.32	4.34	3.71	4.38	2.91	1.90
21	2.53	2.55	1.45	2.33	1.94	1.64	3.32	4.22	3.66	4.31	2.88	1.88
22	2.49	2.48	1.42	2.32	1.94	1.64	3.35	4.15	3.55	4.15	2.82	1.86
23	2.46	2.43	1.39	2.32	1.92	1.62	3.30	4.04	3.49	4.19	2.80	1.83
24	2.43	2.39	1.37	2.30	1.88	1.62	3.30	3.99	3.43	4.09	2.73	1.81
25	2.40	2.35	1.35	2.27	1.83	1.59	3.27	3.92	3.38	4.02	2.68	1.79

S196--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	2.36	2.30	1.29	2.24	1.77	1.57	3.33	3.86	3.34	3.96	2.65	1.77
27	2.32	2.25	1.26	2.20	1.72	1.54	3.33	3.82	3.30	3.90	2.60	1.75
28	2.29	2.21	1.22	2.18	1.68	1.50	3.34	3.82	3.29	3.84	2.58	1.74
29	2.25		1.19	2.13	1.63	1.45	3.29	3.85	3.36	3.89	2.53	1.72
30	2.22		1.14	2.10	1.56	1.40	3.25	3.87	3.52	3.87	2.50	1.67
31	2.19		1.11		1.52		3.54	3.89		3.78		1.65

S539. U. S. Department of Agriculture. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 55 S., R. 40 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 8 inches, depth 29 feet. Land-surface datum is 16.97 feet above msl. Highest water level 5.99 above msl, Sept. 15, 1945; lowest 0.31 below msl, Mar. 31, 1950. Records available: 1945-51. Water level affected by tides in Biscayne Bay.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.78	0.40	0.54	0.48	0.60	0.58	0.33	0.34	0.03	1.34	1.41	1.14
2	.80	.23	.44	.51	.57	.58	.38	.35	1.03	1.60	1.30	1.19
3	.80	.42	.42	.50	.54	.43	.43	.40	.88	1.42	1.28	1.12
4	.66	.62	.44	.46	.46	.35	.46	.45	.80	1.46	1.12	1.07
5	.63	.94	.46	.51	.41	.28	.40	.46	.72	1.39	1.28	.97
6	.61	1.00	.46	.62	.36	.65	.32	.46	.68	1.28	1.37	.88
7	.63	.91	.46	.82	.37	.54	.36	.60	.61	1.17	1.31	.83
8	.45	....	.43	1.04	.37	.38	.50	.70	.58	1.11	1.12	.68
9	.47	.70	.50	.86	.38	.32	.64	.73	.66	1.10	1.16	.64
10	.63	.67	.55	1.12	.40	.24	.82	.67	.80	1.25	1.22	.53
11	.67	.52	.56	.90	.42	.37	.70	.64	.83	1.25	1.25	.50
12	.60	.50	.49	.86	.37	.38	.61	.63	.84	1.44	1.24	.48
13	.49	.46	.47	.76	.32	.38	.65	.62	....	1.58	1.26	.45
14	.46	.40	.47	.67	.45	.30	.57	.63	.88	1.64	1.24	.54
15	.43	.28	.44	.62	.56	.42	.60	.67	.90	1.65	1.16	....
16	.17	.26	.29	.70	.52	.53	.62	.62	.92	1.81	1.02	.38
17	.34	.30	.41	.77	.74	.52	.66	.65	.92	1.96	.90	.80
18	.43	.37	.45	.90	.74	.69	.67	.74	.89	1.90	.68	.74
19	.39	.39	.34	.98	1.04	.62	.65	.80	.83	1.74	.70	.60
20	.35	.50	.26	.88	.96	.57	.74	.79	.82	1.87	.86	.62
21	.35	.54	.31	.82	.96	.66	.76	.78	.82	1.78	.98	.56
22	.44	.63	.36	.80	.84	.73	.64	1.12	.84	1.65	1.12	.30
23	.51	.66	.42	.76	.74	.76	.62	.99	.80	1.55	1.12	.31
24	.55	.74	.52	.72	.76	.65	.60	.86	.76	1.52	1.05	.26
25	.57	.72	.55	.73	.67	.58	.66	.73	....	1.45	.91	.38
26	.48	.78	.55	.65	.74	.63	.74	.69	.84	1.41	.80	.37
27	.64	.71	.61	.55	.66	.54	.70	.80	.87	1.50	.84	.46
28	.67	.63	.66	.54	.68	.47	.64	.83	.96	1.57	.89	.73
29	.61		.60	.57	.72	.42	.54	.80	1.00	1.53	.90	.75
30	.49		.36	.59	.65	.38	.43	.87	1.02	1.52	1.02	.80
31	.37		.34		.65		.37	1.01		1.38		.74

Daily lowest water level, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.34	-0.06	+0.10	-0.01	+0.21	+0.16	0.00	+0.05	+0.66	+0.69	+0.92	+0.65
2	.35	-.07	+0.10	+0.11	.15	.16	+0.03	.04	.58	1.08	.84	.70
3	.42	+0.02	-.02	.08	+0.15	+0.06	.06	.06	.50	.96	.78	.68
4	.26	.02	.00	.02	-.02	-.01	.12	.12	.46	1.04	.74	.62
5	.15	.50	+0.02	.03	+0.02	.07	.06	.13	.39	.96	.77	.52
6	.15	.50	.02	.13	-.01	-.13	.03	.16	.37	.87	.97	.48
7	.14	....	.01	.33	.03	+0.15	.05	.20	.33	.80	.91	.43
8	.07	....	.00	.40	-.02	+0.04	.14	.32	.27	.74	.73	.35
9	.01	.24	.04	.38	.00	-.04	.35	.38	.30	.76	.70	.29
10	.04	.16	.09	.72	+0.04	-.06	.38	.33	.42	.85	.78	.20
11	.17	.10	.12	.52	.02	+0.03	.38	.28	.47	.85	.81	.14
12	.14	.11	.03	.46	.01	.07	.33	.29	.50	.85	.80	.13
13	.07	.06	.04	.46	.02	+0.01	.32	.26	....	1.06	.81	.11
14	+0.08	+0.02	.10	.39	.16	-.05	.27	.27	.50	1.14	.80	.12
15	.00	-.04	.00	.37	.22	-.10	.26	.27	.52	1.16	.73	.12
16	-.07	+0.06	.00	.37	.14	+0.14	.25	.23	.52	1.15	.65	.03
17	-.09	-.03	.00	.41	.18	.10	.27	.28	.51	1.53	.52	.29
18	+0.04	.02	+0.06	.45	.28	.06	.26	.35	.55	1.45	.39	.32
19	+0.01	-.01	.00	.50	.33	.19	.26	.42	.46	1.40	.36	.26
20	-.02	+0.03	-.08	.40	.45	.12	.31	.44	.52	1.46	.48	.26

S539--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	-0.04	+0.07	-0.09	+0.36	+0.42	+0.22	+0.33	+0.42	+0.53	+1.42	+0.68	+0.14
22	+0.05	.04	.12	.32	.34	.32	.30	.64	.55	1.33	.80	.08
23	.02	.14	-.03	.25	.28	.29	.27	.64	.52	1.24	.82	+0.02
24	.06	.24	+0.05	.26	.27	.24	.27	.55	....	1.24	.69	.00
25	.09	.24	.08	.27	.28	.21	.30	.47	....	1.14	.56	-.04
26	.04	.29	.06	.18	.28	.29	.40	.43	.53	1.10	.45	+0.01
27	.16	.22	.18	.15	.26	.18	.36	.49	.56	1.10	.38	-.04
28	.20	+0.21	.18	.15	.29	.17	.32	.52	.57	1.12	.42	+0.12
29	+0.11		+0.06	.15	.31	.10	.26	.47	.64	1.06	.44	.28
30	-.01		.00	.21	.25	.04	.14	.45	.65	1.00	.47	.33
31	-.02		-.02		.24		.08	.63		.89		.29

Duval County

12. Jacksonville Motor Transit Co. McCoy St. and Riverside Ave., Jacksonville. Drilled industrial artesian well in Floridan aquifer, diameter 6 inches, reported depth 785 feet. Land-surface datum is 8.34 feet above msl. Highest water level 32.1 above lsd, Nov. 25, 1938; lowest 22.7 above lsd, Aug. 2, 1950. Records available: 1938, 1940-42, 1944, 1946-51. Feb. 5, +27.8; Mar. 19, +26.3; May 8, +22.9; June 19, +22.7; Aug. 6, +22.8; Oct. 2, +24.0; Nov. 19, +27.8.

18. C. J. Price. Riverside Ave. and Lomax St., Jacksonville. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches. Land-surface datum is 4.48 feet above msl. Highest water level 43.2 above lsd, Nov. 26, 1938; lowest 31.2 above lsd, May 8, 1951. Records available: 1938, 1940-41, 1946-51. Feb. 5, +36.4; Mar. 19, +34.6; May 8, +31.2; June 19, +32.1; Aug. 6, +33.0; Oct. 2, +34.4; Nov. 19, +36.2.

89. C. F. Tresca. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 2 S., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 5 inches, reported depth 762 feet, cased to 509. Land-surface datum is 38.41 feet above msl. Highest water level 17.7 above lsd, June 7, 1939; lowest 10.1 above lsd, June 21, 1951. Records available: 1939-41, 1946-51. Feb. 6, +13.4; Mar. 21, +12.3; June 21, +10.1; Aug. 7, +10.8; Oct. 4, +10.9; Nov. 20, +10.4.

102. V. A. Stevens. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 2 S., R. 27 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 875 feet, cased to 400. Land-surface datum is 53.04 feet above msl. Highest water level 6.68 above lsd, Aug. 13, 1930; lowest 8.12 below lsd, May 8, 1951. Records available: 1930-31, 1934, 1939-42, 1946-51. Feb. 6, 3.11; Mar. 21, 4.13; May 8, 8.12; June 21, 5.92; Aug. 7, 5.15; Oct. 4, 4.66; Nov. 20, 6.83.

115. City of Jacksonville. Oxford Ave. and Baltic St., Ortega. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 729 feet, cased to 476. Land-surface datum is 16.12 feet above msl. Highest water level 40.2 above lsd, Aug. 22, 1930; lowest 25.4 above lsd, May 8, 1951. Records available: 1930-31, 1938, 1940-42, 1944-51. Mar. 19, +28.2; May 8, +25.4; June 19, +26.3; Aug. 6, +27.0; Oct. 2, +27.0; Nov. 19, +29.4.

118. City of Jacksonville. Post and Dancy Sts. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 900 feet. Land-surface datum is 24.59 feet above msl. Highest water level 34.5 above lsd, Apr. 7, 1942; lowest 25.8 above lsd, June 19, 1951. Records available: 1940-51. Feb. 5, +28.3; Mar. 13, +27.5; May 8, +26.0; June 19, +25.8; Aug. 6, +25.8; Oct. 2, +26.8; Nov. 19, +26.9.

122. City of Jacksonville. Russell and 63d Sts. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 905 feet, cased to 571. Land-surface datum is 14.87 feet above msl. Highest water level 47.5 above lsd, Aug. 21, 1930; lowest 35.9 above lsd, June 20, 1951. Mar. 19, +38.2; May 9, +37.0; June 20, +35.9; Aug. 7, +36.4; Oct. 4, +37.1; Nov. 20, +37.7. Records available: 1930, 1938, 1940-42, 1944-51.

123. City of Jacksonville. Beaver and Huron Sts. Drilled unused artesian well in the Floridan aquifer, diameter 10 inches, reported depth 1,075 feet. Land-surface datum is 22.78 feet above msl. Highest water level 39.7 above lsd, Aug. 13, 1930; lowest 26.1 above lsd, Nov. 19, 1951. Records available: 1930-31, 1938-51. Feb. 5, +30.3; Mar. 19, +30.0; May 7, +29.2; June 19, +28.3; Aug. 6, +27.9; Oct. 2, +28.7; Nov. 19, +26.1.

129. Jim Merrill. Ortega Blvd. and First St., Ortega. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 600 feet, cased to 470. Land-surface datum is 8.63 feet above msl. Highest water level 42.3 above lsd, July 9, 1940; lowest 27.8 above lsd, May 8, 1951. Records available: 1940-42, 1944-51. Feb. 5, +35.5; Mar. 13, +33.8; May 8, +27.8; June 19, +31.6; Aug. 6, +32.2; Oct. 2, +34.0; Nov. 19, +34.7.

131. G. C. Cole. SW $\frac{1}{4}$ sec. 10, T. 1 S., R. 26 E. Drilled domestic artesian well in the Floridan aquifer, diameter 6 to 4 inches, reported depth 725 feet, cased to 500. Land-surface datum is 17.86 feet above msl. Highest water level 43.0 above lsd, Apr. 10, 1934; lowest 30.3 above lsd, Apr. 18, 1950. Records available: 1934, 1940-42, 1944-51. Feb. 7, +34.5; Mar. 21, +33.7; May 9, +32.0; June 20, +30.8; Aug. 7, +30.5; Oct. 4, +32.2; Nov. 20, +33.0.

145. Duval County School Board. Oceanway School. Drilled public-supply artesian well in the Floridan aquifer, diameter 2 inches. Land-surface datum is 34.79 feet above msl. Highest water level 24.2 above lsd, June 3, 1947; lowest 15.6 above lsd, June 20, 1951. Records available: 1940-42, 1944-51. Feb. 7, +18.3; Mar. 21, +18.5; May 9, +16.5; June 20, +15.6; Aug. 7, +16.1; Oct. 4, +16.5; Nov. 20, +17.8.

147. V. C. Johnson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 1 N., R. 26 E. Drilled stock artesian well in Floridan aquifer, diameter 4 inches, depth 610 feet, cased to 446. Land-surface datum is 21.85 feet above msl. Highest water level, 34.6 above lsd, Feb. 6, 1941; lowest 18.3 above lsd, Oct. 4, 1951. Records available: 1940-42, 1944-51. Feb. 7, +26.6; Mar. 21, +26.8; May 9, +20.3; June 20, +20.8; Aug. 7, +22.1; Oct. 4, +18.3; Nov. 3, +21.0.

149. Mrs. W. M. Bostwick. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 800 feet. Land-surface datum is 29.22 feet above msl. Highest water level 28.5 above lsd, July 16, 1947; lowest 18.7 above lsd, May 9, 1951. Records available: 1940-41, 1944-51. Feb. 7, +23.9; Mar. 21, +22.7; May 9, +18.7; June 20, +20.7; Aug. 7, +19.1; Oct. 4, +22.6; Nov. 20, +22.5.

154. J. M. Shield. SW $\frac{1}{4}$ sec. 22, T. 3 S., R. 27 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 625 feet, cased to 461. Land-surface datum is 25.2 feet above msl. Highest water level 30.1 above lsd, July 15, 1947; lowest 22.1 above lsd, May 10, 1951. Records available: 1940-42, 1944, 1946-51. Feb. 6, +24.6; Mar. 19, +23.6; May 10, +22.1; June 21, +22.3; Aug. 7, +23.1; Oct. 3, +23.3; Nov. 21, +23.5.

160. City of Neptune Beach. Florida Ave. and 1st St. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 585 feet, cased to 357. Land-surface datum is 12.05 feet above msl. Highest water level 41.7 above lsd, June 15, 1934; lowest 25.5 above lsd, Nov. 20, 1951. Records available: 1934, 1939-42, 1944-51. Feb. 6, +30.9; Mar. 21, +32.3; May 8, +27.7; June 21, +28.2; Aug. 7, +26.5; Oct. 4, +26.4; Nov. 20, +25.5.

164. Ribault Club. Fort George Island. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches, reported depth 840 feet, cased to 450. Land-surface datum is 15.71 feet above msl. Highest water level 45.0 above lsd, Aug. 19, 1930; lowest 35.5 above lsd, Aug. 3, 1950. Records available: 1930-31, 1940-41, 1944-51. Feb. 7, +36.6; Mar. 22, +37.1; May 9, +35.9; June 22, +36.3; Aug. 7, +35.8; Oct. 4, +36.2; Nov. 20, +36.5.

206. John Harrell. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 3 S., R. 25 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 1700 feet, cased to 1000. Highest water level 2.07 below lsd, June 5, 1948; lowest 8.55 below lsd, Sept. 13, 1951. Records available: 1941-42, 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.62	5.78	6.36	6.65	7.36	8.18	8.21	8.23	8.38	7.75	7.25	6.70
2	5.55	6.02	6.41	6.53	7.37	8.20	8.18	8.20	8.43	7.50	7.19	6.62
3	5.49	6.03	6.44	6.55	7.27	8.18	8.16	8.18	8.43	7.48	7.26	6.55
4	5.52	6.00	6.47	6.65	7.28	8.23	8.10	8.16	8.38	7.60	7.33	6.41
5	5.62	6.01	6.57	6.71	7.33	8.31	8.04	8.22	8.40	7.67	7.32	6.44
6	5.57	5.93	6.63	6.70	7.47	8.31	8.05	8.19	8.39	7.66	7.17	6.53
7	5.45	5.79	6.56	6.50	7.56	8.30	8.05	8.08	8.37	7.66	7.08	6.62
8	5.56	6.06	6.53	6.47	7.68	8.27	8.02	8.03	8.39	7.69	7.20	6.65
9	5.72	6.07	6.69	6.53	7.75	8.25	7.98	8.05	8.42	7.67	7.23	6.65
10	5.72	6.13	6.80	6.57	7.77	8.18	7.98	8.13	8.40	7.66	7.15	6.60
11	5.65	6.09	6.74	6.63	7.72	8.14	8.01	8.19	8.45	7.76	7.07	6.50
12	5.71	5.99	6.49	6.68	7.71	8.24	8.05	8.24	8.48	7.82	6.98	6.49
13	5.74	6.05	6.40	6.79	7.87	8.33	8.12	8.25	8.49	7.82	6.90	6.60
14	5.62	6.10	6.48	6.84	8.02	8.35	8.18	8.31	8.49	7.73	6.86	6.59
15	5.52	6.14	6.53	6.88	8.04	8.30	8.24	8.36	8.43	7.58	6.85	6.55
16	5.77	6.14	6.54	6.88	7.90	8.27	8.29	8.38	8.32	7.56	6.83	6.82
17	5.82	6.09	6.60	6.96	7.85	8.22	8.39	8.39	8.20	7.56	6.92	6.80
18	5.77	6.08	6.58	7.05	7.92	8.23	8.42	8.39	8.10	7.52	7.02	6.48
19	5.77	6.08	6.55	7.00	7.94	8.17	8.39	8.38	8.10	7.45	6.96	6.56
20	5.77	6.02	6.62	7.11	7.92	8.12	8.37	8.34	8.10	7.41	7.01	6.46

206--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.76	5.93	6.59	7.19	7.92	8.07	8.40	8.36	8.08	7.39	7.04	6.42
22	5.83	6.09	6.60	7.12	7.96	8.08	8.40	8.40	8.02	7.36	6.99	6.62
23	5.78	6.18	6.58	7.09	7.94	8.17	8.35	8.43	7.95	7.34	6.85	6.62
24	5.70	6.20	6.51	7.14	7.94	8.27	8.31	8.43	7.98	7.31	6.75	6.63
25	5.73	6.20	6.57	7.13	8.00	8.23	8.33	8.41	7.95	7.38	6.75	6.56
26	5.88	6.19	6.62	7.16	7.94	8.26	8.39	8.38	7.93	7.42	6.66	6.42
27	5.93	6.22	6.65	7.24	7.85	8.35	8.40	8.33	7.92	7.33	6.62	6.53
28	5.94	6.28	6.66	7.28	7.74	8.35	8.40	8.35	7.94	7.19	6.65	6.54
29	5.88		6.58	7.23	7.78	8.31	8.36	8.35	7.96	7.21	6.66	6.44
30	5.85		6.59	7.25	7.91	8.25	8.30	8.37	7.92	7.29	6.72	6.40
31	5.85		6.72		8.05		8.28	8.37		7.30		6.44

Escambia County

45. U. S. Geol. Survey. Cantonment. Drilled observation artesian well in sand, diameter 4 inches, depth 152 feet. Highest water level 70.01 below lsd, Aug. 5, 1940; lowest 99.15 below lsd, Nov. 18, 1951. Records available: 1940-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	96.30	96.65	96.80	97.02	97.20	96.50	97.41	97.90	97.90	.....	98.29	98.10
2	96.20	97.05	96.78	96.85	97.17	96.46	97.48	97.88	97.99	.....	98.38	97.97
3	96.12	96.90	96.73	97.07	96.96	96.40	97.52	97.79	.....	.....	98.64	97.86
4	96.40	96.69	96.75	97.15	96.78	96.40	97.49	97.79	.....	.....	98.65	97.79
5	96.51	96.67	96.84	97.13	96.86	96.41	97.49	97.88	97.97	.....	98.59	97.78
6	96.39	96.46	96.95	96.94	97.10	96.37	97.48	97.94	98.02	.....	98.43	97.87
7	96.38	96.69	96.86	96.68	97.24	96.33	97.48	97.89	98.05	.....	98.61	98.04
8	96.61	96.90	96.80	96.89	97.29	96.36	97.48	97.79	98.08	.....	98.74	98.06
9	96.64	96.79	96.92	96.97	97.26	96.39	97.49	97.84	98.09	98.34	98.76	98.07
10	96.51	96.85	96.97	97.00	97.14	96.30	97.50	97.92	98.09	98.31	98.71	.....
11	96.49	96.82	96.87	96.99	97.05	96.23	97.52	97.94	98.16	98.39	98.64	.....
12	96.50	96.68	97.00	97.10	97.10	96.24	.....	97.96	98.16	98.45	98.53	.....
13	96.47	96.72	96.80	97.15	97.22	96.49	97.74	97.96	98.14	98.47	98.43	.....
14	96.25	96.78	96.84	97.16	97.37	96.65	97.73	97.96	98.16	98.44	98.38	.....
15	96.44	96.75	96.95	97.16	97.36	96.73	97.70	97.99	98.17	98.32	98.38	.....
16	96.73	96.73	96.94	97.11	97.03	96.77	97.67	97.97	98.14	98.29	98.58	.....
17	96.61	96.72	96.93	97.24	96.69	96.90	97.67	97.95	98.10	98.35	98.98	.....
18	96.48	96.68	96.86	97.12	96.65	96.99	97.68	97.95	98.19	98.38	99.08	.....
19	96.52	96.66	96.93	97.00	96.59	97.02	97.68	97.95	98.29	98.31	98.99	.....
20	96.55	96.51	97.18	97.19	96.50	97.02	97.73	97.95	98.38	98.23	99.02	.....
21	96.67	96.61	97.11	97.24	96.45	97.05	97.83	97.95	98.36	98.15	99.02	.....
22	96.67	96.73	97.10	97.19	96.40	97.09	97.93	97.97	98.27	98.14	98.98	.....
23	96.54	96.78	97.02	97.28	96.24	97.20	97.91	98.00	98.30	98.22	98.88	.....
24	96.49	96.79	97.00	97.28	96.26	97.36	97.83	98.00	98.30	98.28	.....	.....
25	96.63	96.76	97.10	97.28	96.29	97.35	97.81	98.02	98.25	98.38	.....	98.44
26	96.72	96.75	97.12	97.28	96.28	97.30	97.86	98.04	98.19	98.41	.....	98.33
27	96.66	96.74	96.94	97.28	96.34	97.35	97.86	97.99	98.20	98.29	98.67	98.76
28	96.70	96.73	96.76	97.24	96.28	97.39	97.74	98.00	98.28	98.16	98.52	98.72
29	96.65		96.75	97.10	96.34	97.41	97.75	98.02	98.30	98.25	98.46	98.50
30	96.66		97.04	97.10	96.41	97.40	97.80	97.96	.....	98.31	98.29	98.51
31	96.46		97.12		96.47		97.84	97.91		98.34		98.61

46. U. S. Geol. Survey. Ensley. Drilled observation artesian well in sand, diameter 4 inches, depth 239 feet. Land-surface datum is 131.52 feet above msl. Highest water level 56.45 below lsd, Sept. 23, 1948; lowest 72.87 below lsd, Mar. 9, 1944. Records available: 1939-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.46	70.97	71.55	71.90	71.78	71.63	71.65	72.08	.....	.....	72.09	72.37
2	70.40	71.26	71.56	71.74	71.79	71.60	.....	72.08	.....	72.25	72.08	72.31
3	70.33	71.20	71.54	71.90	71.70	71.57	71.75	72.05	.....	72.23	72.23	72.24
4	70.48	71.11	71.56	71.96	71.58	.....	71.75	72.05	.....	72.30	72.23	72.18
5	70.56	71.11	71.63	71.96	71.59	.....	71.75	72.09	.....	72.40	72.24	72.17
6	70.52	70.99	71.70	71.84	71.69	.....	71.75	.....	72.47	72.38	72.12	72.24
7	70.48	71.09	71.68	71.62	71.75	.....	71.73	72.15	72.48	72.37	72.20	72.37
8	70.64	71.29	71.64	71.73	71.79	.....	71.72	72.11	72.50	72.42	72.27	72.43
9	70.69	71.25	71.74	71.80	71.75	.....	71.76	72.14	72.51	72.40	72.29	72.46
10	70.64	71.29	71.79	71.80	71.65	.....	71.78	72.19	.....	72.35	72.25	72.48

46--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	70.60	71.31	71.75	71.80	71.59	.....	71.81	72.21	.....	72.40	72.20	72.41
12	70.63	71.24	71.68	71.88	71.61	71.56	71.84	72.23	.....	72.43	72.14	72.36
13	70.63	71.26	71.70	71.92	71.67	71.64	71.87	72.24	.....	72.43	72.05	72.40
14	70.52	71.32	71.75	71.93	71.77	71.64	71.89	72.20	.....	72.40	72.00	72.36
15	70.59	71.33	71.83	71.92	71.80	71.59	71.88	72.20	.....	72.34	71.99	72.50
16	70.80	71.31	71.85	71.85	71.67	71.55	71.88	72.21	.....	72.30	72.09	72.71
17	70.78	71.33	71.86	71.94	71.54	71.49	71.86	72.22	.....	72.32	72.32	72.65
18	70.70	71.33	71.76	71.90	71.56	71.53	71.88	72.24	.....	72.32	72.43	72.39
19	70.74	71.32	71.71	71.79	71.56	71.56	71.88	72.25	72.52	72.28	72.38	72.47
20	70.76	71.25	71.94	71.89	71.52	71.56	71.90	72.28	72.56	72.21	72.40	72.30
21	70.84	71.29	71.94	71.95	71.52	71.54	71.97	72.29	.....	72.20	72.40	72.37
22	70.89	71.39	71.95	71.85	71.53	71.54	72.04	72.30	.....	72.25	72.39	72.63
23	70.83	71.44	71.96	71.93	71.44	71.59	72.04	72.31	.....	72.25	72.31	72.64
24	70.80	71.46	71.88	71.94	71.45	71.65	71.98	72.32	.....	72.24	72.25	72.68
25	70.90	71.45	71.96	71.93	71.46	71.65	71.98	72.34	72.54	72.29	72.26	72.61
26	70.99	71.46	71.97	71.92	71.44	71.69	72.03	72.38	.....	72.29	72.25	72.59
27	70.97	71.48	71.86	71.91	71.49	71.62	72.01	72.37	.....	72.22	72.23	72.77
28	71.01	71.49	71.75	71.89	71.47	71.65	71.97	72.38	.....	72.12	72.28	72.74
29	71.00		71.69	71.77	71.51	71.65	71.94	72.40	.....	72.15	72.36	72.57
30	70.99		71.88	71.74	71.55	71.62	71.99	72.37	.....	72.20	72.40	72.55
31	70.90		71.96		71.59		72.04	72.32		72.19		72.61

60. U. S. Geol. Survey. At foot of H St. in Pensacola. Drilled observation artesian well in sand, diameter 4 inches, depth 178 feet. Land-surface datum is about 6.94 feet above msl. Highest water level 4.40 below lsd, May 11, 1949; lowest 13.79 below lsd, May 3, 1940. Records available: 1940-51.

Daily mean water level, below lsd, from recorder graph.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.24	9.25	9.63	9.45	9.40	9.63	9.62	10.06	10.03	8.26	8.01	6.90
2	9.23	....	9.65	9.45	9.41	9.69	9.60	10.08	10.02	8.13	7.98	6.87
3	9.23	....	9.66	9.45	9.43	9.73	9.60	10.11	....	8.11	7.93	6.79
4	9.22	....	9.67	9.44	9.45	9.76	9.61	10.12	....	8.12	7.77	6.64
5	9.21	....	9.68	9.45	9.46	9.79	9.61	10.13	9.95	8.15	7.59	6.63
6	9.21	....	9.69	9.45	9.47	9.83	9.63	10.14	9.96	8.17	7.48	6.63
7	9.20	9.47	9.70	9.46	9.48	9.86	9.65	10.14	9.96	8.19	7.38	6.63
8	9.20	9.48	9.72	9.37	9.48	9.89	9.65	10.14	9.96	8.16	7.37	6.63
9	9.21	9.50	9.73	9.35	9.48	9.92	....	10.14	9.95	8.10	7.38	6.62
10	9.22	9.50	9.75	9.33	9.49	9.95	9.67	10.13	9.92	8.12	7.30	6.58
11	9.22	....	9.76	9.32	9.49	9.97	....	10.13	9.91	8.23	7.08	6.58
12	9.22	....	9.76	9.33	9.48	9.99	....	10.12	9.89	8.35	....	6.60
13	9.22	....	9.78	9.33	9.47	10.03	....	10.09	9.87	8.42	6.75	6.64
14	9.22	9.55	9.80	9.34	9.47	10.08	....	10.08	9.86	8.40	6.74	6.66
15	9.22	9.55	9.81	9.34	9.48	10.11	....	10.08	9.82	8.30	6.75	6.68
16	9.24	9.56	9.83	9.35	9.48	10.11	....	10.08	9.73	8.29	6.76	6.70
17	9.25	9.56	9.85	9.35	9.48	10.10	9.85	10.08	....	8.30	6.80	6.72
18	9.25	9.56	9.84	9.35	9.50	10.07	9.88	10.08	....	8.31	6.83	6.73
19	9.25	9.55	....	9.35	9.51	10.02	9.90	10.08	....	8.34	6.88	6.75
20	9.24	9.56	....	9.35	9.52	....	9.90	10.08	....	8.35	6.88	6.77
21	9.23	9.57	9.62	9.36	9.53	....	9.91	10.08	....	8.32	6.89	6.78
22	9.23	9.58	9.62	9.37	9.54	....	9.92	10.08	....	8.19	6.90	6.81
23	9.24	9.59	9.61	9.35	9.55	....	9.92	10.08	....	8.18	6.89	6.83
24	9.24	9.60	9.61	9.34	9.55	....	9.93	10.08	....	8.20	6.88	6.85
25	9.24	9.61	9.58	9.35	9.55	....	9.94	10.08	8.63	8.19	6.85	6.85
26	9.25	9.61	9.56	9.36	9.55	9.58	9.96	10.08	8.66	8.19	6.82	6.83
27	9.25	9.62	9.55	9.38	9.53	9.58	9.98	10.04	8.67	8.18	6.83	6.83
28	9.25	9.62	9.52	9.40	9.48	9.59	10.00	10.02	8.67	8.13	6.85	6.84
29	9.24		9.47	9.40	9.48	9.60	10.01	10.03	8.63	8.01	6.87	6.85
30	9.25		9.45	9.40	9.52	9.61	10.03	10.03	8.47	7.99	6.89	6.82
31	9.25		9.45		9.58		10.05	10.04		8.01		6.80

60-A. U. S. Geol. Survey. At foot of H St. in Pensacola. Drilled observation water-table well in sand, diameter 4 inches, depth 18 feet. Land-surface datum is 7.20 feet above msl. Highest water level 3.04 below lsd, Apr. 26, 1944; lowest 6.88 below lsd, Sept. 4, 1951. Records available: 1940-51.

60-A--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	6.08	Apr. 10	5.08	July 9	5.76	Oct. 10	5.30
9	6.32	17	5.32	16	6.00	15	5.68
16	6.17	23	5.02	23	6.05	22	5.48
23	6.75	30	5.30	30	5.67	29	5.67
30	6.10	May 7	5.62	Aug. 6	6.10	Nov. 5	5.71
Feb. 6	6.33	14	5.66	13	5.82	12	5.52
13	6.22	21	5.72	20	5.79	19	5.87
20	5.95	28	5.61	27	5.62	26	5.70
27	6.02	June 4	5.72	Sept. 4	6.88	Dec. 3	5.52
Mar. 6	5.87	11	6.08	10	5.65	10	5.60
13	6.15	18	5.39	17	5.59	17	5.92
20	4.40	25	5.72	24	4.86	24	5.80
27	4.93	July 2	5.53	Oct. 1	4.87	31	5.64
Apr. 3	5.34						

62. U. S. Geol. Survey. Pensacola. Drilled observation artesian well in sand, diameter 6 inches, depth 142 feet. Land-surface datum is 13.95 feet above msl. Highest water level 6.05 below lsd, Mar. 30, 1949; lowest 17.58 below lsd, Sept. 3, 1943. Records available: 1940-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.20	13.75	14.20	13.45	.....	14.25	13.98	14.24	14.15	12.78	12.22	11.91
2	.....	13.79	14.24	13.45	.....	14.38	.....	14.27	14.06	12.65	12.26	11.90
3	.....	13.86	14.28	13.45	.....	14.42	13.98	14.30	13.92	12.60	12.27	11.80
4	.....	14.02	14.29	13.45	.....	14.44	14.03	14.36	.....	12.60	12.15	11.77
5	.....	14.11	14.29	13.46	.....	14.47	14.06	14.37	13.87	12.61	12.05	11.77
6	.....	14.15	14.29	13.47	.....	14.50	14.09	14.39	13.92	12.62	12.06	11.78
7	.....	14.16	14.30	13.43	.....	14.55	.....	14.40	13.95	12.62	12.05	11.78
8	.....	14.20	14.31	13.34	13.65	14.58	.....	14.40	13.96	12.51	12.06	11.78
9	.....	14.25	14.33	13.28	13.65	14.61	.....	14.40	13.96	12.39	12.09	11.76
10	13.36	14.23	14.37	13.26	13.65	.....	14.15	14.39	13.95	12.39	12.06	11.77
11	13.39	14.10	14.35	13.29	13.64	.....	14.19	14.34	13.96	12.42	11.78	11.76
12	13.49	14.03	14.24	13.34	13.62	14.63	14.23	14.26	14.00	12.49	11.50	11.80
13	13.59	14.02	14.23	13.39	13.57	14.66	14.28	14.22	14.05	12.56	11.46	11.86
14	13.59	14.03	14.24	13.43	13.53	14.69	14.32	14.24	14.08	12.51	11.50	11.92
15	13.54	14.04	14.26	13.44	13.52	14.72	14.34	14.27	14.06	12.28	11.53	11.96
16	13.54	14.08	14.28	13.43	13.53	14.72	14.35	14.28	13.97	12.25	11.59	11.96
17	13.59	14.09	14.29	13.42	13.53	14.52	14.39	14.29	13.82	12.29	11.66	11.97
18	13.63	14.07	14.27	13.44	13.56	14.12	14.47	14.30	13.60	12.34	11.70	12.02
19	13.65	13.94	13.97	13.45	13.65	14.01	14.52	14.31	13.62	12.40	11.70	12.09
20	13.67	13.95	13.87	13.46	13.70	14.00	14.51	14.30	13.67	12.41	11.71	12.14
21	13.66	14.02	13.76	13.48	13.71	13.95	14.50	14.30	13.69	12.40	11.73	12.20
22	13.65	14.08	13.80	13.50	13.73	13.89	14.50	14.30	13.62	12.26	11.76	12.24
23	13.65	14.13	13.73	.....	13.81	13.89	14.48	14.31	13.35	12.24	11.77	12.25
24	13.65	14.16	13.69	.....	13.89	13.89	14.45	14.24	13.10	12.28	11.78	12.25
25	13.66	14.17	13.57	.....	13.96	13.89	14.44	14.21	13.03	12.29	11.71	12.22
26	13.68	14.13	13.43	.....	14.02	13.90	14.44	14.17	13.07	12.30	11.66	12.16
27	13.72	14.11	13.44	.....	14.03	13.90	14.44	14.08	13.07	12.32	11.68	12.15
28	13.73	14.15	13.44	.....	13.95	13.93	14.44	14.05	13.06	12.25	11.74	12.18
29	13.73	.....	13.43	.....	13.97	13.95	14.43	14.09	13.04	12.12	11.81	12.21
30	13.73	.....	13.43	.....	14.05	13.96	14.38	14.13	12.95	12.12	11.87	12.10
31	13.74	.....	13.44	.....	14.13	.....	14.25	14.17	.....	12.15	.....	11.95

62-A. U. S. Geol. Survey. Pensacola. Drilled observation water-table well in sand, diameter 4 inches, depth 18 feet. Land-surface datum is 13.95 feet above msl. Highest water level 9.03 below lsd, July 16, 1940; lowest 13.10 below lsd, Feb. 20, 1951. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	12.80	Feb. 27	13.03	Apr. 23	11.80	June 18	12.37
9	12.59	Mar. 6	12.90	30	11.76	25	12.04
16	12.69	13	12.86	May 7	11.77	July 2	12.03
23	12.88	20	12.29	14	12.04	9	12.21
30	12.82	27	12.19	21	12.28	16	12.34
Feb. 6	12.88	Apr. 3	12.05	28	12.27	23	12.30
13	12.83	10	11.88	June 4	12.34	30	12.24
20	13.10	17	11.76	11	12.42	Aug. 6	12.29

62-A--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 13	12.21	Sept. 24	10.84	Oct. 29	11.82	Dec. 3	11.87
20	11.93	Oct. 1	11.10	Nov. 5	11.64	10	11.99
27	11.93	10	11.27	12	11.64	17	11.91
Sept. 4	11.99	15	11.34	19	11.63	24	11.93
10	12.06	22	11.74	26	11.83	31	12.35
17	11.97						

74. Chemstrand Corp. Sec. 30, T. 1 N., R. 30 W. Drilled observation artesian well in sand, diameter 4 to 2½ inches, depth 352 feet, screen at 260-270 and 340-350. Highest water level 76.36 below lsd, Dec. 5, 1951; lowest 77.06 below lsd, Dec. 17, 1951. Records available: 1951.

Nov. 11	76.89	Nov. 24	76.89	Dec. 8	76.58	Dec. 20	76.87
12	76.84	25	76.86	9	76.66	21	76.85
13	76.77	26	76.84	10	76.74	22	76.97
14	76.74	27	76.80	11	76.77	23	77.02
15	76.72	28	76.79	12	76.82	24	77.04
16	76.73	29	76.78	13	76.85	25	77.01
17	76.85	30	76.71	14	76.88	26	76.83
18	76.95	Dec. 1	76.60	15	76.88	27	76.74
19	76.98	2	76.52	16	77.02	28	76.74
20	77.01	3	76.45	17	77.06	29	76.71
21	77.02	6	76.40	18	76.94	30	76.70
22	77.02	7	76.48	19	76.94	31	76.73
23	76.97						

Flagler County

14. W. E. Kudna. NE¼SW¼ sec. 10, T. 12 S., R. 30 E. Drilled unused artesian well in Floridan aquifer, diameter 6 to 4 inches, reported depth 180 feet. Land-surface datum is 21.0 feet above msl. Highest water level 2.7 below lsd, Sept, 1947; lowest 5.89 below lsd, June 15, 1951. Records available: 1936-51.

Jan. 18	4.55	Apr. 26	5.40	July 27	5.58	Oct. 31	3.86
Feb. 8	4.27	June 15	5.89	Sept. 21	5.01	Dec. 21	4.27
Mar. 22	4.56						

Gadsden County

6. State of Florida. NW¼NW¼ sec. 18, T. 2 N., R. 3 W. Drilled public-supply artesian well in Floridan aquifer, diameter 7 to 4½ inches, reported depth 422 feet. Land-surface datum is 252 feet above msl. Highest water level 135.7 below lsd, Nov. 21, 1946; lowest 143.35 below lsd, Oct. 16, 1951. Jan. 2, 142.26; Feb. 19, 141.57; Apr. 2, 140.68; May 28, 141.88; July 10, 141.70; Oct. 16, 143.35; Dec. 4, 142.04. Records available: 1946-51.

Gulf County

30. Apalachicola Northern Railroad. NE¼NW¼ sec. 1, T. 7 S., R. 11 W. At Port St. Joe. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 563 feet. Highest water level 12.85 below lsd, Apr. 18, 1949; lowest 28.41 below lsd, July 3, 1948. Records available: 1946-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.10	25.77	26.48	26.14	27.10	26.60	26.48	26.41	26.04	25.47	25.48	25.20
2	24.39	25.80	26.60	26.17	26.85	26.72	26.33	26.46	25.85	25.25	25.40	24.96
3	24.00	26.00	26.68	26.31	26.70	26.74	26.69	26.46	25.71	25.30	25.60	24.90
4	23.32	25.88	26.58	26.40	26.60	26.70	26.43	26.50	24.64	25.40	25.57	24.93
5	22.23	25.05	26.57	26.30	26.64	26.82	25.39	26.43	23.97	25.60	25.46	24.98
6	21.20	26.09	26.80	25.90	26.60	26.91	25.28	26.32	23.81	25.91	25.22	25.11
7	20.85	26.15	26.87	25.57	26.69	26.90	25.48	26.36	24.00	25.84	25.31	25.18
8	21.49	26.29	26.90	25.61	26.81	26.64	25.63	26.37	24.45	25.60	25.48	25.31
9	22.55	26.25	26.98	25.88	26.89	26.40	25.63	26.51	24.63	25.53	25.41	25.13
10	23.52	26.20	27.06	25.99	26.80	26.38	25.95	26.47	24.72	25.43	25.88	25.28
11	23.75	25.90	26.97	26.00	26.80	26.50	26.19	26.44	24.91	25.45	25.28	25.28
12	24.18	26.00	26.88	26.00	26.70	26.44	26.30	26.41	25.07	25.44	25.10	25.14
13	24.40	26.03	26.90	25.99	26.58	26.58	26.40	26.38	25.20	25.39	25.08	25.23
14	24.36	26.18	26.61	26.06	26.71	26.71	26.51	26.32	25.28	25.45	25.15	25.21
15	24.60	26.19	26.50	25.88	26.81	26.65	26.42	26.11	25.36	25.48	25.86	25.20

30--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	24.87	26.24	26.55	25.85	26.92	26.58	26.58	26.01	25.40	25.62	26.15	25.09
17	25.09	26.20	26.70	26.08	26.94	26.53	26.67	25.79	25.25	25.60	26.45	25.20
18	25.09	25.87	26.55	26.11	26.99	26.42	26.58	25.45	25.25	25.50	26.10	25.08
19	25.22	26.05	26.17	25.99	27.00	26.47	26.57	25.57	25.22	25.51	25.85	25.09
20	25.37	26.10	26.25	26.04	26.94	26.59	26.58	25.42	25.25	25.51	25.58	24.89
21	25.33	26.10	26.40	26.20	26.98	26.57	26.60	25.57	25.37	25.49	25.60	24.95
22	25.55	26.18	26.50	26.05	27.20	26.47	26.55	25.62	25.48	25.62	25.37	25.32
23	25.50	26.24	26.52	26.04	27.21	26.55	26.58	25.78	25.45	25.79	25.25	25.36
24	25.60	26.33	26.50	26.30	27.02	26.55	26.57	25.88	25.50	25.71	25.29	25.01
25	25.70	26.26	26.48	26.45	27.03	26.33	26.56	25.78	25.60	25.91	25.14	23.50
26	25.76	26.24	26.48	26.62	26.79	26.30	26.56	25.67	25.75	26.15	25.20	22.70
27	25.70	26.29	26.32	26.62	26.32	26.32	26.71	25.57	25.72	26.00	25.22	23.25
28	25.62	25.38	26.05	26.70	26.19	26.29	26.60	25.68	25.70	25.69	25.12	23.80
29	25.55		25.98	26.62	26.20	26.65	26.14	25.73	25.69	25.75	25.08	24.07
30	25.75		25.89	26.52	26.43	26.65	26.10	25.98	25.61	25.75	25.14	24.06
31	25.86		26.18		26.56		26.32	25.87		25.62		24.33

Hendry County

3. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 48 S., R. 33 E. Jetted observation water-table well in shelly sand and gravel, diameter 6 inches, depth 10 feet, cased to 8 feet. Highest water level 0.90 above lsd, Oct. 2, 1951; lowest 4.37 below lsd, May 18, 1943. Records available: 1941-44, 1950-51.

Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.64	-2.20	-2.76	-3.63	-3.11	-3.54	-2.20	-0.45	-0.26	+0.15	-0.48	-0.83
2	1.65	1.60	2.80	3.68	3.16	3.61	2.34	.47	.41	.90	.50	.84
3	1.68	1.20	2.84	3.71	3.22	3.67	1.35	.57	.46	.54	.33	.84
4	1.70	1.67	2.86	3.75	3.25	3.73	1.64	.61	-.53	.39	.56	.83
5	1.73	1.75	2.90	3.77	3.30	3.79	1.82	.67	+.23	.29	.55	.84
6	1.76	1.80	2.93	3.80	3.35	3.84	2.00	.72	-.18	.22	.56	.88
7	1.78	1.90	2.95	3.80	3.42	3.87	.88	.71	.38	.14	.64	.92
8	1.89	1.99	2.97	3.83	3.46	3.91	.33	.76	.41	.08	.68	.92
9	1.93	2.02	3.01	3.84	3.51	3.95	.91	.77	.45	.26	.65	.92
10	1.94	2.07	3.05	3.45	3.55	4.00	1.03	.78	.50	+.07	.65	.93
11	1.96	2.10	3.07	3.26	3.47	4.04	.94	.80	.51	-.04	.67	.97
12	1.99	2.15	3.11	3.24	3.53	4.09	.84	.82	.57	.06	.67	1.04
13	2.02	2.19	2.97	3.24	3.56	4.12	1.10	.80	.61	.08	.69	1.05
14	2.04	2.23	3.00	3.27	3.26	4.00	1.19	.82	.65	.10	.70	1.05
15	1.91	2.27	3.08	3.34	3.25	3.83	1.28	.32	.69	.16	.70	1.06
16	2.09	2.30	3.14	3.40	3.33	3.80	1.32	.72	.70	.20	.26	1.13
17	2.10	2.33	3.18	3.45	3.41	3.84	1.36	.71	-.36	e.22	.49	1.13
18	2.11	2.37	3.21	2.64	3.47	3.90	.50	.20	+.06	e.25	.73	1.11
19	2.15	2.41	3.24	2.50	3.54	3.76	1.10	.62	-.50	e.27	.74	1.18
20	1.79	2.44	3.26	2.33	3.58	3.75	.64	.71	.59	e.30	.75	1.17
21	1.90	2.46	3.29	2.43	3.61	3.80	.48	.37	.66	e.31	.76	1.20
22	1.99	2.50	3.33	2.55	3.64	3.86	.50	.62	.69	e.34	.77	1.24
23	2.06	2.53	3.36	2.65	3.67	3.93	.60	.25	.74	e.35	.31	1.22
24	2.11	2.58	3.39	2.72	3.73	3.95	.72	.60	.75	e.14	.68	1.27
25	1.85	2.62	3.42	2.77	3.77	3.30	.64	.69	.76	e.14	.74	1.29
26	2.08	2.65	3.45	2.81	3.82	3.28	.12	.70	.80	e.25	.74	1.32
27	2.14	2.68	3.49	2.85	3.83	2.85	.60	.72	-.79	e.30	.76	1.37
28	2.17	2.74	3.52	2.90	3.29	2.63	.27	.54	+1.10	e.35	.76	1.44
29	2.19		3.55	2.97	3.28	2.50	.38	.70	.35	.40	.67	1.47
30	2.22		3.57	3.04	3.37	2.10	-.68	.30	.29	.41	.84	1.49
31	2.25		3.60		3.45		+.05	.60		.45		1.53

e Estimated.

5. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 44 S., R. 32 E. Jetted observation water-table well in sand and gravel, diameter 6 inches, depth 13 feet, cased to 8 feet. Highest water level 0.48 above lsd, Oct. 2, 1951; lowest 4.02 below lsd, Apr. 5, 1945. Records available: 1941-51.

Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-2.56	-2.90	-3.00	-3.39	-2.70	-3.23	-2.90	-0.55	-0.28	+0.04	-0.95	-1.64
2	2.58	2.50	3.03	3.41	2.70	3.25	2.96	.63	.33	.48	1.02	1.66
3	2.60	2.20	3.05	3.43	2.79	3.27	1.84	.68	.35	.40	.77	1.71
4	2.62	2.24	3.06	3.45	2.30	3.30	2.00	.75	.33	.25	1.09	1.76
5	2.63	2.25	3.09	3.46	2.44	3.35	2.06	-.40	.40	.15	1.16	1.75

5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	-2.64	-2.27	-3.11	-3.47	-2.54	-3.36	-2.08	....	-0.48	+0.06	-1.20	-1.79
7	2.65	2.33	3.12	3.46	2.64	3.40	2.17	....	.55	+ .03	1.24	1.84
8	2.67	2.37	3.14	3.50	2.70	3.10	1.55	....	.60	- .10	1.32	1.87
9	2.70	2.43	3.16	3.51	2.75	3.17	.81	....	.68	.13	1.37	1.90
10	2.72	2.45	3.17	3.30	2.80	3.23	1.00	....	.70	.02	1.40	1.93
11	2.73	2.49	3.20	3.26	2.85	3.28	.80	....	.75	.17	1.45	1.97
12	2.75	2.53	3.08	3.15	2.88	3.35	1.15	....	.82	.22	1.50	1.90
13	2.75	2.57	2.91	3.10	2.74	3.40	.40	....	.86	.26	1.54	2.03
14	2.77	2.60	2.94	3.13	2.77	3.29	.30	....	.89	.25	1.57	2.05
15	2.75	2.64	2.97	3.15	2.84	3.33	.37	....	.95	.29	1.59	2.07
16	2.79	2.67	3.02	3.20	2.89	3.37	.47	....	1.00	.30	1.59	2.10
17	2.80	2.70	3.05	3.24	2.93	3.41	.54	....	.68	.37	.75	2.12
18	2.81	2.73	3.10	2.85	2.95	3.35	.60	....	.40	.44	1.03	2.14
19	2.83	2.76	3.13	1.99	2.98	3.37	.34	....	.27	.48	1.15	2.15
20	2.72	2.80	3.14	1.95	3.01	3.35	.30	....	.32	.51	1.24	2.17
21	2.70	2.83	3.16	2.05	3.06	3.32	.26	....	.40	.57	1.31	2.20
22	2.73	2.84	3.21	2.15	2.95	3.38	.25	....	.43	.61	1.36	2.21
23	2.77	2.87	3.24	2.22	3.06	2.83	.30	....	.50	.65	1.40	2.23
24	2.80	2.90	3.25	2.30	3.10	2.86	.35	....	.57	.44	1.42	2.25
25	2.76	2.92	3.27	2.38	3.13	2.92	.40	....	.63	.42	1.47	2.25
26	2.80	2.95	3.30	2.43	3.16	2.97	.22	....	.70	.54	1.52	2.28
27	2.84	2.96	3.31	2.49	2.99	3.01	.27	....	.75	.62	1.55	2.30
28	2.85	2.98	3.35	2.54	2.96	3.09	.35	-0.53	.22	.70	1.55	2.30
29	2.87		3.36	2.60	3.06	3.05	.32	.39	.40	.78	1.34	2.32
30	2.89		3.30	2.66	3.13	2.94	.38	.39	-.09	.85	1.62	2.34
31	2.90		3.37		3.19		.47	.45		.90		2.35

Highlands County

9. U. S. Geol. Survey. At Avon Park Bombing Range. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 33 S., R. 31 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 26 feet, cased to 22 feet. Land-surface datum is 131 feet above msl. Highest water level 130.47 above msl, Aug. 1, 1951; lowest 125.27 above msl, Aug. 8, 1950. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	127.20	126.81	127.21	126.76	128.67	127.93	128.85	130.47	128.99	130.00	128.80	128.47
2	127.19	127.10	127.18	126.75	128.86	127.89	128.77	129.71	128.81	130.39	128.75	128.43
3	127.17	127.67	127.15	126.75	128.63	127.84	128.86	130.15	128.75	129.49	128.68	128.41
4	127.16	127.68	127.13	126.73	128.58	127.82	128.67	129.49	130.32	129.30	128.62	128.40
5	127.15	127.68	127.13	126.71	128.53	127.77	128.74	129.40	129.59	129.19	128.57	128.37
6	127.14	127.67	127.10	126.70	128.47	127.75	128.57	129.26	129.35	129.10	128.55	128.35
7	127.13	127.74	127.08	128.53	128.41	217.72	128.53	129.17	129.22	129.04	128.87	128.32
8	127.11	127.76	127.06	128.55	128.37	127.66	129.62	129.10	129.12	128.96	128.69	128.28
9	127.09	127.75	127.05	128.49	128.33	127.63	129.13	129.03	129.02	129.50	128.59	128.26
10	127.08	127.74	127.02	128.70	128.28	127.60	129.30	128.95	128.95	129.30	128.53	128.23
11	127.07	127.71	127.00	128.65	128.26	128.65	128.86	128.88	128.88	128.94	128.50	128.22
12	127.05	127.69	127.00	129.70	128.23	128.57	129.30	128.81	128.81	128.85	128.46	128.18
13	127.04	127.65	127.00	129.33	128.31	128.46	128.75	128.75	128.77	128.81	128.44	128.15
14	127.03	127.63	127.01	129.10	128.19	128.36	129.65	128.69	128.71	129.31	128.40	128.13
15	127.02	127.59	127.02	128.91	128.15	128.31	129.25	128.64	128.64	129.25	128.38	128.12
16	126.99	127.56	126.98	128.85	128.13	129.20	128.98	128.59	128.61	129.07	128.37	128.10
17	126.98	127.54	126.97	129.13	128.09	128.98	128.85	128.54	128.59	128.96	129.52	128.07
18	126.96	127.51	126.94	128.83	128.04	129.35	129.83	129.51	129.94	128.80	129.23	128.07
19	126.96	127.48	126.94	130.27	128.01	129.57	129.38	128.45	129.35	128.76	129.10	128.07
20	126.95	127.45	126.92	130.31	127.98	129.21	129.12	128.86	129.13	129.14	128.95	128.05
21	126.94	127.43	126.90	129.37	127.95	129.05	130.03	128.62	129.02	129.02	128.86	128.04
22	126.93	127.40	126.89	129.22	128.36	128.85	129.64	128.53	128.95	129.80	128.83	128.02
23	126.92	127.36	126.87	129.12	128.26	128.75	130.22	129.10	128.86	129.52	128.80	128.00
24	126.90	127.34	126.85	129.02	128.21	128.78	129.55	128.92	128.80	129.67	128.77	127.98
25	126.89	127.31	126.84	128.98	128.14	128.61	130.16	128.80	128.75	129.30	128.75	127.97
26	126.86	127.29	126.83	128.94	128.10	128.55	130.30	128.75	128.68	129.15	128.70	127.96
27	126.86	127.26	126.82	128.87	128.30	128.50	129.57	129.05	128.62	129.05	128.65	127.94
28	126.85	127.23	126.80	128.81	128.29	129.64	129.33	128.81	128.81	129.00	128.62	127.92
29	126.84		126.78	128.77	128.20	129.29	130.34	128.68	128.85	128.94	128.57	127.88
30	126.83		126.78	128.71	128.10	129.00	129.60	129.41	129.25	128.88	128.52	127.86
31	126.82		126.77		127.97		130.37	129.18		128.84		127.84

e Estimated.

10. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 35 S., R. 29 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 45 feet, cased to 41 feet. Land-surface datum is 118 feet above msl. Highest water level 92.72 above msl, Oct. 14, 1948; lowest 84.65 above msl, Apr. 6-8, 1951. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.82	85.40	85.12	84.72	86.39	86.32	85.75	87.70	88.07	87.71	88.20	87.67
2	85.81	85.39	85.10	84.70	86.42	86.30	85.75	87.77	88.03	87.72	88.18	87.65
3	85.80	85.36	85.08	84.69	86.45	86.28	85.72	87.83	88.01	87.74	88.14	87.65
4	85.79	85.35	85.07	84.67	86.47	86.26	85.71	87.87	88.04	87.79	88.12	87.63
5	85.77	85.35	85.06	84.67	86.49	86.25	85.72	87.92	87.97	87.86	88.10	87.62
6	85.76	85.34	85.05	84.65	86.50	86.23	85.75	87.94	87.96	87.93	88.08	87.60
7	85.75	85.34	85.04	84.65	86.52	86.20	85.85	87.98	87.96	87.99	88.06	87.57
8	85.74	85.33	85.02	84.65	86.53	86.18	85.79	88.01	87.95	88.05	88.03	87.56
9	85.71	85.32	85.00	84.69	86.54	.....	85.98	88.03	87.94	88.12	88.02	87.55
10	85.70	85.31	84.99	84.74	86.55	.....	86.11	88.06	87.92	88.18	88.00	87.53
11	85.69	85.30	84.98	84.80	86.56	.....	86.25	88.07	87.90	88.22	87.98	87.53
12	85.68	85.30	84.97	84.85	86.57	.....	86.38	88.09	87.89	88.27	87.96	87.50
13	85.66	85.29	84.95	84.90	86.58	.....	86.54	88.10	87.87	88.32	87.95	87.47
14	85.65	85.27	84.95	84.97	86.58	.....	86.66	88.13	87.86	88.35	87.93	87.47
15	85.64	85.26	84.94	85.05	86.58	.....	86.76	88.14	87.85	88.38	87.90	87.45
16	85.61	85.25	84.92	85.15	86.58	.....	86.85	88.14	87.84	88.40	87.88	87.43
17	85.60	85.25	84.90	85.25	86.59	.....	86.93	88.14	87.82	88.43	87.85	87.41
18	85.59	85.24	84.90	85.37	86.58	.....	87.04	88.14	87.81	88.43	87.83	87.40
19	85.57	85.23	84.88	85.47	86.57	.....	87.05	88.14	87.79	88.44	87.82	87.38
20	85.56	85.22	84.86	85.60	86.56	.....	87.10	88.15	87.78	88.44	87.81	87.37
21	85.55	85.21	84.85	85.73	86.55	.....	87.12	88.16	87.77	88.42	87.80	87.35
22	85.53	85.20	84.84	85.83	86.53	.....	87.13	88.16	87.76	88.40	87.79	87.33
23	85.52	85.17	84.83	85.93	86.52	.....	87.17	88.14	87.75	88.38	87.78	87.32
24	85.50	85.16	84.82	86.02	86.51	.....	87.21	88.13	87.75	88.37	87.77	87.30
25	85.48	85.15	84.81	86.09	86.47	.....	87.26	88.13	87.74	88.35	87.75	87.28
26	85.47	85.15	84.79	86.16	86.45	.....	87.33	88.12	87.73	88.33	87.75	87.27
27	85.45	85.14	84.78	86.23	86.44	.....	85.82	87.40	87.72	88.33	87.74	87.24
28	85.45	85.13	84.76	86.27	86.43	86.80	87.45	88.10	87.71	88.31	87.73	87.23
29	85.43		84.75	86.32	86.40	85.79	87.55	88.08	87.70	88.27	87.70	87.23
30	85.42		84.75	86.35	86.37	85.77	87.60	88.07	87.69	88.23	87.68	87.22
31	85.41		84.73		86.35		87.62	88.09		88.21		87.20

11. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 35 S., R. 31 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 16 feet, cased to 13 feet. Land-surface datum is 50.30 feet above msl. Highest water level 50.20 above msl, Oct. 2, 1951; lowest 45.10 above msl, Apr. 25, 1950. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.58	46.15	46.68	46.05	48.07	46.99	47.30	48.58	48.24	50.14	48.78	48.36
2	46.55	46.49	46.66	46.03	48.01	46.96	47.75	48.50	48.12	50.20	48.69	48.35
3	46.52	47.20	46.65	46.00	47.97	46.94	47.89	48.40	48.04	49.50	48.54	48.30
4	46.51	47.24	46.62	45.98	47.90	46.89	47.82	48.33	47.98	49.18	48.47	48.30
5	46.48	47.25	46.60	45.96	47.83	46.86	47.80	48.90	49.06	48.96	48.40	48.30
6	46.48	47.25	46.58	45.96	47.75	46.81	47.70	49.14	48.56	48.82	48.40	48.26
7	46.48	47.21	46.57	48.17	47.70	46.77	48.60	48.91	48.42	48.70	48.34	48.23
8	46.45	47.17	46.54	48.37	47.65	46.72	48.63	48.66	48.30	48.62	48.27	48.18
9	46.45	47.13	46.51	48.22	46.60	46.67	48.35	49.17	48.20	48.74	48.23	48.15
10	46.42	47.10	46.49	48.61	47.55	46.63	48.19	48.71	48.14	48.54	48.20	48.12
11	46.39	47.07	46.47	48.51	47.50	46.65	48.07	48.57	48.10	48.43	48.18	48.09
12	46.37	47.05	46.47	48.89	47.67	46.60	48.00	48.43	48.02	48.35	48.19	48.03
13	46.37	47.02	46.45	48.65	47.58	46.57	47.90	48.33	47.93	48.32	48.27	47.99
14	46.35	46.98	46.41	48.45	47.47	46.55	47.85	48.24	49.42	49.57	48.17	47.96
15	46.35	46.97	46.39	48.33	47.42	46.55	48.35	48.19	49.44	49.60	48.15	47.95
16	46.32	46.95	46.37	48.22	47.38	46.53	48.06	48.11	49.10	49.15	48.19	47.92
17	46.31	46.93	46.35	48.54	47.33	46.49	47.94	49.10	48.97	48.95	49.92	47.90
18	46.30	46.90	46.34	48.29	47.28	46.57	47.85	48.55	50.02	48.81	49.38	47.89
19	46.28	46.89	46.32	49.02	47.24	46.80	47.76	48.45	49.58	48.71	49.18	48.10
20	46.26	46.85	46.32	49.44	47.21	46.85	47.69	48.35	49.20	48.64	48.97	48.04
21	46.25	46.85	46.31	48.99	47.18	46.88	47.68	48.25	48.97	48.54	48.85	48.00
22	46.25	46.80	46.27	48.72	47.51	46.80	48.78	48.48	48.83	48.48	48.80	47.96
23	46.23	46.77	46.25	48.57	47.46	46.74	48.86	48.35	48.71	49.86	48.76	47.90
24	46.22	46.75	46.24	48.45	47.36	46.71	48.65	48.32	48.59	49.95	48.70	47.88
25	46.20	46.74	46.22	48.38	47.27	46.66	49.26	48.16	48.51	49.60	48.63	47.85

11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	46.19	46.70	46.20	48.35	47.20	46.55	48.95	48.10	48.45	49.42	48.58	47.84
27	46.19	46.74	46.17	48.29	47.19	46.62	48.71	48.04	48.39	49.59	48.54	47.82
28	46.17	46.70	46.15	48.23	47.24	46.63	48.55	48.02	48.88	49.30	48.51	47.79
29	46.17		46.13	48.19	47.15	46.65	48.95	48.17	49.85	49.12	48.45	47.76
30	46.16		46.10	48.11	47.09	46.60	49.14	48.03	49.95	48.96	48.38	47.72
31	46.16		46.08		47.03		48.80	48.41		48.87		47.70

12. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 36 S., R. 33 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18 feet. Land-surface datum is 45.60 feet above msl. Highest water level 45.85 above msl, Oct. 2, 1951; lowest 38.97 above msl, June 5, 1950. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.00	40.42	40.68	40.02	41.83	40.83	41.19	43.25	42.95	44.65	43.76	43.40
2	40.98	40.45	40.65	40.00	41.79	40.81	41.65	43.27	42.78	45.85	43.66	43.38
3	40.96	41.20	40.61	39.97	41.77	40.77	41.67	43.11	42.66	44.70	43.82	43.37
4	40.94	41.34	40.58	39.95	41.72	40.74	41.68	42.98	42.60	44.64	43.42	43.36
5	40.92	41.37	40.55	39.93	41.67	40.71	41.70	42.94	42.56	44.33	43.38	43.35
6	40.91	41.37	40.53	39.92	41.63	40.68	41.76	43.86	43.52	44.14	43.38	43.30
7	40.89	41.38	40.50	41.20	41.58	40.65	41.84	43.56	43.14	44.00	43.32	43.25
8	40.87	41.36	40.47	41.53	41.54	40.62	41.90	43.51	42.97	44.16	43.26	43.20
9	40.85	41.34	40.44	41.55	41.50	40.59	41.92	43.75	42.80	44.60	43.33	43.16
10	40.83	41.31	40.41	41.60	41.47	40.56	41.90	43.46	42.70	44.34	43.29	43.14
11	40.80	41.29	40.39	41.67	41.44	40.53	41.85	43.28	42.65	44.00	43.21	43.09
12	40.78	41.25	40.37	41.87	41.45	40.50	41.79	43.13	42.75	44.30	43.21	43.13
13	40.77	41.22	40.36	41.90	41.42	40.47	41.74	43.04	42.58	44.36	43.38	43.00
14	40.75	41.19	40.34	41.89	41.39	40.45	41.67	43.59	42.50	44.95	43.23	43.00
15	40.74	41.15	40.31	41.85	41.36	40.43	41.75	43.20	42.95	44.55	44.10	43.04
16	40.71	41.13	40.30	41.81	41.33	40.40	41.75	43.06	42.41	44.35	45.16	42.95
17	40.70	41.10	40.28	41.77	41.30	40.57	41.72	43.45	43.32	44.07	45.24	42.93
18	40.68	41.07	40.26	41.74	41.26	40.60	41.67	43.14	43.54	44.00	44.64	42.95
19	40.65	41.04	40.25	41.81	41.22	40.90	41.65	43.00	43.23	44.32	44.49	43.05
20	40.63	41.01	40.23	42.36	41.19	41.22	42.05	42.87	43.05	44.40	44.30	42.94
21	40.61	40.98	40.21	42.36	41.17	41.41	42.19	42.80	42.90	44.46	44.10	42.92
22	40.59	40.94	40.20	42.30	41.14	41.46	42.28	43.32	42.77	45.00	44.04	43.10
23	40.57	40.90	40.18	42.25	41.11	41.46	42.30	43.20	42.65	44.72	43.94	42.98
24	40.55	40.85	40.17	42.20	41.09	41.45	42.30	43.07	42.55	45.40	43.87	42.92
25	40.54	40.82	40.15	42.14	41.05	41.42	42.33	42.93	42.49	44.78	43.78	42.89
26	40.51	40.78	40.13	42.09	41.02	41.37	42.49	42.80	42.43	44.77	43.72	42.88
27	40.50	40.75	40.10	42.03	40.99	41.33	42.73	42.70	42.38	44.11	43.66	42.83
28	40.48	40.71	40.07	41.97	40.96	41.27	42.75	42.64	42.47	44.45	43.60	42.80
29	40.46		40.06	41.92	40.92	41.22	42.73	42.83	42.85	44.27	43.49	42.79
30	40.45		40.05	41.87	40.89	41.20	42.70	43.07	43.48	44.00	43.42	42.78
31	40.43		40.03		40.86		42.64	43.13		43.90		42.76

13. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 37 S., R. 33 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 16 feet. Land-surface datum is 29 feet above msl. Highest water level 29.40 above msl, Oct. 2, 1951; lowest 23.23 above msl, Apr. 6, 1951. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.18	23.73	24.05	23.32	25.08	24.63	25.39	26.60	26.33	28.70	27.34	26.47
2	24.15	24.08	24.01	23.30	25.08	24.58	25.53	26.93	26.29	29.40	27.20	26.44
3	24.14	24.80	23.99	23.28	24.99	24.55	25.64	26.60	26.18	28.78	27.28	26.40
4	24.13	24.87	23.95	23.25	24.93	24.50	25.65	26.45	26.06	28.50	26.98	26.38
5	24.13	24.88	23.93	23.24	24.87	24.46	25.60	26.42	25.95	28.19	26.90	26.38
6	24.12	24.88	23.89	23.23	24.81	24.42	25.50	26.33	25.84	27.96	26.87	26.33
7	24.10	24.86	23.85	23.59	24.77	24.37	25.43	26.95	25.75	27.78	26.77	26.30
8	24.05	24.83	23.83	23.90	24.72	24.33	25.90	26.60	25.70	27.61	26.70	26.27
9	24.05	24.80	23.79	24.00	24.68	24.28	25.97	26.45	25.62	27.58	26.64	26.26
10	24.03	24.77	23.75	24.15	24.63	24.23	26.08	26.35	25.56	28.74	26.60	26.23
11	24.00	24.73	23.73	24.28	24.60	24.20	26.12	26.30	26.47	28.16	26.55	26.20
12	23.98	24.70	23.72	24.50	24.57	24.23	26.13	26.20	26.40	27.85	26.52	26.17
13	23.97	24.65	23.73	24.61	25.73	24.18	26.00	26.16	26.30	27.72	26.47	25.13
14	23.96	24.62	23.69	24.65	25.71	24.14	25.91	26.41	26.23	29.00	26.44	26.11
15	23.95	24.58	23.65	24.65	25.63	24.13	25.81	26.18	26.12	28.65	26.42	26.10

13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	23.93	24.55	23.63	24.64	25.54	24.12	25.70	26.06	26.04	28.50	27.60	26.07
17	23.92	24.52	23.60	24.60	25.46	24.05	25.63	26.15	25.98	28.17	28.13	26.05
18	23.90	24.47	23.58	24.57	25.38	24.40	25.59	26.16	26.25	27.42	27.55	26.04
19	23.86	24.44	23.57	24.81	25.32	24.85	25.64	26.06	26.13	27.72	27.33	26.01
20	23.85	24.40	23.56	25.65	25.25	25.14	25.66	26.01	26.00	27.60	27.17	26.00
21	23.84	24.35	23.55	25.67	25.17	25.15	25.91	25.95	25.90	27.45	27.04	25.99
22	23.83	24.31	23.54	25.65	25.10	25.08	25.94	26.77	25.80	27.30	27.02	25.98
23	23.80	24.26	23.51	25.60	25.03	25.01	25.89	26.60	25.72	28.69	26.94	25.96
24	23.79	24.24	23.50	25.54	24.97	24.96	25.80	26.40	25.63	28.55	26.86	25.94
25	23.78	24.19	23.46	25.47	24.92	24.93	25.96	26.25	25.57	28.40	26.80	25.93
26	23.75	24.13	23.44	25.40	24.85	24.98	25.89	26.15	25.92	28.50	26.74	25.92
27	23.74	24.12	23.42	25.33	24.87	24.93	25.80	26.04	25.80	28.14	26.67	25.90
28	23.72	24.08	23.37	25.27	24.83	24.86	25.69	25.94	25.74	27.92	26.65	25.88
29	23.70		23.37	25.20	24.77	24.80	25.69	25.84	26.13	27.74	26.59	25.85
30	23.66		23.35	25.13	24.73	25.20	25.64	25.80	27.85	27.60	26.61	25.83
31	23.64		23.33		24.67		26.75	26.25		27.45		25.81

14. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 38 S., R. 30 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 35 feet, cased to 29 feet. Land-surface datum is 136 feet above msl. Highest water level 124.67 above msl, Oct. 8, 1948; lowest 114.50 above msl, July 1, 1951. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	116.29	115.87	115.58	115.25	114.98	114.73	114.50	116.73	117.75	117.41	121.09	120.67
2	116.28	115.86	115.57	115.24	114.98	114.73	114.51	116.77	117.74	120.80	121.08	120.65
3	116.26	115.87	115.56	115.23	114.97	114.72	114.52	116.80	117.73	121.22	121.04	120.64
4	116.25	115.87	115.55	115.21	114.96	114.71	114.52	116.88	117.72	121.32	121.02	120.62
5	116.23	115.85	115.54	115.20	114.95	114.70	114.52	117.09	117.71	121.36	121.00	120.60
6	116.22	115.85	115.53	115.19	114.95	114.68	114.53	117.37	117.70	121.36	121.00	120.57
7	116.21	115.83	115.52	115.19	114.94	114.67	114.55	117.60	117.69	121.35	120.97	120.55
8	116.19	115.81	115.51	115.17	114.93	114.66	114.56	117.74	117.68	121.33	120.95	120.53
9	116.18	115.80	115.50	115.16	114.92	114.65	114.60	117.82	117.66	121.34	120.93	120.52
10	116.16	115.79	115.49	115.15	114.92	114.64	114.62	117.87	117.64	121.29	120.92	120.50
11	116.15	115.78	115.48	115.15	114.91	114.63	114.66	117.90	117.63	121.24	120.90	120.49
12	116.14	115.76	115.47	115.14	114.90	114.62	114.79	117.92	117.62	121.22	120.89	120.47
13	116.13	115.75	115.46	115.13	114.89	114.61	114.99	117.93	117.60	121.19	120.87	120.45
14	116.12	115.74	115.45	115.12	114.88	114.60	115.15	117.94	117.59	121.19	120.85	120.43
15	116.11	115.73	115.44	115.10	114.87	114.59	115.27	117.94	117.58	121.17	120.83	120.40
16	116.09	115.72	115.42	115.10	114.86	114.58	115.37	117.94	117.57	121.15	120.82	120.38
17	116.08	115.71	115.41	115.10	114.85	114.57	115.45	117.93	117.56	121.18	120.80	120.37
18	116.07	115.70	115.40	115.08	114.85	114.57	115.51	117.92	117.55	121.20	120.84	120.36
19	116.05	115.69	115.39	115.07	114.84	114.56	115.57	117.90	117.54	121.21	120.85	120.34
20	116.04	115.68	115.38	115.05	114.83	114.56	115.61	117.89	117.53	121.21	120.83	120.33
21	116.03	115.67	115.37	115.05	114.83	114.55	115.64	117.89	117.52	121.19	120.80	120.30
22	116.02	115.66	115.36	115.04	114.82	114.55	115.67	117.86	117.51	121.18	120.80	120.27
23	116.00	115.65	115.35	115.03	114.81	114.54	115.75	117.85	117.50	121.18	120.79	120.26
24	115.99	115.64	115.34	115.02	114.80	114.54	115.89	117.84	117.50	121.17	120.78	120.24
25	115.98	115.63	115.33	115.01	114.79	114.53	116.06	117.82	117.49	121.16	120.75	120.22
26	115.96	115.61	115.32	115.00	114.78	114.53	116.22	117.81	117.48	121.16	120.75	120.20
27	115.95	115.60	115.31	114.99	114.77	114.52	116.35	117.80	117.44	121.15	120.74	120.17
28	115.93	115.60	115.30	114.97	114.76	114.51	116.45	117.78	117.42	121.15	120.73	120.16
29	115.92		115.28	115.08	114.75	114.51	116.51	117.78	117.42	121.14	120.70	120.14
30	115.90		115.27	114.99	114.75	114.51	116.62	117.78	117.41	121.12	120.68	120.13
31	115.89		115.26		114.74		116.68	117.77		121.10		120.10

e Estimated.

15. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 39 S., R. 30 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 19 feet. Land-surface datum is 58.50 feet above msl. Highest water level 58.39 above msl, Oct. 2, 1951; lowest 53.76 above msl, June 24, 1950. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.33	54.88	55.08	54.54	55.99	54.57	54.63	55.87	56.70	58.17	56.15	56.25
2	55.30	55.53	55.05	54.51	55.94	54.53	55.30	56.45	56.54	58.39	56.10	56.24
3	55.30	55.97	55.03	54.47	55.83	54.49	55.53	56.18	57.02	58.04	56.07	56.23
4	55.28	55.96	55.00	54.46	55.74	54.45	55.53	56.08	57.36	57.25	56.05	56.22
5	55.26	55.92	54.97	54.44	55.67	54.43	55.54	55.96	56.89	56.97	56.02	56.22

15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	55.25	55.89	54.94	54.43	55.60	54.40	55.55	55.90	56.60	56.80	56.02	56.19
7	55.23	55.84	54.92	54.43	55.53	54.36	55.47	56.72	56.42	56.68	56.05	56.16
8	55.18	55.77	54.90	54.43	55.45	54.33	55.65	56.38	56.32	56.58	55.98	56.13
9	55.17	55.72	54.88	54.43	55.42	54.31	55.68	56.22	56.25	58.10	55.95	56.12
10	55.16	55.68	54.86	54.61	55.38	54.28	55.65	56.71	56.18	57.78	55.94	56.10
11	55.15	55.64	54.84	54.80	55.35	54.25	56.17	56.43	56.10	57.16	55.91	56.07
12	55.13	55.60	54.83	54.92	55.34	54.23	55.95	56.27	56.03	56.88	55.90	56.03
13	55.12	55.56	54.84	54.99	55.27	54.20	55.85	56.20	55.99	56.78	55.87	56.00
14	55.12	55.52	54.84	55.00	55.20	54.17	55.79	56.30	55.92	57.83	55.87	55.99
15	55.10	55.48	54.84	55.00	55.16	54.15	55.69	56.57	55.85	57.30	55.86	55.97
16	55.08	55.45	54.81	54.98	55.12	54.13	55.57	56.84	55.82	57.77	55.86	55.93
17	55.06	55.41	54.80	54.95	55.08	54.10	55.49	56.53	55.87	56.93	57.97	55.91
18	55.05	55.37	54.79	55.05	55.03	54.08	55.45	56.32	56.46	56.74	57.23	55.91
19	55.04	55.35	54.76	56.05	55.00	54.20	55.39	56.29	56.23	56.63	56.88	55.85
20	55.03	55.31	54.75	56.02	54.96	54.23	55.60	56.22	56.06	56.60	56.72	55.84
21	55.02	55.28	54.75	55.90	54.92	54.24	55.56	56.09	55.98	56.50	56.62	55.83
22	55.00	55.25	54.73	55.80	54.87	54.24	55.75	56.00	55.87	56.44	56.56	55.80
25	54.99	55.21	54.71	55.70	54.84	54.23	55.79	55.92	55.79	56.43	56.51	55.78
24	54.97	55.19	54.70	55.60	54.80	54.18	55.65	55.85	55.73	56.39	56.47	55.77
25	54.94	55.16	54.67	56.00	54.77	54.11	55.59	55.82	55.69	56.32	56.42	55.76
26	54.93	55.12	54.65	56.60	54.73	54.08	55.53	55.78	55.65	56.30	56.40	55.75
27	54.92	55.12	54.62	56.45	54.72	54.10	55.50	55.70	55.58	56.29	56.39	55.74
28	54.91	55.10	54.58	56.43	54.70	54.30	55.55	55.63	55.82	56.26	56.39	55.74
29	54.90		54.57	56.26	54.65	54.40	55.40	55.79	56.65	56.25	56.31	55.73
30	54.89		54.56	56.10	54.63	54.55	56.14	56.40	58.03	56.22	56.26	55.71
31	54.89		54.55		54.58		56.05	56.94		56.20		55.69

Hillsborough County

13. City of St. Petersburg. $SE\frac{1}{4}SE\frac{1}{4}$ sec. 21, T. 27 S., R. 18 E. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, depth 300 feet. Land-surface datum is 56.09 feet above msl. Highest water level 4.92 below lsd, Sept. 23, 1947; lowest 11.45 below lsd, June 12, 1945. Records available: 1930-35, 1937, 1939-40, 1944-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.42	7.78	7.86	....	....	....	....	7.89	7.49	6.68	7.90	7.41
2	7.34	7.82	7.84	....	....	....	....	7.86	7.58	6.50	7.91	7.40
3	7.29	7.67	....	....	....	....	....	7.72	7.67	6.58	7.95	7.40
4	7.30	7.55	....	....	....	....	....	7.70	7.72	6.68	7.96	7.33
5	7.33	7.50	....	....	....	....	....	7.76	7.77	6.76	7.95	7.28
6	7.32	7.42	....	....	....	....	....	7.75	7.76	6.79	7.88	7.32
7	7.26	7.25	....	....	....	....	....	7.67	7.65	6.85	7.86	7.39
8	7.37	7.32	....	....	....	....	....	7.64	7.65	6.90	7.94	7.41
9	7.46	7.30	....	....	....	....	....	7.68	7.60	6.92	7.95	7.43
10	7.46	7.31	....	....	....	....	....	7.76	7.61	6.98	7.93	7.43
11	7.45	7.34	....	....	....	....	....	7.83	7.64	7.13	7.93	7.39
12	7.48	7.34	....	....	....	....	....	7.82	7.64	7.20	7.94	7.44
13	7.50	7.38	....	....	....	....	....	7.89	7.67	7.25	7.96	7.54
14	7.47	7.44	....	....	....	....	....	7.87	7.73	7.28	8.02	7.54
15	7.44	7.48	....	....	....	....	....	7.88	7.78	7.27	8.05	7.52
16	7.57	7.52	....	....	....	....	....	7.83	7.82	7.33	7.87	7.57
17	7.59	7.56	....	....	....	....	....	7.83	7.75	7.38	7.63	7.53
18	7.56	7.59	....	....	....	....	....	7.82	7.53	7.43	7.56	7.36
19	7.57	7.63	....	....	....	....	....	7.71	7.33	7.45	7.43	7.36
20	7.56	7.62	....	....	....	....	....	....	7.18	7.50	7.34	7.30
21	....	7.59	....	....	....	....	....	....	7.04	7.58	7.31	7.33
22	....	7.63	....	....	....	....	....	7.51	6.95	7.63	7.25	7.37
23	7.65	7.76	....	....	....	....	....	7.59	6.91	7.65	7.19	7.33
24	7.65	7.80	....	7.82	....	....	....	7.57	6.90	7.67	7.18	7.34
25	7.65	7.80	....	7.78	....	....	....	7.54	6.91	7.71	7.23	7.32
26	7.73	7.85	....	7.78	....	....	....	7.42	6.93	7.75	7.23	7.28
27	7.77	7.88	....	7.85	....	....	....	7.38	6.97	7.73	7.21	7.34
28	7.77	7.87	....	7.86	....	....	8.25	7.40	7.04	7.74	7.25	7.38
29	7.77	....	....	7.86	....	....	8.03	7.41	6.93	7.80	7.33	7.36
30	7.77	....	....	7.85	....	....	7.93	7.41	6.84	7.87	7.39	7.40
31	7.79	....	....	....	....	....	7.89	7.42	....	7.90	....	7.45

30. C. L. Councilman. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 31 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 500 feet, cased to 34. Land-surface datum is 6.82 feet above msl. Highest water level 13.02 above lsd, Sept. 6, 1950; lowest 4.08 above lsd, Dec. 14, 1951. Records available: 1950-51.

Daily mean water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.51	6.73	5.40	6.33	8.10	5.18	6.12	10.48	11.38	11.29	5.60	5.68
2	11.00	6.80	5.34	5.90	7.04	5.13	6.09	10.55	11.49	11.82	5.42	6.42
3	10.77	8.42	5.00	8.05	6.20	5.21	6.06	10.62	11.35	12.00	6.19	7.20
4	10.60	8.51	5.56	9.15	6.00	5.30	6.10	10.65	11.04	11.98	6.61	7.81
5	10.29	10.02	5.10	9.74	6.18	5.39	6.22	10.58	10.73	11.87	6.20	8.62
6	10.69	10.69	4.90	9.66	6.20	5.34	6.30	10.60	10.52	11.42	6.53	8.34
7	10.86	11.24	5.40	10.65	5.80	5.10	6.36	10.80	10.44	11.41	7.46	7.35
8	10.30	10.98	5.32	11.27	5.37	4.97	6.45	10.94	10.44	11.02	7.20	6.43
9	10.63	10.69	5.09	11.50	5.57	4.89	6.50	11.03	10.20	10.30	6.58	6.12
10	10.37	10.67	4.87	11.71	5.55	4.91	6.61	11.08	.....	10.03	6.58	5.58
11	10.43	10.50	4.92	11.92	5.32	4.90	6.70	11.07	.....	9.19	6.76	5.46
12	10.35	9.90	6.02	12.09	5.78	4.77	6.90	11.09	.....	8.95	6.12	5.28
13	10.09	8.70	8.50	11.99	7.29	4.62	7.23	11.09	.....	8.62	5.30	4.48
14	9.66	7.70	9.20	11.92	6.70	4.59	7.31	10.99	8.00	8.68	5.40	4.52
15	9.94	6.74	9.17	11.97	5.98	4.88	7.40	10.96	7.81	9.00	5.64	5.38
16	9.75	6.10	7.70	12.11	4.92	5.23	7.43	10.95	7.92	9.02	6.80	5.62
17	8.70	5.65	6.63	12.16	4.75	5.49	7.40	10.89	8.38	8.78	8.19	4.91
18	7.50	5.55	6.64	12.10	5.21	5.48	7.50	10.78	9.32	8.50	8.07	6.04
19	7.10	5.10	6.92	12.07	5.20	5.46	7.75	10.78	10.00	7.83	7.19	7.70
20	6.98	5.20	8.47	11.87	5.90	5.71	7.80	10.63	10.27	7.17	7.74	8.58
21	7.20	5.22	9.16	10.95	5.60	5.89	7.90	10.58	10.42	7.34	7.98	9.37
22	7.28	5.48	9.64	10.40	5.00	6.02	7.92	10.79	10.58	7.28	8.62	9.88
23	7.20	5.40	10.43	10.59	4.79	5.98	8.07	10.94	11.09	6.68	9.21	10.06
24	6.97	5.95	9.92	11.31	5.15	5.93	8.24	11.01	11.13	6.25	9.64	10.09
25	7.95	6.29	9.93	11.39	5.29	5.95	8.31	11.09	10.77	6.30	9.86	10.16
26	8.60	5.90	8.60	11.50	5.40	6.03	8.40	11.26	10.11	6.32	9.76	10.08
27	7.38	5.38	6.65	11.56	5.91	6.10	8.53	11.22	9.60	6.24	9.30	9.91
28	8.16	5.11	5.62	11.28	6.02	6.14	9.02	11.00	9.81	6.59	8.50	9.68
29	7.98		6.44	11.09	5.80	6.17	9.98	11.00	10.39	6.69	6.88	9.90
30	7.04		8.58	9.85	5.40	6.15	10.34	11.00	10.90	6.14	5.98	10.22
31	6.80		7.00		5.11		10.45	11.20		5.80		8.83

500. Paul Carter. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 32 S., R. 20 E. At Wimauma. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 330 feet, cased to 97. Land-surface datum is 87.85 feet above msl. Highest water level 49.00 below lsd, Oct. 16, 1951; lowest 50.64 below lsd, Dec. 22, 1951. Records available: 1951.

Daily mean water level, below lsd, from recorder graph

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.34	49.43	50.05	50.02	17	.....	49.58	49.32	50.33	50.54
2	49.36	49.10	50.07	49.96	18	.....	49.55	49.36	50.46	50.48
3	49.39	49.14	50.16	49.91	19	.....	49.64	49.35	50.46	50.47
4	49.39	49.22	50.30	49.84	20	.....	49.69	49.36	50.45	50.47
5	49.37	49.29	50.37	49.84	21	.....	49.62	49.44	50.48	50.49
6	49.35	49.22	50.35	49.91	22	.....	49.69	49.55	50.44	50.58
7	49.32	49.17	50.32	49.99	23	.....	49.72	49.66	50.59	50.57
8	49.29	49.13	50.40	50.02	24	.....	49.71	49.64	50.54	50.58
9	49.31	49.08	50.40	50.03	25	.....	49.68	49.60	50.72	50.54
10	49.34	49.03	50.35	50.02	26	.....	49.64	49.54	50.84	50.42
11	49.38	49.13	50.28	49.97	27	.....	49.60	49.50	50.79	50.41
12	49.40	49.15	50.27	50.04	28	.....	49.59	49.47	49.78	50.40
13	49.43	49.18	50.23	50.17	29	.....	49.53	49.45	49.86	50.29
14	49.50	49.18	50.21	50.26	30	.....	49.46	49.42	50.01	50.27
15	49.54	49.16	50.22	50.28	31	.....	49.40		50.04	50.27
16	49.57	49.25	50.25	50.48						

Holmes County

4. Mrs. D. Hughes. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 3 N., R. 17 W. At Ponce de Leon. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 187 feet. Land-surface datum is about 64 feet above msl. Highest water level 5.72 above lsd, Nov. 30, 1948; lowest 1.82 above lsd, Oct. 16, 1951. Records available: 1947-51.

4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	+2.59	Apr. 2	+3.58	July 10	+2.02	Oct. 16	+1.82
Feb. 19	+2.64	May 28	+2.42	Sept. 4	+1.87	Dec. 4	+2.46

7. Charles McAllister. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 7 N., R. 14 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 205 feet, cased to 170. Highest water level 8.09 below lsd, Apr. 12, 1949; lowest 13.08 below lsd, Oct. 31, 1951. Records available: 1947-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.77	11.67	11.93	11.42	11.53	11.83	11.81	12.08	12.41	12.34	13.00	12.45
2	11.72	11.82	11.93	11.34	11.55	11.76	11.82	12.07	12.45	12.28	12.91	12.43
3	11.67	11.76	11.92	11.42	11.52	11.71	11.79	12.07	12.50	12.33	12.92	12.39
4	11.75	11.69	11.92	11.46	11.47	11.71	11.75	12.09	12.51	12.40	12.87	12.29
5	11.79	11.71	11.97	11.47	11.50	11.72	11.73	12.15	12.53	12.46	12.82	12.27
6	11.76	11.65	11.99	11.43	11.59	11.73	11.73	12.18	12.52	12.49	12.70	12.29
7	11.64	11.65	11.94	11.31	11.66	11.75	11.75	12.14	12.52	12.51	12.68	12.34
8	11.72	11.80	11.92	11.38	11.71	11.80	11.76	12.08	12.53	12.57	12.71	12.34
9	11.78	11.76	11.99	11.42	11.72	11.84	11.78	12.07	12.55	12.57	12.70	12.33
10	11.72	11.78	12.04	11.43	11.69	11.83	11.83	12.10	12.51	12.59	12.66	12.33
11	11.64	11.77	12.00	11.44	11.65	11.82	11.87	12.11	12.52	12.65	12.62	12.26
12	11.65	11.72	11.86	11.46	11.66	11.88	11.91	12.12	12.49	12.71	12.57	12.23
13	11.64	11.74	11.80	11.50	11.71	11.94	11.96	12.14	12.46	12.75	12.52	12.28
14	11.53	11.78	11.81	11.52	11.79	11.93	11.96	12.13	12.43	12.75	12.51	12.24
15	11.54	11.78	11.84	11.54	11.82	11.92	11.98	12.11	12.40	12.74	12.45	12.28
16	11.69	11.79	11.84	11.53	11.75	11.94	11.99	12.08	12.36	12.75	12.42	12.41
17	11.67	11.80	11.85	11.60	11.71	11.92	12.01	12.07	12.32	12.80	12.50	12.33
18	11.61	11.80	11.79	11.58	11.78	11.92	12.05	12.08	12.31	12.82	12.50	12.14
19	11.63	11.80	11.69	11.51	11.81	11.88	12.08	12.09	12.35	12.83	12.45	12.19
20	11.65	11.75	11.72	11.54	11.82	11.81	12.11	12.10	12.38	12.82	12.45	12.06
21	11.68	11.74	11.64	11.53	11.85	11.72	12.16	12.13	12.37	12.85	12.45	12.05
22	11.71	11.82	11.63	11.46	11.89	11.67	12.20	12.15	12.32	12.91	12.44	.....
23	11.67	11.85	11.58	11.48	11.86	11.68	12.18	12.18	12.32	12.92	12.38	.....
24	11.62	11.88	11.54	11.47	11.89	11.74	12.16	12.22	12.32	12.94	12.36	.....
25	11.68	11.87	11.61	11.47	11.94	11.75	12.17	12.27	12.30	12.99	12.37	.....
26	11.73	11.87	11.62	11.48	11.92	11.74	12.17	12.30	12.28	13.02	12.36	.....
27	11.72	11.88	11.56	11.48	11.90	11.76	12.15	12.31	12.30	12.98	12.35	.....
28	11.73	11.89	11.50	11.50	11.84	11.81	12.19	12.34	12.32	12.95	12.39	.....
29	11.72		11.43	11.47	11.87	11.83	12.09	12.37	12.35	13.01	12.43	.....
30	11.70		11.45	11.48	11.89	11.81	12.07	12.38	12.37	13.04	12.46	.....
31	11.66		11.47		11.83		12.08	12.39		13.05		.....

Jackson County

15. Town of Campbellton. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 6 N., R. 12 W. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 315 feet. Highest water level 51.36 below lsd, Sept. 30, 1949; lowest 58.54 below lsd, Mar. 9, 1951. Records available: 1949-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.36	56.79	57.50	56.88	55.98	56.04	55.74	56.17	56.79	57.07	57.63	57.67
2	56.34	57.01	57.40	56.78	56.12	56.05	55.75	56.21	56.73	57.06	57.57	57.64
3	56.36	57.29	57.35	56.79	56.13	56.05	55.76	56.21	56.73	57.19	57.51	57.62
4	56.38	57.41	57.45	56.77	56.10	56.03	55.79	56.20	56.81	57.20	57.53	.....
5	56.42	57.42	57.52	56.80	56.01	56.10	55.78	56.38	56.80	57.25	57.57	.....
6	56.44	57.43	57.47	56.70	56.10	56.07	55.80	56.34	56.83	57.28	57.51	.....
7	56.33	57.37	57.45	56.55	56.28	56.12	55.85	56.28	56.80	57.32	57.51	.....
8	56.44	57.60	57.60	56.50	56.20	56.20	56.02	56.25	56.89	57.37	57.55	.....
9	56.53	57.61	57.56	56.48	56.19	56.14	56.00	56.21	57.06	57.38	57.59	.....
10	56.57	57.60	57.69	56.43	56.02	56.04	56.07	56.19	57.00	57.27	57.61	.....
11	56.50	57.62	57.50	56.39	55.99	56.00	56.01	56.26	56.86	57.29	57.63	.....
12	56.51	57.64	57.40	56.39	55.98	56.03	56.15	56.27	56.80	57.37	57.63	.....
13	56.56	57.51	57.38	56.38	56.06	55.98	56.09	56.27	56.84	57.47	57.59	.....
14	56.50	57.41	57.40	56.40	56.11	55.90	56.10	56.31	56.78	57.53	57.58	.....
15	56.45	57.35	57.44	56.43	56.14	55.84	56.14	56.25	56.75	57.54	57.47	.....

15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	56.56	57.33	57.53	56.30	56.13	55.83	56.17	56.24	56.74	57.57	57.45	.....
17	56.62	57.35	57.51	56.29	56.16	55.66	56.28	56.35	56.77	57.64	57.56	.....
18	56.61	57.31	57.41	56.30	56.15	55.58	56.39	56.29	56.73	57.56	57.60	.....
19	56.63	57.28	57.30	56.13	56.22	55.56	56.29	56.35	56.79	57.50	57.60	.....
20	56.73	57.27	57.28	56.08	56.21	55.69	56.40	56.38	56.83	57.55	57.65	.....
21	56.70	57.20	57.29	56.15	56.18	55.61	56.44	56.57	56.82	57.50	57.68	.....
22	56.75	57.31	57.35	56.10	56.20	55.70	56.45	56.58	56.84	57.47	57.69	.....
23	56.68	57.31	57.34	56.08	56.17	55.70	56.39	56.36	56.83	57.48	57.66	.....
24	56.56	57.37	57.30	56.06	56.22	55.76	56.33	56.52	56.85	57.48	57.62	.....
25	56.60	57.40	57.40	56.12	56.23	55.75	56.39	56.57	56.95	57.53	57.60	.....
26	56.71	57.35	57.31	56.08	56.19	55.80	56.47	56.58	56.96	57.68	57.57	.....
27	56.70	57.36	57.26	56.15	56.14	55.93	56.57	56.60	57.00	57.59	57.57	.....
28	56.78	57.43	57.20	56.06	56.12	55.88	56.51	56.70	57.02	57.54	57.57	.....
29	56.74		56.95	56.06	56.16	55.81	56.26	56.63	57.08	57.56	57.60	.....
30	56.90		56.91	56.04	56.10	55.74	56.14	56.78	57.13	57.60	57.64	.....
31	56.86		56.93		55.98		56.12	56.75		57.74		.....

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.18	57.72	58.29	57.63	56.96	56.84	56.55	56.98	57.54	57.82	58.37	58.35
2	57.24	57.99	58.30	57.50	56.99	56.89	56.54	56.99	57.49	57.82	58.12	58.33
3	57.19	58.13	58.39	57.58	56.97	56.84	56.56	56.99	57.59	57.95	58.18	58.34
4	57.26	58.17	58.36	57.58	56.99	56.90	56.56	57.03	57.56	58.02	58.21	.....
5	57.27	58.20	58.30	57.59	56.85	56.90	56.60	57.09	57.64	58.09	58.30	.....
6	57.31	58.18	58.30	57.50	56.94	56.93	56.59	57.01	57.64	58.10	58.24	.....
7	57.17	58.26	58.34	57.31	57.04	56.94	56.74	57.02	57.56	58.08	58.21	.....
8	57.33	58.29	58.46	57.30	57.04	56.92	56.81	57.02	57.67	58.13	58.29	.....
9	57.40	58.32	58.54	57.28	57.01	56.95	56.85	56.93	57.77	58.10	58.31	.....
10	57.37	58.36	58.51	57.23	57.00	56.88	56.90	57.03	57.75	58.11	58.38	.....
11	57.30	58.37	58.46	57.22	56.76	56.80	56.94	57.02	57.67	58.15	58.39	.....
12	57.31	58.36	58.18	57.21	56.80	56.84	56.94	57.04	57.56	58.24	58.34	.....
13	57.36	58.38	58.15	57.14	56.86	56.80	56.98	57.05	57.59	58.33	58.33	.....
14	57.28	58.20	58.20	57.31	56.90	56.70	57.04	57.09	57.52	58.30	58.28	.....
15	57.29	58.24	58.26	57.26	56.98	56.57	57.05	57.00	57.45	58.24	58.21	.....
16	57.45	58.14	58.31	57.06	56.95	56.59	57.09	57.11	57.46	58.40	58.20	.....
17	57.44	58.23	58.21	57.10	56.98	56.50	57.16	57.07	57.45	58.41	58.26	.....
18	57.40	58.10	58.28	57.12	57.01	56.60	57.21	57.19	57.51	58.38	58.31	.....
19	57.48	58.10	58.02	56.95	57.07	56.63	57.20	57.15	57.50	58.34	58.34	.....
20	57.57	58.09	58.09	56.91	57.06	56.50	57.19	57.19	57.52	58.40	58.41	.....
21	57.53	58.00	58.10	56.99	56.98	56.43	57.19	57.34	57.57	58.18	58.40	.....
22	57.58	58.08	58.12	56.89	57.00	56.52	57.23	57.34	57.54	58.17	58.41	.....
23	57.58	58.24	58.15	56.90	57.00	56.54	57.11	57.34	57.54	58.20	58.41	.....
24	57.65	58.23	58.14	56.87	57.07	56.55	57.12	57.27	57.59	58.22	58.34	.....
25	57.69	58.13	58.17	56.94	57.06	56.58	57.22	57.37	57.67	58.37	58.33	.....
26	57.70	58.21	58.16	56.91	56.99	56.69	57.34	57.37	57.69	58.43	58.32	.....
27	57.80	58.27	58.07	56.92	56.90	56.70	57.31	57.41	57.74	58.32	58.27	.....
28	57.81	58.21	57.98	56.95	56.92	56.70	57.31	57.45	57.78	58.30	58.29	.....
29	57.80		57.82	56.88	57.00	56.57	57.15	57.50	57.85	58.31	58.33	.....
30	57.71		57.72	56.89	57.00	56.56	56.86	57.55	57.85	58.45	58.36	.....
31	57.65		57.70		56.80		56.96	57.49		58.45		.....

23. Florida State Hospital. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 4 N., R. 7 W. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, depth 475 feet, cased to 100. Highest water level 36.86 below lsd, Dec. 29, 1951; lowest 43.76 below lsd, Nov. 2, 1951. Records available: 1950-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	41.55	.....	.....	.....	38.19	.....	e41.61	e42.75	43.05	43.75	41.67
2	.....	41.58	.....	.....	.....	38.22	.....	e41.64	e42.76	43.01	43.75	41.69
3	41.38	41.59	.....	39.10	.....	38.26	.....	e41.68	42.77	43.01	43.74	41.70
4	41.34	41.60	.....	38.97	.....	38.32	.....	e41.72	42.78	e43.03	43.70	41.72
5	41.30	41.61	.....	38.88	.....	38.38	.....	e41.75	42.80	43.07	43.65	41.70
6	41.26	41.61	.....	38.83	.....	38.44	.....	e41.80	42.84	43.10	43.58	41.66
7	41.23	41.61	.....	38.78	.....	38.51	.....	e41.84	42.87	e43.14	43.53	41.63
8	41.19	41.61	.....	38.82	.....	38.58	.....	e41.87	42.90	e43.18	43.50	41.58
9	41.17	41.60	.....	38.83	.....	38.64	.....	e41.92	42.94	e43.22	43.46	41.53
10	41.14	41.60	.....	38.84	.....	38.69	.....	e41.96	42.97	e43.26	43.44	41.48

23--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	41.13	41.60	.....	38.84	.....	38.75	40.52	e42.01	43.00	e43.29	43.41	41.44
12	41.13	41.60	.....	38.85	.....	38.82	e40.58	e42.06	43.02	e43.32	43.37	41.41
13	41.13	41.60	.....	38.86	.....	38.90	e40.65	42.10	43.05	e43.35	43.35	41.40
14	41.14	41.62	.....	.....	.....	38.96	e40.70	42.13	43.07	e43.38	43.34	41.38
15	41.15	41.63	.....	.....	.....	39.02	e40.76	e42.17	43.10	e43.42	43.28	41.37
16	41.18	41.65	.....	38.92	.....	39.07	e40.82	42.21	43.12	43.45	e42.65	e41.30
17	41.20	41.66	.....	.....	.....	39.13	e40.90	e42.25	43.15	43.48	41.99	e41.21
18	41.22	41.69	.....	.....	.....	39.18	e40.98	e42.29	43.17	43.50	41.68	41.12
19	41.24	41.71	.....	.....	.....	39.23	e41.05	e42.31	43.19	43.52	41.54	e41.03
20	41.26	41.72	.....	.....	.....	39.31	e41.13	e42.35	43.21	43.54	41.48	e40.92
21	41.28	41.74	.....	.....	.....	39.36	e41.20	e42.39	43.23	43.56	41.45	40.80
22	41.32	41.76	.....	.....	.....	39.39	e41.25	e42.42	43.25	43.57	41.44	40.55
23	41.34	.....	.....	.....	.....	39.46	e41.31	e42.45	43.26	43.59	41.42	40.24
24	41.36	.....	.....	.....	.....	39.54	e41.37	e42.49	43.28	43.60	41.43	39.81
25	41.39	.....	.....	.....	.....	39.59	e41.42	e42.52	43.29	43.63	41.44	39.02
26	41.42	.....	.....	.....	.....	39.67	e41.46	e42.55	43.30	43.65	41.47	38.16
27	41.44	.....	.....	.....	.....	39.75	e41.52	42.59	43.31	43.66	41.50	37.54
28	41.47	.....	.....	.....	.....	39.83	e41.56	42.63	43.30	43.67	41.55	37.06
29	41.49	.....	.....	.....	38.05	39.90	e41.58	e42.67	43.24	43.69	41.60	36.88
30	41.51	.....	.....	38.11	.....	.....	e41.56	e42.69	43.14	43.71	41.64	36.95
31	41.53	.....	.....	.....	38.15	.....	e41.60	e43.71	.....	43.74	.....	37.07

e Estimated.

Lake County

18. Maurice Brantley. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 17 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 190 feet. Land-surface datum is 99.2 feet above msl. Highest water level 49.6 below lsd, Nov. 1948; lowest 57.0 below lsd, Apr. 1936. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	51.92	Apr. 26	53.54	July 24	54.04	Oct. 31	56.02
Mar. 6	51.64	June 13	54.78	Sept. 19	53.95	Dec. 19	56.38

19. J. W. Jones. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 17 S., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 296 feet. Land-surface datum is 94.3 feet above msl. Highest water level 48.9 below lsd, Dec. 1947; lowest 54.9 below lsd, June 1939. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	50.95	Apr. 26	52.68	July 25	53.19	Oct. 31	52.25
Mar. 8	51.79	June 13	53.52	Sept. 19	52.61	Dec. 19	52.34

20. Margarite E. Wilson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 17 S., R. 29 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 252 feet. Land-surface datum is 10.7 feet above msl. Highest water level 11.3 above lsd, Oct. 1945; lowest 7.9 above lsd, Apr. 1939. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	+9.9	Apr. 26	+9.2	July 25	+8.8	Oct. 31	+9.5
Mar. 8	+7.0	June 13	+8.8	Sept. 19	+9.0	Dec. 19	+9.5

Lee County

246. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, T. 44 S., R. 25 E. Drilled observation water-table well in shell marl of Tami formation, diameter 8 inches, depth 27 feet, cased to 19 feet. Land-surface datum is 19.36 feet above msl. Highest water level 0.14 above lsd, Oct. 2, 1951; lowest 9.67 below lsd, June 8, 1949. Records available: 1945-51.

Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-4.56	-5.50	-5.50	-5.92	-5.35	-5.37	-3.06	-0.84	-0.98	-0.11	-1.91	-3.01
2	4.56	5.54	5.52	5.93	5.38	5.35	2.86	.40	1.17	+1.14	1.99	3.06
3	4.60	5.20	5.55	5.93	5.41	5.33	2.76	.64	.74	-.26	1.83	3.11
4	4.62	5.00	5.58	5.95	5.46	5.33	2.91	.80	1.28	.39	2.17	3.19
5	4.67	4.89	5.61	5.96	5.51	5.35	3.02	.59	.66	.56	2.26	3.26
6	4.70	4.83	5.62	5.97	5.57	5.36	3.06	.83	1.24	.68	2.27	3.32
7	4.72	4.80	5.64	5.97	5.61	5.38	2.12	.36	1.45	.74	1.67	3.39
8	4.78	4.85	5.67	6.00	5.66	5.42	2.25	.62	.61	.76	2.02	3.45
9	4.81	4.86	5.70	6.01	5.70	5.46	2.25	.78	1.36	.78	2.26	3.51
10	4.85	4.90	5.72	6.01	5.72	5.49	2.32	.61	1.03	.81	2.31	3.54

246--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	-4.88	-4.91	-5.73	-5.92	-5.76	-5.52	-1.28	-0.24	-1.45	....	-2.38	-3.62
12	4.91	4.94	5.74	5.83	5.80	5.58	1.38	.55	1.64	....	2.42	3.69
13	4.95	5.00	5.76	5.72	5.85	5.63	1.69	.24	1.42	....	2.46	3.76
14	4.96	5.04	5.77	5.63	5.88	5.67	.63	.56	1.85	-0.76	2.51	3.81
15	5.02	5.09	5.77	5.56	5.89	5.71	.94	.40	1.97	e.96	2.56	3.91
16	5.07	5.12	5.76	5.51	5.90	5.76	1.24	.60	1.96	.53	2.61	3.94
17	5.08	5.16	5.77	5.47	5.91	5.83	1.36	.70	2.12	.81	1.82	3.99
18	5.10	5.18	5.78	5.45	5.94	5.87	.80	.37	.45	....	2.13	4.03
19	5.12	5.19	5.79	5.42	5.96	5.90	.37	.76	.42	....	2.27	4.10
20	5.15	5.20	5.81	5.40	5.98	5.90	.30	.91	1.11	....	2.40	4.13
21	5.18	5.21	5.82	5.35	6.00	5.88	.38	.46	1.32	....	2.50	4.20
22	5.21	5.27	5.84	5.31	6.01	5.87	.31	.96	1.47	....	2.56	4.26
23	5.25	5.30	5.85	5.27	6.04	5.86	.40	.46	1.61	....	2.61	4.30
24	5.26	5.31	5.86	5.26	6.06	5.36	.41	.78	1.73	.56	2.65	4.35
25	5.31	5.34	5.87	5.24	6.08	4.17	.34	.98	1.44	.86	2.70	4.39
26	5.35	5.36	5.88	5.24	6.09	4.06	.61	.36	1.89	.74	2.73	4.43
27	5.37	5.41	5.89	5.26	6.11	4.09	.32	.73	1.93	e1.16	2.79	4.50
28	5.39	5.46	5.89	5.26	5.81	4.11	.43	.60	2.06	e1.46	2.84	4.51
29	5.41		5.90	5.28	5.59	3.68	.63	.92	.96	1.60	2.88	4.56
30	5.45		5.91	5.31	5.47	3.26	.43	1.06	.51	1.73	2.96	4.61
31	5.47		5.91		5.41		.66	.61		1.82		4.65

e Estimated.

367. J. H. Roediger. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 45 S., R. 24 E. Drilled irrigation artesian well in limestone of Floridan aquifer, diameter 6 inches, reported depth 1,060 feet. Highest water level 29.3 above lsd, Sept. 25, 1944; lowest 23.5 above lsd, Feb. 22, 1951. Records available: 1944, 1950-51. Feb. 19, +24.6; Feb. 22, +23.5; Sept. 18, +27.8.

414. Lee County and the City of Fort Myers. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 44 S., R. 26 E. Drilled unused water-table well in limestone of Hawthorn formation, diameter 8 inches, depth 94 feet, cased to 60 feet. Land-surface datum is 20.80 feet above msl. Highest water level 1.03 below lsd, Oct. 2, 1951; lowest 5.37 below lsd, Apr. 26, 1950. Records available: 1948-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.75	4.20	4.20	4.43	4.23	3.66	3.34	1.61	2.48	1.36	3.11	3.87
2	3.76	4.06	4.21	4.46	4.24	3.72	3.09	1.50	2.37	1.03	3.13	3.85
3	3.80	3.72	4.24	4.47	4.25	3.77	2.93	1.64	2.53	1.27	3.20	3.87
4	3.83	3.63	4.25	4.50	4.27	3.81	2.95	1.57	2.59	1.47	3.23	3.90
5	3.85	3.63	4.26	4.51	4.35	3.86	2.95	1.53	2.61	1.67	3.26	3.98
6	3.85	3.62	4.28	4.50	4.40	3.89	2.96	....	2.66	1.86	3.27	4.00
7	3.85	3.65	4.26	4.45	4.43	3.95	2.19	....	2.74	1.97	3.35	4.02
8	3.95	3.67	4.30	4.50	4.45	4.03	2.08	....	2.81	2.08	3.40	4.05
9	3.95	3.69	4.35	4.51	4.49	4.05	2.16	....	2.85	2.15	3.42	4.05
10	3.95	3.73	4.37	4.25	4.40	4.07	2.29	2.02	2.92	2.30	3.45	4.05
11	3.95	3.76	4.37	4.10	4.34	4.15	2.37	1.63	2.94	2.41	3.49	4.07
12	3.98	3.77	4.35	3.97	4.35	4.20	2.05	1.55	2.87	2.46	3.50	4.15
13	4.00	3.82	4.13	3.96	4.34	4.23	....	1.66	2.99	2.54	3.54	4.17
14	3.98	3.85	4.06	3.95	4.23	4.25	....	1.75	3.06	2.56	3.63	4.21
15	3.98	3.88	4.04	3.97	4.18	4.27	....	1.84	3.12	2.57	3.74	4.24
16	4.01	3.90	4.05	4.03	4.17	4.35	....	1.73	3.15	2.33	3.76	4.23
17	4.00	3.93	4.10	4.04	4.23	4.38	....	1.90	3.20	2.41	3.50	4.37
18	4.01	3.96	4.13	4.05	4.27	4.42	....	1.68	2.58	2.48	3.40	4.35
19	4.03	3.98	4.15	3.89	4.33	4.29	....	1.84	2.24	2.57	3.37	4.40
20	4.04	3.99	4.15	3.85	4.35	4.27	....	1.99	2.31	2.62	3.43	4.35
21	4.05	4.01	4.16	3.85	4.40	4.31	....	1.86	2.43	2.67	3.50	4.42
22	4.06	4.05	4.19	3.89	4.42	4.35	....	1.80	2.51	2.74	3.58	4.45
23	4.07	4.06	4.20	3.90	4.43	4.40	....	1.90	2.61	2.78	3.64	4.42
24	4.07	4.07	4.21	3.95	4.48	4.16	....	1.80	2.66	2.79	3.68	4.45
25	4.12	4.10	4.24	4.00	4.51	4.05	....	1.99	2.74	2.78	3.69	4.47
26	4.15	4.15	4.25	4.04	4.55	4.05	....	2.10	2.82	2.82	3.65	4.50
27	4.15	4.15	4.30	4.08	4.56	4.07	....	2.23	2.86	2.86	3.69	4.54
28	4.15	4.19	4.33	4.13	3.54	4.10	....	2.27	2.82	2.92	3.75	4.48
29	4.15		4.35	4.15	3.48	3.70	....	2.23	2.60	2.98	3.77	4.45
30	4.17		4.40	4.20	3.55	3.40	....	2.37	2.50	3.05	3.80	4.45
31	4.18		4.41		3.61		1.80	2.44		3.08		4.42

Leon County

5. City of Tallahassee. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 1 S., R. 1 W. Gadsden and Gaines St., Tallahassee. Drilled public-supply artesian well in Floridan aquifer, diameter 22 to 20 inches, depth 235 feet. Land-surface datum is 125.54 feet above msl. Highest water level 88.3 below lsd, Apr. 22, 1948; lowest 106.1 below lsd, Feb. 7, 1935. Records available: 1931-51.

Daily water level below lsd

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	105.1	105.7	104.6	104.6	105.2	105.4	105.5	104.3	104.8	105.1	105.2
2	104.3	105.1	105.7	104.6	104.6	105.2	105.3	105.5	104.3	104.8	105.1	.....
3	104.3	105.1	105.8	104.5	104.7	105.2	105.3	105.5	104.4	104.9	105.1	105.2
4	104.5	105.1	105.8	104.4	.....	105.2	105.3	105.5	104.4	104.9	105.1	105.2
5	104.6	105.2	105.8	104.4	104.8	105.2	105.3	105.5	104.5	104.9	105.1	105.2
6	104.6	105.2	105.9	104.3	104.8	105.2	105.4	105.5	104.5	104.9	105.1	105.2
7	104.6	105.2	105.9	104.2	104.8	105.2	105.4	105.5	104.5	104.9	105.1	105.2
8	104.6	105.3	105.9	104.2	104.8	105.2	105.4	105.5	104.5	104.9	105.1	105.2
9	104.6	105.3	105.9	104.2	104.8	105.4	105.4	105.5	104.1	104.9	105.1	105.2
10	104.6	105.3	105.8	104.2	104.9	105.4	105.4	105.4	104.6	104.9	105.1	105.2
11	104.6	105.4	105.8	104.1	104.9	105.4	105.4	105.1	104.6	104.9	105.1	105.2
12	104.7	105.4	105.7	104.2	104.9	105.4	105.4	105.1	104.6	104.9	105.1	105.2
13	104.7	105.4	105.7	104.3	104.9	105.5	105.4	103.9	104.6	105.0	105.1	105.2
14	104.7	105.5	105.7	104.3	105.0	105.5	105.4	103.8	104.6	105.0	105.1	105.3
15	104.7	105.5	105.8	104.4	105.0	105.5	105.4	103.7	104.6	105.0	105.1	105.3
16	104.8	105.5	105.9	104.2	105.0	105.6	105.4	103.6	104.6	105.0	105.1	105.3
17	104.8	105.5	105.9	104.3	105.1	105.6	105.4	103.6	104.6	105.1	105.2	105.3
18	104.8	105.6	105.9	104.2	105.1	105.6	105.4	103.6	104.6	105.1	105.2	105.3
19	104.8	105.6	105.7	104.1	105.1	105.5	105.4	103.6	104.6	105.1	105.2	105.3
20	104.8	105.6	105.7	104.2	105.1	105.5	105.4	103.6	104.6	105.1	105.2	105.3
21	104.8	105.6	105.6	104.3	105.1	105.5	105.4	103.6	104.7	.....	105.2	105.3
22	104.8	105.6	105.6	104.3	105.1	105.5	105.4	103.6	104.7	105.1	105.2	105.3
23	104.8	105.6	105.5	104.4	105.1	105.6	105.4	103.6	104.6	105.1	105.2	105.3
24	104.9	105.6	105.4	104.4	105.1	105.6	105.5	104.1	104.8	105.1	105.2	105.3
25	104.9	105.6	105.4	104.5	105.1	105.6	105.5	104.1	104.8	105.1	105.2	105.3
26	105.1	105.6	105.4	104.5	105.1	105.5	105.5	104.1	104.8	105.1	105.2	105.3
27	105.1	105.7	105.2	104.5	105.2	105.5	105.5	104.1	104.8	105.1	105.2	105.3
28	105.1	105.7	105.1	104.6	105.2	105.5	105.2	104.2	104.8	105.1	105.2	105.3
29	105.2	.....	105.1	104.6	105.2	105.5	105.5	104.3	104.8	105.1	105.2	105.3
30	105.2	.....	105.0	104.6	105.2	105.5	105.5	104.3	104.8	105.1	105.2	105.3
31	105.2	.....	104.7	.....	105.2	.....	105.5	104.3	.....	105.1	.....	105.3

7. City of Tallahassee. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 1 N., R. 1 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 211 feet. Land-surface datum is 186.5 feet above msl. Highest water level 148.84 below lsd, Apr. 26, 1948; lowest 167.60 below lsd, July 5, 1945. Records available: 1945-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	164.06	165.20	165.92	164.62	164.81	165.41	165.56	165.47	164.65	164.84	165.55	163.54
2	164.56	165.41	165.92	164.57	164.77	165.41	165.57	165.48	164.65	164.82	165.53	163.49
3	164.56	165.38	165.93	.....	164.71	165.40	.....	165.48	164.68	164.88	165.59	.....
4	164.59	165.34	165.93	.....	164.68	.....	165.50	165.48	164.70	164.95	165.62	163.36
5	164.66	165.42	.....	.....	164.69	.....	165.48	165.51	.....	165.03	165.63	163.43
6	164.62	165.38	166.00	164.45	164.84	165.48	165.47	165.47	.....	165.02	165.54	163.44
7	164.58	165.32	165.98	164.35	164.85	165.49	165.42	165.42	.....	165.05	165.58	163.48
8	164.71	165.52	165.97	164.37	164.90	165.54	165.36	165.35	.....	165.08	165.66	163.45
9	164.75	165.50	166.05	164.41	164.90	165.55	165.36	165.37	.....	165.10	165.67	163.45
10	164.74	165.53	166.10	164.42	164.89	165.51	165.36	165.30	.....	165.18	165.68	163.44
11	164.71	165.53	166.02	164.39	164.85	165.51	165.35	165.22	164.74	165.17	165.68	163.38
12	.....	.....	165.98	164.37	164.86	165.54	165.35	165.16	164.79	165.22	165.65	163.38
13	.....	.....	166.00	164.45	164.93	165.80	165.33	.....	164.77	165.25	.....	163.45
14	.....	165.61	166.07	164.44	165.02	165.65	165.35	165.08	164.77	165.25	165.65	163.40
15	.....	165.62	166.14	164.41	165.08	165.62	165.33	165.01	164.77	165.24	165.65	163.37
16	.....	165.64	166.13	164.39	165.00	165.62	.....	164.95	164.74	165.34	165.10	.....
17	164.92	165.64	166.15	164.42	164.99	165.62	165.38	164.88	.....	165.42	165.02	.....
18	164.93	165.66	166.08	164.45	165.08	165.65	165.34	164.84	164.75	165.43	164.79	163.38
19	164.95	165.58	165.96	164.40	165.12	165.65	165.36	164.75	164.80	165.43	164.58	163.43
20	164.98	165.65	165.65	164.45	165.12	165.66	165.37	164.74	164.81	165.44	164.43	163.36
21	164.98	165.60	165.53	164.50	165.16	165.63	165.37	164.72	164.82	165.45	164.28	163.38
22	165.06	165.72	165.44	164.46	165.25	165.64	165.39	164.70	164.79	165.47	164.11	163.41
23	165.09	165.79	165.26	164.47	165.22	165.67	.....	164.66	164.79	165.40	163.93	163.38
24	165.05	165.79	165.21	164.55	165.22	165.69	.....	164.65	.....	165.44	.....	163.40
25	165.13	165.81	165.10	164.57	165.27	.....	165.43	164.64	164.85	165.48	.....	163.38

7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	165.21	165.79	165.05	164.61	165.27	165.63	165.43	164.63	164.84	165.50	.....	163.33
27	165.22	165.91	164.98	164.59	165.27	165.64	165.43	164.62	164.84	165.47	163.65	163.39
28	165.24	165.92	164.89	164.58	165.28	165.64	165.42	164.62	164.88	165.42	163.62	163.36
29	165.28		164.81	164.60	165.31	165.62	165.43	164.64	164.87	165.51	163.62	163.30
30	165.25		164.76	164.61	165.38	165.58	165.42	164.63	164.90	165.56	163.60	163.30
31	165.25		164.72		165.39		165.47	164.63		165.58		163.34

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	165.75	166.54	167.22	165.79	166.20	166.78	165.77	166.82	166.03	165.06	166.87	164.70
2	165.88	166.73	167.22	165.85	166.21	166.70	166.92	166.79	165.93	165.00	166.88	164.81
3	165.85	166.70	167.28	.....	166.08	166.68	.....	166.75	165.98	165.09	166.94	.....
4	165.99	166.69	167.22	.....	166.04	.....	166.70	166.83	165.97	165.15	166.91	164.74
5	166.01	166.74	.....	.....	166.13	.....	166.83	166.79	.....	165.20	166.95	164.67
6	165.99	166.56	167.35	165.83	166.15	166.86	166.77	166.85	.....	165.20	166.88	164.75
7	165.73	166.72	167.35	165.55	166.24	166.88	166.75	166.69	.....	165.20	166.94	164.80
8	166.04	166.80	167.33	165.58	166.24	166.92	165.55	166.70	.....	165.26	166.95	164.75
9	166.10	166.80	167.40	165.74	166.25	166.94	166.67	166.67	.....	165.28	166.97	164.74
10	166.10	166.79	167.44	165.74	166.23	166.85	166.70	166.68	.....	165.33	166.98	164.72
11	166.08	166.68	167.40	165.69	166.18	166.85	166.67	166.60	164.93	165.33	165.81	164.68
12	.....	.....	167.26	165.74	166.20	166.95	166.65	166.50	164.93	165.44	166.99	164.59
13	.....	.....	166.25	165.73	166.09	167.08	166.68	.....	164.92	165.47	.....	164.82
14	.....	166.90	166.27	165.75	166.37	167.03	166.72	166.43	164.93	165.45	167.00	164.60
15	.....	166.95	167.45	165.57	166.40	166.99	166.67	166.35	164.92	165.50	166.99	164.90
16	.....	166.90	167.47	165.73	166.40	167.00	.....	166.30	164.91	165.54	166.19	.....
17	166.10	166.95	167.50	165.80	166.40	166.95	166.72	166.19	.....	166.72	166.34	.....
18	166.28	166.80	166.35	165.78	166.52	166.95	166.52	166.17	164.93	166.71	165.07	164.66
19	166.30	167.02	167.42	165.74	166.55	167.00	166.69	164.94	164.98	166.70	165.95	164.77
20	166.32	166.98	167.00	165.82	166.49	167.00	166.08	166.05	164.98	166.74	165.85	164.50
21	166.15	166.98	166.93	165.83	166.58	166.98	166.75	166.05	164.95	166.73	165.50	164.58
22	166.38	167.05	166.80	165.62	166.67	166.99	165.58	166.03	164.93	166.74	165.42	164.73
23	166.42	167.12	166.71	165.92	166.58	167.02	.....	166.03	164.94	166.72	165.13	164.70
24	166.39	167.13	166.50	166.02	166.58	166.96	.....	165.99	.....	166.72	.....	163.55
25	166.46	167.13	166.38	166.02	166.62	.....	166.78	165.99	165.02	166.77	.....	163.56
26	166.55	167.15	166.39	165.92	166.65	166.99	166.75	165.74	165.01	166.78	.....	163.55
27	166.54	167.20	166.30	165.95	166.60	166.98	166.78	165.96	165.05	166.76	164.82	163.63
28	166.39	167.19	166.17	165.96	166.61	166.92	166.75	165.98	165.04	166.71	164.96	163.53
29	166.55		166.08	165.90	166.65	166.95	165.62	165.98	165.07	166.82	164.94	163.33
30	166.57		166.09	166.11	166.73	166.76	166.75	165.96	165.05	166.87	164.93	163.33
31	166.58		166.07		166.75		166.78	165.98		166.87		163.38

28. John S. Phipps. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 2 N., R. 1 W. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 200 feet. Land-surface datum is 190.04 feet above msl. Highest water level 137.31 below lsd, May 15, 1950; lowest 144.35 below lsd, Nov. 9, 1951. Records available: 1950-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	141.24	141.73	142.54	141.98	141.92	.....	142.74	143.13	143.20	143.52	144.04	143.87
2	141.18	142.03	142.56	141.86	141.90	.....	142.78	143.11	143.26	143.42	144.00	143.80
3	141.12	141.98	142.53	141.96	141.80	.....	142.79	143.08	143.33	143.49	144.15	143.72
4	141.22	141.92	142.56	142.03	141.72	.....	142.79	143.11	143.35	143.60	144.20	143.54
5	141.30	141.94	142.63	142.04	141.77	.....	142.78	143.18	143.36	143.68	144.23	143.48
6	141.27	141.88	142.71	141.96	141.82	.....	142.79	143.24	143.36	143.67	144.11	143.49
7	141.17	141.90	142.64	141.77	141.48	.....	142.80	143.18	143.35	143.69	144.17	143.53
8	141.34	142.27	142.59	141.84	141.54	.....	142.82	143.13	143.36	143.76	144.28	143.51
9	141.42	142.22	142.71	141.90	141.55	.....	142.81	143.15	143.41	143.74	144.30	143.49
10	141.39	142.26	142.79	141.90	141.50	.....	142.83	143.20	143.42	143.75	144.26	143.44
11	141.30	142.27	142.75	141.90	141.44	.....	142.87	143.21	143.46	143.84	144.25	143.34
12	141.38	142.20	142.57	141.90	141.45	.....	142.88	143.22	143.45	143.88	144.24	143.31
13	141.40	142.24	142.61	141.95	141.54	.....	142.90	143.24	143.43	143.91	144.19	143.38
14	141.30	142.29	142.70	141.97	141.68	.....	142.92	143.25	143.45	143.89	144.17	143.32
15	141.29	142.30	142.79	141.97	141.69	.....	142.90	143.25	143.45	143.84	144.15	143.36
16	141.54	142.30	142.82	141.91	141.55	.....	142.90	143.23	143.43	143.86	144.07	143.53
17	141.54	142.29	142.85	141.98	141.47	.....	142.91	143.23	143.40	143.91	144.20	143.40
18	141.48	142.30	142.83	141.92	141.55	.....	142.93	143.23	143.44	143.93	144.25	143.09
19	141.52	142.32	142.75	141.87	141.56	.....	142.94	143.23	143.53	143.88	144.20	143.06
20	141.54	142.28	142.74	141.93	141.54	.....	142.98	143.24	143.57	143.88	144.23	143.81

28--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	141.57	.....	142.60	141.96	141.57	.....	143.04	143.23	143.56	143.92	144.25	143.79
22	141.64	.....	142.62	141.89	141.60	.....	143.08	143.24	143.52	144.00	144.19	142.96
23	141.61	.....	142.60	141.89	141.52	.....	143.06	143.24	143.53	144.00	144.09	142.93
24	141.53	.....	142.53	141.93	141.55	.....	143.03	143.27	143.55	144.00	144.02	142.92
25	141.63	.....	142.62	141.94	141.63	.....	143.04	143.29	143.53	144.05	144.00	142.88
26	141.77	.....	142.65	141.94	141.64	.....	143.07	143.25	143.52	144.08	143.96	142.78
27	141.79	.....	142.61	141.94	141.64	.....	143.04	143.27	143.54	144.02	143.88	142.85
28	141.81	.....	142.53	141.93	141.63	.....	143.03	143.23	143.58	143.94	143.90	142.69
29	141.79	.....	142.42	141.85	141.70	.....	143.02	143.27	143.61	144.03	143.93	142.51
30	141.78	.....	142.34	141.84	141.77	142.71	143.06	143.24	143.61	144.08	143.93	142.50
31	141.76	.....	142.17	.....	141.82	.....	143.08	143.23	.....	144.08	.....	142.55

36. Dawkins Pond Church. $SE\frac{1}{4}SW\frac{1}{4}$ sec. 30, T. 3 N., R. 2 E. Dug unused water-table well in sand, diameter 48 inches, depth 30 feet, cribbed with stone. Highest water level 0.12 above lsd, Oct. 4, 1948; lowest 26.50 below lsd, Jan. 31, 1944. Records available: 1935-37, 1942-44, 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	20.36	Apr. 30	16.17	July 31	22.32	Nov. 1	25.16
Feb. 28	21.00	May 31	19.06	Aug. 31	23.45	30	21.65
Mar. 30	18.64	June 29	20.71	Oct. 1	24.15	Dec. 29	17.72

66. U. S. Bureau of Prisons. Sec. 34, T. 1 N., R. 1 E. Drilled public-supply artesian well in Floridan aquifer, diameter 12 inches, depth 316 feet, cased to 136. Land-surface datum is 168.71 feet above msl. Highest water level 128.6 below lsd, Apr. 25, 1948; lowest 147.2 below lsd, June 10, 1945. Records available: 1945-51. Measurement discontinued.

Water level below lsd

Day	Jan.	Feb.	Mar.	Apr.	May	Day	Jan.	Feb.	Mar.	Apr.	May
1	145.0	145.7	145.2	144.3	145.2	17	145.5	145.2	145.3	144.1	.....
2	144.8	145.7	145.3	144.2	145.2	18	145.3	145.2	145.3	144.1	.....
3	144.9	145.5	145.4	144.2	145.1	19	145.6	145.4	145.3	144.1	.....
4	145.0	145.7	145.4	144.0	145.0	20	145.5	145.4	145.2	.....	.....
5	145.1	145.7	145.2	144.0	145.1	21	145.2	145.3	145.2	.....	.....
6	144.9	145.7	145.3	144.1	145.3	22	144.9	145.3	144.9	.....	.....
7	144.8	145.7	145.3	144.2	145.3	23	145.5	145.4	144.8	145.1	.....
8	145.1	145.6	145.3	144.3	145.3	24	145.5	145.4	144.9	145.1	.....
9	145.5	145.5	145.4	144.0	145.3	25	145.5	145.4	145.0	145.3	.....
10	145.3	145.5	145.5	143.9	145.0	26	145.5	145.4	144.8	145.2	.....
11	145.3	145.5	145.4	144.0	145.1	27	145.5	145.3	144.7	144.4	.....
12	145.2	145.5	145.3	144.1	145.2	28	145.5	145.2	144.7	145.2	.....
13	145.2	145.5	145.3	144.1	145.3	29	145.6	.....	144.4	145.2	.....
14	145.1	145.5	145.3	144.2	145.3	30	145.7	.....	144.4	145.2	.....
15	145.3	145.4	145.4	144.1	145.3	31	145.7	.....	144.4	.....	.....
16	145.5	145.2	145.2	144.1	.....					

115. W. F. Christian. $NW\frac{1}{4}NW\frac{1}{4}$ sec. 5, T. 1 N., R. 1 W. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 194 feet, cased to 104. Highest water level 81.9 below lsd, Apr. 13, 1950; lowest 89.9 below lsd, Feb. 28, 1951. Records available: 1950-51. Jan. 15, 86.2; Feb. 28, 89.9; Mar. 30, 86.7; May 1, 86.0; June 29, 87.4; Oct. 1, 86.9; Nov. 30, 86.5.

Manatee County

92. Ray E. Anderson. $SE\frac{1}{4}SE\frac{1}{4}$ sec. 9, T. 35 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 5 inches, depth 600 feet, cased to 154. Land-surface datum is 79.77 feet above msl. Highest water level 35.67 below lsd, Oct. 7, 1946; lowest 42.61 below lsd, June 19, 1951. Records available: 1941-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.81	40.31	40.97	41.41	40.37	42.17	42.24	40.39	39.41	39.42	39.97	40.21
2	39.79	40.47	41.02	41.38	40.38	42.19	42.21	40.29	39.42	39.18	40.16	40.16
3	39.75	40.50	41.05	41.38	40.32	42.17	42.16	40.21	39.48	39.24	40.04	40.11
4	39.75	40.46	41.11	41.47	40.27	42.18	42.08	40.19	39.48	39.35	40.16	40.03
5	39.78	40.47	41.19	41.54	40.28	42.26	41.98	40.20	39.46	39.40	40.21	40.01
6	39.77	40.44	41.32	41.48	40.39	42.29	41.88	40.20	39.43	39.38	40.20	40.05
7	39.68	40.40	41.36	41.24	40.48	42.31	41.77	40.14	39.40	39.35	40.19	40.14

92--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	39.71	40.56	41.37	41.19	40.57	42.36	41.66	40.06	39.37	39.32	40.30	40.17
9	.....	40.56	41.44	41.22	40.65	42.43	41.52	40.02	39.40	39.25	40.34	40.20
10	.....	40.56	41.59	41.15	40.69	42.44	41.37	40.00	39.43	39.22	40.30	40.19
11	.....	40.44	41.62	41.11	40.70	42.41	41.37	39.98	39.42	39.33	40.28	40.13
12	.....	40.50	41.53	41.05	40.76	42.42	41.33	39.97	39.45	39.35	40.28	40.16
13	.....	40.49	41.53	41.08	40.90	42.48	41.31	39.96	39.42	39.37	40.25	40.28
14	.....	40.50	41.64	41.06	41.11	42.52	41.27	39.95	39.43	39.35	40.24	40.33
15	39.69	40.49	41.76	40.98	41.24	42.52	41.17	39.95	39.46	39.31	40.24	40.34
16	39.87	40.48	41.78	40.87	41.22	42.54	41.08	39.93	39.48	39.35	40.27	40.52
17	39.93	40.47	41.80	40.78	41.19	42.56	41.03	39.90	39.50	39.40	40.29	40.56
18	39.91	40.49	41.77	40.74	41.33	42.57	41.02	39.87	39.48	39.43	40.39	40.45
19	39.90	40.52	41.74	40.65	41.41	42.59	41.00	39.84	39.53	39.41	40.39	40.46
20	39.92	40.49	41.72	40.65	41.44	42.59	40.98	39.84	39.58	39.40	40.38	40.46
21	39.93	40.44	41.72	40.66	41.50	42.57	40.98	39.77	39.62	39.48	40.41	40.48
22	39.95	40.52	41.73	40.62	41.57	42.55	40.92	39.79	39.62	39.55	40.41	40.58
23	39.97	40.61	41.70	40.57	41.56	42.55	40.83	39.78	39.63	39.58	40.35	40.64
24	39.96	40.70	41.62	40.56	41.55	42.54	40.76	39.74	39.63	39.60	40.28	40.68
25	39.97	40.75	41.58	40.54	41.65	42.51	40.70	39.70	39.61	39.68	40.28	40.68
26	40.14	40.80	41.58	40.52	41.73	42.46	40.64	39.69	39.58	39.76	40.25	40.63
27	40.22	40.85	41.54	40.50	41.79	42.42	40.56	39.66	39.56	39.74	40.17	40.65
28	40.26	40.88	41.45	40.44	41.80	42.44	40.48	39.62	39.54	39.74	40.12	40.69
29	40.27		41.38	40.37	41.88	42.43	40.42	39.59	39.54	39.80	40.16	40.61
30	40.28		41.36	40.34	42.00	42.37	40.40	39.50	39.54	39.93	40.21	40.60
31	40.29		41.42		42.08		40.39	39.43		39.98		40.60

Marion County

5. State Road Department. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 15 S., R. 23 E. Drilled observation artesian well in Floridan aquifer, diameter 6 inches, depth 135 feet, cased to 135. Land-surface datum is 39.53 feet above msl. Highest water level 13.71 above lsd, Oct. 15, 1949; lowest 5.90 above lsd, Apr. 1, 1933. Records available: 1933-51.

Daily mean water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.78	11.28	10.63	10.10	9.51	8.74	8.45	8.63	8.87	9.35	9.55	.....
2	.....	11.12	10.63	10.12	9.51	8.78	8.42	8.67	8.83	9.50	9.58	.....
3	.....	11.12	10.62	10.10	9.57	8.80	8.44	8.72	8.78	9.44	9.52	.....
4	.....	11.15	10.60	9.97	9.60	8.73	8.48	8.69	8.78	9.35	9.42	.....
5	.....	11.12	10.54	9.94	9.55	8.71	8.48	8.64	8.79	9.32	9.41	.....
6	11.79	11.22	10.49	9.97	9.42	8.75	8.49	8.64	8.82	9.37	9.53	.....
7	11.86	11.10	10.54	10.12	9.33	8.72	8.49	8.71	8.84	9.41	9.51	.....
8	11.73	10.98	10.57	10.07	9.30	8.67	8.51	8.76	8.83	9.49	9.39	.....
9	11.61	10.99	10.48	9.95	9.29	8.63	8.53	8.73	8.84	9.44	9.33	9.57
10	11.63	10.97	10.38	9.93	9.32	8.68	8.53	8.71	8.78	9.50	9.40	9.61
11	11.68	10.97	10.40	9.92	9.35	8.69	8.52	8.68	8.77	9.42	9.42	9.68
12	11.63	11.02	10.56	9.88	9.35	8.60	8.52	8.68	8.77	9.41	9.43	.....
13	11.62	10.97	10.54	9.80	9.25	8.55	8.53	8.69	8.79	9.44	9.45	.....
14	11.69	10.93	10.39	9.75	9.10	8.54	8.57	8.68	8.77	9.51	9.44	.....
15	11.72	10.92	10.33	9.75	9.08	8.60	8.59	8.68	8.79	9.57	9.43	.....
16	11.50	10.91	10.30	9.78	9.19	8.60	8.62	8.71	8.81	9.55	9.43	.....
17	11.47	10.92	10.27	9.77	9.25	8.56	8.62	8.72	8.83	9.53	9.42	.....
18	11.52	10.90	10.28	9.72	9.18	8.54	8.62	8.73	8.91	9.53	9.32	9.71
19	11.51	10.88	10.30	9.78	9.13	8.56	8.61	8.74	8.87	9.58	9.35	9.61
20	11.50	10.92	10.25	9.70	9.13	8.55	8.62	8.76	8.85	9.60	9.36	9.68
21	11.48	10.97	10.23	9.61	9.10	8.57	8.59	8.77	.....	9.57	9.37	9.65
22	11.43	10.83	10.20	9.64	9.07	8.55	8.57	8.77	.....	9.52	9.45	9.53
23	11.42	10.74	10.20	9.67	9.11	8.50	8.62	8.77	9.02	9.52	.....	9.52
24	11.47	10.72	10.25	9.63	9.11	8.47	8.65	8.78	9.05	9.56	.....	9.52
25	11.41	10.72	10.22	9.62	8.99	8.48	8.66	8.79	9.10	9.52	.....	9.55
26	11.27	10.71	10.15	9.59	8.97	8.50	8.64	8.80	9.15	9.51	.....	9.62
27	11.22	10.70	10.15	9.58	8.95	8.46	8.67	8.82	9.18	9.58	.....	9.55
28	11.22	10.68	10.20	9.58	8.96	8.45	8.68	8.83	9.18	9.63	.....	9.53
29	11.26		10.22	9.61	8.91	8.47	8.69	8.84	9.21	9.58	.....	9.62
30	11.28		10.17	9.57	8.88	8.47	8.68	8.87	9.23	9.49	.....	9.63
31	11.27		10.06		8.78		8.65	8.88		9.52		9.60

47. Betram Ibbetson. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 17 S., R. 24 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, depth 179 feet. Land-surface datum is 72.4 feet above msl. Highest water level 12.5 below lsd, Sept. 1949; lowest 21.8 below lsd, June 1945. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	16.87	Apr. 26	14.78	July 25	19.07	Oct. 30	18.33
Mar. 8	17.48	June 13	20.12	Sept. 19	19.05	Dec. 19	17.44

48. E. P. Nelson. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 17 S., R. 25 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, depth 152 feet. Land-surface datum is 61.3 feet above msl. Highest water level 0.2 above lsd, Oct. 1945; lowest 6.4 below lsd, May 1945. Records available: 1936-51.

Jan. 17	1.92	Apr. 26	3.74	July 25	4.09	Oct. 30	3.79
Mar. 8	3.36	June 13	5.18	Sept. 19	4.03	Dec. 19	3.82

49. State Road Department. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 15 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, depth 175 feet. Land-surface datum is 66.6 feet above msl. Highest water level 23.4 below lsd, Oct. 1948; lowest 29.3 below lsd, June 1939. Records available: 1936-51. Jan. 18, 25.76; Mar. 6, 26.29; Apr. 26, 26.91; June 14, 27.61; July 27, 27.27; Sept. 21, 27.80; Dec. 21, 26.40.

51. Harold E. Cullison. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 15 S., R. 21 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 106 feet. Land-surface datum is 74.5 feet above msl. Highest water level 24.03 below lsd, Oct. 20, 1950; lowest 32.4 below lsd, July 1943. Records available: 1935-51. Jan. 18, 27.02; Mar. 8, 28.29; Apr. 27, 29.45; July 27, 28.97; Sept. 21, 30.36; Nov. 2, 29.57; Dec. 21, 29.28.

Martin County

125. Florida Park Service. Jupiter State Park. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 40 S., R. 42 E. Drilled unused water-table well in sand of Pleistocene age, diameter 12 to 6 inches, depth 90 feet, cased to 65 feet, screened 65-90. Land-surface datum is 17.60 feet above msl. Highest water level 5.55 above msl, Oct. 20, 1951; lowest 1.50 above msl, Sept. 27, 1951. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.81	2.40	2.27	1.99	2.35	2.30	2.12	1.82	1.62	2.37	4.96	3.90
2	2.80	2.39	2.26	1.97	2.35	2.30	2.09	1.81	1.61	3.25	4.94	3.88
3	2.80	2.39	2.25	1.96	2.35	2.30	2.07	1.80	1.61	3.89	4.90	3.85
4	2.78	2.40	2.25	1.95	2.35	2.30	2.06	1.79	1.61	4.21	4.83	3.85
5	2.77	2.43	2.24	1.94	2.34	2.30	2.05	1.78	1.61	4.41	4.79	3.81
6	2.77	2.45	2.23	1.93	2.34	2.28	2.03	1.77	1.61	4.53	4.75	3.79
7	2.75	2.46	2.22	1.92	2.35	2.25	2.01	1.76	1.61	4.60	4.70	3.77
8	2.73	2.46	2.20	1.91	2.30	2.23	2.00	1.75	1.61	4.63	4.65	3.75
9	2.70	2.46	2.20	1.90	2.27	2.22	2.00	1.74	1.60	4.65	4.61	3.72
10	2.70	2.46	2.19	1.90	2.25	2.18	1.99	1.74	1.60	4.65	4.57	3.70
11	2.69	2.46	2.19	1.90	2.22	2.15	1.99	1.73	1.60	4.61	4.54	3.68
12	2.68	2.46	2.18	1.95	2.19	2.12	1.99	1.72	1.60	4.57	4.50	3.65
13	2.67	2.45	2.17	2.03	2.15	2.10	1.98	1.71	1.59	4.53	4.45	3.62
14	2.66	2.44	2.16	2.06	2.12	2.10	1.98	1.70	1.59	5.02	4.40	3.60
15	2.62	2.42	2.16	2.09	2.09	2.08	1.97	1.70	1.58	5.21	4.38	3.57
16	2.61	2.40	2.16	2.10	2.07	2.07	1.96	1.70	1.58	5.36	4.34	3.53
17	2.60	2.38	2.15	2.10	2.06	2.07	1.95	1.69	1.57	5.44	4.30	3.50
18	2.59	2.37	2.14	2.10	2.05	2.07	1.95	1.68	1.57	5.49	4.25	3.48
19	2.56	2.36	2.13	2.10	2.05	2.08	1.93	1.68	1.56	5.52	4.22	3.45
20	2.55	2.35	2.13	2.13	2.05	2.10	1.93	1.67	1.56	5.55	4.19	3.43
21	2.54	2.35	2.11	2.20	2.06	2.14	1.91	1.67	1.55	5.55	4.16	3.40
22	2.52	2.33	2.10	2.25	2.06	2.16	1.90	1.66	1.55	5.55	4.14	3.37
23	2.51	2.31	2.09	2.28	2.06	2.17	1.90	1.65	1.54	5.50	4.10	3.35
24	2.50	2.30	2.08	2.31	2.07	2.19	1.90	1.65	1.53	5.40	4.07	3.35
25	2.48	2.30	2.07	2.33	2.08	2.20	1.87	1.65	1.52	5.37	4.05	3.30
26	2.46	2.27	2.06	2.34	2.09	2.20	1.86	1.65	1.51	5.30	4.03	3.28
27	2.45	2.27	2.05	2.35	2.16	2.20	1.85	1.64	1.50	5.25	4.00	3.25
28	2.44	2.27	2.04	2.35	2.23	2.20	1.85	1.63	1.66	5.20	3.97	3.23
29	2.43		2.01	2.35	2.25	2.17	1.85	1.62	1.22	5.11	3.96	3.21
30	2.43		2.01	2.35	2.27	2.15	1.84	1.62	2.26	5.05	3.93	3.20
31	2.42		2.00		2.29		1.83	1.62		5.00		3.18

Nassau County

2. G. G. Gerbing. Sec. 50, T. 2 N., R. 28 E. At Amelia City. Drilled irrigation artesian well in Floridan aquifer, diameter 3 to 2 inches, reported depth 580 feet, cased to 350. Land-surface datum is 9.98 feet above msl. Highest water level 43.1 above lsd, July 15, 1947; lowest 29.2 above lsd, Aug. 7, 1951. Records available: 1939-40, 1944-51. Feb. 7, +32.5; Mar. 22, +32.5; May 9, +30.5; June 22, +31.3; Aug. 7, +29.2; Oct. 4, +30.2; Nov. 20, +30.1.

8. Charles Pelot. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 1 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 680 feet. Land-surface datum is 13.70 feet above msl. Highest water level 43.1 above lsd, July 15, 1947; lowest 30.6 above lsd, Oct. 4, 1951. Records available: 1939-40, 1944-51. Feb. 7, +32.3; Mar. 22, +32.7; May 9, +31.8; June 22, +32.0; Aug. 7, +30.6; Oct. 4, +30.6; Nov. 20, +31.3.

12. J. W. Sheffield. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 2 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 640 feet. Land-surface datum is 13.02 feet above msl. Records available: 1939, 1944-51. Feb. 7, +11.9; Mar. 22, -3.66; May 9, -4.67; June 22, -4.30; Aug. 7, -9.22; Oct. 4, -2.82; Nov. 20, -7.66.

22. Jack Woodward. Sec. 14, T. 3 N., R. 29 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 800 feet, cased to 534. Land-surface datum is 13.69 feet above msl. Highest water level 30.0 above lsd, Mar. 28, 1939; lowest 13.24 below lsd, Aug. 7, 1951. Records available: 1939-41, 1944-51. Feb. 7, 4.16; Mar. 22, 5.34; May 9, 7.78; June 22, 6.21; Aug. 7, 13.24; Oct. 4, 7.88; Nov. 20, 8.23.

23. Florida Forest and Park Service. Drilled public-supply artesian well in Floridan aquifer, diameter 4 inches, depth 800 feet, cased to 550. Land-surface datum is about 7.82 feet above msl. Highest water level 43.1 above lsd, Mar. 27, 1939; lowest 17.8 above lsd, Aug. 7, 1951. Records available: 1939-42, 1944, 1946-51. Feb. 7, +21.3; May 9, +20.1; June 22, +20.9; Aug. 7, +17.8; Oct. 4, +20.3; Nov. 20, +20.0.

27. Judge Fishler and others. Atlantic Blvd. and North 18th St., Fernandina. Drilled unused artesian well in Floridan aquifer, diameter 3 inches. Land-surface datum is 20.45 feet above msl. Highest water level 29.5 above lsd, Mar. 28, 1939; lowest 9.54 below lsd, Aug. 7, 1951. Records available: 1939-41, 1944-51. Feb. 7, 3.20; Mar. 22, 4.09; May 9, 6.82; June 22, 4.51; Aug. 7, 9.54; Oct. 4, 6.68; Nov. 20, 6.29.

34. W. L. Hardee. At Hardee Dock. Drilled unused artesian well in Floridan aquifer, diameter 2 $\frac{1}{2}$ inches. Land-surface datum is 3.79 feet above msl. Highest water level 47.5 above lsd, June 19, 1939; lowest 17.71 below lsd, Sept. 21, 1940. Records available: 1939-41, 1944-51. Feb. 7, 4.12; Mar. 22, 4.67; May 9, 10.99; June 22, 6.86; Aug. 7, 11.48; Oct. 4, 10.68; Nov. 20, 3.10.

44. Seaboard Air Line Railway Co. At Yulee. Drilled railroad artesian well in Floridan aquifer, diameter 4 inches, reported depth 1,000 feet, cased to 450. Land-surface datum is 34.81 feet above msl. Highest water level 26.4 above lsd, Aug. 25, 1938; lowest 12.5 above lsd, Aug. 7, 1951. Records available: 1934, 1938, 1940, 1944-51. Feb. 7, +14.6; Mar. 22, +14.3; May 9, +13.4; June 22, +12.6; Aug. 7, +12.5; Oct. 4, +12.9; Nov. 20, +12.7.

50. C. J. McKendree. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, T. 2 N., R. 26 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 569 feet. Land-surface datum is 17.79 feet above msl. Highest water level 40.3 above lsd, Jan. 18, 1940; lowest 27.2 above lsd, Nov. 20, 1951. Records available: 1940-41, 1944-51. Feb. 7, +31.6; Mar. 22, +31.3; May 9, +30.4; June 22, +34.0; Aug. 7, +27.4; Oct. 4, +29.4; Nov. 20, +27.2.

51. Harold D. Blosser. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 2 N., R. 25 E. At Callahan. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 580 feet. Land-surface datum is 18.8 feet above msl. Highest water level 42.5 above lsd, July 15, 1947; lowest 33.5 above lsd, June 22, 1951. Records available: 1940-42, 1944-51. Feb. 7, +36.0; Mar. 22, +35.7; May 9, +35.2; June 22, +33.5; Aug. 7, +34.4; Oct. 4, +35.0; Nov. 20, +34.7.

52. Charles Norris. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 3 N., R. 24 E. Drilled unused artesian well in Floridan aquifer, diameter 4 to 2 $\frac{1}{2}$ inches, depth 576 feet, cased to 442. Land-surface datum is 61.48 feet above msl. Highest water level 1.62 above lsd, Mar. 24, 1948; lowest 5.56 below lsd, Aug. 7, 1951. Records available: 1938, 1940-42, 1944-51. Feb. 7, 3.67; Mar. 22, 4.10; May 9, 4.60; June 22, 5.35; Aug. 7, 5.56; Oct. 4, 5.27; Nov. 20, 4.80. Measurement discontinued.

55. L. R. Church. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 2 N., R. 28 E. At O'Neil. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 540 feet, cased to 504. Land surface datum is 12.64 feet above msl. Highest water level 33.8 above lsd, July 15, 1947; lowest 20.2 above lsd, Aug. 7, 1951. Records available: 1940, 1944-51. Feb. 7, +23.3; Mar. 22, +22.4; May 9, +21.7; June 22, +21.5; Aug. 7, +20.2.

64. A. H. Crews. Formerly Mrs. D. C. Henderson. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 3 N., R. 24 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 648 feet. Land-surface datum is 80.66 feet above msl. Records available: 1944-47. Measurements withheld for adjustment.

Okaloosa County

3. Okaloosa County. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 2 S., R. 24 W. At Fort Walton. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 800 feet, cased to 500. Land-surface datum is 11.98 feet above msl. Highest water level 20.9 above lsd, Apr. 20, 1949; lowest 4.06 below lsd, July 11, 1951. Records available: 1946-51. Jan. 3, +11.3; Feb. 20, +11.3; Apr. 3, +10.7; July 11, -4.06; Oct. 17, -0.88; Dec. 6, +6.21.

23. U. S. Army. At Eglin Auxiliary Field 2. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 652 feet, cased to 409. Land-surface datum is 154.00 feet above msl. Highest water level 92.3 below lsd, Apr. 14, 1948; lowest 100.6 below lsd, June 22, 1950. Records available: 1947-51. Jan. 3, 96.3; Feb. 19, 96.5; Apr. 2, 95.9; July 10, 97.7; Sept. 4, 98.8; Oct. 16, 99.1; Dec. 4, 97.8.

25. U. S. Army. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 2 N., R. 23 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 609 feet, cased to 456. Land-surface datum is 196.72 feet above msl. Highest water level 98.5 below lsd, Oct. 30, 1947; lowest 111.6 below lsd, Dec. 6, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	109.2	Apr. 3	109.4	July 11	109.4	Oct. 17	110.4
Feb. 20	109.6	May 30	109.1	Sept. 5	109.9	Dec. 6	111.6

26. U. S. Army. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 1 S., R. 23 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 640 feet, cased to 378. Land-surface datum is 87.00 feet above msl. Highest water level 19.3 below lsd, May 19, 1948; lowest 32.2 below lsd, June 22, 1948. Records available: 1947-51. Jan. 3, 27.2; Feb. 20, 27.0; Apr. 3, 27.9. Measurement discontinued.

27. U. S. Army. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 1 S., R. 23 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 591 feet, cased to 422. Land-surface datum is 89.33 feet above msl. Highest water level 24.0 below lsd, Apr. 14, 1948; lowest 37.0 below lsd, June 22, 1948. Records available: 1948-51.

Jan. 3	27.4	Apr. 3	27.2	July 11	29.0	Oct. 17	30.7
Feb. 20	27.2	May 29	27.9	Sept. 5	29.2	Dec. 6	29.3

29. U. S. Army. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 1 N., R. 24 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 766 feet, cased to 524. Land-surface datum is 178.03 feet above msl. Highest water level 99.8 below lsd, Oct. 28, 1947; lowest 105.0 below lsd, June 22, 1948. Records available: 1947-51.

Jan. 3	103.1	Apr. 3	103.5	July 11	103.6	Oct. 17	104.5
Feb. 20	103.1	May 30	102.9	Sept. 5	103.7	Dec. 6	104.6

31. U. S. Army. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 2 N., R. 25 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 690 feet, cased to 527. Land-surface datum is 135.12 feet above msl. Highest water level 46.8 below lsd, Apr. 14, 1948; lowest 50.6 below lsd, July 13, 1949. Records available: 1948-51.

Jan. 3	49.0	Apr. 3	49.0	July 11	48.6	Oct. 17	49.6
Feb. 20	48.9	May 30	48.7	Sept. 5	49.2	Dec. 6	49.7

32. U. S. Army. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 2 S., R. 25 W. Drilled public-supply artesian well in sand, diameter 10 inches, reported depth 208 feet, cased to 168. Land-surface datum is 35.46 feet above msl. Highest water level 32.9 above lsd, Feb. 11, 1948; lowest 27.4 above lsd, Oct. 4, 1950. Records available: 1947-51. Measurement discontinued.

Jan. 3	+30.7	Apr. 3	+30.7	July 11	+29.8	Oct. 17	+28.9
Feb. 20	+31.2	May 29	+31.2	Sept. 5	+29.5	Dec. 5	+29.7

34. U. S. Army. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 1 S., R. 22 W. Drilled unused artesian well in Floridan aquifer (?), diameter 6 inches. Highest water level 30.2 above lsd, Sept. 3, 1947; lowest 19.4 above lsd, Sept. 6, 1951. Records available: 1947-51. Measurement discontinued.

Jan. 3	+28.7	Apr. 3	+27.2	July 11	+22.4	Oct. 17	+21.5
Feb. 20	+26.2	May 31	+22.9	Sept. 6	+19.4	Dec. 6	+24.2

Okeechobee County

2. U. S. Geol. Survey. Bassinger. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 35 S., R. 33 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18 feet. Land-surface datum is 47.80 feet above msl. Highest water level 47.85 above msl, Oct. 2, 1951; lowest 39.51 above msl, June 17, 1949. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.40	41.75	42.25	41.37	43.31	41.83	42.15	44.85	.....	.....	.....	45.32
2	42.38	41.75	42.20	41.35	43.25	41.77	42.11	45.16	.....	e47.85	.....	45.30
3	42.35	42.25	42.17	41.32	43.18	41.75	42.08	.....	.....	.....	.....	45.27
4	42.34	42.55	42.15	41.29	43.10	41.70	42.06	44.54	.....	.....	.....	45.25
5	42.32	42.69	42.12	41.26	43.05	41.65	42.04	.....	.....	.....	.....	45.23
6	42.30	42.75	42.10	41.25	42.97	41.60	41.99	.....	.....	.....	.....	45.17
7	42.28	42.80	42.07	41.50	42.91	41.56	41.96	.....	.....	.....	45.14	45.14
8	42.26	42.82	42.05	42.45	42.85	41.53	42.90	.....	.....	.....	45.10	45.10
9	42.24	42.83	42.03	42.73	42.80	41.50	43.14	.....	.....	.....	45.06	45.07
10	42.21	42.83	41.97	42.87	42.74	41.46	43.30	.....	.....	.....	45.05	45.05
11	42.19	42.82	41.94	42.99	42.69	41.43	43.35	.....	.....	.....	45.00	45.00
12	42.17	42.80	41.92	43.13	42.65	41.40	43.38	.....	.....	.....	45.00	44.92
13	42.15	42.76	41.90	43.26	42.61	41.35	43.32	.....	.....	.....	45.05	44.87
14	42.14	42.73	41.86	43.30	42.55	41.33	43.30	.....	.....	.....	44.97	44.85
15	42.12	42.70	41.84	43.29	42.50	41.30	43.34	.....	.....	.....	44.95	44.85
16	42.09	42.66	41.80	43.25	42.45	41.29	43.36	.....	.....	.....	47.30	44.78
17	42.08	42.65	41.77	43.22	42.41	41.53	43.31	.....	.....	.....	47.48	44.77
18	42.07	42.62	41.75	43.20	42.36	41.65	43.27	.....	.....	.....	46.22	44.76
19	42.05	42.57	41.72	43.21	42.32	41.80	43.20	.....	.....	.....	46.35	44.75
20	42.00	42.55	41.70	43.68	42.28	42.00	43.15	.....	.....	.....	46.10	44.73
21	42.08	42.51	41.67	43.84	42.25	42.13	43.12	.....	.....	.....	45.92	44.70
22	41.97	42.48	41.65	43.86	42.21	42.19	43.19	.....	.....	.....	45.87	44.68
23	41.95	42.45	41.61	43.83	42.17	42.24	43.42	.....	.....	.....	45.78	44.65
24	41.93	42.41	41.60	43.76	42.13	42.26	43.50	.....	.....	.....	45.74	44.65
25	41.92	42.37	41.56	43.71	42.09	42.29	43.55	.....	.....	.....	45.68	44.63
26	41.87	42.34	41.54	43.64	42.05	42.28	43.65	.....	44.85	.....	45.63	.....
27	41.85	42.30	41.51	43.56	42.05	42.26	44.00	.....	.....	.....	45.56	44.57
28	41.84	42.26	41.48	43.51	42.00	42.24	44.35	.....	.....	.....	45.50	44.53
29	41.81	.....	41.46	43.44	41.95	42.19	44.39	44.53	.....	.....	45.43	44.51
30	41.79	.....	41.44	43.36	41.90	42.15	44.40	.....	e44.75	.....	45.35	44.48
31	41.76	.....	41.40	.....	41.86	.....	44.45	.....	.....	.....	.....	44.45

e Estimated.

3. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 34 S., R. 35 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 22 feet, cased to 19 feet. Land-surface datum is 62 feet above msl. Highest water level 61.82 above msl, Aug. 28, 1949; lowest 56.75 above msl, Mar. 31, 1949. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.05	58.66	58.90	58.08	59.89	59.51	60.75	60.61	60.83	61.13	60.00	59.55
2	59.03	60.04	58.85	58.05	59.80	59.44	60.99	60.36	60.45	61.78	59.95	59.54
3	59.02	60.32	58.81	58.01	59.78	59.37	60.46	60.23	60.88	61.28	59.86	59.54
4	59.00	59.95	58.77	57.98	59.66	59.31	60.54	60.06	60.55	61.07	59.82	59.55
5	58.98	59.84	58.73	57.96	59.60	59.24	60.26	59.98	60.75	60.86	59.78	59.52
6	58.97	59.75	58.69	58.05	59.55	59.19	60.16	60.05	60.84	60.67	59.76	59.49
7	58.95	59.68	58.66	60.29	59.48	59.11	60.63	60.11	60.20	60.52	59.73	59.45
8	58.90	59.58	58.63	59.97	59.46	59.05	60.25	59.86	61.04	60.40	59.67	59.42
9	58.87	59.54	58.59	59.81	59.42	58.96	60.10	59.81	60.51	60.37	59.65	59.40
10	58.85	59.49	58.55	60.28	59.38	58.92	61.00	59.79	60.32	60.76	59.64	59.37
11	58.84	59.45	58.53	60.40	59.40	58.87	60.74	59.75	60.24	60.22	59.60	59.35
12	58.82	59.42	58.63	60.50	60.00	60.87	60.47	59.66	60.07	60.13	59.58	59.40
13	58.80	59.37	58.69	60.08	60.03	60.55	60.34	59.62	59.96	60.35	59.91	59.29
14	58.80	59.34	58.57	59.91	59.76	60.26	60.21	59.59	59.91	61.10	59.72	59.28
15	58.80	59.32	58.53	59.78	59.60	60.13	60.20	59.50	59.83	60.95	59.65	59.29
16	58.75	59.29	58.47	59.67	59.51	60.00	60.70	59.73	59.79	60.66	60.52	59.24
17	58.74	59.26	58.45	59.63	59.47	60.41	60.57	59.93	60.52	60.47	60.86	59.23
18	58.73	59.24	58.42	59.90	59.40	59.95	60.37	59.61	60.58	60.31	60.45	59.23
19	58.71	59.20	58.39	61.12	59.33	60.70	60.18	60.03	60.05	60.20	60.28	59.30
20	58.70	59.19	58.37	61.43	59.29	60.29	60.07	59.80	59.92	60.43	60.16	59.22
21	58.69	59.15	58.39	60.85	59.24	61.00	60.03	59.76	59.81	60.14	60.05	59.21
22	58.68	59.11	58.34	60.65	59.19	60.55	60.86	59.63	59.74	60.26	60.00	59.21
23	58.66	59.08	58.31	60.50	59.12	60.37	60.74	59.96	59.67	60.40	59.96	59.19
24	58.64	59.06	58.28	60.36	59.20	61.20	60.68	59.70	59.62	61.03	59.90	59.17
25	58.65	59.02	58.25	60.25	59.13	60.83	60.63	59.56	59.60	60.76	59.85	59.15

3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	58.60	58.99	58.22	60.16	60.38	60.53	61.07	59.60	59.52	60.62	59.81	59.16
27	58.58	58.95	58.20	60.05	60.42	60.88	60.80	59.50	59.48	60.44	59.78	59.14
28	58.57	58.93	58.17	59.98	60.07	60.55	60.54	59.47	60.23	60.27	59.75	59.10
29	58.55		58.15	59.96	59.88	60.62	60.40	60.59	60.87	60.16	59.61	59.09
30	58.54		58.12	59.88	59.70	60.24	60.33	60.63	60.96	60.12	59.57	59.06
31	58.53		58.09		59.60		60.98	60.62		60.05		59.04

4. U. S. Geol. Survey. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 37 S., R. 34 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 17 feet. Land-surface datum is 30.50 feet above msl. Highest water level 30.35 above msl, Oct. 2, 1951; lowest 24.24 above msl, June 7, 1949. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.63	26.24	26.48	25.75	27.17	26.91	27.65	28.05	28.15	29.97	28.25	27.65
2	26.62	27.30	26.45	25.73	27.13	26.85	27.45	28.94	27.98	30.35	28.18	27.63
3	26.59	27.70	26.42	25.70	27.08	26.78	28.39	28.10	27.83	29.18	28.30	27.60
4	26.57	27.55	26.38	25.67	27.03	26.72	27.86	27.95	27.77	28.85	28.05	27.60
5	26.55	27.49	26.35	25.64	26.97	26.66	28.15	27.87	27.69	28.60	28.00	27.59
6	26.54	27.43	26.33	25.63	26.92	26.60	27.65	29.15	27.64	28.44	28.00	27.55
7	26.53	27.35	26.30	26.80	26.85	26.55	27.60	29.30	27.60	28.37	27.95	27.52
8	26.48	27.27	26.28	26.84	26.79	26.49	28.25	28.44	27.56	28.26	27.89	27.48
9	26.45	27.23	26.25	26.83	26.75	26.44	28.85	29.37	27.50	29.74	27.85	27.46
10	26.43	27.18	26.23	27.15	26.70	26.40	28.24	28.46	27.45	29.08	27.84	27.43
11	26.41	27.14	26.20	27.19	26.79	26.36	29.45	29.52	27.88	28.63	27.80	27.40
12	26.39	27.10	26.18	27.57	28.66	26.34	28.45	28.47	27.56	28.42	27.80	27.35
13	26.37	27.05	26.23	27.47	28.36	26.32	28.21	28.39	27.45	28.39	27.76	27.33
14	26.36	27.02	26.16	27.35	28.05	26.29	28.10	29.57	27.39	30.12	27.73	27.31
15	26.35	26.99	26.13	27.25	27.85	26.26	28.50	28.45	27.34	29.30	27.70	27.30
16	26.33	26.96	26.10	27.16	27.72	26.27	27.93	28.21	27.31	29.03	29.15	27.27
17	26.31	26.94	26.07	27.10	27.64	26.31	27.89	28.50	27.58	28.75	29.57	27.25
18	26.30	26.90	26.06	27.06	27.55	27.12	27.69	28.35	27.83	28.56	28.58	27.24
19	26.28	26.87	26.03	27.97	27.46	27.79	28.57	28.16	27.60	28.44	28.37	27.22
20	26.27	26.83	26.02	28.69	27.41	27.81	28.58	28.04	27.45	28.39	28.21	27.20
21	26.26	26.79	26.03	28.08	27.37	27.50	28.40	27.96	27.35	28.29	28.12	27.20
22	26.25	26.74	25.98	27.86	27.30	27.35	28.08	29.61	27.28	28.23	28.10	27.20
23	26.23	26.70	25.96	27.71	27.23	27.24	27.95	28.81	27.25	29.76	28.05	27.18
24	26.22	26.65	25.94	27.59	27.17	27.28	27.85	28.45	27.24	29.64	27.99	27.17
25	26.21	26.62	25.91	27.50	27.12	27.39	28.46	28.20	28.00	29.00	27.95	27.15
26	26.18	26.57	25.89	27.44	27.07	27.40	27.86	28.07	27.78	29.40	27.89	27.14
27	26.15	26.54	25.86	27.36	27.33	27.17	27.79	27.95	27.68	28.81	27.84	27.11
28	26.14	26.51	25.84	27.34	27.35	27.28	27.69	27.83	27.65	28.60	27.80	27.08
29	26.12		25.83	27.29	27.11	27.17	27.65	27.77	28.21	28.46	27.75	27.06
30	26.10		25.80	27.22	27.03	27.15	29.02	27.82	29.85	28.38	27.68	27.04
31	26.09		25.77		26.96		28.35	28.40		28.28		27.02

Orange County

47. Orange County. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 8 to 6 inches, depth 350 feet, cased to 328. Land-surface datum is 72.12 feet above msl. Highest water level 8.00 above lsd, Sept. 30, 1930; lowest 8.00 below lsd, May 10, 1933. Records available: 1930-33, 1943-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.83	4.81	5.98	6.10	....	....	....	....	3.54
2	4.88	4.87	5.97	6.03	....	....	....	3.86	3.61
3	4.93	4.87	5.93	5.79	....	....	....	3.94	3.69
4	5.04	4.90	6.00	5.52	....	1.71	....	4.01	3.70
5	5.07	4.97	6.07	5.53	....	2.34	....	4.09	3.84
6	5.02	5.09	6.10	5.61	....	....	....	4.10	3.85
7	4.85	5.16	6.19	5.61	....	....	0.69	4.11	3.96
8	4.45	4.65	5.26	6.21	5.51	1.85	1.52	1.18	4.19	4.01
9	4.55	4.66	5.33	6.20	5.41	2.62	2.35	1.48	4.28	4.08
10	3.02	4.65	4.70	5.35	6.11	5.30	3.01	2.82	1.75	4.30	4.10
11	3.11	4.55	4.73	5.33	6.22	5.20	3.20	3.12	2.10	4.31	4.11
12	3.17	4.36	4.78	5.35	6.08	5.18	3.37	3.32	2.38	4.34	4.16
13	3.26	4.36	4.80	5.39	6.01	5.21	....	3.41	2.60	4.39	4.21
14	3.34	4.43	4.81	5.44	6.01	5.29	....	....	2.75	4.44	4.29
15	3.40	4.55	4.83	5.50	6.05	5.29	....	....	2.88	4.50	4.30

47--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	3.40	4.56	4.83	5.47	6.04	5.30	....	....	3.02	....	4.35
17	4.59	4.88	5.46	6.06	5.33	....	....	3.14	....	4.38
18	4.55	4.91	5.60	6.07	4.88	....	3.10	3.21	....	4.30
19	4.61	4.75	5.60	6.06	3.88	....	1.55	3.28	....	4.18
20	4.68	4.02	5.53	6.03	3.54	1.48	1.54	3.34	....	4.09
21	4.65	4.01	5.60	6.01	3.79	1.38	2.04	3.38	....	4.11
22	4.64	4.22	5.65	6.01	4.01	2.24	2.40	3.39	....	4.19
23	4.65	4.35	5.66	6.05	3.98	2.90	2.67	3.35	2.21	4.13
24	4.63	4.18	5.68	6.09	3.74	3.21	2.86	3.27	2.40	4.14
25	4.62	4.27	5.70	6.10	1.05	3.33	3.04	3.30	2.61	4.16
26	4.70	4.42	5.70	6.10	1.60	3.41	3.20	3.37	2.80	4.18
27	4.70	4.54	5.70	6.12	2.73	....	3.33	....	2.94	4.11
28	4.69	4.61	5.75	6.16	3.32	....	....	....	3.10	4.01
29	4.70	4.65	5.81	6.14	....	....	....	....	3.26	4.03
30	4.75	4.72	5.90	6.10	....	....	....	....	3.41	4.10
31	4.82	....	5.95	....	....	....	....	....	....	4.18

47-B. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 17 feet, cased to 17. Highest water level 4.36 above lsd, Oct. 18, 1948; lowest 5.72 below lsd, Aug. 29, 1950. Records available: 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.58	2.45	2.78	3.59	4.13	2.80	1.80	1.15	1.31	1.22
2	1.60	2.48	2.80	3.62	4.05	2.80	1.83	1.02	1.35	1.29
3	1.63	2.50	2.81	3.65	3.88	2.80	1.80	.89	1.39	1.32
4	1.65	2.52	2.84	3.66	3.70	2.80	1.67	.80	1.41	1.38
5	1.69	2.57	2.87	3.69	3.69	2.77	1.61	.71	1.45	1.41
6	1.71	2.59	2.90	3.72	3.70	2.61	1.55	.68	1.49	1.47
7	1.78	2.53	2.94	3.77	3.69	2.48	1.47	.67	1.50	1.50
8	1.80	2.49	2.98	3.80	3.64	2.42	1.43	.66	1.55	1.55
9	1.82	2.52	3.01	3.81	3.64	2.40	1.43	.64	1.59	1.59
10	1.02	1.86	2.57	3.04	3.84	3.63	2.39	1.43	.65	1.61	1.62
11	1.09	1.89	2.59	3.06	3.85	3.63	2.38	1.44	.65	1.65	1.66
12	1.10	1.90	2.61	3.06	3.88	3.62	2.38	1.46	.69	1.69	1.70
13	1.13	1.90	2.62	3.08	3.90	3.62	2.38	1.49	.71	1.70	1.74
14	1.18	1.92	2.66	3.12	3.92	3.62	2.38	1.53	.74	1.73	1.79
15	1.20	1.97	2.69	3.15	3.94	3.61	2.38	1.54	.77	1.74	1.80
16	1.21	2.00	2.70	3.19	3.95	3.61	2.38	1.52	.81	1.41	1.82
17	1.24	2.02	2.71	3.21	3.97	3.61	2.38	1.53	.85	1.18	1.87
18	1.28	2.05	2.73	3.24	3.96	3.58	2.35	1.49	.89	1.07	1.88
19	1.30	2.08	2.72	3.27	3.95	3.48	2.29	1.38	.91	.99	1.89
20	1.31	2.10	2.63	3.28	3.97	3.40	1.95	1.31	.96	.93	1.90
21	1.35	2.11	2.61	3.29	3.99	3.35	1.85	1.30	1.00	.92	1.91
22	1.38	2.16	2.61	3.31	4.00	3.31	1.83	1.29	1.04	.92	1.93
23	1.40	2.19	2.61	3.36	4.02	3.28	1.83	1.29	1.08	.92	1.95
24	1.44	2.21	2.61	3.38	4.06	3.22	1.82	1.30	1.09	.93	1.98
25	1.48	2.24	2.63	3.40	4.08	3.07	1.78	1.31	1.11	.97	2.00
26	1.50	2.28	2.64	3.43	4.10	2.97	1.73	1.33	1.15	1.00	2.01
27	1.51	2.30	2.67	3.44	4.12	2.93	1.73	1.37	1.18	1.02	2.03
28	1.52	2.33	2.70	3.46	4.15	2.90	1.73	1.40	1.20	1.07	2.03
29	2.37	2.73	3.50	4.11	2.87	1.74	1.37	1.21	1.11	2.04
30	2.40	2.75	3.53	4.11	2.83	1.76	1.22	1.27	1.17	2.07
31	2.42	....	3.56	....	2.81	1.78	....	1.30	....	2.09

47-C. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 46 feet, cased to 46. Highest water level 29.58 below lsd, Nov. 11, 1948; lowest 39.25 below lsd, Sept. 4, 1950. Records available: 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.40	34.61	....	35.29	35.64	....	36.32	....	....	36.20	35.82	35.67
2	34.41	34.64	....	35.30	35.65	....	36.34	....	....	36.17	35.81	35.66
3	34.41	34.65	....	35.31	....	....	36.35	....	....	36.15	35.80	35.66
4	34.41	34.66	....	35.32	....	....	36.36	....	....	36.15	35.80	35.65
5	34.42	34.67	....	35.34	....	....	36.37	....	....	36.14	35.80	35.64

47-C--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	34.42	34.68	.....	35.35	.....	.....	36.38	.....	.....	36.14	35.79	35.64
7	34.42	34.68	.....	35.36	.....	.....	36.39	.....	.....	36.13	35.78	35.63
8	34.42	34.70	.....	35.37	.....	.....	36.40	.....	.....	36.11	35.77	35.63
9	34.44	34.73	.....	35.38	.....	.....	36.40	.....	.....	36.10	35.77	35.63
10	34.45	34.74	.....	35.39	.....	.....	36.41	.....	.....	36.07	35.76	35.63
11	34.45	34.75	.....	35.40	.....	.....	36.41	.....	.....	36.06	35.76	35.62
12	34.45	34.76	.....	35.41	.....	.....	36.42	.....	.....	36.05	35.76	35.61
13	34.46	34.77	.....	35.43	.....	.....	36.42	.....	.....	36.03	35.75	35.61
14	34.47	34.78	.....	35.44	.....	.....	36.43	.....	.....	36.02	35.75	35.61
15	34.47	34.80	.....	35.46	.....	36.09	36.44	.....	.....	36.01	35.74	35.61
16	34.48	.....	.....	35.47	.....	36.13	36.44	.....	.....	36.00	35.74	35.61
17	34.49	.....	.....	35.48	.....	36.15	36.45	.....	.....	35.98	35.74	35.61
18	34.50	.....	.....	35.49	.....	36.16	36.46	.....	.....	35.96	35.73	35.61
19	34.50	.....	.....	35.49	.....	36.17	36.47	.....	.....	35.95	35.74	35.61
20	34.51	.....	.....	35.50	.....	36.19	36.47	.....	.....	35.94	35.74	35.60
21	34.51	.....	.....	35.52	.....	36.20	36.48	.....	36.36	35.93	35.74	35.60
22	34.52	.....	.....	35.53	.....	36.21	36.49	.....	36.35	35.93	35.73	35.59
23	34.52	.....	35.15	35.54	.....	36.23	36.49	.....	36.34	35.92	35.73	35.59
24	34.53	.....	35.19	35.56	.....	36.25	36.50	.....	36.31	35.92	35.72	35.59
25	34.53	.....	35.21	35.58	.....	36.26	36.50	.....	36.30	35.91	35.72	35.59
26	34.56	.....	35.23	35.58	.....	36.27	.....	.....	36.29	35.89	35.71	35.60
27	34.58	.....	35.25	35.59	.....	36.28	.....	.....	36.27	35.89	35.70	35.60
28	34.59	.....	35.26	35.60	.....	36.29	.....	.....	36.26	35.86	35.69	35.60
29	34.60	.....	35.26	35.61	.....	36.30	.....	.....	36.24	35.85	35.68	35.60
30	34.60	.....	35.27	35.62	.....	36.31	.....	.....	36.22	35.84	35.67	35.60
31	34.60	.....	35.28	.....	.....	.....	.....	.....	.....	35.83	.....	35.60

Osceola County

179. U. S. Geol. Survey. Deer Park. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 27 S., R. 34 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 18 feet, cased to 18 feet. Land-surface datum is 49 feet above msl. Highest water level 48.18 above msl, Sept. 29, 1949; lowest 43.24 above msl, June 8, 1949. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.70	45.13	45.35	44.68	45.94	45.33	44.95	45.82	46.35	47.22	46.42	46.48
2	45.70	45.70	45.33	44.67	45.89	45.26	45.76	47.00	46.18	48.04	46.37	46.45
3	45.68	46.30	45.30	44.65	45.83	45.26	45.71	46.73	46.13	47.05	46.33	46.42
4	45.66	46.30	45.27	44.63	45.78	45.25	45.70	46.66	45.23	46.93	46.30	46.72
5	45.65	46.16	45.25	44.60	45.71	45.02	45.66	46.90	46.07	46.85	46.25	46.70
6	45.64	45.10	45.21	44.58	45.65	44.95	45.60	47.35	46.78	46.80	46.23	46.65
7	45.61	46.36	45.19	45.59	45.60	44.91	46.75	47.00	46.63	46.75	46.18	46.60
8	45.57	46.41	45.16	45.66	45.55	44.90	46.68	46.83	46.52	46.72	46.14	46.56
9	45.55	46.21	45.12	45.64	45.51	44.85	46.61	46.73	46.36	47.07	46.10	46.47
10	45.53	46.12	45.10	45.63	45.47	44.84	46.75	46.68	46.23	46.88	46.07	46.40
11	45.50	46.06	45.07	45.58	45.43	44.80	46.66	46.62	46.14	46.75	46.05	46.35
12	45.49	46.00	45.12	45.68	45.42	44.96	46.60	46.55	46.05	46.72	46.01	46.31
13	45.47	45.95	45.07	45.69	45.49	44.92	46.48	46.47	46.01	46.69	45.98	46.27
14	45.45	45.90	45.03	45.65	45.35	44.85	46.40	46.74	45.95	46.80	45.95	46.24
15	45.44	45.85	45.00	45.60	45.30	44.80	46.54	46.69	45.90	46.75	45.92	46.27
16	45.41	45.82	44.98	45.55	45.27	44.85	46.27	46.64	46.54	46.70	47.38	46.20
17	45.40	45.77	44.96	45.50	45.24	44.75	46.15	46.59	46.60	46.67	47.17	46.17
18	45.38	45.73	44.95	45.45	45.19	44.74	46.09	46.96	47.10	46.65	46.93	46.17
19	45.36	45.70	44.94	46.60	45.15	45.20	46.14	46.73	46.90	46.62	46.82	46.20
20	45.35	45.66	44.93	46.63	45.11	45.47	45.95	46.65	46.80	46.75	46.76	46.16
21	45.34	45.64	44.95	46.65	45.07	45.50	45.90	46.57	46.70	46.71	46.73	46.14
22	45.32	45.58	44.90	46.60	45.02	45.40	45.86	46.46	46.65	46.66	46.72	46.12
23	45.30	45.55	44.89	46.54	44.97	45.33	45.84	46.38	46.57	46.87	46.70	46.10
24	45.28	45.51	44.87	46.43	45.15	45.25	46.60	46.33	46.48	46.81	46.68	46.07
25	45.27	45.48	44.85	46.33	44.96	45.18	46.55	46.27	46.37	46.73	46.67	46.05
26	45.26	45.45	44.83	46.24	44.94	45.10	46.39	46.22	46.31	46.68	46.65	46.02
27	45.22	45.42	44.80	46.17	44.95	45.02	46.22	46.18	46.24	46.63	46.63	45.99
28	45.20	45.38	44.79	46.10	45.64	44.95	46.10	46.47	46.20	46.59	46.61	45.96
29	45.17	.....	44.75	46.05	45.60	44.91	46.00	46.32	47.98	46.54	46.58	45.93
30	45.17	.....	44.73	45.97	45.50	45.07	45.91	46.20	47.47	46.48	46.54	45.90
31	45.15	.....	44.70	.....	45.41	.....	45.83	46.48	.....	46.45	.....	45.87

180. U. S. Geol. Survey. At Holopaw. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 27 S., R. 32 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 12 feet, cased to 10 feet. Land-surface datum is 74.50 feet above msl. Highest water level 74.32 above msl, Aug. 27, 1949; lowest 69.55 above msl, June 20, 1950. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.12	71.78	71.85	70.98	72.47	72.05	71.57	72.68	72.85	e73.99	72.77	72.62
2	73.00	73.55	71.80	70.95	72.42	71.95	71.50	73.82	72.68	73.83	72.67	72.60
3	72.93	73.80	71.75	70.93	72.34	71.88	71.44	73.82	72.57	73.66	73.10	72.60
4	72.85	73.38	71.70	70.88	72.25	71.95	72.17	73.83	72.48	73.49	72.62	73.53
5	72.77	73.17	71.65	70.85	72.16	71.79	72.05	73.83	73.08	73.31	72.54	73.25
6	72.73	73.05	71.60	70.85	72.07	71.69	71.89	73.81	72.70	73.03	72.51	73.05
7	72.69	73.56	71.57	72.75	71.99	71.61	71.72	73.73	72.48	72.87	72.45	72.88
8	72.50	72.98	71.52	72.75	71.92	71.91	71.65	73.50	72.38	72.75	72.37	72.79
9	72.45	72.89	71.46	72.60	71.85	71.65	73.04	73.25	72.28	72.77	72.33	72.70
10	72.42	72.79	71.42	72.82	71.81	71.58	72.64	73.00	72.20	72.67	72.30	72.62
11	72.38	72.74	71.33	72.62	71.74	71.54	72.45	72.79	72.14	72.45	72.27	72.55
12	72.35	72.66	71.37	72.80	71.70	72.12	72.30	72.64	72.07	72.40	72.30	72.77
13	72.32	72.61	71.83	72.56	72.35	72.13	72.16	72.52	71.99	72.36	72.25	72.46
14	72.30	72.58	71.73	72.38	72.10	71.85	72.05	72.86	71.94	72.45	72.22	72.44
15	72.42	72.51	71.63	72.26	71.93	71.75	71.94	72.59	71.87	72.96	72.19	e73.00
16	72.23	72.48	71.51	72.15	71.80	71.67	71.83	73.80	73.92	72.89	73.83	.....
17	72.20	72.45	71.42	72.06	71.67	71.59	71.74	73.22	73.46	73.05	73.83	.....
18	72.18	72.40	71.35	72.00	71.60	71.54	71.66	73.80	73.13	72.70	73.68	.....
19	72.16	72.35	71.32	73.83	71.54	72.75	73.00	73.37	73.80	72.54	73.57	.....
20	72.15	72.32	71.31	73.65	71.48	72.76	72.58	73.41	73.66	72.03	73.48	.....
21	72.11	72.26	71.46	73.45	71.42	72.40	73.36	73.33	73.49	73.19	73.37	e72.60
22	72.08	72.19	71.48	73.18	71.34	72.20	73.05	72.95	73.35	e74.12	73.20	e73.67
23	72.05	72.15	71.36	73.03	71.29	72.05	73.40	72.85	73.05	e73.98	73.20	.....
24	72.03	72.10	71.30	72.86	71.38	71.92	73.74	72.81	72.86	73.83	73.10	.....
25	72.01	72.04	71.26	72.77	71.29	71.80	73.80	72.70	72.75	73.70	73.00	.....
26	71.93	72.00	71.19	72.68	71.24	71.70	73.50	73.47	72.64	73.59	72.90	e73.72
27	71.90	71.95	71.15	73.26	72.75	71.60	73.34	73.74	72.53	73.49	72.85	73.48
28	71.88	71.90	71.12	72.75	73.12	71.90	73.81	73.99	72.50	73.34	72.80	73.30
29	71.85		71.09	72.67	72.50	71.75	73.18	73.57	e74.26	73.14	72.72	73.17
30	71.83		71.06	72.53	72.30	71.60	73.00	73.45	e74.10	72.95	72.64	72.99
31	71.79		71.00		72.16		72.83	73.10		72.87		72.88

e Estimated.

181. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 26 S., R. 31 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 15 feet, cased to 14 feet. Land-surface datum is 79 feet above msl. Highest water level 79.00 above msl, Sept. 29, 1949; lowest 73.50 above msl, June 9, 1949. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	75.98	75.33	75.22	74.67	.....	.....	74.75	76.65	76.13	78.18	77.02	77.37
2	75.96	75.70	75.19	74.70	.....	.....	74.65	76.78	76.04	78.70	76.97	77.32
3	75.93	76.07	76.17	76.65	.....	.....	74.60	76.65	75.98	78.42	77.04	77.27
4	75.89	76.09	75.15	74.65	.....	.....	75.14	76.56	75.94	78.29	76.88	77.97
5	75.85	76.05	75.12	74.60	.....	.....	75.19	76.63	77.38	78.13	76.83	77.56
6	75.84	76.00	75.10	74.59	.....	.....	75.13	76.55	77.07	77.95	76.78	77.46
7	75.82	76.04	75.08	75.52	.....	.....	75.06	76.50	76.94	77.91	76.80	77.36
8	75.78	75.98	75.06	75.73	.....	.....	75.32	76.45	76.80	77.77	76.75	77.27
9	75.75	75.93	75.04	75.70	.....	.....	75.16	76.40	76.68	77.64	76.65	77.22
10	75.74	75.87	75.02	75.70	.....	.....	75.13	76.35	76.59	77.53	76.63	77.17
11	75.71	75.83	75.00	75.64	.....	.....	76.01	76.30	76.50	77.42	76.60	77.20
12	75.70	75.77	75.05	75.65	.....	.....	75.84	76.25	76.42	77.33	76.56	77.07
13	75.68	75.73	75.03	75.64	.....	.....	75.70	76.21	76.35	77.27	76.54	77.02
14	76.66	75.68	74.99	75.57	.....	.....	75.61	76.18	76.30	77.21	76.50	76.97
15	75.65	75.64	74.96	75.52	.....	.....	76.16	76.17	78.05	77.16	76.47	77.14
16	75.63	75.60	74.94	75.46	.....	.....	75.94	76.13	77.62	77.12	78.74	76.95
17	75.60	75.56	74.93	75.40	.....	.....	75.82	76.09	77.49	77.06	78.84	76.90
18	75.59	75.53	74.90	75.36	.....	e74.50	75.74	76.37	78.05	77.01	78.51	77.25
19	75.56	75.50	74.87	75.32	.....	.....	76.54	76.50	77.45	76.96	78.38	77.13
20	75.55	75.47	74.88	76.10	.....	e75.37	76.30	76.56	78.02	76.94	78.26	77.07
21	75.53	75.44	74.89	76.09	.....	.....	76.47	76.47	77.83	76.90	78.12	77.00
22	75.51	75.41	74.85	76.02	.....	.....	76.36	76.35	77.67	76.88	78.03	76.97
23	75.50	75.37	74.83	75.94	.....	.....	76.51	76.25	77.55	77.79	e77.94	77.15
24	75.48	75.34	74.80	75.85	.....	.....	77.40	76.15	77.48	78.02	e77.85	77.00
25	75.46	75.31	74.78	75.76	.....	.....	77.88	76.08	77.42	77.65	e77.67	76.93

181--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	75.44	75.29	74.76	75.70	.....	.....	77.29	76.42	77.35	77.53	e77.70	76.88
27	75.41	75.26	74.74	75.61	e74.63	.....	77.13	76.32	77.27	77.42	e77.62	77.05
28	75.39	75.24	74.73	.....	.....	74.79	77.00	76.44	77.22	77.33	e77.55	76.85
29	75.38		74.70	.....	75.15	74.74	76.88	76.41	78.30	77.22	77.48	76.82
30	75.36		74.77	.....	.....	74.67	76.82	76.34	77.98	77.14	77.42	76.78
31	75.35		74.69	.....	.....		76.74	76.24		77.09		76.77

e Estimated.

182. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 31 S., R. 32 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 16 feet. Land-surface datum is 62 feet above msl. Highest water level 61.67 above msl, Oct. 2, 1951; lowest 55.94 above msl, Aug. 13, 1950. Records available: 1949-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.15	58.82	58.64	58.17	59.80	58.24	60.25	61.40	59.49	61.55	59.33	59.39
2	59.10	59.15	58.61	58.15	59.74	58.19	61.19	61.41	59.43	61.67	59.27	59.34
3	59.06	60.06	58.58	58.14	59.67	58.14	60.90	61.21	59.40	61.30	59.25	59.31
4	59.04	59.94	58.55	58.11	59.62	58.10	60.59	.....	59.46	61.02	59.18	59.75
5	59.01	59.80	58.51	58.10	59.55	58.08	60.34	.....	59.36	60.70	59.13	59.70
6	58.99	59.71	58.49	58.08	59.47	58.05	60.15	.....	59.39	60.45	59.10	59.67
7	58.97	59.85	58.46	60.04	59.40	58.00	61.20	.....	59.26	60.20	59.05	59.54
8	58.91	59.70	58.45	60.25	59.34	57.96	61.32	.....	59.19	60.05	58.98	59.46
9	58.87	59.61	58.40	60.00	59.29	57.93	61.12	.....	59.11	60.55	58.95	59.40
10	58.85	59.53	58.37	60.20	59.23	57.90	60.90	.....	59.04	60.45	58.91	59.33
11	58.83	59.46	58.35	60.07	59.16	58.90	60.65	.....	58.98	60.10	58.88	59.28
12	58.80	59.39	58.39	61.31	59.13	59.34	60.49	.....	58.92	59.90	58.85	59.23
13	58.79	59.34	58.55	61.21	59.12	59.24	61.08	.....	58.87	59.80	58.85	59.17
14	58.77	59.26	58.58	60.98	59.04	59.08	60.66	.....	58.80	59.92	58.83	59.13
15	58.76	59.20	58.58	60.65	58.97	58.96	61.36	.....	58.76	59.97	58.80	59.27
16	58.74	59.15	58.53	60.45	58.91	58.91	61.00	.....	61.07	59.75	58.80	59.30
17	58.71	59.10	58.49	60.55	58.86	59.04	60.76	e61.43	61.35	59.67	60.45	59.27
18	58.78	59.05	58.42	60.70	58.81	58.96	60.73	.....	61.49	59.60	60.45	59.27
19	58.68	59.00	58.40	61.24	58.75	59.09	61.12	.....	61.29	59.56	60.17	59.31
20	58.66	58.95	58.36	61.39	58.71	.....	61.23	.....	61.05	59.54	60.02	59.30
21	58.64	58.90	58.35	61.09	58.67	.....	61.45	.....	60.76	59.50	59.90	59.25
22	58.63	58.86	58.36	60.87	58.63	.....	61.41	.....	60.52	59.48	59.80	59.20
23	58.61	58.80	58.37	60.53	58.56	.....	61.27	.....	60.29	59.63	59.80	59.15
24	58.59	58.76	58.38	60.30	58.52	.....	61.05	.....	60.08	59.72	59.75	59.11
25	58.57	58.74	58.35	60.13	58.50	.....	60.81	.....	59.99	59.72	59.70	59.07
26	58.52	58.69	58.31	60.03	58.46	.....	60.65	.....	59.89	59.70	59.68	59.05
27	58.49	58.70	58.26	59.95	58.42	.....	60.38	.....	59.80	59.69	59.58	59.30
28	58.47	58.66	58.22	59.86	58.37	60.55	60.24	.....	59.97	59.57	59.54	59.28
29	58.45		58.19	60.05	58.35	60.73	60.21	59.71	60.88	59.46	59.48	59.24
30	58.45		58.18	59.85	58.31	60.37	61.50	59.62	61.32	59.40	59.43	59.18
31	58.44		58.18		58.28		61.36	59.57		59.37		59.11

e Estimated.

183. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 31 S., R. 33 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 27 feet, cased to 22 feet. Land-surface datum is 73 feet above msl. Highest water level 73.36 above msl, Aug. 27, 1949; lowest 68.47 above msl, May 20, 1950. Records available: 1948-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.02	70.37	70.53	70.15	71.51	70.07	71.13	72.14	72.32	73.13	71.38	71.80
2	70.95	71.90	70.49	70.07	71.49	70.02	71.00	73.10	72.13	73.24	71.30	71.75
3	70.94	72.13	70.45	70.02	71.36	69.98	70.90	73.18	72.96	72.78	71.33	71.60
4	70.91	71.89	70.40	69.97	71.29	69.94	70.83	72.80	72.45	72.45	71.22	71.80
5	70.90	71.79	70.36	69.94	71.20	69.90	70.75	73.10	73.10	72.28	71.15	71.75
6	70.89	71.69	70.33	69.93	71.14	69.87	70.65	72.75	72.80	72.10	71.12	71.67
7	70.90	71.97	70.30	72.05	71.07	69.83	70.59	73.08	72.42	72.00	71.09	71.60
8	70.82	71.65	70.26	71.86	71.01	69.79	70.89	72.67	72.16	71.88	71.04	71.55
9	70.79	71.56	70.24	71.70	70.96	69.75	71.04	72.36	71.94	72.90	71.00	71.50
10	70.77	71.46	70.20	72.10	70.90	69.73	71.45	72.15	71.77	72.37	70.96	71.47
11	70.75	71.39	70.17	71.85	70.85	69.70	71.28	71.97	71.66	72.06	70.94	71.45
12	70.73	71.31	70.56	73.10	70.81	69.75	72.42	71.75	71.52	71.81	70.91	71.40
13	70.72	71.25	70.61	72.56	71.09	69.77	72.10	71.63	71.42	71.75	71.00	71.35
14	70.70	71.19	70.55	72.26	70.89	69.75	73.08	71.60	71.35	71.80	70.95	71.31
15	70.77	71.14	70.48	72.09	70.76	69.71	72.52	72.80	71.27	71.64	70.90	71.29

183--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	70.67	71.10	70.40	71.93	70.70	69.69	72.30	72.19	72.60	71.55	73.17	71.65
17	70.65	71.06	70.32	71.85	70.65	69.66	71.98	71.98	71.95	71.48	73.21	71.45
18	70.63	71.01	70.25	72.25	70.59	69.90	71.83	72.97	73.16	71.40	73.00	71.40
19	70.60	70.96	70.19	73.12	70.55	70.20	71.65	72.13	72.87	71.34	72.76	71.64
20	70.60	70.93	70.17	72.92	70.50	70.34	71.52	71.99	72.51	71.50	72.57	71.50
21	70.58	70.87	70.41	72.60	70.45	70.35	71.48	71.74	72.27	71.40	72.45	71.43
22	70.56	70.83	70.44	72.34	70.40	70.20	72.28	71.59	72.08	71.35	72.36	71.37
23	70.54	70.77	70.34	72.75	70.35	70.11	71.96	71.45	71.87	71.69	72.67	71.30
24	70.52	70.74	70.25	71.97	70.33	70.03	73.11	72.43	71.70	72.13	72.40	71.26
25	70.50	70.69	70.17	72.02	70.32	69.96	72.88	71.63	71.65	71.80	72.30	71.23
26	70.46	70.65	70.13	72.62	70.29	69.88	72.64	73.12	71.51	71.75	72.18	71.20
27	70.44	70.62	70.08	72.00	70.27	69.80	72.46	72.39	71.43	72.28	72.10	71.38
28	70.41	70.56	70.05	71.81	70.25	71.16	72.28	72.20	71.65	71.89	72.05	71.32
29	70.11		70.00	71.69	70.19	71.35	72.10	73.15	72.77	71.68	71.95	71.25
30	70.40		70.23	71.56	70.15	71.20	72.88	72.65	72.95	71.55	71.86	71.18
31	70.38		70.21		70.11		72.33	72.92		71.47		71.13

Palm Beach County

88. U. S. Geol. Survey. South F Street and 1st Ave., Lake Worth. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 44 S., R. 43 E. Drilled observation water-table well in sand and gravel of Biscayne aquifer, diameter 6 inches, depth 17 feet, cased to 16 feet. Land-surface datum is 14.44 feet above msl. Highest water level 15.47 above msl, Oct. 5, 1948; lowest 4.44 above msl, June 16, 1945. Records available: 1944-51.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.95	6.97	6.53	5.83	....	6.26	6.43	5.82	5.66	6.32	7.87	6.97
2	7.92	6.96	6.50	5.80	....	6.23	6.37	5.81	5.59	7.67	7.84	6.94
3	7.89	7.46	6.47	5.77	....	6.19	6.33	5.78	5.55	7.54	7.80	6.92
4	7.85	7.25	6.45	5.76	....	6.15	6.30	5.76	5.50	7.45	7.75	6.89
5	7.82	7.20	6.42	5.75	....	6.12	6.25	5.74	5.48	7.37	7.71	6.85
6	7.78	7.15	6.39	5.73	....	6.10	6.20	5.73	5.45	7.32	7.68	6.83
7	7.76	7.10	6.37	5.79	....	6.06	6.51	5.70	5.43	7.25	7.65	6.80
8	7.71	7.05	6.34	5.70	....	6.04	6.35	5.68	5.40	7.19	7.61	6.77
9	7.68	7.00	6.31	5.69	....	6.00	6.29	5.66	5.38	7.15	7.57	6.75
10	7.65	6.96	6.34	5.93	....	5.98	6.25	5.63	6.87	7.25	7.55	6.71
11	7.62	6.95	6.28	7.05	....	5.95	6.24	5.60	6.42	7.13	7.53	6.68
12	7.58	6.94	6.26	6.81	....	5.93	6.21	5.58	6.32	7.08	7.50	6.65
13	7.56	6.90	6.25	6.75	....	6.76	6.18	5.56	6.24	7.05	7.46	6.63
14	7.53	6.88	6.23	6.72	....	6.23	6.15	5.55	6.15	9.14	7.43	6.60
15	7.50	6.85	6.20	6.69	....	6.16	6.14	5.53	6.08	8.61	7.40	6.57
16	7.45	6.84	6.17	6.65	....	6.85	6.10	5.51	6.00	8.56	7.37	6.55
17	7.42	6.83	6.15	7.35	....	6.49	6.08	6.63	5.94	8.52	7.45	6.52
18	7.39	6.80	6.13	6.93	....	6.65	6.09	6.09	5.86	8.47	7.37	6.50
19	7.37	6.77	6.10	7.00	....	6.73	6.05	5.95	5.81	8.43	7.34	6.47
20	7.34	6.75	6.08	7.13	....	6.67	6.03	5.85	5.76	8.39	7.31	6.44
21	7.32	6.74	6.06	7.03	....	6.67	6.00	5.78	5.73	8.34	7.27	6.40
22	7.27	6.71	6.04	7.02	....	6.69	5.99	5.74	5.69	8.29	7.24	6.38
23	7.24	6.68	6.01	7.02	....	6.70	5.97	5.69	5.63	8.25	7.21	6.35
24	7.21	6.66	6.00	7.01	....	6.70	5.96	5.64	5.59	8.20	7.18	6.31
25	7.17	6.64	5.96	7.00	....	6.70	5.94	5.58	5.55	8.16	7.15	6.43
26	7.14	6.61	5.94	7.00	....	6.66	5.93	5.54	5.51	8.13	7.12	6.33
27	7.11	6.57	5.91	....	....	6.62	5.91	5.51	5.47	8.09	7.10	6.30
28	7.08	6.55	5.89	....	6.45	6.57	5.90	5.49	5.46	8.05	7.07	6.26
29	7.05		5.87	....	6.38	6.53	5.88	6.40	6.16	8.00	7.03	6.24
30	7.02		5.85	....	6.34	6.47	5.86	5.85	5.87	7.95	7.00	6.21
31	6.99		5.85		6.30		5.84	5.73		7.92		6.19

99. U. S. Geol. Survey. Garden Ave. and Bradley St., West Palm Beach. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 44 S., R. 43 E. Drilled observation water-table well in sand and gravel of Biscayne aquifer, diameter 6 inches, depth 18 feet, cased to 16 feet. Land-surface datum is 14.43 feet above msl. Highest water level 14.06 above msl, Oct. 6, 1948; lowest 5.65 above msl, Aug. 21, 1949. Records available: 1948-51.

99--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.06	7.16	6.76	6.23	6.76	7.00	7.15	6.80	6.59	7.65	9.47	8.24
2	8.04	7.15	6.75	6.20	6.73	6.96	7.11	6.77	6.57	8.77	9.44	8.20
3	8.00	7.40	6.73	6.19	6.71	6.95	7.07	6.74	6.55	8.87	9.40	8.16
4	7.95	7.43	6.70	6.17	6.67	6.90	7.10	6.70	6.52	8.88	9.35	8.13
5	7.93	7.40	6.68	6.15	6.63	6.86	7.11	6.68	6.47	8.83	9.30	8.08
6	7.90	7.37	6.65	6.14	6.59	6.83	7.05	6.65	6.43	8.77	9.26	8.04
7	7.87	7.34	6.64	6.15	6.57	6.78	7.03	6.63	6.39	8.72	9.22	8.00
8	7.84	7.28	6.62	6.13	6.53	6.73	7.31	6.63	6.36	8.65	9.18	7.96
9	7.80	7.23	6.60	6.13	6.50	6.70	7.30	6.60	6.31	8.63	9.14	7.93
10	7.77	7.19	6.58	6.28	6.47	6.66	7.34	6.58	6.29	8.68	9.09	7.89
11	7.74	7.17	6.56	6.35	6.45	6.63	7.35	6.55	6.43	8.59	9.05	7.85
12	7.71	7.14	6.56	6.41	6.44	6.60	7.31	6.55	6.41	8.54	9.00	7.81
13	7.69	7.11	6.55	6.44	6.50	6.78	7.30	6.54	6.37	8.50	8.95	7.78
14	7.65	7.08	6.53	6.44	6.48	6.75	7.25	6.52	6.34	10.44	8.91	7.75
15	7.62	7.07	6.50	6.44	6.49	6.95	7.20	6.49	6.28	10.41	8.87	7.70
16	7.59	7.05	6.48	6.55	6.45	7.04	7.15	6.48	6.27	10.35	8.84	7.67
17	7.56	7.02	6.45	6.63	6.47	7.10	7.10	6.47	6.24	10.27	8.81	7.63
18	7.52	7.00	6.44	6.65	6.48	7.17	7.07	6.51	6.22	10.22	8.78	7.60
19	7.50	6.98	6.43	6.73	6.45	7.25	7.01	6.46	6.21	10.17	8.74	7.57
20	7.46	6.96	6.40	6.78	6.42	7.33	6.99	6.44	6.20	10.12	8.69	7.54
21	7.45	6.95	6.40	6.82	6.40	7.37	7.01	6.41	6.18	10.05	8.64	7.50
22	7.41	6.93	6.38	6.85	6.38	7.38	7.02	6.40	6.17	10.05	8.60	7.46
23	7.39	6.90	6.36	6.86	6.35	7.40	6.95	6.39	6.15	9.92	8.56	7.43
24	7.37	6.88	6.35	6.87	6.33	7.38	6.96	6.37	6.14	9.85	8.53	7.40
25	7.34	6.86	6.33	6.88	6.30	7.35	6.95	6.35	6.11	9.80	8.48	7.36
26	7.30	6.84	6.30	6.89	6.29	7.33	6.94	6.34	6.10	9.75	8.44	7.33
27	7.28	6.81	6.28	6.88	6.83	7.30	6.92	6.29	6.07	9.70	8.40	7.30
28	7.25	6.79	6.27	6.85	6.97	7.22	6.90	6.26	6.08	9.66	8.36	7.26
29	7.23		6.25	6.84	7.00	7.20	6.88	6.25	7.65	9.60	8.33	7.23
30	7.19		6.25	6.81	7.01	7.16	6.85	6.23	7.35	9.55	8.28	7.20
31	7.17		6.24		7.02		6.84	6.20		9.53		7.17

Pasco County

13. C. C. Cone. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 25 S., R. 19 E. Drilled unused water-table well in Floridan aquifer, diameter 6 inches, depth 43 feet, cased to 43. Land-surface datum is 80.5 feet above msl. Recording gage installed June 7, 1951. Highest water level 4.6 below lsd, Aug. 1945; lowest 10.5 below lsd, June 1945. Records available: 1934, 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 14, 1934	7.75	Mar. 1938	7.7	July 1940	5.3	Oct. 1942	6.8
Sept. 28	5.35	Apr. 1938	8.5	Aug. 1940	6.2	Nov. 1942	7.8
Feb. 1936	6.1	May 1938	9.2	Sept. 1940	6.1	Dec. 1942	8.3
Mar. 1936	5.2	June 1938	9.4	Oct. 1940	7.1	Jan. 1943	8.1
Apr. 1936	6.1	July 1938	8.1	Nov. 1940	7.8	Feb. 1943	8.5
May 1936	7.4	Aug. 1938	6.0	Dec. 1940	8.3	Mar. 1943	8.0
June 1936	7.6	Sept. 1938	7.0	Jan. 1941	6.3	Apr. 1943	8.2
July 1936	7.9	Oct. 1938	6.4	Feb. 1941	6.2	May 1943	7.8
Aug. 1936	7.2	Nov. 1938	5.9	Mar. 1941	6.0	June 1943	7.2
Sept. 1936	8.0	Dec. 1938	7.3	Apr. 1941	6.0	July 1943	5.0
Oct. 1936	7.2	Jan. 1939	7.6	May 1941	7.3	Aug. 1943	5.0
Nov. 1936	7.0	Feb. 1939	7.5	June 1941	8.6	Sept. 1943	5.1
Dec. 1936	7.6	Mar. 1939	8.5	July 1941	7.0	Oct. 1943	6.5
Jan. 1937	7.6	Apr. 1939	8.8	Aug. 1941	7.3	Nov. 1943	7.6
Feb. 1937	7.8	May 1939	9.2	Sept. 1941	6.8	Dec. 1943	7.5
Mar. 1937	6.2	June 1939	8.0	Oct. 1941	7.5	Jan. 1944	6.6
Apr. 1937	5.2	July 1939	6.0	Nov. 1941	7.1	Feb. 1944	7.5
May 1937	6.7	Sept. 1939	6.1	Dec. 1941	7.0	Mar. 1944	7.8
June 1937	7.0	Oct. 1939	6.2	Jan. 1942	6.9	Apr. 1944	7.8
July 1937	6.8	Nov. 1939	7.2	Feb. 1942	7.4	May 1944	8.9
Aug. 1937	5.1	Dec. 1939	7.7	Mar. 1942	6.2	June 1944	8.9
Sept. 1937	5.8	Jan. 1940	7.4	Apr. 1942	6.4	July 1944	7.2
Oct. 1937	6.4	Feb. 1940	6.2	May 1942	7.9	Aug. 1944	6.7
Nov. 1937	6.9	Mar. 1940	7.1	June 1942	6.8	Sept. 1944	6.8
Dec. 1937	5.8	Apr. 1940	7.1	July 1942	6.1	Oct. 1944	6.2
Jan. 1938	6.5	May 1940	8.3	Aug. 1942	6.1	Nov. 1944	7.0
Feb. 1938	7.1	June 1940	6.6	Sept. 1942	6.0	Dec. 1944	7.6

13--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1945	7.2	July 1946	7.1	Dec. 1947	6.7	Mar. 1949	8.6
Feb.	8.0	Aug.	6.3	Jan. 1948	6.9	Apr.	7.2
Mar.	8.7	Sept.	6.1	Feb.	6.3	May	9.2
Apr.	9.4	Oct.	6.8	Mar.	6.3	June	8.8
May	10.1	Jan. 1947	8.8	Apr.	6.9	July	8.6
June	10.5	Feb.	7.9	May	8.1	Aug.	9.0
July	5.6	Mar.	6.7	June	9.0	Sept.	5.6
Aug.	4.6	Apr.	7.1	July	7.0	Oct.	5.2
Sept.	5.3	May	7.7	Aug.	5.5	Nov.	6.3
Oct.	6.0	June	7.3	Sept.	6.0	Dec.	7.0
Nov.	7.4	July	6.8	Oct.	5.9	Jan. 23, 1950	7.6
Dec.	7.4	Aug.	5.1	Nov.	7.1	Feb. 9	8.0
Jan. 1946	7.0	Sept.	4.9	Dec.	7.1	Mar. 9	7.7
Feb.	7.6	Oct.	5.2	Jan. 1949	7.7	Apr. 13	8.3
Mar.	6.3	Nov.	6.1	Feb.	7.9	Aug.	7.67
June	8.0						

Daily mean water level, below lsd, from recorder graph, 1951*

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	8.96	6.70	....	5.83	7.36	6.42
2	....	8.73	6.65	....	5.82	7.39	6.42
3	....	8.72	6.43	....	5.96	6.96	6.43
4	....	8.73	6.50	....	6.09	6.95	6.41
5	....	8.76	6.61	....	6.19	6.95	6.43
6	....	8.72	6.56	....	6.16	6.99	6.48
7	....	8.77	....	....	6.34	7.04	6.54
8	8.47	8.88	....	....	6.42	7.12	6.59
9	8.49	8.84	....	....	6.49	7.18	6.62
10	8.50	8.76	....	....	6.54	7.12	6.65
11	8.52	8.80	....	....	6.62	7.16	6.66
12	8.53	8.84	....	....	6.69	7.29	6.71
13	8.54	8.91	....	....	6.74	7.31	6.77
14	8.61	8.97	....	....	6.78	7.34	6.79
15	8.64	9.00	....	....	6.81	7.35	6.66
16	8.70	9.03	....	....	6.86	6.34	6.52
17	8.73	9.06	....	....	6.91	5.72	6.57
18	8.69	9.04	....	....	6.96	5.76	6.50
19	8.54	9.01	....	....	6.99	5.82	6.29
20	8.57	9.00	....	....	7.01	5.89	6.19
21	8.64	8.97	....	....	7.05	5.94	6.32
22	8.67	8.68	....	....	7.09	5.98	6.31
23	8.63	8.55	....	....	7.12	6.02	6.20
24	8.72	8.38	....	....	7.15	6.06	6.25
25	8.76	7.57	....	6.23	7.19	6.11	6.19
26	8.83	7.25	....	6.32	7.19	6.16	6.30
27	8.87	6.92	....	6.42	7.19	6.19	6.39
28	8.93	6.81	....	6.40	7.21	6.14	6.46
29	8.93	6.74	....	5.99	7.29	6.30	6.49
30	8.95	6.63	....	5.95	7.31	6.39	....
31	....	6.60	....	....	7.45	....	....

* No record for January, February, March, April, and May.

16. A. Messick. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 25 S., R. 21 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, depth 1,008, cased to 20. Land-surface datum is 135.5 feet above msl. Recording gage installed Aug. 23, 1951. Highest water level 54.6 below lsd, Sept. 1945; lowest 72.0 below lsd, June 1945. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb., 1936	63.3	Dec., 1936	64.2	Oct., 1937	62.3	Aug., 1938	66.0
Mar.	60.9	Jan., 1937	64.7	Nov.	62.6	Sept.	65.4
Apr.	60.9	Feb.	66.0	Dec.	62.7	Oct.	66.5
May	62.7	Mar.	66.2	Jan., 1938	63.3	Nov.	66.0
June	63.8	Apr.	66.0	Feb.	64.6	Dec.	66.8
July	62.2	May	64.9	Mar.	65.3	Jan., 1939	67.0
Aug.	63.0	June	65.5	Apr.	66.8	Feb.	67.8
Sept.	63.4	July	66.3	May	67.7	Mar.	68.4
Oct.	63.6	Aug.	63.5	June	68.3	Apr.	69.2
Nov.	63.0	Sept.	62.3	July	67.6	May	69.7

16--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 1939	70.8	Feb. 1942	67.0	Sept. 1944	67.0	July 1947	64.4
July	68.0	Mar.	65.5	Oct.	66.9	Aug.	61.8
Sept.	64.0	Apr.	64.4	Nov.	65.5	Sept.	60.0
Oct.	64.5	May	65.6	Dec.	66.4	Oct.	59.5
Nov.	66.0	June	66.3	Jan. 1945	67.6	Nov.	59.5
Dec.	67.3	July	64.7	Feb.	68.2	Dec.	61.0
Jan. 1940	68.3	Aug.	65.1	Mar.	69.1	Jan. 1948	62.8
Feb.	68.8	Sept.	65.6	Apr.	70.3	Feb.	62.3
Mar.	68.6	Oct.	66.3	May	71.3	Mar.	63.4
Apr.	68.6	Nov.	67.5	June	72.0	Apr.	64.3
May	69.2	Dec.	68.6	July	64.4	May	64.7
June	69.8	Jan. 1943	69.4	Aug.	57.3	June	65.2
July	68.0	Feb.	69.9	Sept.	54.6	July	64.4
Aug.	65.6	Mar.	70.5	Oct.	55.6	Aug.	63.8
Sept.	65.8	Apr.	70.8	Nov.	58.3	Sept.	63.6
Oct.	66.9	May	71.2	Dec.	59.7	Nov.	64.4
Nov.	68.1	June	71.2	Jan. 1946	60.7	Dec.	65.2
Dec.	69.1	July	67.5	Feb.	61.7	Apr. 1949	69.0
Jan. 1941	69.8	Aug.	64.9	Mar.	61.3	May	69.6
Feb.	68.4	Sept.	63.9	June	64.5	June	70.5
Mar.	66.6	Oct.	63.9	July	63.0	July	70.5
Apr.	62.4	Nov.	65.6	Aug.	60.7	Aug.	70.3
May	63.4	Dec.	66.8	Sept.	60.8	Sept.	62.1
June	65.4	Jan. 1944	67.4	Oct.	61.1	Oct.	60.0
July	64.6	Feb.	68.4	Jan. 1947	65.4	Nov.	59.9
Aug.	62.7	Mar.	69.2	Feb.	66.8	Dec.	61.6
Sept.	64.0	Apr.	69.6	Mar.	66.4	Jan. 23, 1950	64.0
Oct.	65.4	May	70.1	Apr.	64.9	Feb. 9	65.7
Nov.	65.9	June	70.8	May	65.1	Mar. 9	65.5
Dec.	66.4	July	71.2	June	64.4	Apr. 13	65.9
Jan. 1942	66.4	Aug.	68.6				

Daily mean water level, below lsd, from recorder graph, 1951 *

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.62	64.94	64.87	.....	17	.....	66.01	64.44	65.56	.....
2	65.65	64.80	64.88	.....	18	.....	66.04	64.46	65.53	.....
3	65.68	64.79	64.99	.....	19	.....	66.03	64.45	65.40	.....
4	65.70	64.77	65.05	.....	20	.....	65.94	64.48	65.30	.....
5	65.72	64.72	65.08	.....	21	.....	65.79	64.53	65.22	.....
6	65.73	64.64	65.09	.....	22	.....	65.64	64.55	65.08	.....
7	65.73	64.60	65.14	.....	23	.....	65.53	64.56	64.93	.....
8	65.79	64.54	65.23	.....	24	65.71	65.43	64.58	64.88	.....
9	65.79	64.48	65.27	.....	25	65.69	65.33	64.63	64.83	.....
10	65.82	64.47	65.31	.....	26	65.68	65.26	64.67	64.76	.....
11	65.85	64.49	65.34	.....	27	65.66	65.20	64.66	64.68	.....
12	65.87	64.46	65.38	.....	28	65.64	65.15	64.68	64.64	.....
13	65.89	64.49	65.42	.....	29	65.63	65.10	64.75	.....	65.10
14	65.93	64.42	65.48	.....	30	65.61	65.05	64.81	.....	65.14
15	65.97	64.39	65.53	.....	31	65.60		64.84	.....	65.19
16	65.98	64.42	65.55	.....					

* No record for January, February, March, April, May, June, and July.

Pinellas County

13. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 27 S., R. 15 E. Drilled observation artesian well in Floridan aquifer, diameter 6 inches, depth 141 feet, cased to 33. Land-surface datum is 11.88 feet above msl. Highest water level 6.65 below lsd, Aug. 17, 1949; lowest 10.70 below lsd, May 3, 1950. Records available: 1947-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.58	9.64	9.64	9.60	9.44	9.80	9.45	9.20	8.93	8.74	9.39	9.23
2	9.58	9.84	9.66	9.53	9.44	9.75	9.50	9.18	8.94	8.70	9.20	9.20
3	9.65	9.85	9.68	9.55	9.44	9.74	9.55	9.13	9.00	8.73	9.40	9.18
4	9.74	9.80	9.65	9.60	9.42	9.83	9.53	9.10	9.03	8.74	9.45	9.08
5	9.85	9.80	9.67	9.62	9.40	9.80	9.55	9.10	9.05	8.76	9.50	9.10
6	9.88	9.72	9.70	9.52	9.52	9.78	9.55	9.08	9.18	8.76	9.38	9.08
7	9.85	9.75	9.70	9.16	9.55	9.82	9.55	9.06	9.38	8.75	9.30	9.11

13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	9.95	9.80	9.68	9.30	9.58	9.80	9.54	9.04	9.53	8.75	9.48	9.18
9	10.15	9.75	9.65	9.36	9.57	9.82	9.52	9.05	9.74	8.75	9.46	9.18
10	10.17	9.77	9.70	9.29	9.55	9.84	9.54	9.06	9.81	8.78	9.42	9.24
11	10.05	9.78	9.60	9.18	9.55	9.80	9.52	9.06	9.86	8.83	9.44	9.25
12	9.95	9.76	9.50	9.21	9.54	9.75	9.51	9.08	9.94	8.90	9.41	9.27
13	9.83	9.72	9.32	9.22	9.60	9.75	9.53	9.05	9.92	9.01	9.45	9.30
14	9.69	9.76	9.48	9.25	9.69	9.72	9.55	9.06	9.78	9.43	9.35	9.28
15	9.63	9.78	9.66	9.20	9.70	9.72	9.60	9.02	9.68	9.60	9.40	9.30
16	9.72	9.79	9.64	9.22	9.67	9.70	9.60	9.01	9.66	9.64	9.40	9.65
17	9.77	9.78	9.47	9.20	9.70	9.70	9.58	9.01	9.51	9.77	9.33	9.72
18	9.69	9.77	9.32	9.21	9.72	9.63	9.58	9.00	9.40	9.86	9.32	9.65
19	9.68	9.76	9.33	9.19	9.75	9.59	9.55	8.97	9.40	9.81	9.21	9.80
20	9.69	9.70	9.55	9.24	9.75	9.60	9.53	8.98	9.37	9.63	9.13	9.75
21	9.73	9.70	9.63	9.28	9.74	9.58	9.51	8.99	9.17	9.47	9.10	9.60
22	9.75	9.75	9.65	9.23	9.72	9.50	9.52	8.99	9.07	9.40	9.06	9.65
23	9.68	9.72	9.60	9.30	9.77	9.51	9.51	9.00	9.01	9.39	9.02	9.60
24	9.68	9.72	9.52	9.33	9.60	9.51	9.48	9.00	9.88	9.37	8.99	9.59
25	9.72	9.68	9.55	9.30	9.73	9.47	9.40	8.98	8.93	9.35	9.01	9.51
26	9.75	9.60	9.67	9.34	9.61	9.45	9.40	8.96	8.89	9.35	9.03	9.53
27	9.71	9.62	9.52	9.38	9.63	9.45	9.34	8.95	8.86	9.34	9.01	9.67
28	9.67	9.60	9.27	9.42	9.61	9.50	9.35	8.95	8.84	9.29	9.08	9.62
29	9.68		9.17	9.39	9.62	9.50	9.28	8.94	8.80	9.35	9.13	9.60
30	9.68		9.44	9.38	9.73	9.45	9.26	8.93	8.78	9.40	9.20	9.52
31	9.66		9.75		9.77		9.25	8.93		9.36		9.55

77. R. Duguid. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 28 S., R. 15 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 100 feet. Land-surface datum is 69.50 feet above msl. Highest water level 62.79 below lsd, Sept. 6, 1950; lowest 67.95 below lsd, May 20, 1949. Records available: 1947-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.30	65.21	65.57	65.43	65.43	66.85	65.32	65.08	64.70	64.57	65.59	65.28
2	65.16	65.62	65.82	65.52	65.49	66.60	65.48	65.08	64.69	64.36	65.62	65.10
3	65.19	65.86	65.65	65.37	65.47	65.90	65.45	65.00	64.72	64.54	65.45	64.96
4	65.20	65.78	65.39	65.55	65.35	66.25	65.42	64.93	64.80	64.60	65.32	64.80
5	65.30	65.68	65.54	65.67	65.29	66.63	65.41	64.94	64.88	64.65	65.73	64.84
6	65.33	65.51	65.69	65.57	65.39	66.60	65.43	65.03	64.93	64.72	65.39	64.90
7	65.20	65.25	65.47	64.98	65.80	66.33	65.41	65.06	65.04	64.68	65.38	64.98
8	65.41	65.61	65.47	64.85	66.47	66.39	65.40	65.02	65.10	64.70	66.14	65.05
9	65.70	65.59	65.60	64.93	66.62	66.85	65.39	65.01	65.20	64.68	66.13	65.07
10	65.65	65.58	65.82	64.96	66.50	66.05	65.39	65.09	65.27	64.80	65.61	65.10
11	65.50	65.68	65.48	64.99	66.52	66.64	65.39	65.13	65.27	65.07	65.39	65.10
12	65.46	65.65	65.21	65.01	66.19	66.13	65.41	65.10	65.29	65.18	65.63	65.17
13	65.46	65.59	65.00	65.18	65.71	66.62	66.45	65.03	65.30	65.27	65.46	65.19
14	65.31	65.59	65.18	65.28	66.45	66.52	65.43	65.03	65.28	65.34	65.28	65.11
15	65.18	65.61	65.24	65.25	66.50	66.50	65.45	64.93	65.32	65.38	65.40	64.97
16	65.44	65.60	65.20	65.12	66.50	66.20	65.45	64.90	65.22	65.34	64.95	65.50
17	65.53	65.59	65.42	65.18	66.40	65.72	65.40	64.92	65.09	65.36	65.03	65.64
18	65.33	65.47	65.17	65.28	66.38	65.82	65.30	64.93	64.90	65.38	65.45	65.23
19	65.33	65.61	65.09	65.21	66.10	65.50	65.25	64.85	65.02	65.35	65.47	65.40
20	65.31	65.53	65.27	65.22	65.87	65.50	65.26	64.87	65.04	65.27	65.44	65.35
21	65.30	65.32	65.28	65.30	66.40	65.49	65.24	64.89	65.00	65.15	65.44	65.27
22	65.20	65.68	65.61	65.20	66.56	65.48	65.25	64.87	64.90	65.16	65.30	65.44
23	65.39	65.75	65.58	65.18	66.30	65.45	65.30	64.87	64.84	65.31	65.10	65.49
24	65.29	65.70	65.35	65.30	66.47	65.51	65.26	64.90	64.85	65.43	64.97	65.49
25	65.31	65.40	65.22	65.38	66.58	65.53	65.21	64.90	64.85	65.47	64.96	65.40
26	65.62	65.52	65.50	65.37	65.96	65.48	65.17	64.86	64.80	65.50	64.95	65.30
27	65.50	65.63	65.52	65.45	65.72	65.43	65.11	64.80	64.82	65.30	64.94	65.47
28	65.40	65.63	65.28	65.54	66.10	65.43	65.08	64.76	64.86	65.01	64.98	65.68
29	65.33		65.07	65.49	66.15	65.44	65.02	64.73	64.83	65.35	65.17	65.34
30	65.37		65.23	65.40	66.54	65.36	64.96	64.73	64.83	65.50	65.37	65.14
31	65.34		65.83		66.37		65.02	64.73		65.39		65.18

166. Juice Industries, Inc. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 28 S., R. 15 E. At Dunedin. Drilled industrial artesian well in Floridan aquifer, diameter 12 inches, reported depth 200 feet. Land-surface datum is 13.57 feet above msl. Highest water level 8.12 below lsd, Sept. 5, 1950; lowest 17.01 below lsd, May 27, 1949. Records available: 1948-51.

166--Continued.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	11.26	11.84	.....	12.18	14.13	12.70	11.33	.....	10.35	.....	.....
2	.....	11.48	12.00	.....	12.29	14.10	13.28	11.62	.....	10.15	.....	.....
3	.....	11.28	12.10	.....	12.34	14.18	13.07	11.04	.....	9.93	.....	.....
4	.....	10.92	12.11	.....	12.30	14.01	12.40	11.13	.....	10.02	.....	.....
5	.....	10.98	11.80	.....	12.26	14.11	12.63	.....	.....	9.98	.....	.....
6	.....	10.95	11.80	.....	12.43	14.18	12.99	.....	.....	9.90	.....	.....
7	.....	10.85	11.82	.....	12.46	14.15	13.20	11.02	.....	9.90	.....	.....
8	.....	11.06	11.96	.....	12.69	14.16	12.93	.....	.....	9.88	.....	.....
9	.....	11.12	12.00	.....	12.84	14.24	12.73	.....	.....	9.87	.....	.....
10	.....	11.18	11.26	.....	12.86	14.10	12.67	.....	.....	9.98	.....	.....
11	.....	11.37	11.20	.....	12.90	13.90	12.40	.....	10.94	9.95	.....	.....
12	.....	11.34	11.57	.....	12.87	13.56	12.26	.....	11.11	10.06	.....	.....
13	.....	11.43	11.37	.....	12.52	13.73	12.72	.....	11.43	10.19	.....	.....
14	.....	11.59	11.50	.....	12.41	13.64	12.82	.....	11.62	.....	11.11	.....
15	.....	11.74	11.59	.....	12.57	13.52	12.82	.....	11.70	.....	11.08	.....
16	.....	11.85	11.60	.....	12.75	13.54	12.98	.....	11.75	.....	10.50	.....
17	.....	11.73	11.71	.....	12.75	13.72	13.15	.....	11.16	.....	.....	.....
18	.....	11.36	11.60	.....	12.80	13.45	12.93	.....	10.67	.....	.....	.....
19	.....	11.29	11.54	.....	12.98	13.00	12.30	.....	10.53	.....	.....	.....
20	.....	11.38	11.39	11.22	13.00	12.71	12.04	.....	10.35	.....	.....	.....
21	.....	11.34	.....	11.29	12.85	12.76	12.06	.....	10.21	.....	.....	.....
22	.....	11.39	.....	11.39	13.04	13.14	11.95	.....	10.05	.....	.....	.....
23	10.96	11.54	.....	11.24	13.17	13.23	11.83	.....	9.97	.....	.....	.....
24	11.08	11.62	.....	11.42	13.14	13.29	11.89	.....	9.97	.....	.....	.....
25	11.12	11.80	.....	11.80	13.39	13.20	11.82	.....	10.30	.....	.....	.....
26	11.14	11.44	.....	11.74	13.34	12.79	11.67	.....	10.12	.....	.....	.....
27	11.23	11.47	.....	11.73	13.37	13.20	11.60	.....	10.23	.....	.....	.....
28	11.36	11.74	.....	11.95	13.32	13.18	11.50	.....	10.61	.....	.....	.....
29	10.98	.....	.....	12.00	13.41	13.35	11.42	.....	10.77	.....	.....	.....
30	11.17	.....	.....	11.94	13.81	13.21	11.33	.....	10.60	.....	.....	.....
31	11.12	.....	.....	.....	14.05	.....	11.40	.....	.....	.....	.....	.....

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.45	13.71	.....	14.06	.....	15.03	13.53	.....	11.74	.....	12.55
2	.....	12.66	13.67	.....	14.40	.....	15.23	13.38	.....	11.55	.....	12.42
3	.....	12.78	13.93	.....	14.53	.....	14.69	12.37	.....	11.48	.....	12.43
4	.....	12.53	13.73	.....	14.55	.....	14.19	12.34	.....	11.60	.....	11.50
5	.....	12.61	14.07	.....	14.67	.....	14.59	12.28	.....	11.55	.....	11.41
6	.....	12.68	14.14	.....	14.68	.....	15.01	12.62	.....	11.49	.....	11.55
7	.....	12.40	14.49	.....	14.95	.....	14.59	12.75	.....	12.01	.....	12.20
8	.....	12.77	14.50	.....	15.20	.....	14.17	.....	.....	12.15	.....	12.20
9	.....	12.56	14.70	.....	15.31	.....	14.32	.....	.....	12.08	.....	12.10
10	.....	12.76	14.56	.....	15.22	.....	14.15	.....	.....	12.37	.....	12.14
11	.....	12.69	14.14	.....	15.00	15.78	14.13	.....	12.98	12.00	.....	12.00
12	.....	13.15	13.56	.....	14.57	14.66	14.65	.....	13.25	12.47	.....	12.03
13	.....	13.33	12.67	.....	13.77	15.58	14.88	.....	13.36	.....	.....	12.40
14	.....	13.47	12.76	.....	13.69	16.05	14.93	.....	13.38	.....	13.51	12.23
15	.....	13.56	12.70	.....	14.75	15.41	14.99	.....	13.39	.....	13.37	11.70
16	.....	13.70	13.45	.....	15.03	15.64	15.37	.....	12.73	.....	12.51	12.32
17	.....	13.62	13.42	.....	14.93	15.74	15.45	.....	12.46	.....	11.88	11.96
18	.....	12.73	13.35	.....	15.29	14.92	14.47	.....	11.96	.....	12.20	12.15
19	.....	13.50	13.37	.....	15.59	15.00	13.73	.....	11.77	.....	12.13	11.60
20	.....	13.67	12.72	12.59	15.24	14.56	13.80	.....	11.55	.....	11.82	11.62
21	.....	13.28	.....	12.79	15.62	14.42	13.49	.....	11.79	.....	11.74	11.38
22	.....	13.68	.....	12.73	15.88	15.15	13.49	.....	11.62	.....	12.04	11.43
23	13.08	13.48	.....	13.54	15.79	15.21	13.41	.....	11.43	.....	12.18	11.17
24	13.33	13.46	.....	13.89	15.84	15.13	13.26	.....	12.05	.....	12.32	11.26
25	12.73	13.27	.....	13.22	15.50	14.94	13.25	.....	12.45	.....	12.15	11.14
26	12.92	13.25	.....	12.93	15.37	14.98	13.46	.....	12.81	.....	12.38	11.50
27	12.80	13.75	.....	13.60	15.14	15.02	13.32	.....	12.88	.....	12.25	11.85
28	12.56	13.63	.....	13.66	15.65	15.34	13.30	.....	12.99	.....	12.24	12.33
29	13.04	.....	.....	13.53	15.92	15.36	13.30	.....	13.03	.....	12.34	12.31
30	12.50	.....	.....	13.74	.....	15.16	12.58	.....	12.13	.....	12.80	12.12
31	13.17	.....	.....	.....	.....	.....	13.33	.....	.....	.....	.....	12.38

246. City of Clearwater. Garden and Marshall Sts. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 29 S., R. 15 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 100 feet. Land-surface datum is 32.27 feet above msl. Highest water level 23.64 below lsd, Sept. 6, 1950; lowest 27.40 below lsd, May 22, 1951. Records available: 1946-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.95	26.03	26.27	26.30	26.14	27.28	26.28	25.90	25.55	25.41	26.11	26.11
2	25.80	26.50	26.33	26.15	26.23	27.22	26.38	25.93	25.55	25.10	25.94	25.88
3	25.68	26.70	26.27	26.11	26.25	26.98	26.42	25.85	25.60	25.32	26.03	25.71
4	25.73	26.52	26.20	26.25	26.21	26.95	26.29	25.77	25.63	25.47	26.19	25.50
5	25.87	26.44	26.20	26.37	26.15	27.12	26.28	25.78	25.68	25.58	26.29	25.50
6	25.90	26.18	26.33	26.23	26.39	27.17	26.39	25.87	25.69	25.62	26.00	25.55
7	25.73	25.98	26.35	25.69	26.47	27.20	26.42	25.88	25.72	25.58	25.89	25.69
8	26.08	26.40	26.40	25.61	26.65	27.25	26.31	25.89	25.79	25.60	26.28	25.80
9	26.42	26.29	26.50	25.68	26.72	27.25	26.25	25.93	25.82	25.60	26.42	25.80
10	26.30	26.27	26.62	25.65	26.66	27.06	26.24	26.07	25.92	25.74	26.37	25.88
11	26.10	26.37	26.44	25.63	26.58	26.93	26.25	26.13	25.99	26.04	26.25	25.85
12	26.05	26.33	26.08	25.70	26.52	26.90	26.34	26.07	26.07	26.18	26.21	25.94
13	26.07	26.28	25.87	25.92	26.41	26.88	26.45	25.97	26.11	26.27	26.15	26.02
14	25.88	26.32	26.04	26.03	26.60	27.00	26.50	25.90	26.13	26.28	26.06	25.86
15	25.76	26.38	26.10	26.00	26.87	26.98	26.50	25.81	26.17	26.20	26.05	25.75
16	26.18	26.38	26.20	25.86	26.85	26.83	26.57	25.77	26.11	26.13	25.80	26.31
17	26.30	26.35	26.17	25.88	26.80	26.66	26.53	25.76	25.91	26.15	25.79	26.35
18	26.09	26.25	25.93	25.92	26.90	26.56	26.33	25.80	25.65	26.18	26.30	25.80
19	26.06	26.20	25.82	25.84	26.93	26.40	26.13	25.75	25.78	26.19	26.28	25.96
20	26.05	26.12	25.91	25.86	26.80	26.31	26.10	25.73	25.82	26.06	26.25	25.76
21	26.06	25.96	26.04	25.95	26.76	26.25	26.09	25.73	25.80	25.91	26.26	25.68
22	26.17	26.14	26.18	25.95	26.96	26.24	26.07	25.75	25.72	25.94	26.07	25.94
23	26.13	26.27	26.22	25.90	26.94	26.30	26.05	25.75	25.71	26.04	25.89	26.05
24	26.06	26.26	26.10	26.06	26.82	26.35	26.04	25.72	25.78	26.09	25.77	26.08
25	26.12	26.20	26.09	26.12	26.90	26.37	25.99	25.73	25.82	26.21	25.77	26.02
26	26.43	26.10	26.24	26.08	26.80	26.33	25.94	25.70	25.82	26.27	25.77	25.92
27	26.32	26.12	26.26	26.11	26.68	26.37	25.86	25.66	25.87	26.19	25.75	26.15
28	26.21	26.14	26.04	26.22	26.65	26.38	25.79	25.68	25.92	25.98	25.72	26.37
29	26.13		25.88	26.17	26.90	26.42	25.74	25.68	25.77	25.98	25.92	25.98
30	26.22		25.96	26.05	27.12	26.34	25.75	25.65	25.62	26.18	26.19	25.83
31	26.14		26.36		27.22		25.80	25.59		26.20		25.88

269. City of Clearwater. Lady Mary Dr. and Evergreen Ave. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 29 S., R. 15 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 192 feet. Land-surface datum is 15.03 feet above msl. Highest water level 4.31 below lsd, Sept. 24, 1947; lowest 14.11 below lsd, May 31, 1951. Records available: 1930, 1947-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.82	7.60	8.41	8.18	....	10.70	9.05	6.90	6.72	6.33	8.66	7.83
2	6.60	7.53	8.36	8.47	....	10.50	9.02	7.39	7.04	6.08	8.95	7.53
3	6.58	7.98	8.22	7.51	....	....	8.84	7.29	7.15	6.01	7.80	7.45
4	6.60	7.84	8.34	7.88	....	....	8.41	6.84	7.14	6.39	7.51	7.51
5	6.81	7.41	7.84	8.43	....	....	8.90	7.09	7.13	7.01	7.43	6.90
6	6.84	7.36	8.47	8.18	....	....	9.05	6.90	7.18	7.42	7.97	7.02
7	6.98	7.55	8.36	7.60	....	....	9.02	8.00	7.29	6.87	7.36	7.21
8	6.64	7.18	8.37	7.33	....	10.92	8.80	7.30	7.55	7.53	7.49	7.28
9	7.01	7.36	8.53	7.31	....	10.88	8.64	7.64	7.52	7.65	7.85	7.90
10	7.20	7.31	8.99	7.34	....	10.49	8.75	8.22	7.77	7.16	8.45	7.46
11	7.21	7.53	8.90	7.48	....	9.56	8.45	8.48	7.65	7.82	8.44	7.46
12	7.26	7.67	8.01	7.00	....	9.90	8.89	8.49	8.39	7.95	8.11	7.34
13	7.30	7.77	7.94	6.94	....	9.09	9.09	7.67	8.65	7.70	8.91	7.46
14	7.50	7.81	7.84	7.22	....	10.02	9.38	7.61	8.70	8.42	8.21	7.60
15	6.97	8.50	7.43	7.63	8.44	10.19	9.40	7.45	8.79	7.99	8.19	7.31
16	6.96	8.00	7.50	7.35	8.95	10.16	9.27	6.85	8.89	7.76	7.15	7.47
17	7.34	8.00	8.00	7.65	9.20	9.73	9.61	7.07	7.30	8.55	6.86	7.48
18	7.27	8.12	8.23	....	9.25	9.75	8.20	7.80	6.85	8.72	7.19	7.41
19	7.30	7.70	7.29	....	9.45	8.65	7.90	7.90	6.65	8.76	7.38	7.60
20	7.29	8.01	7.30	....	9.31	8.51	7.66	7.88	6.66	8.82	7.53	7.22
21	7.38	8.12	7.73	....	8.81	8.38	7.83	7.05	6.75	8.35	7.62	7.09
22	7.17	7.45	7.81	....	9.61	8.12	7.48	7.26	7.05	7.90	7.68	7.06
23	7.43	7.75	8.21	....	10.45	8.96	7.20	7.19	7.66	8.52	7.45	7.22
24	7.46	8.14	7.85	....	10.84	8.98	7.43	6.85	7.80	8.30	7.50	7.20
25	7.31	8.26	7.89	....	10.27	8.91	7.42	6.85	8.23	8.71	7.50	7.28

269--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	7.37	8.00	8.26	....	9.42	8.83	7.28	6.73	8.31	8.90	7.40	7.05
27	7.53	8.20	8.17	....	9.61	9.31	7.09	7.00	8.31	9.01	7.44	7.14
28	7.70	8.75	8.20	....	9.50	8.93	7.10	6.84	7.87	8.67	7.26	7.60
29	7.40		8.20	....	10.20	9.21	6.91	7.10	7.04	8.40	7.30	7.50
30	7.65		7.90	....	10.41	9.16	6.83	7.10	6.65	9.81	7.63	7.30
31	8.54		7.80		10.25		6.78	6.78		8.41		7.30

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.83	10.43	11.97	11.54	....	14.01	11.80	9.85	9.49	7.37	12.08	11.01
2	8.94	8.95	12.00	11.53	....	13.80	11.94	9.85	9.25	7.42	11.46	10.77
3	9.14	8.82	11.93	9.01	....	....	11.42	8.81	9.03	7.89	8.89	11.06
4	9.59	9.48	11.37	10.84	....	....	10.38	8.45	9.21	8.88	9.11	8.37
5	9.90	9.86	12.16	11.76	....	....	11.50	8.57	9.11	9.93	10.38	8.37
6	10.16	9.65	12.00	11.01	....	....	11.96	9.28	9.55	10.36	9.73	8.69
7	9.15	9.09	12.33	9.34	....	....	11.64	9.80	10.20	10.18	8.91	9.84
8	9.19	9.28	12.22	9.16	....	....	13.96	10.91	10.09	10.60	10.50	10.15
9	10.16	9.65	12.50	9.12	....	....	13.98	10.90	10.74	10.48	9.66	10.41
10	10.54	10.62	12.50	9.00	....	....	13.80	11.04	11.07	11.17	10.38	10.39
11	10.36	10.33	12.10	9.89	....	....	12.85	11.06	10.78	11.28	10.74	11.73
12	10.50	11.03	10.47	9.03	....	....	13.10	11.97	10.93	11.57	11.28	12.20
13	10.73	11.00	9.77	10.03	....	....	13.05	12.45	8.88	11.76	11.39	12.15
14	10.05	11.28	10.04	10.94	....	....	13.39	12.55	9.67	12.01	11.50	12.20
15	9.04	11.38	9.55	10.70	....	....	13.10	12.24	9.64	11.86	11.19	9.72
16	9.90	11.35	11.09	10.74	....	....	12.45	12.72	9.06	11.23	11.71	9.05
17	10.53	11.38	11.26	9.50	....	....	12.92	12.32	10.00	9.41	11.93	7.67
18	10.55	10.95	10.70	....	....	....	13.17	12.09	9.93	10.55	7.86	11.94
19	10.70	11.36	10.92	....	....	....	13.05	9.83	9.69	10.47	7.86	12.08
20	10.87	11.27	9.39	....	....	....	12.23	9.76	9.89	10.06	8.45	11.44
21	10.08	10.52	9.56	....	....	....	13.31	10.17	9.89	9.41	9.39	11.29
22	10.78	10.82	10.15	....	....	....	13.52	10.90	9.54	10.52	10.09	11.60
23	10.62	11.26	10.97	....	....	....	13.40	11.70	9.58	8.80	10.18	11.44
24	10.76	11.53	11.28	....	....	....	13.44	11.57	9.74	8.09	10.93	11.64
25	9.47	11.16	10.78	....	....	....	13.36	11.67	9.46	8.94	11.09	12.04
26	10.25	11.60	11.66	....	....	....	12.86	11.94	9.59	7.80	11.22	12.03
27	10.80	11.60	11.68	....	....	....	11.87	11.97	8.82	9.88	11.40	11.90
28	10.60	11.75	11.71	....	....	....	13.21	12.08	8.66	10.15	10.43	11.14
29	10.92		11.26	....	....	....	13.51	12.24	8.29	10.63	8.24	12.10
30	11.00		10.06	....	....	....	13.93	11.92	8.80	8.85	7.53	12.16
31	11.14		11.60		....	....	14.11		8.68	8.49		12.13

561. City of St. Petersburg. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 30 S., R. 16 E. Drilled unused artesian well in Floridan aquifer, diameter 14 inches, reported depth 300 feet. Land-surface datum is 9.72 feet above msl. Highest water level 0.07 below lsd, Sept. 5, 1950; lowest 3.48 below lsd, June 2, 1951. Records available: 1947-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.38	2.40	2.64	2.72	2.36	3.30	....	....	....	1.81	2.24	3.00
2	2.22	2.85	2.76	2.55	2.44	3.34	....	....	....	1.49	2.17	2.25
3	2.06	3.20	2.75	2.48	2.42	3.17	....	....	....	1.63	2.18	2.10
4	2.00	3.08	2.65	2.66	2.37	3.05	....	....	....	1.76	2.61	1.92
5	2.13	2.92	2.62	2.76	2.36	3.13	....	....	....	1.87	2.71	1.92
6	2.18	2.71	2.71	2.62	2.48	3.18	....	....	....	1.91	2.52	2.02
7	2.06	2.32	2.70	2.20	2.71	3.22	....	....	....	1.89	2.22	2.14
8	2.28	2.76	2.72	2.05	2.90	3.28	....	....	....	1.90	2.58	2.26
9	2.67	2.74	2.81	2.17	2.94	3.30	....	....	....	1.89	2.78	2.25
10	2.65	2.67	2.97	2.14	2.87	3.24	....	....	....	2.05	2.69	2.27
11	2.44	2.75	2.89	2.08	2.78	3.14	....	....	2.19	2.30	2.53	2.28
12	2.38	2.71	2.57	2.07	2.75	....	....	....	2.25	2.54	2.47	2.36
13	2.40	2.61	2.42	2.31	2.78	....	....	....	2.28	2.63	2.37	2.45
14	2.29	2.62	2.57	2.37	3.04	....	....	....	2.29	2.62	2.24	2.37
15	2.07	2.69	2.60	2.35	3.30	....	....	....	2.31	2.48	2.25	2.16
16	2.50	2.72	2.70	2.19	3.22	....	....	....	2.29	2.40	2.12	2.84
17	2.70	2.72	2.70	2.20	3.06	....	....	....	2.22	2.41	2.23	2.97
18	2.46	2.62	2.42	2.28	3.14	....	....	....	1.97	2.36	2.82	2.43
19	2.40	2.60	2.27	2.18	3.18	....	....	....	2.14	2.32	2.84	2.43
20	2.40	2.49	2.27	2.17	3.08	....	....	....	2.23	2.24	2.78	2.37

561--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	2.39	2.36	2.47	2.28	2.96	....	....	....	2.22	2.17	2.80	2.16
22	2.54	2.54	2.67	2.22	3.07	....	....	....	2.13	2.20	2.65	2.35
23	2.56	2.68	2.62	2.16	3.03	....	....	....	2.13	2.27	2.40	2.55
24	2.45	2.68	2.44	2.28	2.88	....	....	....	2.11	2.32	2.20	2.52
25	2.44	2.64	2.44	2.36	2.97	....	....	....	2.11	2.41	2.18	2.52
26	2.85	2.53	2.53	2.37	2.96	....	....	....	2.11	2.48	2.15	....
27	2.78	2.50	2.63	2.40	2.87	....	....	....	2.10	2.45	2.10	....
28	2.66	2.55	2.39	2.48	2.85	....	....	....	2.12	2.28	2.06	....
29	2.57	....	2.18	2.44	2.92	....	....	....	2.12	2.21	2.25	....
30	2.58	....	2.29	2.33	3.12	....	....	....	2.03	2.28	3.05	....
31	2.59	....	2.73	....	3.20	....	....	....	....	2.34	....	....

Polk County

44. P. E. Williams. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 26 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, depth 180 feet. Land-surface datum is 113.14 feet above msl. Highest water level 0.58 below lsd, Sept. 23, 1947; lowest 3.50 below lsd, June 8, 1951. Records available: 1946-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	2.12	....	2.68	2.63	3.24	2.80	1.97	1.60	1.27	....	1.50
2	....	....	....	2.69	2.64	3.25	2.87	2.01	1.67	1.16	....	1.49
3	....	....	....	2.68	2.64	3.23	2.87	2.03	1.72	1.22	....	1.50
4	....	....	....	....	2.67	3.28	2.77	2.02	1.74	1.29	....	1.45
5	....	....	....	....	2.74	3.32	2.81	1.88	1.61	1.33	....	1.44
6	....	....	....	....	2.82	3.37	2.85	1.86	1.59	1.36	....	1.50
7	....	....	....	....	2.85	3.43	2.85	1.86	1.61	1.39	....	1.54
8	....	....	....	....	2.89	3.46	2.82	1.88	1.65	1.43	....	1.56
9	....	....	....	....	2.91	3.48	2.69	1.92	1.72	1.45	....	1.57
10	....	....	....	....	2.92	3.40	2.71	1.95	1.77	1.49	....	1.59
11	....	....	....	....	2.92	3.30	2.74	2.00	1.82	1.56	1.92	1.60
12	1.87	....	....	....	2.93	3.10	2.77	2.04	1.84	1.58	1.93	1.65
13	1.87	....	....	....	2.94	3.08	2.82	2.09	1.88	1.60	1.95	1.70
14	1.86	....	....	....	2.97	3.09	2.86	2.12	1.90	1.60	1.97	1.70
15	1.86	....	....	....	2.98	3.13	2.86	2.09	1.82	1.61	2.00	1.69
16	1.94	....	....	....	2.98	3.14	2.89	2.08	1.67	1.64	1.60	1.70
17	1.93	....	....	....	3.01	3.10	2.93	2.10	1.60	1.65	1.18	1.70
18	1.94	....	....	....	3.07	3.08	2.87	1.96	1.47	1.66	1.15	1.66
19	1.96	....	....	....	3.08	2.90	2.63	1.98	1.38	1.68	1.15	1.67
20	1.98	....	....	....	3.08	2.63	2.50	2.02	1.37	1.69	1.19	1.66
21	1.97	....	2.46	....	3.13	2.60	2.10	2.01	1.39	1.70	1.23	1.70
22	2.01	....	2.47	....	3.15	2.61	2.01	2.06	1.41	1.66	1.23	1.72
23	2.02	....	2.49	....	3.16	2.65	1.99	2.10	1.45	1.50	1.25	....
24	2.02	....	2.50	....	3.18	2.70	1.97	2.12	1.48	....	1.26	....
25	2.02	....	2.53	2.40	3.24	2.72	1.93	2.00	1.52	....	1.31	....
26	2.05	....	2.58	2.43	3.18	2.76	1.94	2.03	1.57	....	1.34	....
27	2.06	....	2.60	2.47	3.02	2.83	1.97	2.07	1.62	....	1.35	....
28	2.06	....	2.61	2.50	3.02	2.85	2.02	2.12	1.62	....	1.40	....
29	2.06	....	2.63	2.52	3.08	2.76	2.02	2.09	1.48	....	1.45	....
30	2.08	....	2.66	2.56	3.15	2.76	1.98	1.65	1.36	....	1.48	....
31	2.10	....	2.67	....	3.20	....	1.96	1.57	....	....	....	....

45. Claude Hardin. At Sand Gulley. Drilled unused artesian well in Floridan aquifer, diameter 18 to 12 inches, reported depth 768 feet, cased to 325. Highest water level 58.75 below lsd, Oct. 18, 1948; lowest 72.07 below lsd, May 15, 1950. Records available: 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	66.49	67.45	67.85	66.20	68.71	67.33	65.28	....	....	....	....
2	66.66	67.56	67.79	66.17	68.77	67.29	65.19	....	....	....	....
3	66.61	67.72	67.70	66.15	68.72	67.17	65.19	....	....	....	....
4	66.56	67.84	67.75	66.18	68.80	67.06	65.20	....	....	....	....
5	66.49	68.01	67.82	66.26	69.00	66.95	65.12	....	....	....	....
6	66.36	68.29	67.80	66.38	69.12	66.87	65.03	....	....	....	....
7	66.26	68.50	67.50	66.50	69.38	66.86	64.90	....	....	....	....
8	66.40	68.70	67.31	66.52	69.50	66.80	64.83	....	....	....	....
9	66.38	68.96	67.29	66.62	69.69	66.72	64.81	....	....	....	....
10	66.41	69.23	67.18	66.68	69.62	66.67	64.79	....	....	....	....

45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	66.41	69.23	67.09	68.70	69.30	66.73	64.72	.....	.....	65.60	.....
12	.....	66.31	69.00	67.01	66.74	69.12	66.90	64.63	.....	.....	65.65	.....
13	.....	66.36	68.64	66.98	66.68	69.05	67.00	64.71	.....	.....	.....	.....
14	.....	66.40	68.50	66.98	66.69	68.94	67.04	64.80	64.33	.....	.....	.....
15	.....	66.42	68.39	66.99	66.92	68.82	66.90	64.82	64.33	.....	.....	.....
16	.....	66.46	68.28	66.88	67.09	68.73	66.77	64.78	64.39	.....	.....	.....
17	.....	66.50	68.21	66.78	67.14	68.60	66.82	64.77	64.22	.....	.....	.....
18	.....	66.52	68.07	66.79	67.23	68.49	66.75	64.74	64.13	.....	.....	.....
19	.....	66.54	68.07	66.61	67.39	68.27	66.59	64.58	64.15	.....	.....	.....
20	66.36	66.56	68.00	66.51	67.23	68.07	66.49	64.45	64.14	.....	.....	.....
21	66.39	66.53	67.88	66.50	67.38	67.93	66.41	64.35	64.10	.....	.....	.....
22	66.28	66.60	67.82	66.47	67.70	67.81	66.35	64.30	64.08	.....	.....	.....
23	66.19	66.79	67.83	66.40	67.82	67.77	66.25	64.29	64.09	.....	.....	.....
24	66.14	66.95	67.89	66.30	67.93	67.70	66.11	64.30	64.10	.....	.....	.....
25	66.15	67.08	67.96	66.23	68.13	67.56	65.92	64.40	64.10	.....	.....	.....
26	66.20	67.13	67.97	66.21	68.21	67.52	65.77	.....	64.12	.....	.....	.....
27	66.26	67.22	67.96	66.24	68.01	67.55	65.65	.....	.....	.....	.....	.....
28	66.27	67.31	67.94	66.23	67.94	67.44	65.63	.....	.....	.....	.....	.....
29	66.24	.....	67.92	66.19	68.16	67.42	.....	.....	.....	.....	.....	.....
30	66.30	.....	67.90	66.14	68.35	67.39	.....	.....	.....	.....	.....	.....
31	66.41	.....	67.88	.....	68.58	.....	65.37	.....	.....	.....	.....	.....

45A. Claude Hardin. At Sand Gulley. Drilled observation water-table well in sand, diameter 6 inches, reported depth 26 feet, cased to 17. Highest water level 0.77 below lsd, Sept. 28, 1948; lowest 3.72 below lsd, May 27, 1949. Records available: 1948-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.21	2.59	2.63	2.65	1.85	2.72	2.66	1.63	2.18	1.82	2.58	2.38
2	2.22	2.57	2.65	.....	1.87	2.75	2.68	1.62	2.22	1.73	2.58	2.38
3	2.23	2.42	2.66	.....	1.88	2.75	2.48	1.63	2.23	1.79	2.56	2.38
4	2.24	2.38	2.67	.....	1.92	2.75	2.37	1.68	2.26	1.89	2.59	2.37
5	2.27	2.38	2.69	.....	1.95	2.76	2.36	1.73	2.29	1.97	2.61	2.33
6	2.29	2.38	2.71	.....	2.03	2.77	2.38	1.78	2.30	2.02	2.62	2.35
7	2.30	2.31	2.72	.....	2.08	2.78	2.41	1.81	.....	2.06	2.62	2.39
8	2.32	2.29	2.72	.....	2.14	2.80	2.44	1.83	.....	2.11	2.66	2.42
9	2.36	2.31	2.73	.....	2.17	2.82	2.41	1.87	.....	2.12	2.69	2.45
10	2.37	2.34	2.76	.....	2.19	2.82	2.41	1.92	.....	2.15	2.71	2.46
11	2.38	2.37	2.77	.....	2.21	2.73	2.46	1.95	.....	2.21	2.71	2.46
12	2.39	2.38	2.58	.....	2.22	2.64	2.52	2.00	.....	2.25	2.71	2.46
13	2.40	2.40	2.25	.....	2.26	2.68	2.55	2.04	.....	2.28	2.71	2.49
14	2.40	2.44	2.25	.....	2.33	2.72	2.52	2.07	.....	2.30	2.71	2.52
15	2.40	2.46	2.30	.....	2.41	2.73	2.31	2.10	.....	2.30	2.71	2.52
16	2.43	2.47	2.34	.....	2.44	2.74	2.30	2.11	.....	2.32	2.43	2.53
17	2.48	2.47	2.38	.....	2.44	2.75	2.31	2.12	2.10	2.34	2.08	2.55
18	2.48	2.49	2.40	.....	2.45	2.79	2.12	2.14	1.78	2.36	2.06	2.51
19	2.52	2.50	2.42	.....	2.48	2.74	1.95	2.10	1.64	2.38	2.10	2.44
20	2.53	2.50	2.47	.....	2.50	2.52	1.92	2.10	1.63	2.38	2.14	2.44
21	2.53	2.50	2.48	.....	2.51	2.48	1.85	2.11	1.65	2.41	2.18	2.43
22	2.53	2.52	2.48	.....	2.54	2.49	1.85	2.04	1.69	2.44	2.20	2.44
23	2.53	2.55	2.50	.....	2.55	2.53	1.86	2.04	1.73	2.46	2.20	2.45
24	2.53	2.57	2.51	.....	2.55	2.59	1.83	2.08	1.78	2.47	2.20	2.45
25	2.53	2.58	2.53	1.61	2.58	2.61	1.71	2.10	1.82	2.50	2.23	2.46
26	2.56	2.59	2.56	1.64	2.60	2.63	1.71	1.97	1.87	2.52	2.25	2.47
27	2.58	2.60	2.58	1.68	2.61	2.66	1.73	1.97	1.92	2.52	2.26	2.48
28	2.59	2.62	2.59	1.72	2.61	2.64	1.75	2.00	1.96	2.52	2.27	2.53
29	2.59	.....	2.59	1.75	2.65	2.62	.....	2.05	1.93	2.53	2.32	2.55
30	2.59	.....	2.60	1.79	2.69	2.63	.....	2.10	1.87	2.56	2.36	2.55
31	2.59	.....	2.63	.....	2.71	.....	.....	2.14	.....	2.57	.....	2.55

47. U. S. Geol. Survey. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 26 S., R. 27 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 67 feet, cased to 60 feet. Land-surface datum is 156.50 feet above msl. Highest water level 42.97 below lsd, Oct. 8, 1948; lowest 48.63 below lsd, June 14, 1949. Records available: 1948-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.94	46.66	47.01	47.47	47.41	47.71	47.58	46.95	45.80	45.54	45.34	45.62
2	45.95	46.69	47.02	47.48	47.41	47.72	47.57	46.88	45.79	45.52	45.35	45.62
3	45.97	46.72	47.04	47.50	47.41	47.73	47.55	46.80	45.80	45.50	45.40	45.62
4	46.00	46.74	47.05	47.51	47.41	47.73	47.55	46.72	45.72	45.48	45.43	45.61
5	46.02	46.75	47.07	47.53	47.42	47.74	47.55	46.65	45.77	45.45	45.45	45.63

47--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	46.05	46.76	47.08	47.54	47.44	47.75	47.54	46.57	45.77	45.42	45.46	45.65
7	46.06	46.77	47.10	47.55	47.45	47.75	47.53	46.49	45.76	45.39	45.49	45.65
8	46.10	46.79	47.11	47.56	47.47	47.76	47.51	46.42	45.75	45.35	45.52	45.65
9	46.12	45.80	47.13	47.57	47.48	47.77	47.51	46.35	45.75	45.31	45.54	45.66
10	46.15	46.81	47.15	47.57	47.50	47.77	47.50	46.28	45.75	45.29	45.55	45.66
11	46.16	46.82	47.16	47.56	47.51	47.78	47.50	46.22	45.75	45.26	45.58	45.65
12	46.19	46.83	47.17	47.56	47.52	47.80	47.50	46.16	45.74	45.23	45.60	45.68
13	46.21	46.84	47.19	47.55	47.55	47.81	47.49	46.11	45.74	45.21	45.62	45.71
14	46.23	46.85	47.20	47.54	47.50	47.81	47.48	46.05	45.74	45.19	45.64	45.71
15	46.25	46.85	47.23	47.53	47.57	47.81	47.47	46.02	45.74	45.16	45.66	45.74
16	46.28	46.86	47.24	47.51	47.57	47.80	47.47	45.99	45.74	45.15	45.69	45.75
17	46.30	46.87	47.25	47.50	47.57	47.81	47.47	45.95	45.74	45.15	45.72	45.77
18	46.33	46.88	47.27	47.50	47.58	47.82	47.45	45.93	45.73	45.14	45.74	45.75
19	46.35	46.89	47.27	47.50	47.60	47.79	47.46	45.90	45.72	45.13	45.73	45.78
20	46.37	46.90	47.30	47.50	47.60	47.82	47.35	45.88	45.74	45.13	45.71	45.79
21	46.40	46.91	47.30	47.50	47.62	47.80	47.45	45.87	45.73	45.15	45.70	45.80
22	46.41	46.93	47.32	47.50	47.63	47.78	47.45	45.85	45.71	45.16	45.67	45.82
23	46.44	46.95	47.34	47.49	47.63	47.76	47.43	45.84	45.70	45.18	45.65	45.83
24	46.46	46.95	47.35	47.47	47.64	47.73	47.40	45.82	45.68	45.18	45.63	45.85
25	46.48	46.96	47.36	47.47	47.65	47.69	47.36	45.82	45.65	45.20	45.62	45.85
26	46.52	46.98	47.37	47.46	47.60	47.66	47.33	45.81	45.64	45.20	45.61	45.85
27	46.53	46.99	47.40	47.45	47.66	47.65	47.27	45.81	45.62	45.20	45.60	45.87
28	46.56	47.00	47.40	47.44	47.67	47.63	47.22	45.80	45.60	45.20	45.60	45.88
29	46.60		47.43	47.43	47.70	47.61	47.17	45.81	45.58	45.25	45.61	45.90
30	46.62		47.45	47.42	47.70	47.60	47.10	45.80	45.57	45.29	45.63	45.91
31	46.64		47.46		47.70		47.05	45.80		45.31		45.92

48. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 32 S., R. 28 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 62 feet, cased to 59 feet. Land-surface datum is 144 feet above msl. Highest water level 38.08 below lsd, Oct. 7, 1948; lowest 46.68 below lsd, June 18, 1951. Records available: 1949-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.50	45.94	46.16	46.52	46.09	46.52	46.54	45.62	45.56	45.39	45.40	.....
2	45.53	45.95	46.17	46.53	46.10	46.53	46.55	45.62	45.54	45.38	45.40	.....
3	45.55	45.95	46.20	46.54	46.10	46.44	46.55	45.62	45.54	45.35	45.42	45.67
4	45.56	45.95	46.20	46.55	46.12	46.55	46.50	45.61	45.50	45.33	45.44	45.68
5	45.58	45.95	46.20	46.56	46.14	46.55	46.44	45.60	45.50	45.32	45.45	45.70
6	45.59	45.95	46.23	46.57	46.16	46.57	46.35	45.59	45.49	45.31	45.45	45.71
7	45.60	45.95	46.25	46.54	46.21	46.60	46.31	45.57	45.49	45.30	45.46	45.72
8	45.61	45.95	46.26	46.50	46.23	46.61	46.29	45.57	45.49	45.26	45.48	45.73
9	45.62	45.95	46.27	46.44	46.25	46.62	46.26	45.56	45.49	45.24	45.49	45.74
10	45.65	45.96	46.27	46.37	46.26	46.63	46.24	45.56	45.49	45.23	45.50	45.75
11	45.66	45.97	46.27	46.33	46.27	46.64	46.23	45.56	45.49	45.23	45.51	45.75
12	45.68	45.98	46.27	46.30	46.28	46.65	46.23	45.55	45.49	45.23	45.52	45.77
13	45.69	45.99	46.28	46.28	46.29	46.65	46.23	45.55	45.49	45.23	45.54	45.80
14	45.70	46.00	46.30	46.25	46.30	46.65	46.11	45.55	45.49	45.23	45.55	45.82
15	45.71	46.02	46.30	46.23	46.30	46.65	46.12	45.55	45.49	45.24	45.56	45.84
16	45.73	46.03	46.30	46.22	46.31	46.66	46.12	45.55	45.49	45.25	.....	45.85
17	45.74	46.04	46.32	46.20	46.32	46.67	46.12	45.56	45.49	45.26	.....	45.86
18	45.75	46.05	46.33	46.18	46.33	46.68	46.12	45.56	45.49	45.26	.....	45.86
19	45.76	46.06	46.34	46.15	46.34	46.64	46.12	45.57	45.49	45.27	.....	45.87
20	45.78	46.07	46.35	46.14	46.34	46.65	46.07	45.58	45.49	45.28	.....	45.88
21	45.80	46.08	46.36	46.13	46.35	46.66	46.07	45.58	45.48	45.29	.....	45.89
22	45.83	46.09	46.38	46.11	46.36	46.64	46.01	45.58	45.47	45.30	.....	45.90
23	45.85	46.10	46.40	46.10	46.37	46.55	45.95	45.59	45.46	45.31	.....	45.91
24	45.85	46.10	46.40	46.10	46.40	46.56	45.90	45.60	45.45	45.32	.....	45.93
25	45.87	46.10	46.41	46.10	46.41	46.56	45.86	45.60	45.44	45.33	.....	45.94
26	45.90	46.12	46.43	46.10	46.43	46.56	45.84	45.60	45.43	45.34	.....	45.95
27	45.90	46.14	46.44	46.07	46.44	46.55	45.74	45.60	45.42	45.35	.....	45.95
28	45.92	46.18	46.45	46.07	46.45	46.54	45.70	45.60	45.40	45.35	.....	45.96
29	45.91		46.49	46.07	46.49	46.54	45.70	45.58	45.40	45.37	.....	45.96
30	45.92		46.50	46.07	46.50	46.54	45.70	45.58	45.40	45.38	.....	45.97
31	45.93		46.51		46.50		45.69	45.58		45.39		45.98

49. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 31 S., R. 20 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 17 feet, cased to 14 feet. Land-surface datum is 105 feet above msl. Highest water level 0.01 below lsd, Aug. 27, 1949; lowest 5.54 below lsd, June 10, 1949. Records available: 1949-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.20	3.01	2.90	3.38	2.55	3.91	3.75	1.52	1.79	0.33	1.53	1.75
2	2.30	1.70	2.95	3.42	2.11	3.95	1.90	1.71	2.01	.24	1.60	1.78
3	2.33	1.55	2.99	3.45	2.40	3.99	1.43	1.83	2.02	.78	1.40	1.82
4	2.35	1.64	3.04	3.47	2.53	4.02	1.26	1.93	.63	.97	1.70	1.50
5	2.37	1.70	3.06	3.50	2.62	4.06	1.55	1.66	1.20	1.07	1.75	1.52
6	2.45	1.80	3.10	3.51	2.67	4.10	1.76	.62	1.38	1.17	1.77	1.62
7	2.43	1.46	3.13	1.53	2.73	4.13	1.95	1.20	1.51	1.23	1.82	1.75
8	2.49	1.64	3.16	1.55	2.81	4.16	1.36	1.30	1.59	1.29	1.87	1.82
9	2.52	1.74	3.20	1.65	2.86	4.20	1.80	1.40	1.67	1.33	1.92	1.85
10	2.54	1.86	3.23	1.44	2.94	4.24	2.00	1.48	1.77	1.38	1.94	1.91
11	2.56	1.98	3.25	1.61	2.99	3.99	2.10	1.58	1.85	1.45	1.96	1.95
12	2.59	2.05	2.49	1.03	3.03	3.81	2.23	1.73	1.95	1.55	1.99	2.00
13	2.60	2.15	2.42	1.42	3.07	3.82	1.84	1.80	2.01	1.58	2.00	2.03
14	2.63	2.22	2.57	1.60	3.14	3.88	2.25	1.83	2.05	1.47	2.01	2.05
15	2.65	2.28	2.66	1.75	3.19	3.95	1.40	1.95	2.15	1.59	2.02	2.00
16	2.68	2.32	2.75	1.86	3.24	4.03	1.86	1.60	2.20	1.66	.75	2.09
17	2.70	2.36	2.81	1.71	3.27	4.10	2.07	.86	2.23	1.70	.55	2.12
18	2.71	2.42	2.89	1.95	3.33	4.15	1.28	1.35	.94	1.75	1.20	2.13
19	2.73	2.46	2.96	1.35	3.38	3.90	1.46	1.50	.64	1.79	1.30	1.63
20	2.75	2.50	3.00	1.37	3.42	3.65	1.74	1.59	1.29	1.55	1.35	1.74
21	2.76	2.55	2.85	1.81	3.47	3.65	1.05	1.75	1.41	1.72	1.40	1.84
22	2.80	2.60	2.90	1.97	3.52	3.68	1.06	1.86	1.48	.41	1.40	1.86
23	2.82	2.65	3.00	2.03	3.55	3.46	1.00	1.97	1.58	1.04	1.30	1.95
24	2.84	2.68	3.07	2.00	3.58	3.45	1.17	2.04	1.70	1.19	1.40	2.00
25	2.85	2.72	3.13	2.20	3.60	3.53	1.42	2.11	1.80	.89	1.45	2.05
26	2.89	2.76	3.18	2.26	3.64	3.63	1.57	2.19	1.86	1.23	1.48	2.12
27	2.91	2.80	3.23	2.31	3.65	3.73	.90	2.22	1.95	1.25	1.51	2.16
28	2.94	2.85	3.25	2.36	3.72	3.73	1.54	2.25	1.96	1.35	1.57	2.20
29	2.95		3.31	2.41	3.82	3.67	1.05	2.31	.34	1.39	1.65	2.23
30	2.96		3.32	2.48	3.85	3.66	1.55	1.76	.78	1.43	1.72	2.25
31	2.99		3.35		....		1.65	1.60		1.45		2.29

50. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 31 S., R. 31 E. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 12 feet. Land-surface datum is 61 feet above msl. Highest water level 0.23 above lsd, Sept. 29, 1949; lowest 4.27 below lsd, Mar. 21, 1950. Records available: 1948-51.

Daily highest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.57	-2.35	-1.47	-2.10	-1.00	-2.23	-2.54	-0.15	-1.21	+0.03	-2.32	-2.36
2	1.60	1.85	1.50	2.13	.92	2.25	2.44	.10	1.23	.10	2.35	2.38
3	1.61	.90	1.52	2.15	.92	2.27	2.00	.10	1.27	+.02	2.48	2.39
4	1.63	.89	1.55	2.17	.95	2.30	1.95	.12	1.30	-.02	2.45	2.40
5	1.65	.90	1.57	2.20	.97	2.33	1.95	.15	.50	.09	2.47	2.12
6	1.67	.91	1.60	2.22	1.00	2.34	1.96	.10	.71	.18	2.50	2.15
7	1.70	.91	1.62	1.45	1.02	2.36	2.00	.02	.83	.47	2.55	2.23
8	1.73	.92	1.65	1.23	1.04	2.37	2.01	.02	.95	.99	2.60	2.30
9	1.75	.94	1.67	1.23	1.07	2.40	2.04	.04	1.03	1.25	2.63	2.35
10	1.77	.97	1.70	1.07	1.10	2.41	2.06	.07	1.10	1.35	2.66	2.40
11	1.83	.99	1.74	1.07	1.14	2.42	2.12	.17	1.19	1.49	2.70	2.45
12	1.87	1.01	1.76	.40	1.40	2.43	2.15	.30	1.61	1.64	2.73	2.48
13	1.90	1.04	1.77	.40	1.53	2.44	2.07	.40	1.88	1.22	2.75	2.53
14	1.94	1.06	1.79	.43	1.59	2.45	1.80	.46	2.05	1.27	2.78	2.55
15	1.97	1.08	1.80	.47	1.69	2.46	1.41	.27	2.13	1.30	2.80	2.57
16	2.00	1.11	1.82	.53	1.74	2.47	1.42	.18	.93	1.85	2.82	2.56
17	2.02	1.14	1.84	.56	1.80	2.47	1.45	.05	.42	1.90	1.55	2.57
18	2.05	1.16	1.85	.60	1.84	2.49	1.24	.05	.12	1.95	1.46	2.58
19	2.07	1.20	1.87	.60	1.90	2.49	1.24	.03	.10	1.98	1.60	2.35
20	2.09	1.21	1.89	.35	1.93	2.49	1.25	.03	.08	2.01	1.63	2.35
21	2.11	1.24	1.90	.35	1.96	2.49	.52	.06	.20	2.04	1.80	2.38
22	2.13	1.27	1.91	.37	1.97	2.49	.44	.13	.28	2.07	1.87	2.41
23	2.15	1.30	1.93	.43	2.00	2.50	.36	.23	.40	2.09	1.86	2.46
24	2.18	1.33	1.95	.50	2.03	2.50	.30	.40	.53	2.11	1.90	2.48
25	2.20	1.36	1.96	.55	2.05	2.51	.29	.54	.63	2.12	1.97	2.56

50--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-2.22	-1.38	-1.98	-0.60	-2.09	-2.52	-0.38	-0.66	-0.73	-2.15	-2.05	-2.55
27	2.25	1.41	2.00	.63	2.11	2.53	.39	.85	.82	2.18	2.10	2.59
28	2.27	1.44	2.02	.66	2.14	2.55	.50	.98	.91	2.21	2.16	2.64
29	2.30		2.05	.70	2.17	2.55	.55	1.08	.94	2.25	2.24	2.68
30	2.31		2.06	.86	2.18	2.55	.21	1.19	.20	2.25	2.30	e2.70
31	2.33		2.09		2.21		.20	1.20		2.28		e2.73

e Estimated.

51. Mrs. William Falls. 48 1st St., Frostproof. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 490 feet. Highest water level 4.18 below lsd, Nov. 20, 1949; lowest 12.07 below lsd, June 9, 1951. Records available: 1949-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.45	6.88	7.56	8.51	6.50	9.41	....	....	....	5.23	5.38	5.78
2	6.98	6.85	8.00	8.90	6.42	9.77	....	....	....	5.01	5.40	5.71
3	7.42	6.50	7.62	8.52	6.35	9.60	....	....	....	5.09	5.43	5.67
4	7.52	6.30	7.84	8.55	6.33	9.45	....	....	....	5.20	5.49	5.63
5	7.50	6.42	8.38	8.62	6.35	10.00	....	....	....	5.24	5.60	5.63
6	7.10	6.50	9.00	9.03	6.41	10.28	....	....	....	5.23	5.66	5.72
7	6.30	6.65	9.55	8.33	6.49	10.63	....	....	....	5.22	5.52	5.80
8	6.52	6.95	9.74	7.78	6.70	11.40	....	....	....	5.23	5.59	5.82
9	6.81	6.79	10.13	7.72	7.10	11.40	....	....	....	5.18	5.62	5.82
10	6.83	6.89	....	7.43	7.60	11.05	....	5.79	....	5.17	5.60	5.79
11	6.70	6.55	....	7.28	7.67	10.52	....	5.78	....	5.27	5.56	5.71
12	6.75	6.80	....	7.17	7.50	9.72	....	5.79	5.45	5.29	5.58	5.76
13	6.52	6.95	....	7.13	7.42	8.95	....	5.79	5.44	5.29	5.60	5.85
14	6.22	7.00	....	7.34	7.60	8.49	....	5.79	5.47	5.24	5.64	5.86
15	6.30	7.10	....	7.12	7.98	8.19	....	5.80	5.48	5.19	5.70	5.83
16	6.50	7.15	....	7.08	8.55	8.00	....	5.77	5.46	5.25	5.70	5.85
17	6.70	6.95	....	6.90	8.66	7.85	....	5.73	5.44	5.27	5.64	5.85
18	6.69	6.64	....	7.02	8.95	7.95	....	5.68	5.39	5.30	5.70	5.80
19	6.65	6.93	....	6.78	8.75	7.76	....	5.66	5.40	5.27	5.70	5.86
20	6.46	6.92	....	....	8.40	7.56	....	5.63	5.40	5.24	5.71	5.84
21	6.28	6.80	....	....	8.66	7.44	....	5.65	5.40	5.25	5.76	5.83
22	6.39	6.85	....	....	9.00	7.37	....	5.65	5.38	5.31	5.73	5.89
23	6.58	6.93	....	....	9.43	7.33	....	5.65	5.37	5.31	5.68	5.88
24	6.58	6.69	....	....	9.40	7.29	....	5.64	5.40	5.30	5.64	5.92
25	6.60	6.45	....	6.58	9.08	7.19	....	5.63	5.40	5.34	5.65	5.90
26	6.85	6.72	....	6.58	8.71	7.15	....	5.60	5.39	5.36	5.65	5.86
27	6.72	6.84	....	6.62	8.55	7.16	....	....	5.42	5.28	5.62	5.89
28	6.58	7.17	....	6.53	8.45	7.11	....	....	5.44	5.23	5.64	5.93
29	6.98	....	....	6.42	8.70	7.07	....	....	5.40	5.27	5.69	5.88
30	7.10	....	....	6.51	9.04	7.02	....	....	5.34	5.38	5.70	5.87
31	6.97	....	8.70	....	9.32	....	....	....	....	5.40	....	5.91

Putnam County

28. R. O. Puckett. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 12 S., R. 26 E. At Fruitland. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 145 feet. Land-surface datum is 25.8 feet above msl. Highest water level 4.9 below lsd, Sept. 1943; lowest 8.1 below lsd, Apr. 20, 1939. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	6.54	Apr. 26	7.26	July 27	7.63	Oct. 31	6.36
Mar. 6	6.83	June 15	7.98	Sept. 21	6.92	Dec. 21	6.18

29. C. L. Conway. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 10 S., R. 26 E. At Palatka. Drilled public-supply artesian well in Floridan aquifer, diameter 8 inches, reported depth 300 feet. Land-surface datum is 22.2 feet above msl. Highest water level 12.0 above lsd, Jan., 1948; lowest 7.5 above lsd, Mar. 6, 1951. Records available: 1936-51. Mar. 6,+7.5; Apr. 26,+10.0; June 15,+8.9; July 27,+9.3; Sept. 21,+9.8; Oct. 31,+10.2; Dec. 21,+10.2.

St. Johns County

2. P. J. Manucy. Sec. 8, T. 7 S., R. 30 E. At Vilano Beach. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 198 feet, cased to 195. Land-surface datum is 6.09 feet above msl. Highest water level 32.0 above lsd, Aug. 16, 1949; lowest 24.7 above lsd, Aug. 8, 1951. Records available: 1934, 1940-42, 1944-51. Feb. 6,+26.7; Mar. 20,+26.8; May 10,+24.9; June 21,+25.1; Aug. 8,+24.7; Oct. 3,+27.8; Nov. 21,+27.0.

3. Francis Usina. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 7 S., R. 30 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 216 feet, cased to 104. Land-surface datum is 6.55 feet above msl. Highest water level 39.6 above lsd, June 22, 1934; lowest 28.6 above lsd, Sept. 20, 1950. Records available: 1934, 1940-41, 1944-51. Feb. 6,+30.9; Mar. 20,+30.8; May 10,+28.9; June 21,+29.5; Aug. 8,+30.8; Oct. 3,+30.6; Nov. 21,+30.6.

4. Mill Creek School. SW $\frac{1}{4}$ sec. 6, T. 6 S., R. 28 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet, cased to 150. Land-surface datum is 26.74 feet above msl. Highest water level 22.2 above lsd, Aug. 31, 1934; lowest 15.3 above lsd, June 21, 1951. Records available: 1934, 1940, 1944-46, 1949-51. Feb. 8,+18.3; Mar. 20,+17.5; May 10,+16.6; June 21,+15.3; Aug. 8,+16.5; Oct. 3,+17.3; Nov. 21,+17.7.

5. G. L. Oesterricker. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 350 feet, cased to 180. Land-surface datum is 4.53 feet above msl. Highest water level 46.2 above lsd, Nov. 9, 1948; lowest 39.0 above lsd, Apr. 29, 1948. Records available: 1934, 1940, 1944-51. Feb. 6,+44.6; Mar. 20,+44.4; May 10,+43.9; June 21,+42.4; Aug. 7,+42.7; Oct. 3,+43.8; Nov. 21,+43.7.

8. Parish Bros. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 5 S., R. 28 E. Drilled stock artesian well in Floridan aquifer, diameter 6 inches, reported depth 336 feet, cased to 240. Land-surface datum is 17.77 feet above msl. Highest water level 36.5 above lsd, June 2, 1947; lowest 32.1 above lsd, Oct. 10, 1947. Feb. 6,+33.5; Mar. 20,+32.8; May 10,+32.1; June 21,+31.5; Aug. 7,+31.9; Oct. 3,+32.6; Nov. 21,+32.2. Records available: 1934, 1940-42, 1944, 1946-51.

9. Ponce de Leon Hotel. Sec. 9, T. 4 S., R. 29 E. At St. Augustine. Drilled unused artesian well in Floridan aquifer, diameter 13 inches, depth 1400 feet, cased to 170. Highest water level 34.2 above lsd, June 2, 1947; lowest 27.1 above lsd, Aug. 8, 1951. Records available: 1930, 1940, 1946-51. Feb. 8,+29.1; Mar. 20,+28.6; May 10,+27.5; June 21,+27.6; Aug. 8,+27.1; Oct. 3,+29.5; Nov. 21,+29.0.

Santa Rosa County

8. P. L. Coleman. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 2 S., R. 26 W. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, depth 1,063 feet, cased to 716. Land-surface datum is 11.82 feet above msl. Highest water level 63.0 above lsd, Mar. 9, 1949; lowest 53.3 above lsd, July 11, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+57.7	Apr. 3	+59.6	July 11	+53.3	Oct. 17	+56.5
Feb. 20	+57.5	May 30	+55.6	Sept. 5	+56.8	Dec. 5	+57.0

10. U. S. Army. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 1 S., R. 26 W. Drilled public-supply artesian well in sand, diameter 18 inches, reported depth 197 feet, cased to 140. Land-surface datum is 135.37 feet above msl. Highest water level 78.8 below lsd, Sept. 14, 1949; lowest 88.1 below lsd, May 30, 1951. Records available: 1947-51. Measurement discontinued.

Jan. 3	85.3	Apr. 3	87.5	July 11	87.8	Oct. 17	86.2
Feb. 20	86.0	May 30	88.1	Sept. 5	87.2	Dec. 6	85.1

11. U. S. Army. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 1 S., R. 26 W. Drilled public-supply artesian well in sand, diameter 16 to 10 inches, depth 209 feet, screen at 169-209. Land-surface datum is 132.34 feet above msl. Highest water level 101.7 below lsd, Sept. 16, 1948; lowest 115.2 below lsd, June 3, 1949. Records available: 1948-51. Jan. 3, 106.7; Feb. 20, 109.7; Apr. 3, 109.7. Measurement discontinued.

Sarasota County

5. R. M. Canty. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 36 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 8 inches, reported depth 720 feet. Land-surface datum is 43.60 feet above msl. Highest water level 3.25 below lsd, Oct. 3, 1943; lowest 9.03 below lsd, May 22, 1950. Records available: 1941-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.47	6.87	7.35	....	6.76	8.05	....	6.62	....	5.82	....	....
2	6.45	7.00	7.38	....	6.71	8.06	....	6.57	....	5.58	....	....
3	6.42	6.99	7.40	....	6.70	8.07	....	6.50	....	5.66	....	....
4	6.44	6.94	7.44	....	6.67	8.10	....	6.50	....	5.75	....	....
5	6.47	6.94	7.50	....	6.68	8.13	....	6.52	....	5.82	....	....
6	6.46	6.91	7.57	....	6.78	8.12	....	6.53	....	5.81	....	....
7	6.38	6.88	7.58	....	6.79	8.13	....	6.48	....	5.82	....	....
8	6.45	7.02	7.56	....	6.92	8.18	....	6.43	....	5.81	....	....
9	6.54	7.02	7.63	....	6.97	8.24	....	6.41	....	5.77	....	....
10	6.53	7.01	7.72	....	6.99	8.23	....	6.42	....	5.77	e6.68	....

5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	6.50	7.00	7.75	....	7.00	8.21	7.62	6.41	....	5.87	6.68	....
12	6.52	6.95	7.69	7.32	7.02	8.28	7.55	6.40	....	5.92	6.68	....
13	6.53	6.96	7.67	7.32	7.11	8.38	7.50	6.38	....	5.95	6.67	....
14	6.47	6.98	7.77	7.28	7.26	8.37	7.45	6.38	5.99	5.94	6.67	....
15	6.45	6.98	7.83	7.22	7.35	8.42	7.37	6.40	6.01	5.92	e6.69	....
16	6.59	6.98	7.87	7.13	7.32	8.44	7.31	6.37	6.02	....	....	....
17	6.62	6.97	7.89	7.07	7.27	8.47	7.27	6.33	6.02	....	....	....
18	6.59	6.99	7.88	7.04	7.36	8.48	7.25	6.31	5.97	....	....	....
19	6.57	7.01	7.86	6.98	7.44	8.47	7.23	6.30	6.00	....	....	....
20	6.59	6.98	7.86	6.99	7.48	8.46	7.22	6.30	6.05	....	....	....
21	6.59	6.94	7.87	7.01	7.54	8.49	7.20	6.29	6.08	....	....	....
22	6.62	7.00	7.88	6.97	7.61	8.49	7.12	6.27	6.08	....	....	....
23	6.62	7.08	7.86	6.92	7.60	8.43	7.02	6.28	6.09	....	....	....
24	6.61	7.14	7.82	6.88	7.59	8.41	6.95	6.18	6.09	....	....	....
25	6.63	7.17	7.80	6.87	7.68	8.42	6.87	6.13	6.07	....	....	....
26	6.76	7.21	7.81	6.86	7.74	8.33	6.82	6.09	6.05	....	....	....
27	6.82	7.24	7.77	6.85	7.79	8.27	6.72	6.06	6.05	....	....	....
28	6.85	7.28	7.72	6.82	7.82	8.23	6.67	6.07	6.03	....	....	....
29	6.85	....	7.67	6.75	7.87	8.22	6.64	6.05	5.98	....	....	....
30	6.86	....	7.68	6.73	7.94	....	6.62	5.98	5.92	....	....	....
31	6.86	....	7.73	....	8.00	....	6.62	....	....	....	....	....

e Estimated.

9. Palmer Corp. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 36 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 730 feet, cased to 101. Land-surface datum is 33.56 feet above msl. Highest water level 5.20 above lsd, Mar. 7, 1931; lowest 5.33 below lsd Mar. 10, 1951. Records available: 1930-37, 1941-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.97	....	3.78	3.41	1.73	....	2.65	0.83	0.07	....	2.95	2.92
2	2.23	....	3.60	3.44	1.74	....	2.61	1.02	.10	....	2.68	2.53
3	2.46	....	3.90	3.16	1.67	....	2.73	.89	.15	....	2.43	2.51
4	2.26	....	3.38	3.10	1.66	....	2.68	.84	.20	....	2.25	2.53
5	2.09	....	3.75	3.19	1.76	....	2.69	.89	....	....	2.27	2.33
6	2.15	....	3.86	3.14	1.89	3.16	2.60	.84	....	....	2.41	2.55
7	2.04	....	3.73	2.74	1.93	2.90	2.38	.76	....	....	2.48	2.95
8	1.87	....	3.97	2.63	1.94	3.00	2.33	.73	....	....	2.50	2.86
9	2.16	....	4.02	2.62	2.09	2.95	2.15	.74	....	....	2.62	2.81
10	2.17	....	4.35	2.54	2.09	2.85	2.03	.88	....	....	....	2.79
11	2.13	....	3.66	2.42	2.10	2.78	2.08	1.09	....	....	....	2.82
12	2.14	....	3.38	2.36	2.15	2.92	1.93	.77	....	....	....	2.74
13	2.24	....	3.06	2.32	2.21	3.00	1.97	.74	....	....	....	3.19
14	2.25	....	3.00	2.27	2.21	3.01	1.96	.77	....	....	....	3.08
15	1.95	....	3.18	2.18	....	2.92	1.73	.87	....	....	....	2.94
16	....	....	3.28	2.20	....	2.90	1.64	.86	....	....	2.75	2.75
17	....	....	3.33	2.28	....	2.86	1.54	.68	....	....	2.28	2.83
18	....	....	3.24	2.28	....	2.86	1.51	.63	....	....	2.17	3.00
19	....	....	3.18	2.27	....	2.90	1.62	.63	....	....	2.09	2.73
20	....	....	3.13	2.29	....	2.84	1.42	.63	....	....	2.06	2.70
21	....	....	2.98	2.26	....	2.82	1.42	.63	....	....	2.16	2.74
22	....	....	2.94	2.27	....	2.81	1.21	.66	....	....	2.17	2.48
23	....	....	3.01	2.23	....	2.78	1.10	.58	....	....	2.11	2.42
24	....	....	3.15	2.08	....	2.73	1.03	.52	....	....	2.06	2.33
25	....	....	3.09	1.80	....	2.62	1.14	.33	....	....	2.08	2.40
26	....	....	3.04	1.72	....	2.67	1.18	.25	....	2.75	2.33	2.48
27	....	....	3.05	1.72	....	2.91	1.09	.25	....	2.78	2.88	2.66
28	....	....	3.17	1.81	....	2.74	1.06	.23	....	2.44	2.62	3.08
29	....	....	3.22	1.71	....	2.63	.86	.22	....	2.50	2.40	3.38
30	....	....	3.27	1.71	....	2.81	.80	.28	....	2.70	2.71	3.05
31	....	....	3.42	....	....	....	.78	.09	....	2.85	....	3.01

Taylor County

35. Brooks-Scanlon Corp. NE $\frac{1}{4}$ sec. 10, T. 5 S., R. 8 E. Drilled unused artesian well in Floridan aquifer, diameter 17 to 12 inches, depth 245 feet, cased to 189. Highest water level 0.69 above lsd, Apr. 2, 1948; lowest 5.63 below lsd, Mar. 5, 1951. Records available: 1946-51.

35--Continued.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.81	5.20	5.38	2.14	3.11	3.85	....	2.29	1.50	2.00	1.95	....
2	4.81	5.18	5.39	2.07	3.18	3.91	....	2.29	1.57	2.01	1.39	....
3	4.83	5.15	5.40	2.09	3.20	4.00	....	1.71	1.63	2.09	1.01	....
4	4.89	5.18	5.41	2.17	3.22	4.08	....	1.62	1.70	2.19	1.10	....
5	4.90	5.20	5.47	2.22	3.26	4.15	....	1.70	1.71	2.23	1.19	....
6	4.90	5.19	5.44	2.24	3.37	4.19	....	1.60	1.72	2.29	1.09	....
7	4.90	5.10	5.43	2.14	3.42	4.24	....	1.64	1.78	2.33	.93	....
8	4.90	5.02	5.45	2.17	3.49	4.29	....	1.70	1.83	2.40	1.06	....
9	4.91	4.99	5.50	2.24	3.52	4.33	....	1.69	1.84	2.44	1.15	....
10	4.92	5.00	5.51	2.30	3.56	4.32	....	1.60	1.91	2.50	1.19	....
11	4.93	5.00	5.51	2.35	3.35	4.32	....	1.68	2.00	2.58	1.22	....
12	4.97	5.00	4.93	2.41	3.31	....	....	1.63	2.06	2.61	1.26	....
13	4.99	5.01	4.65	2.47	3.41	....	....	1.25	2.11	2.67	1.30	....
14	4.98	5.05	4.54	2.53	3.54	....	....	1.19	2.13	2.70	1.32	....
15	4.98	5.07	4.49	2.58	3.59	....	....	1.21	2.15	2.72	1.18	....
16	5.01	5.10	4.41	2.58	3.60	....	....	1.27	2.18	2.70	.33	....
17	5.02	5.11	4.39	2.62	3.68	....	....	1.27	2.06	2.73	.10	....
18	5.03	5.15	4.36	2.67	3.73	....	....	1.14	1.69	2.80	.20	....
19	5.05	5.18	4.00	2.64	3.79	....	....	1.14	1.68	2.81	.27	0.81
20	5.07	5.19	....	2.57	3.81	....	....	1.29	1.73	2.77	.34	.82
21	5.10	5.21	....	2.64	3.89	....	....	1.38	1.81	1.98	.41	.80
22	5.11	5.27	....	2.69	3.94	....	....	1.43	1.88	1.69	.46	.70
23	5.11	5.30	....	2.71	3.96	....	....	1.47	1.95	1.72	.49	.74
24	5.10	5.30	2.94	2.71	3.97	....	....	.80	1.98	1.78	.51	.79
25	5.09	5.31	2.99	2.79	4.05	....	3.12	.87	1.90	1.84	....	.80
26	5.11	5.33	3.03	2.83	3.94	....	3.22	1.00	1.96	1.90	....	.76
27	5.12	5.34	3.05	2.90	3.56	....	3.27	1.11	2.02	1.91	....	.70
28	5.15	5.37	3.07	2.95	3.57	....	3.23	1.20	2.09	1.89	....	.71
29	5.16	....	3.04	2.99	3.66	....	3.18	1.29	1.97	1.86	....	.72
30	5.19	....	2.19	3.05	3.76	....	2.60	1.35	1.99	1.94	....	.77
31	5.19	....	2.13	....	3.82	....	2.26	1.44	....	2.00	....	.80

36. Brooks-Scanlon Corp. At Foley. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 5 S., R. 8 E. Drilled unused artesian well in the Floridan aquifer, diameter 6 inches, depth 35 feet. Highest water level 2.65 below lsd, Apr. 2, 1948; lowest 13.22 below lsd, Mar. 2, 1951. Records available: 1947-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.58	12.93	13.19	10.75	11.08	11.78	11.92	10.52	8.14	8.95	8.94	6.54
2	12.59	12.91	13.21	10.68	11.12	11.79	11.82	10.46	8.22	8.88	8.80	6.58
3	12.60	12.95	13.19	10.63	11.15	11.80	11.74	10.20	8.30	8.89	8.53	6.61
4	12.62	12.96	13.14	10.59	11.19	11.83	11.67	9.89	8.38	8.93	8.27	6.64
5	12.63	12.91	13.13	10.54	11.22	11.84	11.54	9.68	8.44	8.99	8.10	6.68
6	12.64	12.90	13.14	10.51	11.25	11.87	11.45	9.46	8.49	9.04	8.00	6.72
7	12.64	12.91	13.14	10.47	11.29	11.90	11.33	9.34	8.53	9.08	7.91	6.77
8	12.66	12.92	13.15	10.45	11.32	11.92	11.23	9.26	8.59	9.13	7.87	6.82
9	12.63	12.92	13.15	10.43	11.34	11.94	11.12	9.20	8.64	9.18	7.83	6.86
10	12.70	12.93	13.13	10.41	11.37	11.96	11.05	9.15	8.69	9.21	7.82	6.89
11	12.74	12.93	13.13	10.40	11.35	11.98	11.01	9.12	8.75	9.25	7.81	6.93
12	12.76	12.96	13.04	10.39	11.39	12.01	10.97	9.09	8.81	9.28	7.80	6.98
13	12.77	13.03	12.89	10.39	11.41	12.04	10.94	9.02	8.86	9.30	7.81	7.02
14	12.79	13.05	12.79	10.39	11.44	12.06	10.94	8.98	8.91	9.32	7.82	7.06
15	12.80	13.02	12.72	10.40	11.47	12.08	10.94	8.95	8.95	9.36	7.81	7.09
16	12.75	12.98	12.66	10.42	11.49	12.09	10.94	8.91	8.98	9.39	7.35	7.13
17	12.78	13.03	12.62	10.43	11.52	12.12	10.93	8.86	9.0	9.44	6.59	7.17
18	12.84	13.08	12.57	10.46	11.55	12.14	10.89	8.82	9.0	9.48	6.34	7.16
19	12.86	13.04	12.48	10.47	11.57	12.17	10.80	8.80	8.99	9.51	6.27	7.12
20	12.87	13.03	12.22	10.49	11.59	12.17	10.72	8.78	9.0	9.53	6.27	7.09
21	12.87	13.06	11.94	10.52	11.62	12.18	10.68	8.78	9.0	9.43	6.33	7.06
22	12.88	13.05	11.65	10.54	11.62	12.19	10.65	8.83	9.02	9.23	6.35	6.88
23	12.89	13.05	11.43	10.65	11.67	12.19	10.62	8.87	9.04	9.18	6.36	6.73
24	12.89	13.05	11.28	10.72	11.70	12.17	10.60	8.39	9.08	9.05	6.38	6.65
25	12.86	13.05	11.18	10.71	11.73	12.11	10.60	8.03	9.03	9.0	6.40	6.61
26	12.83	13.06	11.09	10.75	11.75	12.12	10.60	7.90	9.0	8.96	6.43	6.56
27	12.80	13.07	11.03	10.85	11.72	12.12	10.61	7.82	9.0	8.94	6.43	6.52
28	12.80	13.14	11.00	10.91	11.70	12.12	10.66	7.82	9.06	8.92	6.43	6.49
29	12.81	....	10.97	10.91	11.72	12.11	10.72	7.88	9.06	8.91	6.47	6.47
30	12.85	....	10.89	11.04	11.74	12.02	10.67	7.94	9.0	8.92	6.52	6.46
31	12.92	....	10.82	....	11.77	....	10.57	8.05	....	8.94	....	6.46

Volusia County

6. Robert Steinhauer. At Oak Hill. Drilled unused well in Floridan aquifer, diameter 2 inches, reported depth 140 feet. Highest water level 3.97 above lsd, Sept. 28, 1948; lowest 0.99 above lsd, Aug. 1, 1950. Records available: 1948-51. Feb. 9,+3.02; Mar. 22,+1.64; Apr. 25,+1.55; June 14,+1.21; July 26,+1.20; Sept. 20,+1.78; Nov. 1,+2.29. Measurement discontinued.

23. City of Daytona Beach. Beach St. and Live Oak Ave. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 190 feet, cased to 84. Highest water level 2.93 above lsd, Oct. 14, 1949; lowest 1.12 below lsd, July 27, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	+0.76	Apr. 26	+1.43	July 27	-1.12	Nov. 1	+1.59
Feb. 9	+1.38	June 15	+2.23	Sept. 20	+1.35	Dec. 20	+2.17
Mar. 22	+1.78						

24. City of New Smyrna. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 190 feet, cased to 78. Land-surface datum is 17.70 feet above msl. Highest water level 3.15 below lsd, Oct. 27, 1949; lowest 15.64 below lsd, Aug. 13, 1951. Records available: 1948-51.

Daily highest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.68	6.36	6.35	6.56	7.47	....	....	6.67	13.07	7.99	12.10	12.21
2	5.65	6.34	6.46	6.56	7.60	....	....	6.55	13.10	7.60	12.10	12.20
3	5.70	6.12	6.25	6.70	6.69	....	....	6.44	13.17	7.59	12.18	11.40
4	5.80	6.06	6.26	7.12	7.10	....	....	6.40	13.21	7.66	12.25	12.12
5	6.15	6.07	6.13	7.10	7.11	....	....	6.56	8.33	7.75	12.28	12.17
6	5.88	6.05	6.62	7.02	7.16	....	....	6.45	13.20	7.57	11.39	11.41
7	5.78	6.03	6.40	5.49	7.04	....	....	6.38	7.16	7.79	12.17	11.45
8	5.80	6.07	6.10	6.42	7.23	....	....	6.33	13.10	7.77	12.27	11.39
9	5.76	6.41	6.45	6.99	7.29	....	....	6.39	13.10	7.72	11.43	12.30
10	5.85	5.98	6.16	6.87	7.08	....	....	6.40	13.12	7.69	11.40	11.44
11	5.84	5.63	6.24	7.06	7.11	....	....	8.60	13.11	6.94	12.24	11.43
12	6.29	5.66	6.19	6.68	7.15	....	....	8.59	6.27	7.80	12.19	11.40
13	6.35	5.67	6.32	6.90	6.95	....	....	9.10	8.59	7.79	11.31	9.65
14	5.98	6.00	6.26	6.70	7.04	....	....	9.05	8.64	6.73	12.18	12.35
15	6.02	5.76	6.30	6.81	6.86	....	....	8.74	8.64	7.66	6.07	11.49
16	6.10	6.00	6.60	7.04	5.15	....	....	7.10	8.58	12.23	12.19	12.48
17	6.12	5.84	6.45	7.36	5.50	....	....	8.07	8.55	12.21	12.17	11.45
18	6.36	5.88	6.30	7.36	6.70	....	....	8.55	8.45	12.17	12.27	11.53
19	6.51	5.76	6.61	7.21	6.79	....	....	8.86	8.45	12.16	12.27	12.30
20	6.38	5.80	6.50	6.86	7.30	....	....	8.85	8.45	11.49	12.23	11.38
21	6.29	5.84	6.44	7.23	7.06	....	....	8.45	8.42	12.01	12.28	11.42
22	6.30	5.85	6.68	7.03	7.14	....	....	6.38	5.28	10.60	11.41	12.40
23	6.27	6.04	6.90	6.88	....	....	....	8.22	7.85	11.99	12.20	12.37
24	6.24	6.07	6.72	7.03	....	....	....	8.76	8.35	12.01	7.91	12.37
25	6.18	5.79	6.33	7.30	....	....	....	8.84	8.30	12.09	12.20	12.39
26	6.39	5.93	6.82	7.46	....	....	....	8.84	8.30	12.09	12.11	11.40
27	6.49	6.17	6.81	7.45	....	....	6.54	8.25	8.31	12.01	12.08	12.31
28	6.49	6.06	6.85	7.02	....	....	6.70	7.61	7.48	11.99	12.06	12.34
29	6.48	....	6.91	6.95	....	....	6.62	13.17	8.22	12.00	12.17	11.39
30	6.31	....	6.94	7.37	....	....	6.60	13.15	8.12	12.05	12.19	12.29
31	6.40	....	6.50	....	....	....	6.67	13.07	....	12.10	....	11.45

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.79	10.14	11.25	10.88	12.22	....	....	11.02	13.39	8.17	12.40	12.46
2	10.35	10.20	11.13	11.39	....	....	....	10.93	13.40	8.00	12.43	12.48
3	9.48	10.35	11.24	11.06	13.48	....	....	12.10	13.47	7.73	12.44	13.28
4	9.74	9.82	11.03	11.40	....	....	....	12.93	13.55	7.74	12.50	12.47
5	9.82	10.04	11.12	11.60	....	....	....	12.95	14.80	7.83	12.55	12.40
6	9.74	10.00	11.20	11.41	....	....	....	10.77	13.60	7.87	13.34	13.30
7	9.37	9.80	13.24	12.07	....	....	....	10.45	13.48	7.87	12.45	13.51
8	9.68	9.88	13.45	10.12	....	....	....	10.85	13.40	7.88	12.53	13.36
9	9.92	10.60	11.31	10.43	....	....	....	10.26	13.42	7.84	13.09	12.60
10	10.78	10.36	11.57	11.02	13.09	....	....	10.45	13.43	9.65	13.27	13.10
11	10.13	10.09	10.91	10.45	13.48	....	....	11.17	13.42	7.87	12.45	13.34
12	10.93	10.33	13.31	10.64	12.71	....	....	15.48	13.43	7.90	12.49	13.25
13	10.10	10.16	9.96	10.36	....	....	....	15.64	13.42	12.55	12.81	13.31
14	10.04	10.06	10.68	10.40	12.00	....	....	11.49	8.78	7.85	12.51	12.70
15	9.74	10.30	11.06	10.58	12.10	....	....	11.01	13.10	12.55	13.50	13.55

24--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	10.01	10.27	13.46	11.64	12.90	.....	.....	11.72	8.73	12.55	12.49	12.80
17	10.15	9.89	11.36	12.14	10.68	.....	.....	10.76	8.68	12.55	12.44	14.34
18	10.33	10.10	11.08	11.61	11.98	.....	.....	14.68	8.64	12.50	12.53	13.51
19	10.35	10.43	11.69	10.61	12.24	.....	.....	11.16	8.59	12.45	12.54	12.60
20	11.30	10.31	10.70	10.67	12.17	.....	.....	11.20	12.86	12.35	12.55	13.73
21	10.83	10.29	10.77	11.36	11.91	.....	.....	12.32	8.53	12.38	12.56	13.57
22	11.18	10.78	11.01	10.66	12.62	.....	.....	8.80	8.50	12.30	13.15	12.67
23	10.27	10.99	11.17	11.35	.....	.....	.....	13.66	8.44	12.30	12.56	12.67
24	10.24	11.02	11.08	10.96	.....	.....	.....	13.55	8.46	12.35	12.55	12.66
25	9.66	10.83	11.04	12.40	.....	.....	.....	13.74	8.46	12.35	12.54	12.67
26	10.20	11.43	11.17	11.64	.....	.....	.....	9.12	8.41	12.35	12.47	13.39
27	10.90	11.56	11.26	11.84	.....	.....	13.35	13.48	13.04	12.35	12.41	12.66
28	10.06	11.74	11.30	12.47	.....	.....	13.65	13.44	8.37	12.26	12.40	12.59
29	10.26	.....	11.48	11.69	.....	.....	12.14	13.44	8.36	12.34	12.43	13.40
30	11.02	.....	11.13	12.76	.....	.....	13.28	13.44	8.30	12.40	12.45	12.60
31	11.00	.....	11.50	.....	.....	.....	13.12	13.45	.....	12.40	.....	13.10

25. City of Daytona Beach. Fairview Ave. and Beach St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 225 feet, cased to 86. Land-surface datum is 7.71 feet above msl. Highest water level 3.15 above lsd, Oct. 11, 1948; lowest 3.19 below lsd, July 26, 1951. Records available: 1948-51.

Daily mean water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+2.33	+1.48	+1.02	+1.67	+0.94	+0.48	.....	-0.22	-0.75	+2.34	+1.94	+2.26
2	2.31	.95	1.05	1.68	.88	.46	-0.65	.05	+ .05	2.30	2.00	2.30
3	2.20	.80	1.14	1.44	.82	.58	.....	+ .05	+ .45	2.30	2.14	2.28
4	2.08	.90	1.24	1.40	.95	.62	.....	.00	- .05	2.09	2.35	2.24
5	1.77	.88	.75	1.49	.00	.41	- .50	.75	.37	1.82	2.47	2.35
6	1.86	.75	1.00	1.50	.92	.05	.....	+ .40	.28	1.74	2.38	2.21
7	1.97	1.19	.65	1.86	.90	+ .04	.....	- .43	.23	1.27	2.27	2.09
8	1.50	.80	.70	2.10	.82	- .06	.....	.65	- .20	1.55	2.28	2.05
9	.78	.82	.70	2.01	.60	.....	+ .10	.70	+ .58	1.64	2.27	2.13
10	.75	1.38	.85	1.71	.80	.....	.....	.95	+ .12	1.90	2.32	2.05
11	.79	1.94	1.28	1.72	1.25	.....	.....	.82	- .53	2.00	2.33	2.10
12	1.10	1.55	1.68	1.71	1.33	.....	.....	.20	.80	1.98	2.28	2.13
13	1.20	1.35	1.51	1.90	1.59	.....	- 1.40	.65	.75	2.03	2.14	2.12
14	1.38	1.24	1.21	1.85	1.57	.....	1.72	1.25	.86	2.20	2.00	2.10
15	1.91	1.20	1.19	1.77	1.44	.....	- .72	1.70	- .82	2.24	1.95	2.03
16	.98	1.23	1.60	1.69	1.32	+ .25	.....	1.70	+ .55	2.05	2.13	2.14
17	.65	1.55	1.58	1.48	1.40	.90	- 1.78	1.73	.62	2.04	2.46	2.21
18	.48	1.79	1.55	1.28	1.40	.98	1.80	1.75	.97	2.17	2.61	2.25
19	.40	1.72	1.52	1.32	1.38	.85	1.70	.60	1.18	2.29	2.45	2.35
20	.50	1.50	1.44	1.58	1.41	.97	1.64	.70	1.33	1.92	2.39	2.44
21	1.39	.90	1.97	1.71	1.29	.88	1.40	1.30	1.47	2.41	2.46	2.33
22	.95	.85	2.03	1.83	.95	.83	.38	1.35	1.38	2.49	2.44	2.34
23	1.50	1.35	1.94	1.75	.68	.67	1.10	1.45	1.45	2.47	2.40	2.57
24	1.68	1.40	1.68	1.51	.86	.72	1.76	1.70	1.20	1.90	2.35	2.55
25	1.75	1.55	1.78	1.45	1.27	+ .21	1.90	1.50	1.03	2.04	2.36	2.61
26	1.00	1.61	1.90	1.35	1.27	- .64	2.09	.85	1.05	2.09	2.35	2.58
27	1.10	1.33	1.60	1.12	1.53	.....	2.22	.55	.97	2.14	2.21	2.62
28	1.90	1.25	1.35	1.15	1.60	.....	2.05	.70	1.05	2.18	2.45	2.64
29	1.95	.....	1.38	1.25	1.32	.....	.50	.65	1.68	2.19	2.44	2.52
30	1.60	.....	1.58	1.19	.95	.....	.45	.65	2.19	2.04	2.38	1.74
31	1.65	.....	1.59	.....	.79	.....	.33	.65	.....	1.95	.....	1.88

27. City of Daytona Beach. Orange Ave. and South Caroline St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 219 feet. Highest water level 3.70 above lsd, Oct. 17, 1949; lowest 1.31 below lsd, June 27, 1950. Records available: 1948-51.

Daily highest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.93	2.64	.....	2.41	.....	.....	.....	.....	.....	3.23	.....	.....
2	3.11	2.59	2.24	2.46	.....	.....	.....	.....	.....	3.28	3.00	2.19
3	3.02	1.76	2.22	2.24	.....	.....	.....	.....	.....	.....	.....	2.88
4	2.96	1.86	2.24	2.08	.....	.....	.....	.....	.....	.....	3.29	.....
5	2.91	2.32	2.45	2.13	.....	.....	.....	.....	.....	3.17	3.31	3.23
6	2.74	2.40	2.10	1.00	.....	.....	.....	.....	.....	.....	3.16	3.04
7	2.79	2.54	.95	2.48	.....	.....	.....	.....	.....	.....	.....	.....
8	3.04	2.54	.....	2.75	.....	.....	.....	.....	.....	.....	3.07	.....
9	2.60	2.35	.....	2.80	.....	.....	.....	.....	.....	.....	3.04	e2.84
10	2.52	2.50	.....	2.50	.....	.....	.....	.....	.....	3.03	e3.19	e2.95

27--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	2.63	2.66	....	2.12	....	....	....	....	....	....	e2.91	....
12	2.56	2.85	....	2.39	....	....	....	....	....	3.00	3.20	....
13	2.60	2.63	....	2.64	....	....	....	....	....	3.00	2.84	....
14	2.81	2.56	....	2.68	....	....	....	....	....	....	....	e2.95
15	1.80	2.40	....	2.20	....	....	....	....	....	....	....	....
16	2.86	1.74	....	2.50	....	1.40	....	....	....	....	3.08	....
17	1.70	2.60	....	1.57	....	1.82	....	....	....	3.20	3.28	....
18	1.69	2.67	....	2.23	....	1.98	....	....	....	....	....	e3.20
19	2.36	1.68	....	2.18	....	2.02	....	....	....	....	....	....
20	1.88	2.58	....	2.49	....	2.00	....	....	....	....	3.09	e3.25
21	2.32	1.73	....	2.54	....	1.96	....	....	....	....	....	e3.24
22	2.62	2.34	....	2.58	....	2.01	....	....	2.56	....	....	....
23	1.69	1.74	2.66	2.60	....	1.48	....	....	2.27	....	3.33	....
24	2.61	....	2.57	2.92	....	1.83	....	....	2.63	3.02	3.09	....
25	2.70	....	2.55	2.16	....	1.79	....	....	2.00	3.30	3.11	....
26	2.70	....	2.69	2.34	....	....	....	....	2.30	....	3.11	....
27	1.70	....	2.45	2.16	....	....	....	....	2.20	....	2.85	....
28	2.08	....	2.32	2.03	....	....	....	....	2.25	....	3.17	....
29	2.83	....	2.31	2.04	....	....	....	....	2.78	3.33	....	....
30	2.67	....	2.40	2.39	....	....	....	....	2.94	....	3.15	....
31	2.66	....	2.29	....	....	....	....	....	....	....	....	....

Daily lowest water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+1.24	+0.37	....	+1.06	....	....	....	....	....	+1.32	+2.14	+2.09
2	.86	....	+0.14	1.09	....	....	....	....	....	1.72	....	2.14
3	1.56	....	.19	.42	....	....	....	....	....	1.40	....	1.95
4	.83	....	+ .35	.81	....	....	....	....	....	1.35	2.30	....
5	1.57	....	-.04	.90	....	....	....	....	....	1.18	....	2.00
6	.85	....	+ .30	.90	....	....	....	....	....	1.16	....	1.99
7	1.26	....	-.01	.94	....	....	....	....	....	....	....	....
8	.46	....	....	1.34	....	....	....	....	....	.98	1.94	....
9	.20	.30	....	.58	....	....	....	....	....	1.14	1.71	e 2.05
10	1.60	1.48	....	1.05	....	....	....	....	....	1.09	....	e 1.61
11	.10	1.50	....	1.12	....	....	....	....	....	1.16	....	....
12	1.30	.42	....	1.14	....	....	....	....	....	1.12	2.04	....
13	.56	.38	....	1.21	....	....	....	....	....	1.29	1.96	....
14	1.58	.34	....	1.23	....	....	....	....	....	....	....	e 1.60
15	1.57	.37	....	1.18	....	....	....	....	....	....	1.58	....
16	.24	.40	....	1.04	....	-0.44	....	....	....	....	....	....
17	.01	.56	....	.90	....	+ .39	....	....	....	1.50	....	e 1.68
18	+ .21	.93	....	.29	....	-.06	....	....	....	....	....	....
19	-.20	.73	....	.58	....	+ .10	....	....	....	....	....	....
20	+ .07	.95	....	1.10	....	-.09	....	....	....	....	....	e 1.85
21	.51	1.60	....	1.20	....	.12	....	....	....	....	....	e+1.88
22	.05	.16	....	1.20	....	.05	....	....	+0.60	....	....	....
23	.45	.59	+ .78	.76	....	-.30	....	....	1.05	....	2.17	....
24	.57	....	.81	.92	....	+ .04	....	....	.59	1.70	....	....
25	.69	....	1.06	.94	....	-.92	....	....	.51	1.81	....	....
26	.13	....	1.11	.93	....	....	....	....	.48	....	2.09	....
27	.30	....	.35	.80	....	....	....	....	.40	....	1.80	....
28	1.43	....	.70	.79	....	....	....	....	.85	....	2.09	....
29	.56	....	.97	.82	....	....	....	....	1.46	2.33	....	....
30	.50	....	1.01	+ .57	....	....	....	....	1.84	....	....	....
31	.77	....	1.03	....	....	....	....	....	....	....	....	....

e Estimated.

29. A. L. McKay. At Barberville. NE $\frac{1}{4}$ sec. 20, T. 15 S., R. 29 E. Drilled artesian well in Floridan aquifer, diameter 6 inches, depth 107 feet. Land-surface datum is 40.5 feet above msl. Highest water level 9.47 below lsd, July 27, 1951; lowest 17.0 below lsd, Apr. 20, 1939. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	15.40	Apr. 26	16.32	July 27	9.47	Oct. 31	14.45
Mar. 6	15.72	June 14	11.86	Sept. 21	15.82	Dec. 21	15.25

30. Herbert Cowart. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 14 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 180 feet. Land-surface datum is 14.9 feet above msl. Highest water level 12.3 above lsd, Dec. 1941; lowest 6.7 above lsd, May 1948. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	+11.8	Apr. 26	+11.1	July 27	+10.8	Oct. 31	+11.5
Mar. 6	+8.8	June 14	+10.1	Sept. 21	+11.1	Dec. 21	+11.8

31. State Road Dept. At Alamana. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 18 S., R. 32 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 113 feet. Land-surface datum is 35.9 feet above msl. Highest water level 3.80 below lsd, Sept. 1945; lowest 8.07 below lsd, Aug. 8, 1950. Records available: 1936-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.70	5.57	6.36	6.82	7.81	7.24	7.05	7.13	5.76	4.85	5.13
2	....	5.67	5.60	6.37	6.85	7.83	7.22	7.05	7.18	5.50	4.86	5.14
3	....	5.56	5.61	6.37	6.85	7.86	7.16	7.07	7.23	5.17	4.88	5.14
4	....	5.32	5.64	6.42	6.85	7.88	7.06	7.11	7.20	5.02	4.93	5.12
5	....	5.25	5.69	6.48	6.88	7.91	6.98	7.09	7.18	4.98	4.97	5.13
6	....	5.19	5.74	6.50	6.94	7.94	6.95	7.10	7.02	4.95	4.99	5.18
7	....	5.08	5.76	6.41	7.01	7.98	6.93	7.09	6.86	4.95	5.00	5.25
8	....	5.08	5.77	6.34	7.07	7.92	6.92	7.04	6.76	4.97	5.07	5.27
9	....	5.10	5.82	6.34	7.14	7.88	6.92	7.02	6.73	4.99	5.12	5.29
10	....	5.10	5.88	6.34	7.16	7.87	6.92	7.02	6.71	5.00	5.13	5.30
11	....	5.10	5.90	6.35	7.17	7.88	6.94	7.02	6.71	5.04	5.15	5.29
12	....	5.11	5.87	6.35	7.19	7.92	6.97	7.02	6.71	5.09	5.17	5.31
13	....	5.13	5.84	6.37	7.22	7.98	7.02	7.03	6.71	5.13	5.18	5.37
14	....	5.17	5.88	6.41	7.33	7.97	7.08	7.06	6.74	5.14	5.20	5.40
15	....	5.20	5.93	6.43	7.38	7.95	7.11	7.10	6.75	5.05	5.22	5.40
16	....	5.22	5.97	6.46	7.37	7.94	7.16	7.15	6.74	4.97	5.11	5.44
17	....	5.23	6.02	6.49	7.35	7.95	7.25	7.18	6.71	4.92	4.98	5.46
18	5.58	5.24	6.05	6.54	7.39	7.95	7.27	7.25	6.64	4.86	4.96	5.38
19	5.60	5.27	6.08	6.56	7.44	7.94	7.27	7.27	6.55	4.82	4.93	5.32
20	5.61	5.28	6.11	6.58	7.44	7.88	7.28	7.26	6.47	4.79	4.92	5.27
21	5.62	5.27	6.11	6.62	7.49	7.83	7.28	7.15	6.40	4.77	4.94	5.27
22	5.64	5.30	6.10	6.65	7.53	7.73	7.32	7.07	6.36	4.73	4.96	5.28
23	5.67	5.35	6.12	6.67	7.55	7.63	7.33	7.04	6.33	4.70	4.95	5.26
24	5.67	5.39	6.13	6.69	7.51	7.57	7.27	7.03	6.33	4.68	4.95	5.25
25	5.66	5.45	6.14	6.72	7.51	7.51	7.20	7.03	6.33	4.69	4.98	5.22
26	5.68	5.48	6.19	6.73	7.53	7.48	7.14	7.04	6.35	4.72	4.99	5.21
27	5.71	5.50	6.23	6.75	7.54	7.47	7.08	7.04	6.39	4.71	5.00	5.15
28	5.72	5.53	6.24	6.77	7.55	7.44	7.05	7.05	6.39	4.70	5.02	5.13
29	5.71		6.25	6.76	7.59	7.35	7.02	7.07	6.25	4.73	5.06	5.09
30	5.70		6.28	6.76	7.67	7.29	7.02	7.08	6.06	4.79	5.10	5.08
31	5.71		6.34		7.75		7.03	7.10		4.83		5.11

32. Robert Nolan. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 14 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 138 feet. Land-surface datum is 23.2 feet above msl. Highest water level 0.4 below lsd, Sept. 1947; lowest 3.2 below lsd, June 1945. Records available: 1936-51. Jan. 18, 1.56; Mar. 6, 1.85; Apr. 26, 2.37.

Wakulla County

2. O. P. Shields. At St. Marks. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 103 feet, cased to 22. Highest water level 1.26 above lsd, Aug. 31, 1950; lowest 4.28 below lsd, Oct. 15, 1951. Records available: 1946-51.

Daily mean water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.60	2.40	2.72	2.28	2.66	2.55	2.79	3.18	3.45	3.10	....	....
2	2.42	3.05	2.85	2.07	2.70	2.50	2.78	3.30	3.25	3.19	....	....
3	2.27	3.21	2.82	2.27	2.86	2.57	2.39	3.34	3.27	3.39	....	....
4	2.24	2.94	2.72	2.40	2.82	2.62	2.30	3.29	3.32	3.38	....	....
5	2.39	2.82	2.67	2.42	2.50	2.72	2.34	3.29	3.35	3.46	....	....
6	2.38	2.62	2.75	2.25	2.72	2.81	2.34	3.39	3.34	3.45	....	....
7	2.30	2.23	2.72	1.45	2.92	2.86	2.19	3.49	3.33	3.45	....	....
8	2.77	2.82	2.70	1.85	3.02	2.85	2.25	3.45	3.44	3.61	....	1.33
9	2.80	2.55	2.85	2.05	3.05	2.89	2.37	3.45	3.35	3.76	....	1.32
10	2.55	2.54	2.87	2.07	2.86	3.00	2.48	3.52	3.37	3.95	....	1.41

2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	2.37	2.63	2.78	2.08	2.35	2.95	2.57	3.47	3.40	4.02	....	1.54
12	2.44	2.64	2.18	2.28	2.40	2.95	2.70	3.47	3.30	4.00	....	1.69
13	2.50	2.63	2.27	2.60	2.62	3.02	2.83	3.37	3.30	4.03	....	1.63
14	2.36	2.77	2.50	2.57	2.75	3.10	2.90	3.34	3.25	4.13	....	1.26
15	2.32	2.83	2.44	2.55	2.84	3.01	2.96	3.06	3.28	4.15	....	1.25
16	2.76	2.84	2.45	2.36	2.90	2.84	3.02	2.91	3.21	3.97	....	2.08
17	2.72	2.80	2.38	2.50	2.97	2.72	2.90	2.88	3.00	3.85	....	1.88
18	2.45	2.74	2.10	2.56	3.05	2.70	2.68	2.94	2.86	e3.85	....	1.18
19	2.44	2.71	1.79	2.35	3.00	2.54	2.61	2.82	2.94	....	....	1.45
20	2.50	2.57	2.14	2.25	2.93	2.45	2.55	2.90	3.02	....	....	1.13
21	2.55	2.43	2.15	2.35	2.86	2.38	2.38	2.98	3.03	....	....	.92
22	2.84	2.82	2.29	2.15	2.78	2.39	2.18	3.07	2.98	....	....	1.61
23	2.74	2.72	2.13	2.28	2.75	2.42	2.33	3.16	3.09	....	....	1.57
24	2.54	2.67	2.00	2.41	2.68	2.52	2.72	3.20	3.18	....	....	1.58
25	2.67	2.67	2.26	2.49	2.68	2.62	2.84	3.31	3.20	....	....	1.50
26	2.90	2.55	2.40	2.56	2.50	2.63	3.02	3.38	3.17	....	....	1.35
27	2.64	2.55	2.32	2.65	2.35	2.67	3.23	3.36	3.22	....	....	1.73
28	2.55	2.62	2.00	2.78	2.40	2.72	3.45	3.39	3.22	....	....	1.77
29	2.57		1.78	2.71	2.56	2.86	3.29	3.37	3.19	....	....	1.30
30	2.64		2.03	2.66	2.68	2.84	3.07	3.46	3.27	....	....	1.14
31	2.65		2.37		2.56		3.12	3.42		....		1.23

e Estimated.

11. U. S. Dept. of Interior. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 70 feet, cased to 45. Highest water level 5.17 below lsd, Sept. 7, 1951; lowest 9.00 below lsd, Mar. 7, 1949. Records available: 1946-51. Jan. 4, 7.48; Feb. 21, 7.26; Apr. 4, 7.05; May 31, 7.60; July 13, 5.90; Sept. 7, 5.17; Oct. 18, 6.97.

Walton County

10. Town of Freeport. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 1 N., R. 19 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 183 feet, cased to 180. Land-surface datum is about 21.25 feet above msl. Highest water level 12.5 above lsd, July 30, 1947; lowest 7.3 above lsd, Sept. 6, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+8.4	Apr. 4	+8.4	July 13	+7.4	Oct. 18	+7.0
Feb. 21	+8.5	May 31	+8.5	Sept. 6	+7.3	Dec. 7	+8.3

13. O. H. Saltsman. At Point Washington. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 1 S., R. 19 W. Drilled public-supply artesian well, diameter 8 inches, reported depth 450 feet. Land-surface datum is about 10.56 feet above msl. Highest water level 20.8 above lsd, Sept. 3, 1947; lowest 14.2 above lsd, Oct. 30, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+14.9	Apr. 4	+15.0	July 13	+14.4	Oct. 18	+14.7
Feb. 21	+15.0	May 31	+15.0	Sept. 6	+14.6	Dec. 7	+14.8

14. Walton County. At Point Washington. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 1 S., R. 19 W. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet. Land-surface datum is about 14.81 feet above msl. Highest water level 15.9 above lsd, July 12, 1949; lowest 9.0 above lsd, Nov. 19, 1946. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+11.4	Apr. 4	+11.2	July 13	+10.6	Oct. 18	+10.9
Feb. 21	+11.3	May 31	+10.9	Sept. 6	+10.7	Dec. 7	+10.8

1/. Citizens Oil Co. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 1 N., R. 19 W. Drilled industrial artesian well in Floridan aquifer, diameter 8 inches, reported depth 187 feet. Land-surface datum is 2.70 feet above msl. Highest water level 35.0 above lsd, Sept. 3, 1947; lowest 28.5 above lsd, Nov. 14, 1950. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+29.7	Apr. 4	+29.5	July 13	+29.2	Oct. 18	+29.3
Feb. 21	+28.9	May 31	+29.2	Sept. 6	+29.0	Dec. 7	+28.8

19. U. S. Army. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 2 N., R. 21 W. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 630 feet, cased to 323. Land-surface datum is 230.71 feet above msl. Highest water level 126.2 below lsd, June 23, 1948; lowest 187.4 below lsd, Jan. 21, 1949. Jan. 3, 128.6; Feb. 19, 134.6; Apr. 2, 129.1; . Measurement discontinued. Records available: 1947-51.

Washington County

4. Town of Caryville. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 4 N., R. 16 W. Drilled public-supply artesian well in Floridan aquifer, diameter 4 inches, reported depth 785 feet. Land-surface datum is about 58 feet above msl. Highest water level 7.80 below lsd, Apr. 17, 1947; lowest 16.00 below lsd, Oct. 16, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	13.64	Apr. 2	10.91	July 10	14.18	Oct. 16	16.00
Feb. 19	13.09	May 28	12.64	Sept. 4	15.26	Dec. 4	14.78

GEORGIA

By G. H. Chase and S. M. Herrick

Scope of Water-Level Program

The observation-well program in Georgia, begun in 1938, in cooperation with the State Department of Mines, Mining and Geology, was continued in 1951. In 1938 the program covered three counties - Chatham, Dougherty, and Glynn. In 1951 it included 27 counties, 6 of which are in the northern part of the State. In 1951 recording gages were maintained on four wells during the entire year. The publication of data for observation wells for which measurements have been published in previous annual water-level reports and for which no measurements appear in this report has been discontinued in the annual water-level reports. They may be published in project reports or special reports from time to time.

Precipitation

In northern Georgia precipitation during 1951 was normal. However, rainfall during the 2 preceding years had been somewhat below normal. This condition resulted in a lag in the rise of the water table during 1951. Hence, practically all water-table wells of northern Georgia showed year-end water levels that were lower than December 1950 water levels. Water-table wells in southern Georgia showed varying levels at the close of 1951 as compared with December 1950 levels. Rainfall on the Coastal Plain was spotty during 1951--below normal in some areas and normal or somewhat above normal in others. Accordingly, Chatham County well 343, showed an average water level that was lower in 1951 as compared with the average water level for 1950. This was due to less rainfall during 1950. On the other hand, Baker County well 25, showed higher year-end water levels in 1951 as compared with December 1950 levels. With the exception of wells situated in recharge areas, artesian wells are not immediately affected by annual precipitation.

Pumpage

In coastal Georgia there are three areas in which water levels are notably affected by heavy pumping--Savannah, Brunswick, and St. Marys. In all three areas increases in annual withdrawals of ground water during 1951 were recorded. Such increases in pumping resulted in further lowering of water levels in wells situated in these three areas. In 1951 the total metered pumpage of the Savannah area, which is the combined pumpage of the Savannah municipal waterworks and the Union Bag and Paper Corporation, increased 2,610 acre-feet as compared with 1950. In Brunswick, total metered pumpage, which is the combined pumpage of the Peoples Water Service Company, Brunswick Pulp and Paper Company, and the Hercules Powder Company, increased 3,550 acre-feet as compared with 1950. In the St. Marys area, metered pumpage by the St. Marys Kraft Corporation increased 4,480 acre-feet as compared with 1950.

Areas in Georgia, where pumpage is still increasing are the Savannah area, which includes all of Chatham County and a small part of northern Bryan County, the Brunswick area, or the city of Brunswick, and the St. Marys area.

Interpretation of Water-Level Fluctuations

In northern Georgia, where water-table conditions prevail, water levels fluctuate from season to season with the precipitation. The water table stands highest during the months of April and May, when precipitation is greatest, and lowest in December and January, when precipitation is least. The range and frequency of the fluctuations also differ from well to well, the proximity of a well to a main drainage channel and its position in relation to the topography of the surrounding country determines, in large measure, the fluctuations of its water level. With few exceptions year-end water levels in northern Georgia were lower in 1951 than in 1950. The decline in water levels ranged from 0.06 foot to 5.89 feet. Although total annual precipitation in the areas in which these observation wells are situated was normal during 1951, precipitation during the 2 preceding years has been below normal. This fact is believed to account for the decline in water levels in 1951. Spalding County well 12, at the Georgia State Experiment Station is a dug well, 31 feet deep. The average water level in this well was 1.55 feet lower in 1951 as compared with the average water level in 1950. For location of observation wells see figures 10, 11, and 12.



Figure 10. --Location of observation wells in northern Georgia, 1951.

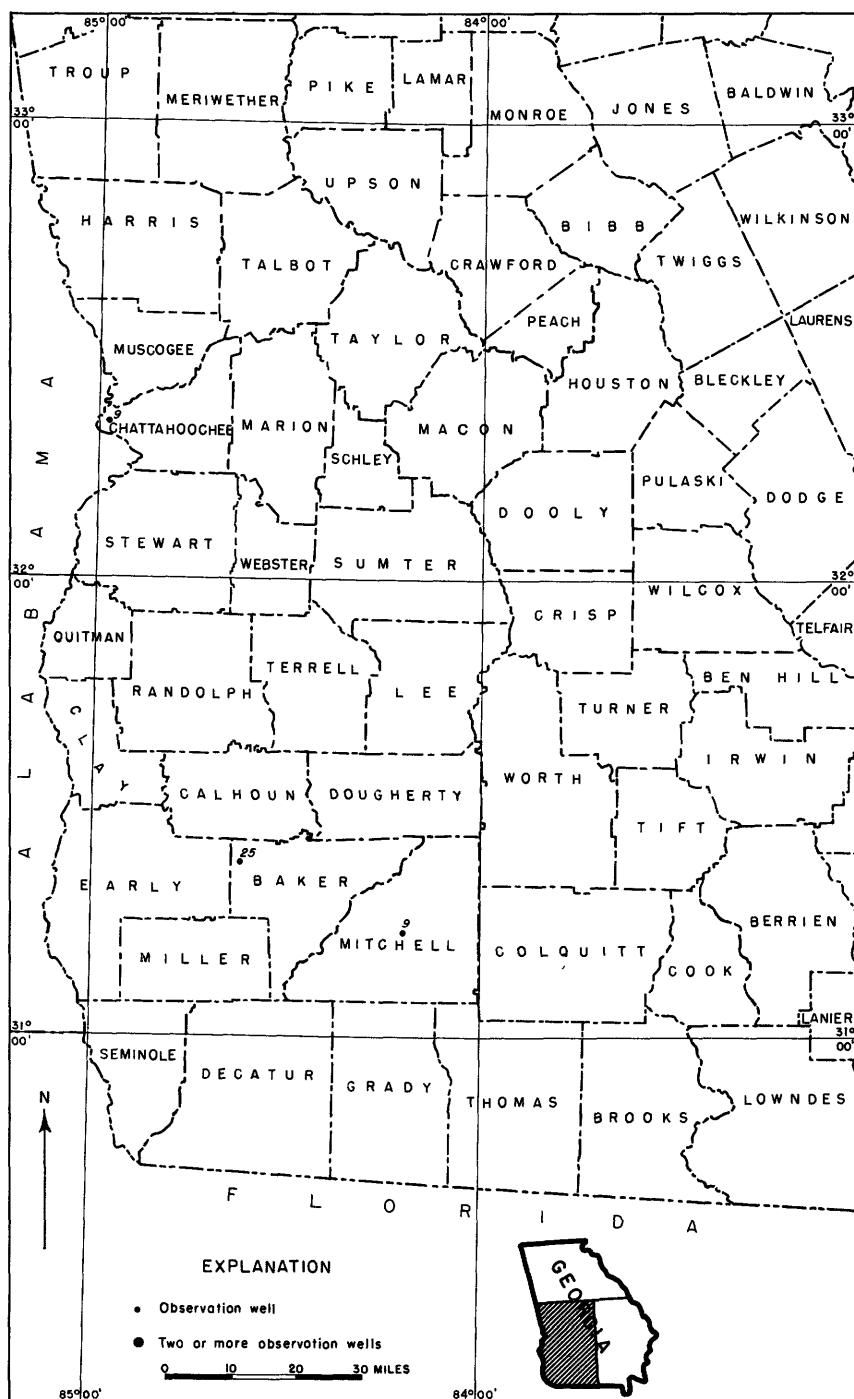


Figure 11. --Location of observation wells in southwestern Georgia, 1951.

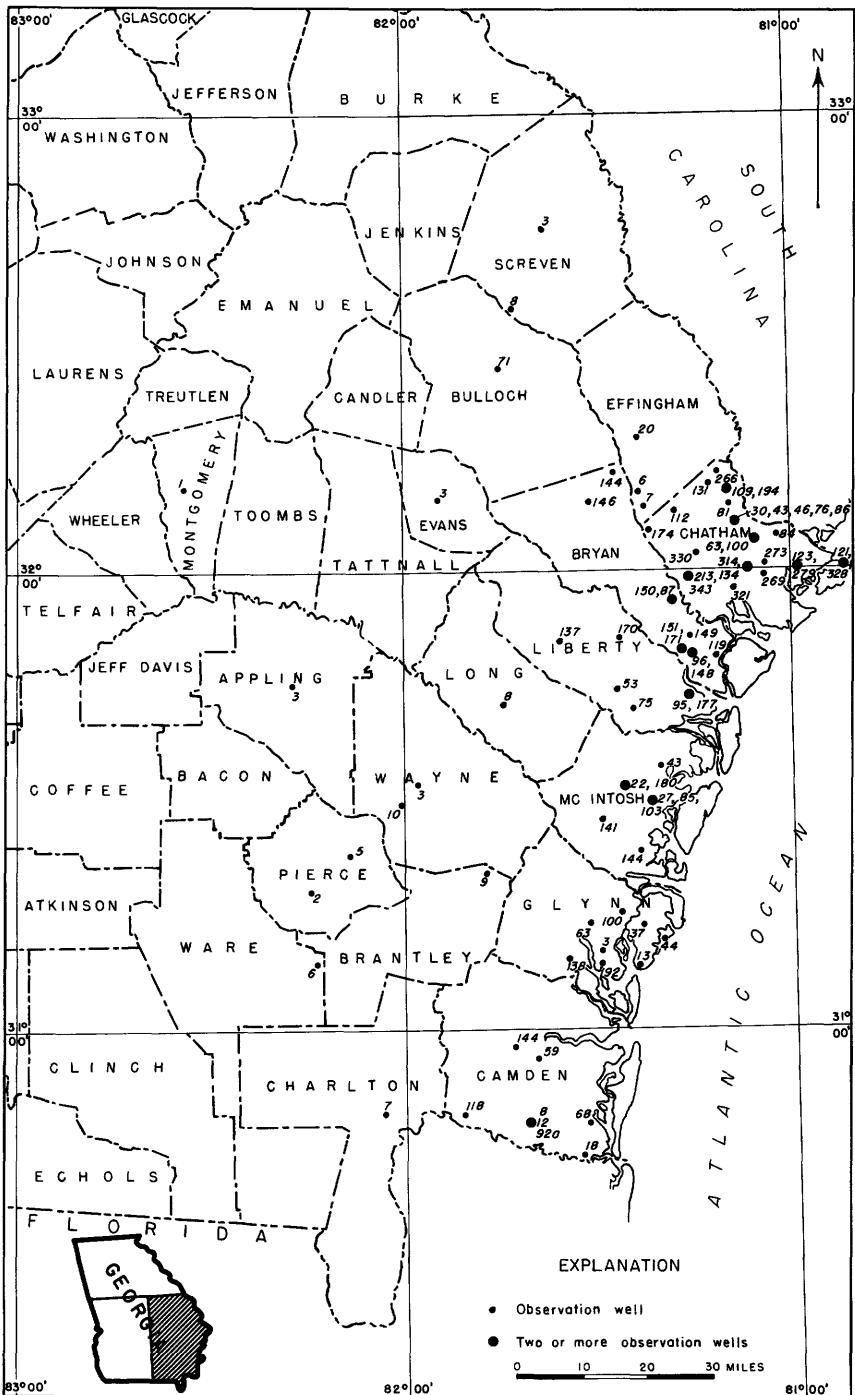


Figure 12. --Location of observation wells in southeastern Georgia, 1951.

In the Coastal Plain, water levels at the close of 1951 were uniformly lower than during the previous December. In Savannah, at the center of heaviest pumping, the average artesian water level was 8 feet lower during 1951. The average decline for the industrial area as a whole, excluding the center of pumping, was 4.72 feet in December 1951. On Wilmington and Tybee Islands the average year-end decline during 1951 amounted to only 0.44 foot. In the southern part of Chatham County, December water levels showed an average decline of 0.79 foot. In the northern and northwestern parts of this county year-end water levels had declined approximately 1.32 feet and 0.93 foot, respectively. Increased pumping in the industrial area of Savannah is believed to be the cause of decreased water levels in wells situated in Chatham County. In the remainder of the Coastal Plain, observation wells showed uniformly lower year-end water levels. In Bryan and Liberty Counties, December water levels averaged 0.65 foot and 0.76 foot, respectively, lower in 1951 as compared with 1950. In McIntosh, Glynn, and Camden Counties, average year-end water levels were down 0.82 foot, 1.5 feet, and 1.3 feet, respectively, as compared with December 1950. Glynn County well 3, in the city of Brunswick, showed an average decline of 1.5 feet, as compared with 1950. The decline in this well is the same as recorded for wells outside of the area affected by pumping. The increase in pumping in the Brunswick area, therefore, has affected water levels in Brunswick little, if any, during 1951. It is believed, therefore, that the decline in water levels for Bryan, Liberty, McIntosh, Glynn, and most of Camden, the latter with the exception of the St. Marys area, was due to natural causes. In the St. Marys area, Camden County, well 18, showed a year-end decline of 6.4 feet, as compared with December 1950 water levels. Most of this decline is believed to be due to increased pumping by the St. Marys Kraft Corporation during 1951, the remainder being due to natural causes. Water levels in Appling, Brantley, Bulloch, Charlton, Effingham, Evans, Montgomery, Pierce, Screven, Ware, and Wayne Counties were lower in 1951 as compared with 1950, ranging from 0.8 foot to 2 feet lower. As all these counties are outside areas of heavy pumping these declines are believed to be due to natural causes, or to less water entering the aquifer. The average daily water level for well 343, Chatham County, showed a decline of 0.52 foot in 1951 as compared with 1950, probably the result of decreased precipitation during 1951. The average water level for Baker County well 25 was up 1.46 feet in 1951 as compared with the average water level in 1950. Increased precipitation during 1951 is believed to be the reason for the rise in water level.

Year-end levels in Chattahoochee County well 9 in 1951 were down approximately 2 feet as compared with December 1950 levels.

Acknowledgments

Measurements for Baker County well 25 were made by Emory University Field Station as part of the hydrologic data collected in connection with its research on malaria control. Water levels in Chatham County well 46 were furnished through courtesy of Union Bag and Paper Corporation. Measurements in Chatham County well 343 were made by the U. S. Plant Introduction Station, U. S. Department of Agriculture.

Well-Numbering System

Observation wells in Georgia are listed alphabetically by counties and numerically within each county.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Appling County

3. Filtered Rosin Products Co. Near Baxley. Lat. $31^{\circ}46'15''$, long. $82^{\circ}16'54''$. Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 625 feet, cased to 525 feet. Land-surface datum is 204 feet above msl. Highest water level 128.6 below lsd, Sept. 20, 1946; lowest 132.37 below lsd, Aug. 20, 1951. Records available: 1941-43, 1945-47, 1949-51. Aug. 20, 132.37; Dec. 8, 131.96.

Baker County

25. Emory University Field Station. Lat. $31^{\circ}23'09''$, long. $84^{\circ}37'26''$. Drilled unused water-table well in residuum, diameter 6 inches, depth 28 feet, cased with tile. Land-surface datum is 200 feet above msl. Highest water level 0.52 below lsd, Mar. 9, 1948; lowest 21.22 below lsd, Nov. 3, 1943. Records available: 1940-51.

25--Continued.

Daily 8:30 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.71	17.02	16.75	11.14	9.08	15.14	17.14	17.90	18.36	18.49	18.49	17.06
2	17.70	17.03	16.77	10.36	9.37	15.24	17.16	17.86	18.38	18.49	18.49	17.10
3	17.69	17.03	16.78	9.99	9.59	15.38	17.18	17.83	18.40	18.49	.....	17.13
4	17.68	17.02	16.80	9.79	9.88	15.47	17.21	17.81	18.41	18.49	.....	17.16
5	17.67	17.00	16.82	9.71	10.11	15.59	17.23	17.81	18.45	18.49	.....	17.15
6	17.66	16.99	16.84	9.70	10.31	15.70	17.25	17.83	18.46	18.49	.....	17.06
7	17.64	16.96	16.86	9.71	10.61	15.79	17.27	17.85	18.46	18.49	18.16	16.89
8	17.61	16.93	16.88	9.76	10.86	15.96	17.29	17.88	18.47	18.49	18.02	16.71
9	17.57	16.91	16.89	9.90	11.10	16.06	17.31	17.91	18.47	18.49	17.90	16.52
10	17.53	16.89	16.91	10.03	11.27	16.21	17.33	17.93	18.47	18.49	17.79	16.37
11	17.48	16.86	16.93	10.18	11.42	16.36	17.37	17.95	18.48	18.49	17.67	16.25
12	17.43	16.82	16.95	10.36	11.56	16.46	17.39	17.96	18.49	18.49	17.59	16.13
13	17.38	16.80	16.96	10.55	11.73	16.57	17.42	18.00	18.49	18.49	17.53	16.05
14	17.33	16.78	16.99	10.72	11.96	16.65	17.45	18.04	18.49	18.49	17.49	16.04
15	17.27	16.76	17.01	10.87	12.21	16.72	17.49	18.05	18.49	18.49	17.46	16.00
16	17.21	16.75	17.02	11.14	12.48	16.76	17.54	18.05	18.49	18.49	17.44	16.03
17	17.17	16.74	17.05	11.36	12.69	16.80	17.58	18.06	18.49	18.49	17.39	16.05
18	17.13	16.72	17.07	11.56	12.95	16.83	17.68	18.06	18.49	18.49	17.30	16.02
19	17.09	16.71	17.08	11.66	13.25	16.86	17.73	18.07	18.49	18.49	17.19	15.35
20	17.05	16.70	16.81	9.86	13.48	16.88	17.73	18.08	18.49	18.49	17.14	14.38
21	17.02	16.69	16.20	7.81	13.65	16.91	17.74	18.10	18.49	18.49	17.01	13.53
22	17.00	16.68	15.59	7.38	13.85	16.93	17.75	18.14	18.49	18.49	16.94	12.92
23	17.00	16.67	15.13	7.41	14.09	16.96	17.78	18.16	18.49	18.49	16.91	12.74
24	16.99	16.68	14.80	7.52	14.26	16.99	17.80	18.18	18.49	18.49	16.91	12.73
25	16.98	16.69	14.59	7.71	14.41	17.02	17.81	18.21	18.49	18.49	16.91	12.58
26	16.97	16.70	14.47	7.91	14.53	17.05	17.82	18.23	18.49	18.49	16.92	12.38
27	16.97	16.71	14.40	8.15	14.68	17.09	17.82	18.24	18.49	18.49	16.95	12.25
28	16.97	16.73	14.36	8.37	14.81	17.10	17.83	18.26	18.49	18.49	16.96	12.19
29	16.98		14.33	8.60	14.88	17.11	17.84	18.30	18.49	18.49	16.99	12.06
30	17.00		13.71	8.83	14.95	17.12	17.86	18.32	18.49	18.49	17.02	11.95
31	17.01		12.54		15.03		17.86	18.33		18.49		11.91

Brantley County

9. U. S. Government. Lat. 31°14'51", long. 81°47'26". Drilled unused artesian well in Ocala limestone, diameter 8 to 6 inches, depth 705 feet, cased to 585 feet. Land-surface datum is 60 feet above msl. Highest water level 1.04 below lsd, Dec. 8, 1947; lowest 6.89 below lsd, July 30, 1951. Records available: 1941-43, 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	3.97	Apr. 30	5.84	July 30	6.89	Oct. 30	6.53
Feb. 28	5.38	May 31	6.22	Aug. 30	6.81	Nov. 30	6.25
Mar. 31	5.60	June 30	6.68	Sept. 30	6.81	Dec. 31	5.94

Bryan County

87. Henry Ford. At Richmond Hill. Lat. 31°56'44", long. 81°19'37". Drilled unused artesian well in Ocala limestone, diameter 4 inches, depth 580 feet, cased to 113 feet. Land-surface datum is 24.44 feet above msl. Highest water level 4.53 above lsd, Oct. 31, 1939; lowest 0.9 below lsd, Aug. 17, 1951. Records available: 1939-51. Aug. 17, 0.9; Dec. 5, 0.6.

96. J. W. Harden. Lat. 31°49'02", long. 81°15'16". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 320 feet, cased to 60 feet. Land-surface datum is 10 feet above msl. Highest water level 11.05 above lsd, May 5, 1939; lowest 7.1 above lsd, Aug. 17, Dec. 5, 1951. Records available: 1939-51. Aug. 17, +7.1; Dec. 5, +7.1.

119. Henry Ford. At Kilkenny. Lat. 31°47'20", long. 81°12'16". Drilled domestic artesian well in Ocala limestone, diameter 3 inches. Land-surface datum is 10 feet above msl. Highest water level 10.74 above lsd, May 12, 1939; lowest 5.92 above lsd, Dec. 5, 1951. Records available: 1939-47, 1949-51. Aug. 17, +6.48; Dec. 5, +5.92.

144. U. Butler. At Eldora. Lat. 32°13'54", long. 81°26'47". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet, cased to 80 feet. Land-surface datum is 67.4 feet above msl. Highest water level 19.85 below lsd, Nov. 29, 1948; lowest 22.04 below lsd, Mar. 2, 1944. Records available: 1942-51. Aug. 17, 21.71.

146. L. W. Smith. Lat. 32°09'04", long. 81°30'33". Drilled domestic artesian well in Ocala limestone, diameter 6 inches, depth 423 feet, cased to 318 feet. Land-surface datum is 68 feet above msl. Highest water level 19.53 below lsd, Mar. 6, 1941; lowest 23.62 below lsd, Dec. 4, 1951. Records available: 1941-51. Dec. 4, 23.62.

148. Henry Ford. At Keller. Lat. 31°50'35", long. 81°15'14". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 440 feet, cased to 152 feet. Land-surface datum is 17 feet above msl. Highest water level 7.40 above lsd, Mar. 25, 1941; lowest 4.17 above lsd, Aug. 17, 1951. Records available: 1940-51. Aug. 17, +4.17; Dec. 5, +4.28.

149. Henry Ford. Lat. 31°51'40", long. 81°16'57". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 160. Land-surface datum is 10 feet above msl. Highest water level 5.65 above lsd, Dec. 17, 1940; lowest 2.39 above lsd, Aug. 17, 1951. Records available: 1940-47, 1949-51. Aug. 17, +2.39; Dec. 5, +2.42.

150. Henry Ford. At Richmond Hill. Lat. 31°57'32", long. 81°19'37". Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 inches, depth 480 feet, cased to about 400 feet. Land-surface datum is 15 feet above msl. Highest water level 12.57 above lsd, Dec. 17, 1940; lowest 8.46 above lsd, Sept. 15, 1944. Records available: 1940-51. Aug. 17, +8.93; Dec. 5, +9.16.

151. Henry Ford. Lat. 31°50'19", long. 81°16'18". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 160 feet. Land-surface datum is 18 feet above msl. Highest water level 8.3 above lsd, Mar. 25, 1941; lowest 5.08 above lsd, Aug. 17, 1951. Records available: 1941-51. Aug. 17, +5.08; Dec. 5, +5.33.

171. Deal & Purvis. Belfast. Lat. 31°49'18", long. 8°17'22". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet, cased to 120 feet. Land-surface datum is 17 feet above msl. Highest water level 8.03 above lsd, Mar. 5, 1947; lowest 5.72 above lsd, Aug. 17, 1951. Records available: 1942-51. Aug. 17, +5.72; Dec. 5, +6.53.

Bulloch County

71. Wingate Faceville. Lat. 32°27'20", long. 81°45'48". Drilled unused artesian well in Ocala limestone, diameter 8 inches, depth 390 feet. Land-surface datum is 187 feet above msl. Highest water level 67.7 below lsd, Feb. 1, 1949; lowest 72.2 below lsd, Aug. 31, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	70.0	Apr. 30	71.3	July 31	71.8	Oct. 30	71.3
Feb. 26	70.2	May 31	71.2	Aug. 31	72.2	Nov. 30	71.1
Mar. 31	70.0	June 29	71.8	Oct. 1	71.8	Dec. 31	70.8

Camden County

8. M. L. Hill. At Kingsland. Lat. 30°47'51", long. 81°41'08". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 486 feet, cased to 300 feet. Land-surface datum is 36.5 feet above msl. Highest water level 26.0 above lsd, June 23, 1939; lowest 18.83 above lsd, Aug. 19, 1951. Records available: 1938-51. Aug. 19, +18.83; Dec. 7, +19.66.

12. J. J. Godley. At Kingsland. Lat. 30°48'00", long. 81°41'26". Domestic artesian well in Ocala limestone, diameter 3 inches. Land-surface datum is 36.9 feet above msl. Highest water level 25.48 above lsd, Dec. 7, 1947; lowest 19.45 above lsd, Aug. 18, 1951. Records available: 1938, 1940-51. Aug. 19, +19.45, Dec. 7, +20.52.

18. L. O. Harris. At St. Marys. Lat. 30°43'50", long. 81°32'24". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 450 feet. Land-surface datum is 11.3 feet above msl. Highest water level 45.3 above lsd, Sept. 19, 1939; lowest 14.2 above lsd, Dec. 8, 1951. Records available: 1938-51. Aug. 19, +29.77, Kraft Paper Mill shut down; Dec. 8, +14.2. Measurement discontinued.

59. Zack Colson. Lat. 30°56'34", long. 81°40'17". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth about 400 feet. Land-surface datum is 26 feet above msl. Highest water level 32.7 above lsd, June 22, 1939; lowest 26.15 above lsd, Aug. 19, 1951. Records available: 1936-46, 1949-51. Aug. 19, +26.15; Dec. 7, +26.35.

68. Kings Bay Club. At Kings Bay. Lat. 30°47'53", long. 81°31'03". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 525 feet, cased to 320 feet. Land-surface datum is 11 feet above msl. Highest water level 49.27 above lsd, June 23, 1939; lowest 36.5 above lsd, Aug. 19, 1951. Records available: 1939-47, 1949-51. Aug. 19, +36.5; Dec. 8, -47.94.

92a. Camden Race Track. Lat. 30°47'26", long. 81°39'29". Drilled unused artesian well in Ocala limestone, diameter 2 inches, depth 500 feet, cased to 200 feet. Land-surface datum is 26 feet above msl. Highest water level 34.95 above lsd, Sept. 19, 1939; lowest 28.85 above lsd, Aug. 19, 1951. Records available: 1939-51. Aug. 19, +28.85; Dec. 8, +29.46.

118. Oscar Silcox. Lat. 30°47'46", long. 81°49'19". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet. Land-surface datum is 20 feet above msl. Highest water level 40.87 above lsd, Dec. 7, 1947; lowest 34.92 above lsd, Aug. 19, 1951. Records available: 1939, 1941-51. Aug. 19, +34.92; Dec. 8, +35.88.

144. G. F. Rawl. At Woodbine. Lat. 30°57'26", long. 81°43'19". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 410 feet, cased to about 300 feet. Land-surface datum is 12 feet above msl. Highest water level 40.1 above lsd, Dec. 8, 1939; lowest 32.17 above lsd, Aug. 28, 1947. Records available: 1939-43, 1945-51. Aug. 19, +32.23; Dec. 7, +32.8.

Charlton County

7. State of Georgia. Lat. 30°48'51", long. 82°00'51". Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 inches, depth 554 feet, cased to 517 feet. Land-surface datum is 74.95 feet above msl. Highest water level 12.04 below lsd, Mar. 12, 1942; lowest 18.83 below lsd, Aug. 19, 1951. Records available: 1941-43, 1945-51. Aug. 19, 18.83; Dec. 8, 17.6.

Chatham County

30. Dixie Asphalt Corp. Lat. 32°06'53", long. 81°07'58". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 608 feet, cased to 500. Land-surface datum is 11.53 feet above msl. Highest water level 24.81 below lsd, Oct. 11, 1939; lowest 66.95 below lsd, Aug. 15, 1951. Records available: 1938-51. Aug. 15, 66.95; Dec. 4, 62.5, pump off 50 minutes before.

43. Southern Cotton Oil Co. Lat. 32°05'32", long. 81°06'42". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 1000 feet, cased to 255 feet. Land-surface datum is 8.84 feet above msl. Highest water level 56.92 below lsd, Nov. 30, 1940; lowest 95.95 below lsd, Aug. 15, 1951. Records available: 1940-51. Aug. 15, 95.95, well pumping & well 86 pumping; Dec. 4, 88.96, well pumping & well 86 pumping.

46. Union Bag & Paper Corp. Lat. 32°06'12", long. 81°07'20". Drilled industrial artesian well in Ocala limestone, diameter 20 inches, depth 1010 feet, cased to 220 feet. Land-surface datum is 10 feet above msl. Highest water level 28.98 below lsd, Jan. 20, 1939; lowest 174.60 below lsd, Mar. 25, 1948. Records available: 1939-41, 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	123.6	Mar. 29	158.6	Aug. 2	134.6	Oct. 18	139.6
18	125.6	Apr. 5	162.6	9	134.6	25	139.6
25	127.6	19	144.6	16	134.6	Nov. 1	139.6
Feb. 1	130.6	May 3	139.6	23	139.6	8	139.6
8	125.6	10	139.6	30	139.6	21	139.6
15	130.6	17	139.6	Sept. 13	139.6	29	139.6
22	130.6	24	139.6	20	139.6	Dec. 6	139.6
Mar. 1	130.6	31	148.6	27	139.6	12	139.6
8	127.6	July 19	127.6	Oct. 4	139.6	20	144.6
15	162.6	26	127.6	11	144.6	27	139.6
22	158.6						

63. Colonial Ice Co. McGuire and Indian Sts., Savannah. Lat. 32°05'07", long. 81°05'49". Drilled unused artesian well in Ocala limestone, diameter 12 inches, depth 525 feet, cased to 120 feet. Land-surface datum is 20.07 feet above msl. Highest water level 46.52 below lsd, Oct. 18, 1939; lowest 78.54 below lsd, Aug. 16, 1951. Records available: 1939-51. Aug. 16, 78.54; Dec. 4, 70.71.

76. Pierpont Manufacturing Co. Lat. 32°05'50", long. 81°07'00". Drilled industrial artesian well in Ocala limestone, diameter 3 inches, depth 378 feet, cased to about 150 feet. Land-surface datum is 13.1 feet above msl. Highest water level 53.26 below lsd, May 8, 1939; lowest 91.12 below lsd, Aug. 15, 1951. Records available: 1939-51. Aug. 15, 91.12; Dec. 4, 85.31.

81. Gordon Saussy. Lat. $32^{\circ}08'24''$, long. $81^{\circ}08'42''$. Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 522, cased to 60 feet. Land-surface datum is 15.1 feet above msl. Highest water level 36.12 below lsd, Mar. 15, 1942; lowest 57.75 below lsd, Aug. 31, 1950. Records available: 1940-51. Aug. 15, 49.02; Dec. 4, 46.86.

84. Standard Oil Co. Lat. $32^{\circ}04'37''$, long. $81^{\circ}02'31''$. Drilled industrial artesian well in Ocala limestone, diameter 10 inches, depth 652 feet, cased to 230 feet. Land-surface datum is 6.1 feet above msl. Highest water level 20.75 below lsd, Jan. 4, 1941; lowest 34.59 below lsd, Aug. 16, 1951. Records available: 1940-51. Aug. 16, 34.59; Dec. 5, 30.01.

86. Southern Cotton Oil Co. In Savannah. Lat. $32^{\circ}05'32''$, long. $81^{\circ}06'42''$. Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 665 feet cased to 240 feet. Land-surface datum is 9.2 feet above msl. Highest water level 57.25 below lsd, Nov. 30, 1940; lowest 100.92 below lsd, Aug. 15, 1951. Records available: 1940-47, 1949-51. Aug. 15, 100.92, well pumping, well 43 pumping; Dec. 4, 94.16, well pumping, well 43 pumping.

100. Producers Cooperative Association. In Savannah. Lat. $32^{\circ}04'22''$, long. $81^{\circ}04'20''$. Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 310 feet. Land-surface datum is 7 feet above msl. Highest water level 32.36 below lsd, Dec. 5, 1951; lowest 44.92 below lsd, Aug. 24, 1945. Records available: 1943-51. Aug. 16, 39.04; Dec. 5, 32.36.

109. State Highway Department. Lat. $32^{\circ}09'40''$, long. $81^{\circ}09'24''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 258 feet. Land-surface datum is 7.86 feet above msl. Highest water level 3.43 below lsd, Jan. 21, 1939; lowest 22.81 below lsd, Aug. 15, 1951. Records available: 1938-51. Aug. 15, 22.81; Dec. 4, 20.30.

112. Philip Wise. At Bloomingdale. Lat. $32^{\circ}07'40''$, long. $81^{\circ}17'48''$. Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 360 feet. Land-surface datum is 24.66 feet above msl. Highest water level 5.63 above lsd, Mar. 3, 1939; lowest 4.93 below lsd, Aug. 15, 1951. Records available: 1938-41, 1945-51. Aug. 15, 4.93; Dec. 4, 4.91.

121. Robert Schneider. Lat. $32^{\circ}01'12''$, long. $80^{\circ}51'23''$. Drilled domestic artesian well in Hawthorn formation, diameter 2 inches, depth 174 feet, cased to about 85 feet. Land-surface datum is 5.8 feet above msl. Highest water level 1.37 below lsd, Sept. 23, 1939; lowest 8.05 below lsd, Aug. 16, 1951. Records available: 1939-51. Aug. 16, 8.05; Dec. 5, 6.87.

123. Henry Walthour Estate. On Wilmington Island. Lat. $32^{\circ}00'34''$, long. $80^{\circ}51'11''$. Drilled unused artesian well in Ocala limestone, diameter 3 inches, depth 235 feet, cased to 100 feet. Land-surface datum is 5.2 feet above msl. Highest water level 4.06 below lsd, Oct. 12, 1939; lowest 12.62 below lsd, Aug. 3, 1948. Records available: 1938-51. Aug. 16, 12.13; Dec. 5, 10.84.

131. C. E. Oliver. Lat. $32^{\circ}11'19''$, long. $81^{\circ}11'33''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 300 feet, cased to 40 feet. Land-surface datum is 14.3 feet above msl. Highest water level 1.28 below lsd, Oct. 26, 1939; lowest 13.6 below lsd, Aug. 31, 1950. Records available: 1938-51. Aug. 15, 12.75; Dec. 4, 12.81.

134. J. C. Sheffield. Lat. $31^{\circ}59'27''$, long. $81^{\circ}06'25''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 300 feet. Land-surface datum is 20.37 feet above msl. Highest water level 20.39 below lsd, Nov. 25, 1938; lowest 33.60 below lsd, Aug. 10, 1949. Records available: 1938, 1942-51. Aug. 17, 33.1, Dec. 5, 30.74.

174. Mrs. Eda W. Sapp. Lat. $32^{\circ}05'06''$, long. $81^{\circ}21'34''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 340 feet, cased to 102 feet. Land-surface datum is 23.9 feet above msl. Highest water level 6.3 above lsd, Dec. 1, 1938; lowest 4.8 above lsd, Aug. 15, 1951. Records available: 1938, 1940-51. Aug. 15, +4.8, Dec. 4, +5.3.

194. Mrs. W. W. Keller, Sr. At Drakie Bluff. Lat. $32^{\circ}10'34''$, long. $81^{\circ}07'20''$. Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 350 feet, cased to 60 feet. Land-surface datum is 16.06 feet above msl. Highest water level 9.91 below lsd, Oct. 18, 1939; lowest 25.0 below lsd, Aug. 15, 1951. Records available: 1938-51. Aug. 15, 25.0; Dec. 4, 23.65.

213. J. L. Budreau. Burroughs Road and U. S. Highway 17. Lat. $31^{\circ}59'38''$, long. $81^{\circ}15'14''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 420 feet, cased to 120 feet. Land-surface datum is 15.6 feet above msl. Highest water level 2.46 above lsd, Nov. 27, 1940; lowest 2.56 below lsd, Aug. 17, 1951. Records available: 1939-51. Aug. 17, 2.56; Dec. 5, 2.23.

266. J. H. Chisholm. Lat. $32^{\circ}13'42''$, long. $81^{\circ}10'24''$. Drilled domestic artesian well in Ocala limestone, diameter 3 to 2 inches, depth about 300 feet. Land-surface datum is 13.8 feet above msl. Highest water level 0.80 above lsd, May 4, 1939; lowest 8.79 below lsd, Aug. 15, 1951. Records available: 1939-51. Aug. 15, 8.79; Dec. 4, 8.59.

269. W. J. Pierpont Estate. Isle of Hope. Lat. $31^{\circ}58'48''$, long. $81^{\circ}02'02''$. Drilled domestic artesian well in Ocala limestone, diameter 8 inches, depth 521 feet, cased to 160 feet. Land-surface datum is 10.8 feet above msl. Highest water level 8.15 below lsd, May 8, 1939; lowest 18.96 below lsd, July 12, 1950. Records available: 1939-51. Aug. 17, 18.13; Dec. 12, 17.18. Water level affected by tide. Elevation of tide in Skidaway River, in feet below measuring point, Aug. 17, 9.05; Dec. 5, 12.01.

273. C. A. Gross. Lat. $32^{\circ}00'25''$, long. $81^{\circ}02'35''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 360 feet, cased to about 100 feet. Land-surface datum is 8.9 feet above msl. Highest water level 13.30 below lsd, May 26, 1939; lowest 27.17 below lsd, July 12, 1950. Records available: 1939-51. Aug. 17, 24.22; Dec. 5, 22.3.

279. J. B. Pound Hotel Corp. General Oglethorpe Hotel on Wilmington Island. Lat. $32^{\circ}00'15''$, long. $80^{\circ}58'14''$. Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 480 feet, cased to 160 feet. Land-surface datum is 11.1 feet above msl. Highest water level 15.89 below lsd, Jan. 18, 1941; lowest 26.38 below lsd, July 11, 1950. Records available: 1939-51. Aug. 16, 24.68; Dec. 5, 19.56.

314. J. M. Breckenridge. Lat. $32^{\circ}00'12''$, long. $81^{\circ}06'41''$. Drilled unused artesian well in Ocala limestone, diameter 10 inches, depth 601 feet, cased to 255 feet. Land-surface datum is 21.5 feet above msl. Highest water level 23.0 below lsd, Jan. 29, 1940; lowest 36.78 below lsd, July 12, 1950. Records available: 1940-51. Aug. 17, 35.5; Dec. 5, 33.04.

321. R. C. Hinley. Lat. $31^{\circ}57'55''$, long. $81^{\circ}06'52''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 365 feet, cased to 60 feet. Land-surface datum is 16.2 feet above msl. Highest water level 8.47 below lsd, Mar. 7, 1941; lowest 15.51 below lsd, July 12, 1950. Records available: 1940-51. Aug. 17, 14.62; Dec. 5, 13.87.

328. U. S. Dept of the Army. At Fort Screven on Tybee Island. Lat. $32^{\circ}01'25''$, long. $80^{\circ}50'33''$. Drilled unused artesian well in Hawthorn formation, diameter 3 inches, depth 139 feet. Land-surface datum is 9.86 feet above msl. Highest water level 6.30 below lsd, Dec. 13, 1940; lowest 11.84 below lsd, Aug. 3, 1948. Records available: 1940-51. Aug. 16, 11.61; Dec. 5, 10.8.

330. State Highway Department. Lat. $32^{\circ}01'18''$, long. $81^{\circ}12'17''$. Drilled unused artesian well in Ocala limestone, diameter 3 to 2 inches, depth 540 feet, cased to 400 feet. Land-surface datum is 9.52 feet above msl. Highest water level 1.81 below lsd, Aug. 11, 1941; lowest 4.68 below lsd, Aug. 17, 1951. Records available: 1941-47, 1949-51. Aug. 17, 4.68; Dec. 5, 4.03.

343. U. S. Department of Agriculture. At Barbour Lathrop Plant Introduction Station. Lat. $31^{\circ}59'35''$, long. $81^{\circ}15'44''$. Drilled observation water-table well in sediments of Pleistocene-Recent age, diameter 6 inches, depth 15 feet, cased to 15 feet with tile. Land-surface datum is 18.67 feet above msl. Highest water level 0.07 below lsd, Dec. 21, 1947; lowest 10.72 below lsd, Dec. 25, 1942. Records available: 1942-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.59	5.22	5.64	3.91	4.92	8.46	9.74	8.08	....	5.11	4.70	4.77
2	4.57	5.24	5.67	3.92	5.01	8.50	9.77	8.00	....	5.15	4.67	4.82
3	4.56	5.24	5.69	3.98	5.07	8.57	9.77	....	7.38	5.08	3.61	4.90
4	4.59	5.24	5.74	4.06	5.15	8.67	9.43	....	7.18	5.10	3.56	4.90
5	4.61	5.30	5.79	4.13	5.23	8.73	9.23	....	6.34	5.16	3.62	4.93
6	4.62	5.32	....	4.20	5.33	8.79	9.19	5.51	4.60	5.21	3.66	4.93
7	4.63	5.25	5.85	4.24	5.41	8.87	9.18	5.43	3.92	5.30	3.62	4.91
8	4.72	5.19	5.88	4.27	5.52	8.93	9.18	5.44	3.90	5.42	3.67	4.89
9	4.81	5.10	5.95	4.33	5.58	8.97	9.22	5.57	3.99	5.46	3.75	4.91
10	4.84	5.08	5.99	4.44	5.65	9.01	9.26	5.71	4.10	5.48	3.81	4.94
11	4.85	5.07	5.99	4.50	5.73	9.11	9.33	5.81	4.24	5.53	3.89	....
12	4.82	5.08	....	4.57	5.82	9.21	9.42	5.94	4.37	5.58	3.97	....
13	4.88	5.13	5.90	4.63	5.93	9.23	9.50	6.10	4.49	5.64	4.10	....
14	4.88	5.16	5.84	4.71	6.04	9.24	9.58	6.20	4.62	5.67	4.17	....
15	4.98	5.22	5.77	4.77	6.09	9.29	9.67	6.32	4.54	5.76	4.18	....
16	5.00	5.27	5.75	4.85	6.13	9.36	9.68	6.41	4.52	5.82	4.18	....
17	5.00	5.29	5.74	4.91	6.24	9.38	9.36	6.55	4.55	5.87	4.19	....
18	5.01	5.32	5.76	4.96	6.32	9.43	9.27	6.68	4.39	5.91	....	4.89
19	5.07	5.33	5.77	5.00	6.40	9.43	9.20	6.79	4.30	5.99	....	4.68
20	5.08	5.35	5.74	4.99	6.45	9.45	9.17	6.89	4.33	6.07	4.34	4.45

343--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.11	5.36	5.64	4.99	7.58	9.47	9.15	6.99	4.40	6.12	4.39	4.36
22	5.13	5.42	5.49	4.99	7.65	9.50	9.15	7.07	4.48	....	4.43	4.12
23	5.12	5.45	5.38	4.80	7.72	9.54	9.12	7.19	4.58	....	4.48	3.97
24	5.08	5.47	5.27	4.64	7.81	9.59	9.13	7.17	4.67	....	4.51	3.96
25	5.07	5.49	5.28	4.54	7.93	9.66	9.19	....	4.70	....	4.56	3.99
26	5.10	5.54	5.30	4.54	7.96	9.68	9.24	....	4.80	....	4.58	4.02
27	5.12	5.56	5.33	4.59	8.02	9.71	9.26	7.30	4.90	....	4.62	4.03
28	5.14	5.61	5.35	4.67	8.09	9.77	....	7.34	4.98	....	4.65	4.01
29	5.19		5.38	4.73	8.19	9.66	....	7.40	5.02	4.52	4.70	4.03
30	5.20		4.60	4.81	8.29	9.69	8.20	7.50	5.05	4.58	4.75	4.08
31	5.23		3.92		8.38		8.23	7.55		4.64		....

Chattahoochee County

9. U. S. Dept. of the Army. Fort Benning. Lat. 32°20'36", long. 84°59'03". Drilled unused artesian well in Blufftown, Eutaw, and Tuscaloosa formations, diameter 12 inches, depth 568 feet, screens set at 215-220 feet, 280-290 feet, and 540-550 feet. Land-surface datum is 255 feet above msl. Highest water level 1.76 below lsd, May 4, 1951; lowest 11.37 below lsd, Aug. 30, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	3.78	Mar. 30	1.96	July 5	6.49	Oct. 3	9.44
31	3.09	May 4	1.76	Aug. 2	9.54	Nov. 15	6.62
Mar. 6	2.50	June 6	5.26	30	10.80	Dec. 4	5.09

Clayton County

7. H. P. Lieuppo. At Forest Park. Lat. 33°37'05", long. 84°23'12". Drilled domestic water-table well in granite, diameter 8 inches, depth 188 feet. Land-surface datum is 965 feet above msl. Highest water level 21.9 below lsd, Apr. 22, 1943; lowest 38.51 below lsd, Dec. 7, 1951. Records available: 1943-51. Aug. 20, 36.30; Dec. 7, 38.51.

26. A. C. Crane. At Forest Park. Lat. 33°36'14", long. 84°22'48". Drilled unused water-table well in granite, diameter 6 inches, depth 165 feet. Land-surface datum is 958 feet above msl. Highest water level 16.0 below lsd, Apr. 28, 1943; lowest 32.18 below lsd, July 6, 1950. Records available: 1943-51. Aug. 15, 30.37; Dec. 7, 30.67.

27. Humphrey. Lat. 33°35'58", long. 84°22'38". Drilled domestic water-table well in granite, diameter 6 inches, depth 200 feet. Land-surface datum is 932 feet above msl. Highest water level 30.3 below lsd, Apr. 28, 1943; lowest 55.17 below lsd, Dec. 23, 1948. Records available: 1943-51. Aug. 20, 42.52; Dec. 7, 40.40.

Cobb County

11. Mrs. J. H. Carmichael. At Oakdale. Lat. 33°50'27", long. 84°28'47". Drilled unused water-table well in schist, diameter 6 inches, depth 112 feet. Land-surface datum is 900 feet above msl. Highest water level 22.6 below lsd, Apr. 16, 1947; lowest 33.47 below lsd, Dec. 22, 1947. Records available: 1943-51. Aug. 15, 25.30; Dec. 8, 27.27.

14. J. A. Rust. At Smyrna. Lat. 33°52'21", long. 84°29'59". Drilled industrial water-table well in injection complex, diameter 6 inches, depth 117 feet. Land-surface datum is 1,020 feet above msl. Highest water level 37.27 below lsd, Aug. 4, 1949; lowest 47.95 below lsd, Apr. 10, 1947. Records available: 1943-51. Aug. 15, 41.56; Dec. 8, 43.28.

21. Lewis Ray. At Oakdale. Lat. 33°50'07", long. 84°28'10". Drilled domestic water-table well in injection complex, diameter 6 inches, depth 85 feet. Land-surface datum is 858 feet above msl. Highest water level 29.70 below lsd, Aug. 4, 1949; lowest 34.94 below lsd, Dec. 8, 1951. Records available: 1943-51. Aug. 15, 31.41; Dec. 8, 34.94.

25. J. T. Cox. At Oakdale. Lat. 33°50'09", long. 84°28'22". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 70 feet. Land-surface datum is 875 feet above msl. Highest water level 12.81 below lsd, Apr. 16, 1947; lowest 19.7 below lsd, Dec. 19, 1946. Records available: 1943-51. Aug. 15, 17.31; Dec. 8, 15.95.

27. R. D. Webb. At Oakdale. Lat. 33°50'21", long. 84°28'24". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 54 feet. Land-surface datum is 880 feet above msl. Highest water level 18.25 below lsd, Aug. 4, 1949; lowest 25.76 below lsd, Dec. 22, 1947. Records available: 1943-51. Aug. 15, 21.05; Dec. 8, 25.04.

71. D. W. Cook. At Oakdale. Lat. 33°50'38", long. 84°29'51". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 109 feet. Land-surface datum is 975 feet above msl. Highest water level 52.13 below lsd, Aug. 4, 1949; lowest 58.42 below lsd, Dec. 23, 1943. Records available: 1943-51. Aug. 15, 53.67; Dec. 8, 54.22.

74. A. P. Hogan. At Marietta. Lat. 33°56'36", long. 84°31'05". Drilled domestic water-table well in schist, diameter 7 inches, depth 96 feet. Land-surface datum is 1,150 feet above msl. Highest water level 42.30 below lsd, Feb. 28, 1946; lowest 49.4 below lsd, Jan. 7, 1944. Records available: 1943-51. Aug. 15, 46.12; Dec. 8, 48.69.

83. National Park Service. At Kennesaw Mountain National Park. Lat. 33°59'00", long. 84°35'21". Drilled unused water-table well in diorite, diameter 6 inches, depth 51 feet. Land-surface datum is 1,150 feet above msl. Highest water level 3.14 below lsd, Feb. 28, 1946; lowest 5.63 below lsd, Sept. 13, 1946. Records available: 1943-51. Aug. 15, 5.56; Dec. 8, 4.53.

85. D. C. Hames. Lat. 33°58'53", long. 84°33'57". Drilled unused water-table well in injection complex, diameter 6 inches, depth 51 feet. Land-surface datum is 1,100 feet above msl. Highest water level 11.38 below lsd, Feb. 28, 1946; lowest 47.42 below lsd, Aug. 25, 1948. Records available: 1943-51. Aug. 15, 24.07; Dec. 8, 23.89.

DeKalb County

17. Mrs. J. H. Anderson. Lat. 33°41'03", long. 84°20'50". Drilled unused water-table well in gneiss, diameter 6 inches, depth 250 feet. Land-surface datum is 862 feet above msl. Highest water level 25.88 below lsd, June 28, 1943; lowest 38.18 below lsd, Dec. 7, 1951. Records available: 1943-51. Aug. 14, 34.99; Dec. 7, 38.18.

29. Mrs. A. H. Daniel. Lat. 33°44'44", long. 84°15'41". Drilled unused water-table well in gneiss, diameter 6 inches, depth 111 feet. Land-surface datum is 1,002 feet above msl. Highest water level 36.73 below lsd, June 1, 1944, Feb. 26, 1946; lowest 40.69 below lsd, Dec. 7, 1951. Records available: 1944-51. Aug. 14, 37.89; Dec. 7, 40.69.

34. I. W. Williams. Lat. 33°42'15", long. 84°16'24". Drilled unused water-table well in gneiss, diameter 5 inches, depth 72 feet. Land-surface datum is 877 feet above msl. Highest water level 43.04 below lsd, Aug. 4, 1949; lowest 51.30 below lsd, Dec. 7, 1951. Records available: 1944-51. Aug. 14, 48.62; Dec. 7, 50.30.

39. L. N. Fassett. Lat. 33°44'35", long. 84°15'20". Drilled unused water-table well in gneiss, diameter 6 inches, depth 82 feet. Land-surface datum is 986 feet above msl. Highest water level 34.39 below lsd, Feb. 26, 1946; lowest 40.73 below lsd, Dec. 7, 1951. Records available: 1944-51. Aug. 14, 39.41; Dec. 7, 40.73.

40. Allen McCain. Lat. 33°44'12", long. 84°16'32". Drilled domestic water-table well in granite, diameter 8 inches, depth 281 feet. Land-surface datum is 923 feet above msl. Highest water level 1.9 below lsd, Dec. 22, 1948; lowest 15.15 below lsd, Aug. 4, 1949. Records available: 1944-51. Aug. 14, 3.45; Dec. 7, 3.16.

50. Miss A. M. Lyle. Lat. 33°42'35", long. 84°20'50". Drilled unused water-table well in granite, diameter 6 inches, depth 187 feet. Land-surface datum is 962 feet above msl. Highest water level 33.12 below lsd, Feb. 26, 1946; lowest 34.40 below lsd, Aug. 24, 1948. Records available: 1944-51. Dec. 7, 33.89; Aug. 14, 33.78.

Effingham County

6. W. B. Butler. At Eden. Lat. 32°10'41", long. 81°02'21". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 360 feet, cased to 80 feet. Land-surface datum is 38 feet above msl. Highest water level 1.63 above lsd, Apr. 5, 1939; lowest 3.54 below lsd, Sept. 18, 1944. Records available: 1939-51. Aug. 5, 3.37; Dec. 4, 3.5.

7. Central of Georgia Railway. At Meldrim. Lat. 32°08'17", long. 81°22'54". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 431 feet, cased to 273 feet. Land-surface datum is 33.86 feet above msl. Measurement resumed. Highest water level 5.21 above lsd, Apr. 5, 1939; lowest 0.63 below lsd, Dec. 4, 1951. Records available: 1939-44, 1951. Aug. 15, 0.45; Dec. 4, 0.63.

20. J. D. Hagin. At Pineora. Lat. 32°17'11", long. 81°23'42". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 397 feet. Land-surface datum is 78 feet above msl. Highest water level 35.35 below lsd, Apr. 4, 1939; lowest 40.28 below lsd, Dec. 4, 1951. Records available: 1939-51. Aug. 5, 40.0; Dec. 4, 40.28.

Evans County

3. City of Claxton. Lat. 32°09'36", long. 81°54'34". Drilled municipal artesian well in Ocala limestone, diameter 6 inches, depth 320 feet. Land-surface datum is 182 feet above msl. Highest water level 110.26 below lsd, Aug. 4, 1948; lowest 114.45 below lsd, Dec. 3, 1951. Records available: 1939-51. Aug. 14, 113.77; Dec. 3, 114.45.

Fulton County

7. City of College Park. Lat. 33°35'12", long. 84°27'04". Drilled municipal water-table well in injection complex, diameter 10 inches. Land-surface datum is 1,051 feet above msl. Highest water level 27.86 below lsd, Feb. 22, 1947; lowest 41.76 below lsd, Dec. 20, 1945. Records available: 1943-51. Aug. 15, 39.27; Dec. 7, 40.47.

26. O'Neill Bros. At East Point. Lat. 33°40'41", long. 84°26'23". Drilled industrial water-table well in injection complex, diameter 10 inches, depth 350 feet. Land-surface datum 1,038 feet above msl. Highest water level 12.85 below lsd, Apr. 11, 1948; lowest 25.06 below lsd, Feb. 10, 1944. Records available: 1943-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.20	18.72	18.26	17.34	16.81	17.63	17.42	17.43	18.45	18.74	19.38	.....
2	18.60	18.76	18.26	17.25	16.78	17.62	17.32	17.45	18.51	18.73	19.30	.....
3	18.57	18.64	18.25	17.34	16.72	17.61	17.27	17.47	18.56	18.79	19.34	19.63
4	18.69	18.48	18.29	17.32	16.68	17.64	17.12	17.55	18.61	18.88	19.37	19.53
5	18.73	18.47	18.29	17.34	.....	17.66	17.10	17.64	18.66	18.96	19.44	19.40
6	18.71	18.43	18.23	17.30	.....	17.65	17.14	17.65	18.67	18.98	19.38	19.43
7	18.66	18.44	18.08	17.19	.....	17.65	17.15	17.62	18.71	19.01	19.39	19.43
8	18.68	18.52	18.02	17.21	.....	17.70	17.16	17.68	18.75	19.08	19.44	19.42
9	18.59	18.46	18.05	17.18	.....	17.56	17.18	17.71	18.78	19.09	19.47	19.40
10	18.50	18.50	18.04	17.20	.....	17.53	17.21	17.76	18.82	19.13	19.47	19.40
11	18.49	18.48	17.97	17.16	.....	17.52	17.24	17.79	18.89	19.18	19.46	19.31
12	18.55	18.46	17.90	17.12	.....	17.55	17.27	17.83	18.90	19.23	19.48	19.29
13	18.58	18.56	17.84	17.09	.....	17.59	17.29	17.87	18.92	19.27	19.46	19.42
14	18.45	18.61	17.86	17.14	17.16	17.59	17.30	17.90	18.95	19.29	19.47	19.36
15	18.50	18.65	17.88	17.14	17.16	17.58	17.32	17.93	18.95	19.28	19.44	19.42
16	18.62	18.65	17.89	17.17	17.06	17.58	17.35	17.93	18.93	19.31	19.38	19.41
17	18.54	18.65	17.90	17.21	17.08	17.61	17.37	17.98	18.91	19.35	19.45	19.31
18	18.51	18.63	17.91	17.20	17.13	17.59	17.40	18.01	18.94	19.37	19.46	19.09
19	18.54	18.65	17.82	17.15	17.15	17.54	17.39	18.05	18.99	19.38	19.48	19.07
20	18.56	18.62	17.85	17.17	17.16	17.48	17.40	18.08	19.04	19.41	19.52	18.80
21	18.62	18.47	17.76	17.13	17.20	17.50	17.46	18.10	19.06	19.45	19.56	18.38
22	18.70	18.43	17.77	16.92	17.21	17.52	17.50	18.14	19.02	19.47	19.55	18.36
23	18.64	18.37	17.71	16.90	17.17	.....	17.52	18.18	18.81	.....	19.51	18.29
24	18.60	18.30	17.72	16.85	17.27	.....	17.53	18.22	18.74	.....	19.49	18.25
25	18.64	18.25	17.74	16.81	17.35	17.63	17.57	18.26	18.66	.....	19.53	18.15
26	18.71	18.24	17.76	16.79	17.34	17.63	17.61	18.27	18.64	.....	19.50	18.15
27	18.73	18.24	17.73	16.81	17.39	17.58	17.54	18.30	18.67	.....	19.53	18.12
28	18.75	18.25	17.67	16.79	17.40	17.55	17.49	18.34	18.67	.....	19.56	18.02
29	18.76		17.53	16.73	17.48	17.47	17.47	18.37	18.72	.....	19.60	17.92
30	18.75		17.46	16.76	17.55	17.42	17.46	18.40	18.74	.....	19.62	17.91
31	18.71		17.42		17.61		17.42	18.43		19.46		17.95

32. International Minerals & Chemical Corp. At East Point. Lat. 33°40'10", long. 84°26'14". Drilled industrial water-table well in injection complex, depth 505 feet. Land-surface datum is about 1,039 feet above msl. Highest water level 18.57 below lsd, Aug. 5, 1949; lowest 56.29 below lsd, Dec. 21, 1943. Records available: 1943-51. Aug. 15, 32.34; Dec. 7, 31.97.

77. Mrs. Cory C. Helms. At Bolton. Lat. 33°47'36", long. 84°29'34". Drilled domestic water-table well in gneiss, diameter 8 inches, depth 84 feet. Land-surface datum is 844 feet above msl. Highest water level 20.30 below lsd, Aug. 4, 1949; lowest 25.09 below lsd, Dec. 21, 1945. Records available: 1943-51. Aug. 15, 22.49; Dec. 7, 24.70.

Glynn County

3. Atlantic Refining Co. At Arco. Lat. 31°11'01", long. 81°30'34". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 983 feet, cased to 501 feet. Land-surface datum is 14.0 feet above msl. Highest water level 36.50 above lsd, Dec. 25, 1944; lowest 18.6 above lsd, Sept. 18, 1950. Records available: 1938-51.

Daily highest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.89	20.39	22.49	21.89	20.19	19.19	18.99	19.09	18.69	19.29	19.49	19.79
2	21.29	19.69	22.59	21.29	20.09	19.19	18.89	18.99	18.59	.....	19.29	20.29
3	21.59	20.19	21.79	20.79	20.19	19.19	18.49	19.29	18.79	20.09	19.29	20.29
4	21.99	20.29	21.89	21.19	20.19	18.89	18.69	18.39	18.89	19.99	18.79	21.09
5	21.49	20.29	21.69	21.39	20.89	18.39	19.19	18.29	18.89	19.59	19.29	20.69
6	21.79	21.29	21.59	20.29	20.99	19.09	18.99	18.19	18.69	20.09	18.89	21.99
7	22.19	22.09	21.69	.....	20.69	18.99	19.19	18.29	18.89	21.19	19.19	20.99
8	21.49	21.59	21.69	.....	20.59	19.69	19.19	18.39	18.69	19.59	18.79	20.79
9	20.69	21.59	21.59	.....	25.59	19.19	18.69	17.79	18.89	19.29	18.69	20.49
10	20.79	21.39	21.49	20.19	25.19	19.19	19.09	.....	18.59	18.99	18.89	19.59
11	23.79	21.39	21.59	20.59	21.89	18.89	19.09	.....	18.49	19.39	19.09	19.29
12	20.19	21.39	21.59	19.99	19.49	18.99	18.99	.....	18.39	19.29	19.19	19.29
13	20.49	20.49	21.99	19.99	19.69	18.99	18.59	.....	18.59	19.49	19.59	19.59
14	20.69	20.39	21.59	19.99	20.49	18.69	19.09	.....	18.79	19.39	19.79	19.79
15	20.69	20.99	21.59	19.79	19.39	18.59	19.09	.....	19.19	19.09	19.39	19.49
16	20.09	20.89	21.69	19.19	20.19	18.79	18.49	.....	19.79	19.29	19.49	19.39
17	20.59	20.99	21.69	19.69	20.09	18.59	18.49	.....	19.25	19.49	19.49	19.49
18	20.59	20.99	21.79	20.49	20.19	18.39	18.49	.....	18.99	20.59	.....	19.49
19	20.39	20.79	21.69	20.49	20.09	19.39	18.49	.....	19.79	19.99	.....	19.79
20	21.29	20.99	22.29	20.49	20.19	19.29	.....	.....	19.79	19.49	18.59	20.39
21	21.49	21.19	21.19	20.39	20.29	21.39	.....	.....	19.79	19.49	19.49	20.09
22	21.39	20.89	20.89	20.69	19.79	19.49	.....	19.19	19.99	20.09	19.39	21.29
23	21.79	20.69	20.89	20.49	20.39	19.49	.....	19.09	20.19	20.19	19.69	19.99
24	22.19	20.69	20.89	19.19	20.99	19.39	18.99	18.89	15.79	20.19	19.89	26.59
25	23.06	21.99	20.79	19.99	20.99	19.19	19.19	19.49	20.09	25.99	19.69	28.59
26	21.99	22.29	20.79	20.19	20.99	18.99	18.59	19.79	19.59	26.15	19.59	29.49
27	20.69	22.29	20.79	20.29	21.19	19.39	18.69	19.39	19.69	20.39	19.79	17.79
28	20.59	22.39	21.19	20.19	24.29	20.79	18.69	18.99	19.39	19.49	19.79	18.09
29	20.39		21.49	20.49	19.59	19.59	18.89	18.89	18.89	19.69	20.29	18.79
30	20.19		21.69	20.19	19.69	19.19	18.79	18.79	19.19	19.49	20.19	19.69
31	19.99		21.39		19.39		18.99	18.79		19.49		19.99

Daily lowest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.29	19.29	21.79	20.99	18.59	18.79	18.59	18.49	17.79	18.49	18.69	18.19
2	19.29	18.59	21.29	20.09	18.49	18.69	18.39	18.19	17.69	.....	18.79	18.39
3	20.99	19.09	21.09	20.29	19.19	18.69	18.19	18.39	17.49	18.39	17.49	18.59
4	20.99	18.89	21.09	20.19	19.39	18.49	18.29	17.69	17.49	18.19	17.99	18.69
5	20.89	19.19	20.79	19.99	19.09	18.09	18.39	17.29	17.49	17.99	17.39	18.69
6	20.99	19.69	20.69	19.69	19.59	17.99	18.39	17.09	17.29	18.09	17.89	19.19
7	21.29	20.49	20.89	.....	19.79	18.49	18.59	18.19	17.19	18.19	17.49	19.69
8	20.39	19.69	21.19	.....	19.19	18.49	18.09	18.19	17.29	17.69	17.29	19.49
9	19.59	19.79	20.89	.....	19.39	18.59	17.99	18.19	17.29	17.89	17.29	19.59
10	19.79	20.39	20.69	19.39	21.49	18.29	18.19	.....	17.19	18.29	17.29	18.49
11	19.89	19.79	20.89	19.09	19.69	18.29	18.19	.....	18.19	18.09	17.69	17.49
12	19.69	20.09	20.89	19.09	18.99	18.19	17.99	.....	17.39	17.99	17.49	17.29
13	19.69	19.69	21.09	18.79	18.49	17.99	17.79	.....	17.29	18.09	18.79	17.29
14	19.89	19.89	21.19	18.69	18.19	17.89	17.89	.....	17.79	18.49	19.19	18.09
15	19.79	19.79	21.19	18.49	18.49	17.79	17.19	.....	17.99	18.49	18.99	18.29
16	19.59	20.39	21.29	18.49	19.29	17.79	17.99	.....	18.09	18.49	18.89	18.19
17	19.39	20.39	21.59	18.19	19.19	18.19	17.89	.....	18.19	18.69	18.09	18.99
18	19.69	20.49	21.69	18.29	19.29	18.09	17.89	.....	17.39	18.89	.....	18.69
19	19.49	20.39	21.69	19.29	19.19	18.99	18.09	.....	18.39	18.99	.....	17.29
20	19.49	20.39	20.79	19.19	19.39	18.49	.....	.....	18.19	18.99	16.29	18.49
21	20.99	20.49	20.49	19.19	19.39	18.59	.....	.....	18.19	19.19	17.09	18.99
22	20.99	20.29	20.29	19.19	19.49	18.79	.....	17.69	18.39	18.99	17.99	18.69
23	21.39	19.89	19.99	18.99	19.29	18.69	.....	17.69	18.59	18.89	17.69	18.99
24	21.49	19.89	20.19	18.49	19.09	18.59	18.39	17.79	18.29	19.59	18.29	20.09
25	20.89	19.99	20.19	18.99	19.39	18.19	18.09	17.79	18.29	18.39	18.39	26.69
26	19.79	21.59	19.89	18.79	20.09	18.19	18.09	18.09	18.29	19.79	18.19	19.19
27	19.29	21.59	19.89	18.69	19.99	18.29	18.29	18.09	18.29	17.39	18.29	15.69
28	19.39	21.79	20.39	19.19	19.59	19.19	18.19	17.89	18.29	19.19	17.89	16.29
29	19.59		20.69	19.09	19.09	18.29	18.39	17.89	18.19	18.79	17.69	17.59
30	19.29		20.79	19.19	18.99	18.29	18.19	17.69	18.39	19.09	17.69	18.69
31	19.39		20.99		18.89		18.39	17.69		18.79		19.19

13. U. S. Dept of Commerce. At lighthouse on St. Simon Island. Lat. 31°07'57", long, 81°23'41". Drilled domestic artesian well in Ocala limestone, diameter 4 to 3 to 2 inches, depth 627 feet, cased to 500 feet. Land-surface datum is 13.5 feet above msl. Highest water level 36.63 above lsd, Dec. 13, 1938; lowest 26.05 above lsd, Aug. 18, 1951. Records available: 1938, 1940-51. Aug. 18,+26.05; Dec. 7,+26.56.

37. F. G. Horne. Lat. 31°13'08", long. 81°23'31". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 640 feet, cased to about 500 feet. Land-surface datum is 13.88 feet above msl. Highest water level 36.0 above lsd, Jan. 11, 1939; lowest 24.74 above lsd, Aug. 18, 1951. Aug. 18,+24.74; Dec. 7,+25.53. Records available: 1941-51.

44. Sea Island Co. At Gun Club on St. Simon Island. Lat. 31°10'40", long. 81°21'29". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to about 500 feet. Land-surface datum is 7.3 feet above msl. Highest water level 40.96 above lsd, Jan. 11, 1939; lowest 31.54 above lsd, Aug. 18, 1951. Records available: 1939-51. Aug. 18,+31.54; Dec. 7, +32.15.

63. S. L. Lewis. Lat. 31°13'45", long. 81°31'43". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 700 feet. Land-surface datum is 26 feet above msl. Highest water level 22.47 above lsd, Feb. 2, 1939; lowest 12.18 above lsd, Dec. 7, 1951. Records available: 1939, 1942-51. Dec. 7,+12.18.

100. New England Tourist Camp. Lat. 31°15'10", long. 81°26'29". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet, cased to about 300 feet. Land-surface datum is 16.9 feet above msl. Highest water level 25.1 above lsd, June 20, 1939; lowest 17.0 above lsd, Aug. 18, 1951. Records available: 1939-51. Aug. 18,+17.0; Dec. 7,+17.48.

138. G. F. Cowman. Lat. 31°08'22", long. 81°34'30". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 665, cased to about 500 feet. Land-surface datum is 8 feet above msl. Highest water level 36.5 above lsd, Sept. 18, 1939; lowest 29.58 above lsd, Aug. 19, 1951. Records available: 1939-51. Aug. 19,+29.58; Dec. 7,+30.05.

192. Edgar Rittenhouse. In Brunswick. Lat. 31°10'44", long. 81°30'36". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to 520 feet. Land-surface datum is 13.0 feet above msl. Highest water level 30.58 above lsd, Dec. 27, 1940; lowest 12.8 above lsd, Aug. 19, 1951. Records available: 1939-51. Aug. 19,+12.8; Dec. 7,+14.28.

Henry County

11. D. J. Arnold. At Hampton. Lat. 33°22'53", long. 84°17'10". Drilled unused water-table well in gneiss, diameter 6 inches, depth 173 feet. Land-surface datum is 890 feet above msl. Highest water level 25.96 below lsd, Apr. 11, 1946; lowest 30.02 below lsd, Oct. 15, 1951. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	28.93	Aug. 14	29.39	Sept. 17	29.57	Dec. 3	29.49
July 9	28.74	20	29.35	Oct. 15	30.02	4	29.36
Aug. 6	29.26	Sept. 4	29.28				

Liberty County

53. F. F. Branan. Lat. 31°47'17", long. 81°26'10". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 408 feet, cased to 180 feet. Land-surface datum is about 13 feet above msl. Highest water level 29.3 above lsd, Feb. 1, 1939, Aug. 28, 1939; lowest 24.92 above lsd, Dec. 6, 1951. Records available: 1939-51. Dec. 6,+24.92.

75. Mrs. E. P. Way. Lat. 31°41'11", long. 81°24'27". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 187 feet. Land-surface datum is 26 feet above msl. Highest water level 25.48 above lsd, Feb. 9, 1939; lowest 20.5 above lsd, Aug. 18, 1951. Records available: 1939, 1941-51. Aug. 18,+20.5; Dec. 6,+24.55.

95. J. Blount. On Colomels Island. Lat. 31°43'53", long. 81°15'53". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet. Land-surface datum is 8 feet above msl. Highest water level 16.63 above lsd, Dec. 1, 1948; lowest 13.58 above lsd, Dec. 9, 1950. Records available: 1939, 1941-51. Aug. 18,+14.7; Dec. 6,+13.77.

137. H. A. Bacon. At Hinesville. Lat. 31°50'59", long. 81°35'25". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 527 feet, cased to 400 feet. Land-surface datum is 47 feet above msl. Highest water level 3.40 above lsd, Apr. 26, 1939; lowest 2.63 below lsd, Aug. 17, 1951. Records available: 1939-51. Aug. 17, 2.63; Dec. 6, 2.46.

170. J. H. Woodall. Lat. 31°50'52", long. 81°24'35". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 503 feet, cased to 463 feet. Land-surface datum is 10 feet above msl. Highest water level 14.97 above lsd, June 30, 1941; lowest 12.58 above lsd, Dec. 13, 1943. Records available: 1941-51. Aug. 17, +12.89; Dec. 5, +12.64.

177. P. E. Youmans. On Colonels Island. Lat. 31°43'56", long. 81°14'27". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 490 feet. Land-surface datum is 13 feet above msl. Highest water level 12.35 above lsd, Aug. 26, 1945; lowest 10.43 above lsd, Dec. 6, 1951. Records available: 1942-51. Aug. 18, +11.2; Dec. 6, +10.43.

Long County

8. Town of Ludowici. Lat. 31°42'41", long. 81°44'45". Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 579 feet. Land-surface datum is 66 feet above msl. Highest water level 9.29 below lsd, Mar. 18, 1940; lowest 14.46 below lsd, Dec. 6, 1951. Records available: 1940-47, 1949-51. Aug. 17, 14.45; Dec. 6, 14.46.

McIntosh County

22. D. E. McDonald. At Eulonia. Lat. 31°31'53", long. 81°25'53". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 540 feet, cased to 220 feet. Land-surface datum is 19 feet above msl. Highest water level 22.40 above lsd, Mar. 6, 1939; lowest 17.75 above lsd, Dec. 7, 1951. Records available: 1939, 1941-47, 1949-51. Dec. 7, +17.75.

27. C. B. Mallard. Lat. 31°30'07", long. 81°21'38". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 729 feet, cased to 120 feet. Land-surface datum is 30 feet above msl. Highest water level 8.55 above lsd, Mar. 10, 1939; lowest 3.65 above lsd, Aug. 18, 1951. Records available: 1939-51. Aug. 18, +3.65; Dec. 6, +3.95.

43. Shellman Bluff public well. Lat. 31°34'08", long. 81°19'27". Drilled municipal artesian well in Ocala limestone, diameter 3 inches, depth 650 feet. Land-surface datum is 15 feet above msl. Highest water level 34.75 above lsd, Mar. 12, 1939; lowest 16.92 above lsd, Dec. 6, 1951. Records available: 1939, 1941-43, 1945-47, 1949-51. Dec. 6, +16.92.

85. R. C. Collins. Lat. 31°30'19", long. 81°23'04". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 918 feet, cased to 600 feet. Land-surface datum is 28 feet above msl. Highest water level 0.95 below lsd, Mar. 30, 1939; lowest 6.58 below lsd, Dec. 6, 1951. Records available: 1939-51. Aug. 18, 6.51; Dec. 6, 6.58.

103. A. M. Durant. At Valona. Lat. 31°28'41", long. 81°20'33". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet, cased to about 200 feet. Land-surface datum is 10 feet above msl. Highest water level 29.05 above lsd, Apr. 11, 1939; lowest 21.83 above lsd, Aug. 18, 1951. Records available: 1939-41, 1943, 1945-51. Aug. 18, +21.83; Dec. 6, +23.72.

141. Sam Gardner. Lat. 31°27'19", long. 81°29'03". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 496 feet, cased to about 400 feet. Land-surface datum is 23 feet above msl. Highest water level 23.14, above lsd, Apr. 27, 1939; lowest 18.56 above lsd, Mar. 6, 1947. Records available: 1939-47, 1949-51. Dec. 6, +17.84.

144. Col. Talbot Smith. Lat. 31°23'25", long. 81°24'27". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 716 feet, cased to about 600 feet. Land-surface datum is 20 feet above msl. Highest water level 25.85 above lsd, Apr. 28, 1939; lowest 17.84 above lsd, Dec. 7, 1951. Records available: 1939-51. Aug. 18, +17.91; Dec. 7, +17.84.

180. D. C. Cowart. At Eulonia. Lat. 31°31'30", long. 81°25'59". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 500+ feet. Land-surface datum is 1.8 feet above msl. Highest water level 23.26 above lsd, Aug. 27, 1947; lowest 19.53 above lsd, Aug. 18, 1951. Records available: 1942-51. Aug. 18, +19.53; Dec. 6, +19.85.

Mitchell County

9. City of Camilla. Lat. 31°14'09", long. 84°12'19". Drilled municipal artesian well in Ocala limestone, diameter 12 inches, depth 300 feet. Land-surface datum is 181 feet above msl. Highest water level 43.30 below lsd, June 10, 1944; lowest 63.90 below lsd, Dec. 2, 1941. Records available: 1941-46, 1950-51. Feb. 15, 60.55.

Montgomery County

1. H. V. Thompson. At Ailey. Lat. 32°11'09", long. 82°34'24". Drilled industrial artesian well in Ocala limestone, diameter 6 to 4 inches, depth 403 feet. Land-surface datum is 255 feet above msl. Highest water level 104.60 below lsd, June 15, 1943; lowest 108.42 below lsd, Dec. 3, 1951. Records available: 1941-43, 1945-46, 1949-51. Aug. 14, 107.92; Dec. 3, 108.42.

Pierce County

2. City of Blackshear. Lat. 31°18'11", long. 82°14'09". Drilled unused artesian well in Ocala limestone, diameter 8 inches, depth 825 feet, cased to 450 feet. Land-surface datum is 130.6 feet above msl. Highest water level 57.08 below lsd, Dec. 8, 1947; lowest 62.96 below lsd, Aug. 19, 1951. Records available: 1939-43, 1945-51. Aug. 19, 62.96; Dec. 8, 62.49.

5. Town of Patterson. Lat. 31°23'11", long. 82°08'00". Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 635 feet, cased to 447 feet. Land-surface datum is 104 feet above msl. Highest water level 30.71 below lsd, Dec. 8, 1947; lowest 34.45 below lsd, July 17, 1943. Records available: 1941-43, 1945-51. Dec. 8, 35.92.

Screven County

3. City of Sylvania. Lat. 32°45'03", long. 81°36'40". Drilled municipal artesian well in Ocala limestone, diameter 10 to 8 inches, depth 490 feet. Land-surface datum is 218 feet above msl. Highest water level 103.0 below lsd, Aug. 8, 1949; lowest 110.73 below lsd, July 11, 1950. Records available: 1939, 1943, 1945-47, 1949-51. Aug. 15, 108.35; Dec. 3, 109.62.

8. W. W. Yant. At Dover. Lat. 32°34'38", long. 81°42'49". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 255 feet. Land-surface datum is 103 feet above msl. Highest water level 15.96 above lsd, Dec. 3, 1951; lowest 13.6 above lsd, Aug. 15, 1951. Records available: 1943, 1945-46, 1949-51. Aug. 15, +13.6; Dec. 3, +15.96.

Spalding County

12. State Experiment Station. At Experiment. Lat. 33°15'07", long. 84°17'18". Dug unused water-table in residuum, size 4 by 4 feet, depth 30 feet. Land-surface datum is 960 feet above msl. Highest water level 8.26 below lsd, Apr. 11, 1948, Mar. 19, 1948; lowest 21.08 below lsd, Dec. 8, 1943. Records available: 1943-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.64	17.94	17.71	17.08	15.97	16.66	18.09	19.00	19.91	20.60	20.87	20.26
2	18.58	.....	17.72	16.95	15.92	16.68	18.13	19.03	19.96	20.53	20.85	20.24
3	18.46	.....	17.69	17.0	15.81	16.69	18.14	19.05	20.01	20.54	.....	20.23
4	18.47	17.90	17.71	16.97	15.75	16.77	18.12	19.04	20.04	20.58	.....	20.12
5	18.48	17.87	17.75	16.93	15.75	16.83	18.12	19.13	20.08	20.61	.....	20.14
6	18.45	17.84	17.76	16.86	15.85	16.89	18.16	19.15	20.11	20.60	.....	20.15
7	18.32	17.77	17.66	16.71	15.85	16.94	18.16	19.15	20.15	20.59	.....	20.20
8	18.39	17.91	17.64	16.71	15.85	17.00	18.17	19.18	20.19	20.63	.....	20.18
9	18.49	17.87	17.73	16.69	15.83	17.50	18.18	19.24	20.22	20.62	.....	20.12
10	18.36	17.90	17.75	16.67	15.79	17.80	18.21	19.29	20.24	20.64	.....	20.12
11	18.29	17.86	17.71	16.61	15.74	17.13	18.23	19.33	20.29	20.67	.....	20.05
12	18.32	17.78	17.60	16.56	15.79	17.22	18.25	19.35	20.32	.....	.....	20.02
13	18.29	17.82	17.53	16.53	15.90	17.31	18.29	19.38	20.34	.....	20.61	20.06
14	18.21	17.83	17.59	16.54	15.97	17.35	18.32	19.41	20.37	20.76	20.50	20.01
15	18.15	17.82	17.62	16.52	15.97	17.37	18.33	19.44	20.52	20.73	20.50	20.07
16	18.26	17.80	.....	16.45	15.88	17.41	18.37	19.45	20.45	20.76	20.44	20.12
17	18.22	17.78	17.64	16.49	15.86	17.47	18.40	19.48	20.48	20.79	20.53	20.05
18	18.13	17.75	17.61	16.45	15.92	17.55	18.44	19.51	20.51	20.79	20.52	19.84
19	18.12	17.75	17.53	16.34	16.00	17.60	18.46	19.54	20.56	20.79	20.47	19.91
20	18.11	17.71	17.59	16.42	16.01	17.62	18.51	19.56	20.60	20.81	20.48	19.81
21	18.19	17.66	17.50	16.42	16.03	17.67	18.57	19.59	20.62	20.84	20.46	19.65
22	18.22	17.77	17.49	16.30	16.08	17.72	18.61	19.63	20.66	20.87	20.41	19.65
23	18.15	17.77	17.46	16.29	16.04	17.80	18.65	19.67	20.70	20.88	20.35	19.52
24	18.07	17.76	17.35	16.27	16.16	17.87	18.66	19.71	20.72	20.88	20.31	19.38
25	18.08	17.73	17.36	16.21	16.24	17.89	18.71	19.75	20.70	20.92	20.31	19.24
26	18.12	17.71	17.34	16.16	16.24	17.91	18.76	19.77	20.70	20.94	20.26	19.05
27	18.09	17.71	17.34	16.13	16.32	17.96	18.79	19.78	20.69	20.89	20.26	19.01
28	18.10	17.70	17.19	16.09	16.32	18.00	18.82	19.82	20.68	20.85	.....	.....
29	18.06	.....	17.12	15.99	16.4	18.30	18.86	19.85	20.69	20.94	20.29	.....
30	18.05	.....	17.13	15.96	16.52	18.05	18.93	19.89	20.67	20.94	20.29	.....
31	18.02	.....	17.15	.....	16.60	.....	18.96	19.91	.....	20.93	.....	.....

Ware County

6. State of Georgia. At Laura S. Walker State Park. Lat. $31^{\circ}08'50''$, long. $82^{\circ}13'02''$. Drilled domestic artesian well in Ocala limestone, diameter 6 inches, depth 600 feet. Land-surface datum is 205 feet above msl. Highest water level 52.32 below lsd, Mar. 12, 1942; lowest 56.99 below lsd, Dec. 8, 1951. Records available: 1941-43, 1945-46, 1949-51. Aug. 19, 56.91; Dec. 8, 56.99.

Wayne County

3. A. W. Hurn. At Gardi. Lat. $31^{\circ}32'13''$, long. $81^{\circ}47'58''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 560 feet. Land-surface datum is 62 feet above msl. Highest water level 1.75 below lsd, May 18, 1939; lowest 6.87 below lsd, Aug. 19, 1951. Records available: 1939-43, 1945-51. Aug. 19, 6.87; Dec. 8, 6.81.

10. Town of Screven. Lat. $31^{\circ}29'09''$, long. $82^{\circ}01'11''$. Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 931 feet, cased to 572 feet. Land-surface datum is 123 feet above msl. Highest water level 55.43 below lsd, Dec. 8, 1947; lowest 61.03 below lsd, Aug. 19, 1951. Records available: 1940-43, 1945-51. Aug. 19, 61.03; Dec. 8, 60.01.

KENTUCKY

By M. I. Rorabaugh and E. A. Bell

Scope of Water-Level Program

The observation-well program in Kentucky, begun in 1949, was continued in 1951 in cooperation with the State Agricultural and Industrial Development Board. This program includes reconnaissance surveys of each of the major physiographic units (see fig. 13), development of a State-wide network of observation wells, and continuation of detailed investigations in the Paintsville, Prestonsburg, Henderson, Hopkinsville, Covington, Paducah, and Scottsville areas. Investigation of the ground-water resources in the Louisville area, begun in 1943, was continued during 1951 in cooperation with Jefferson County and the city of Louisville. During 1951 measurements were made in 70 wells in a State-wide network. (See figs. 13 and 15) Recording gages were maintained on 10 wells throughout the year and on 20 wells during part of the year.

The publication of data for observation wells for which measurements have been published in previous annual water-level reports and for which no measurements appear in this report has been discontinued in the annual water-level reports. They may be published in project reports or special reports from time to time.

Precipitation

Records of the U. S. Weather Bureau show a total of 48.53 inches of precipitation at Louisville during 1951, about $5\frac{1}{2}$ inches in excess of the 80-year normal. Although appreciably less than the 1950 record of 60.86 inches, distribution throughout the year was favorable for ground-water recharge. Most of the recharge from this source occurs during the nongrowing season when evaporation and transpiration are at a minimum. The yearly total of precipitation for the State was 54.67 inches which is 8.86 inches above the 63-year average of 45.81 inches, making the year 1951 the fourth wettest on record (since 1889). The greatest monthly excess was 3.59 inches in December; the greatest monthly deficiency was 1.32 inches in May and July.

Pumpage

Total pumpage of ground water in the Louisville area during 1951 was 33.4 million gallons per day, of which 1.6 million gallons per day was returned through recharge wells. The net withdrawal of 31.8 million gallons per day was about 7 percent more than that of 1950. Natural recharge to the aquifer almost balanced the pumpage.

Figure 14 shows pumpage since 1937 and natural recharge since 1943. It also shows the increased pumpage during 1941-43 resulting from the rapid expansion of industry during the war. Conservation measures, including artificial recharge, redesign of equipment, recirculation, installation of cooling towers, and use of city water resulted in smaller use of water in 1944 and 1945. Following the war, a sewer tax based on water use resulted in additional conservation measures. This illustration shows large withdrawals from storage in 1943 and 1944. The excess of recharge over pumpage in 1945 was primarily the result of a major flood which caused an abnormally large infiltration of river water. Since 1945 pumpage and natural recharge have been nearly in balance except in 1950 when recharge from rainfall was considerably above normal.

Interpretation of Water-Level Fluctuations

Louisville area. -- The principal aquifer in the Louisville area is a bed of glacial-outwash sands and gravels underlying the flood plain of the Ohio River (shaded area on fig. 15). A second important aquifer in the central part of the area is the limestone bedrock, extensively developed by solution and lying beneath the outwash deposits. Water levels are a measure of changes in ground-water storage and, in the Louisville area, are affected by many factors. They reflect natural recharge from vertical infiltration of rainfall on the flood plain and from horizontal flow of water through the valley wall from the formations underlying the uplands southeast of the valley; they are affected by loss of ground water to the Ohio River in areas where water level is above river level and by recharge from the river where water levels are below river level; they rise and fall during flood periods as water flows to the aquifer during high river stages and returns to the river at lower stages; they fall when water is withdrawn from wells and rise when water is artificially recharged.

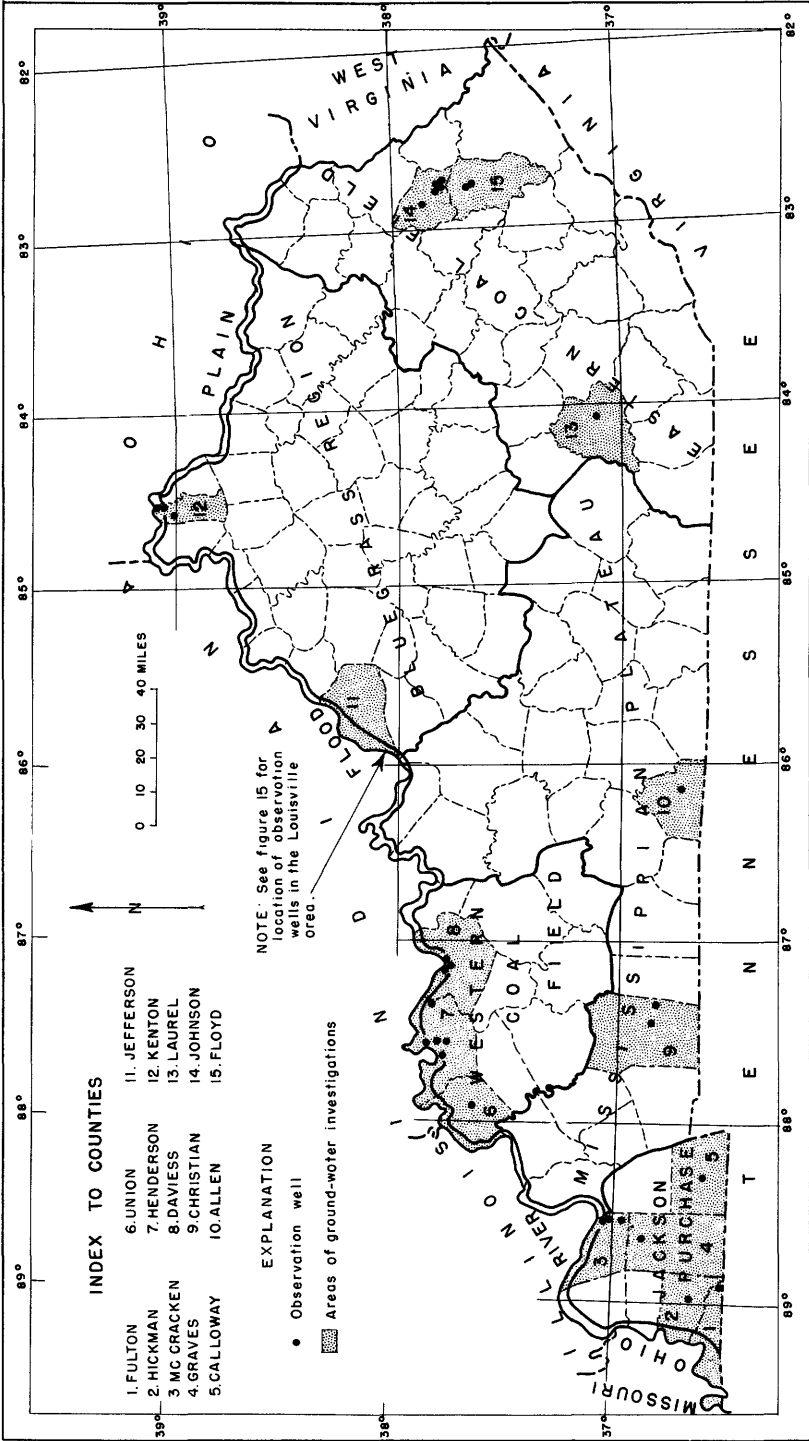


Figure 13. --Physiographic units, areas of ground-water investigations, and location of observation wells in Kentucky, 1951.

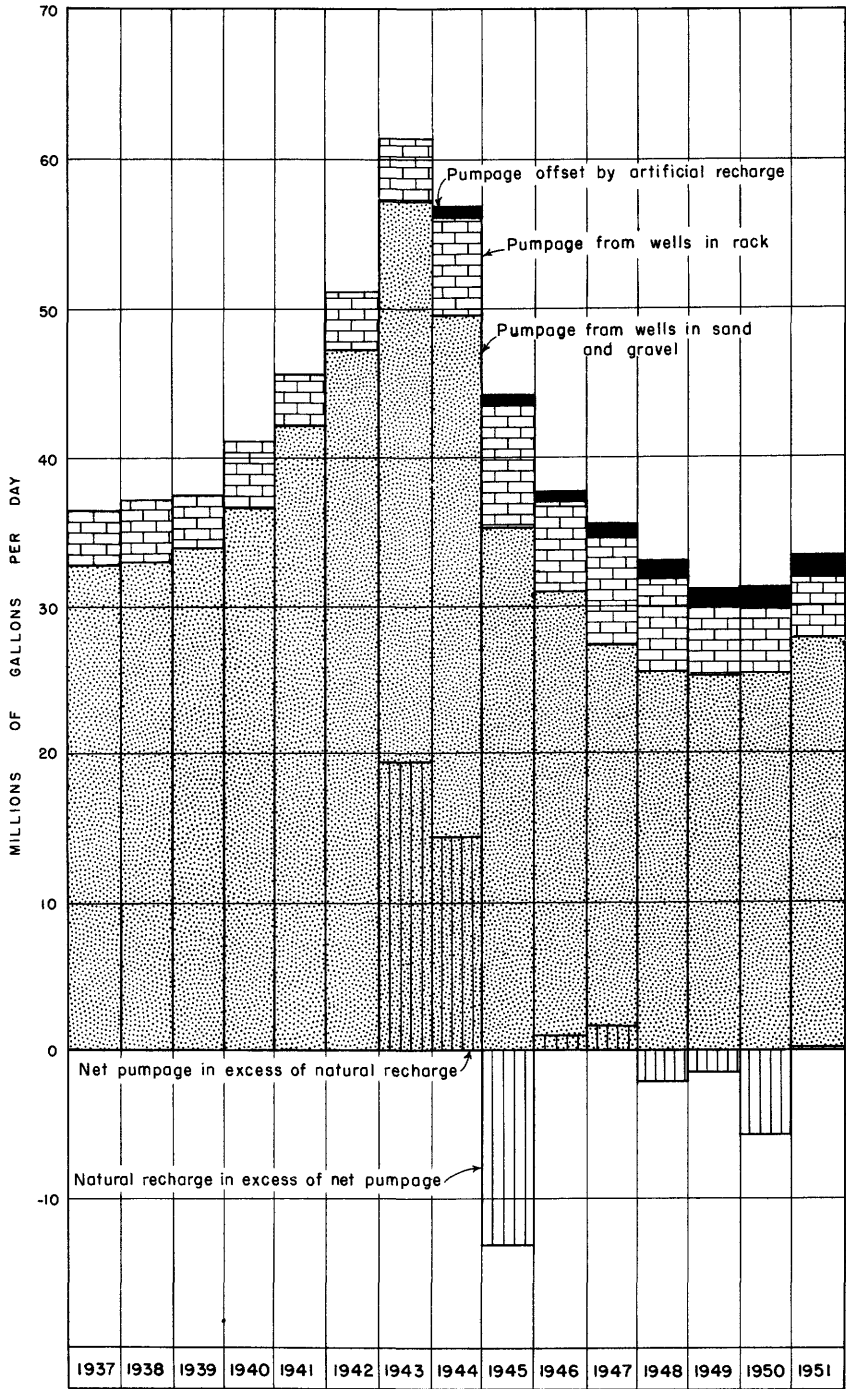


Figure 14. --Pumpage, 1937-51, and changes in storage, 1943-51, in the Louisville area.

Water levels in the Louisville area showed an average decline of 0.14 foot during 1951. Changes ranged from gains of more than 4 feet in the west-central area to declines of nearly 5 feet in the northern part of "Rubbertown" area. The graph of well 50-10-2 (fig. 16) is typical of the unpumped area southwest of the city. Water levels in this well are not affected by the river and reflect only the infiltration of rainfall on the flood plain. Note that the wet years 1950 and 1951 show substantial rises in water level. In the downtown area of Louisville (east of meridian 85°46' and north of parallel 38°13'), where the principal use of ground water is for air conditioning, water levels rose an average of 0.8 foot during the year. Graphs for wells 45-14-1 and 45-15-36 on figure 16 are typical for this area. Prior to 1949 the trend was downward. The reversal in trend in 1950 and 1951 resulted from above-average precipitation, from above-average infiltration during floods, and to small reductions in pumpage. In the central industrial area (west of meridian 85°46' and north of parallel 38°13') water levels gained about 0.9 foot during 1951. A gradual improvement of ground-water conditions in this area during the past few years is associated with a corresponding decrease of pumpage and greater than normal rainfall (see fig. 17). In the distillery area south of Louisville, water levels rose an average of 0.3 foot. A 30-percent increase of pumping over that of 1950 tended to diminish the gain due to natural recharge to the area. Figure 18 shows the hydrograph of well 47-12-1 and a bar graph of average pumpage for the area. In the "Rubbertown" area southwest of the city, there were changes of water levels. An average loss of 1.2 feet occurred. These losses ranged from 0.9 foot average in the unpumped section adjacent to the river to an average of 3.1 feet in the northern section of concentrated pumping. A gain of 0.5 foot occurred in the small unpumped area away from the river. Pumpage in the "Rubbertown" area was about 14 percent greater than that of 1950. The hydrograph of well 49-13-24 (see fig. 19), typical of the "Rubbertown" area shows that the water level at the end of 1951 was about 17.5 feet above the critical low of 1945 and the 1951 pumpage was about 60 percent of the record pumpage of 1944.

Figure 20 is a map of the Louisville area showing contours of water level in December 1951. Contours show depressions in the "Rubbertown" area, distillery area, and in the central part of the city indicating flow toward these areas of heavy pumpage. Infiltration of river water is indicated in areas northeast of the city and southwest of the city. In the unpumped area along the lower edge of the illustration water levels are above river level and flow is toward the river.

Figure 21 shows the changes of water levels during the 3-year period, December 1948 to December 1951. Hatched and shaded portions denote areas of gains or losses greater than 5 feet. In the south distillery and "Rubbertown" areas, small depression centers reflect increased pumpages while the west-central area and the area south of "Rubbertown" show effects of decreased pumpages and excessive precipitation during the 3 years.

Well-Numbering System

Excepting the Louisville area in Jefferson County, the State has been divided into quadrangles formed by the 5-minute meridians and parallels. Wells inventoried in each of the quadrangles are numbered beginning with 1. Wells are designated by a composite of three numbers; the first indicates the degrees and minutes of longitude, the second the degrees and minutes of latitude, and the third the number of the well in that quadrangle. Thus, well 8715-3650-1 is the first well inventoried in the 5-minute quadrangle west of 87°15' longitude and north of 36°50' latitude. A similar numbering system is used for wells in the Louisville area, which lies between longitude 85° and 86° and between latitude 38° and 39°, except that the quadrangles are bounded by 1-minute meridians and parallels. The well designation omits the degrees, using only minutes of longitude and latitude. Thus, well 45-14-2 is the second well inventoried in the 1-minute quadrangle west of 85°45' longitude and north of 38°14' latitude. Location of wells in the Louisville area included in the water-level report are shown on figure 15.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Allen County

8605-3640-37. Lewis Howell. Lat. 36°44', long. 86°09'. Drilled unused water-table well in limestone of Fort Payne formation, diameter 6 inches, depth 61 feet. Highest water level 38.9 below lsd, Feb. 21, 1951; lowest 45.75 below lsd, Oct. 14, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.56	45.02	44.61	45.24	45.10	44.84	44.30	42.25
2	h44.70	.....	.....	.....	42.68	44.96	44.72	45.25	45.29	44.68	44.08	42.41
3	42.61	44.93	44.84	45.22	45.42	44.73	44.26	42.40
4	42.61	45.05	44.51	45.41	45.43	44.96	44.68	41.49
5	40.88	42.64	45.13	44.96	45.46	45.28	45.11	45.04	40.61

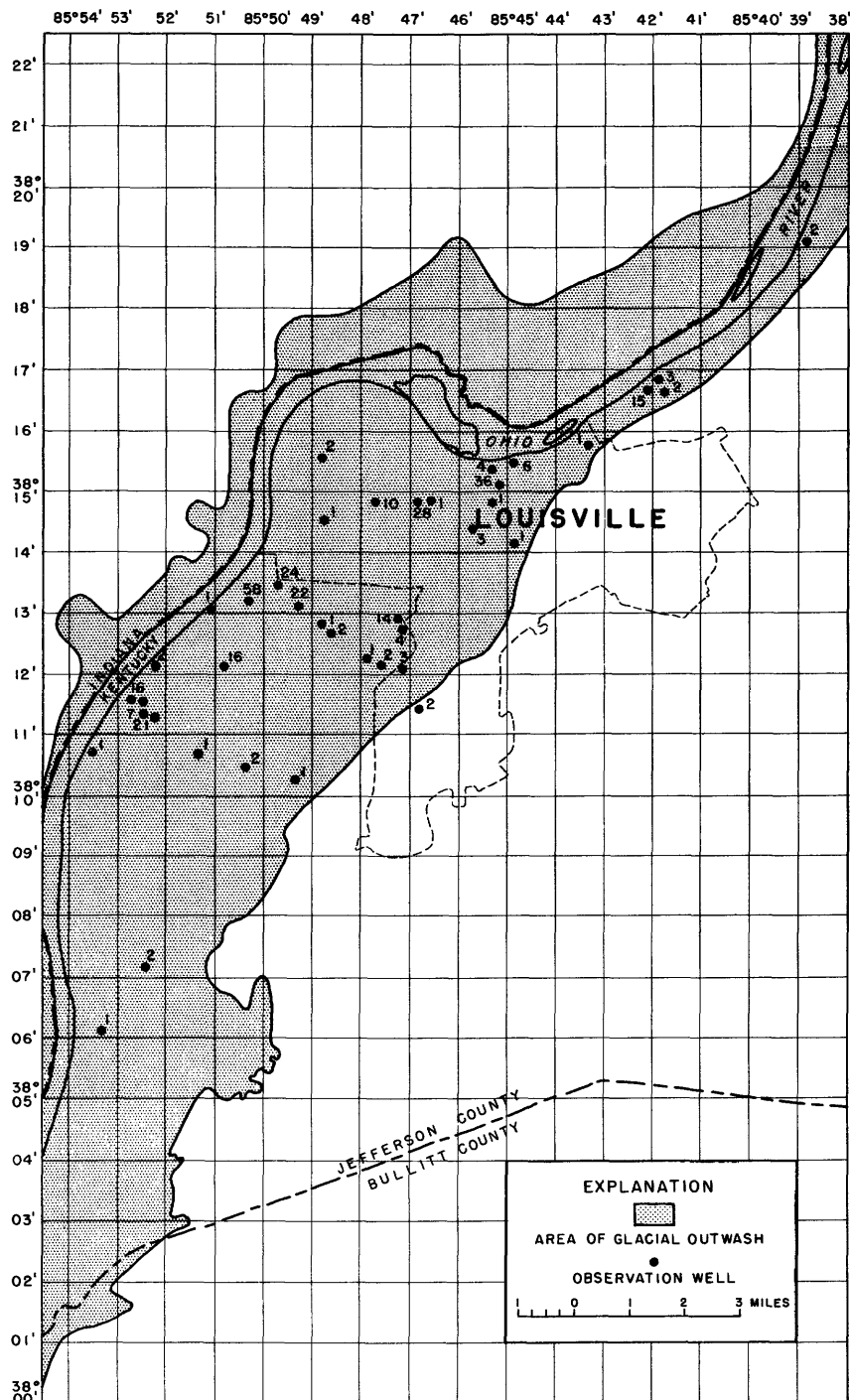


Figure 15. -- Location of observation wells in the Louisville area, 1951.

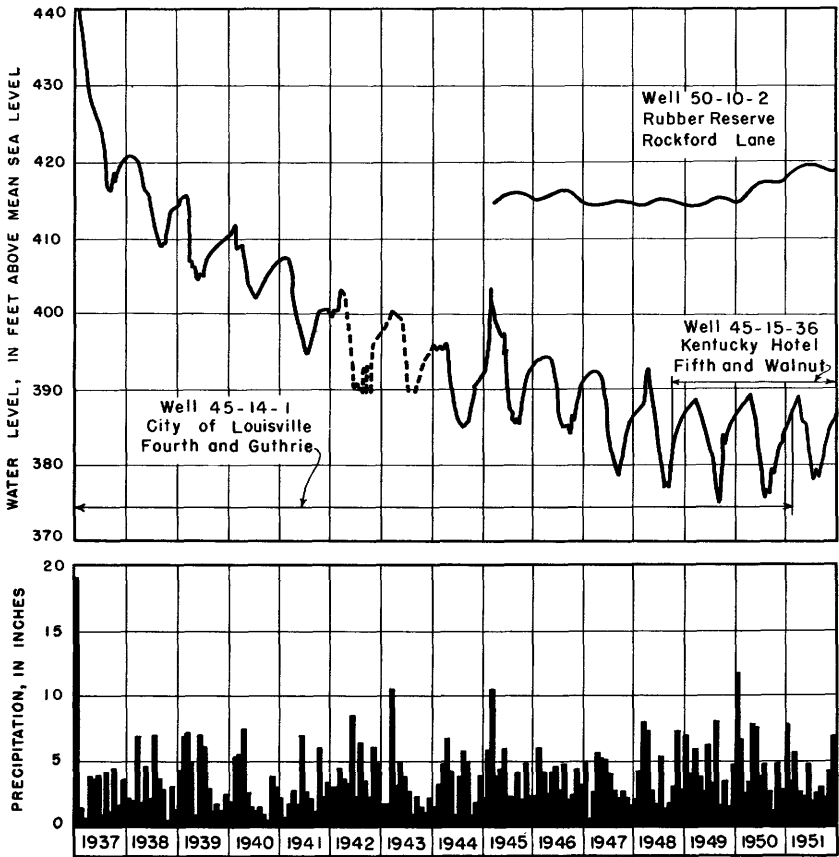


Figure 16.--Water level and precipitation in downtown area of Louisville and in unpumped area south of Louisville.

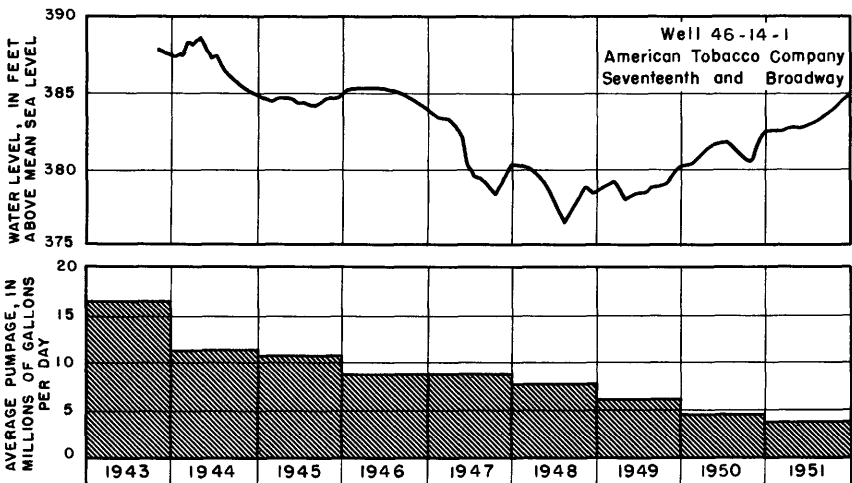


Figure 17.--Pumpage and water level in west-central part of Louisville area.

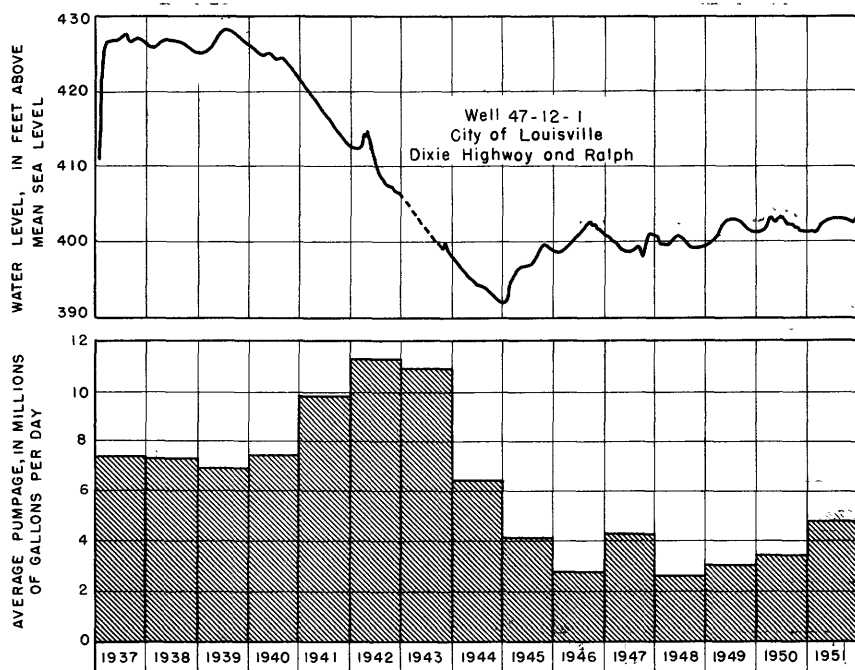


Figure 18. --Pumpage and water level in south distillery area, Louisville.

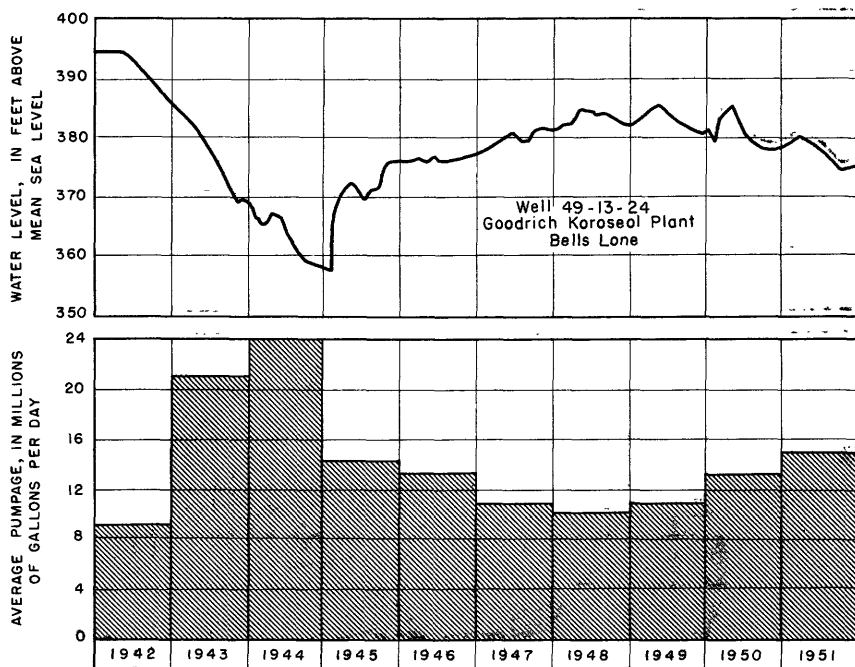


Figure 19. --Pumpage and water level in Rubbertown area, southwest of Louisville.

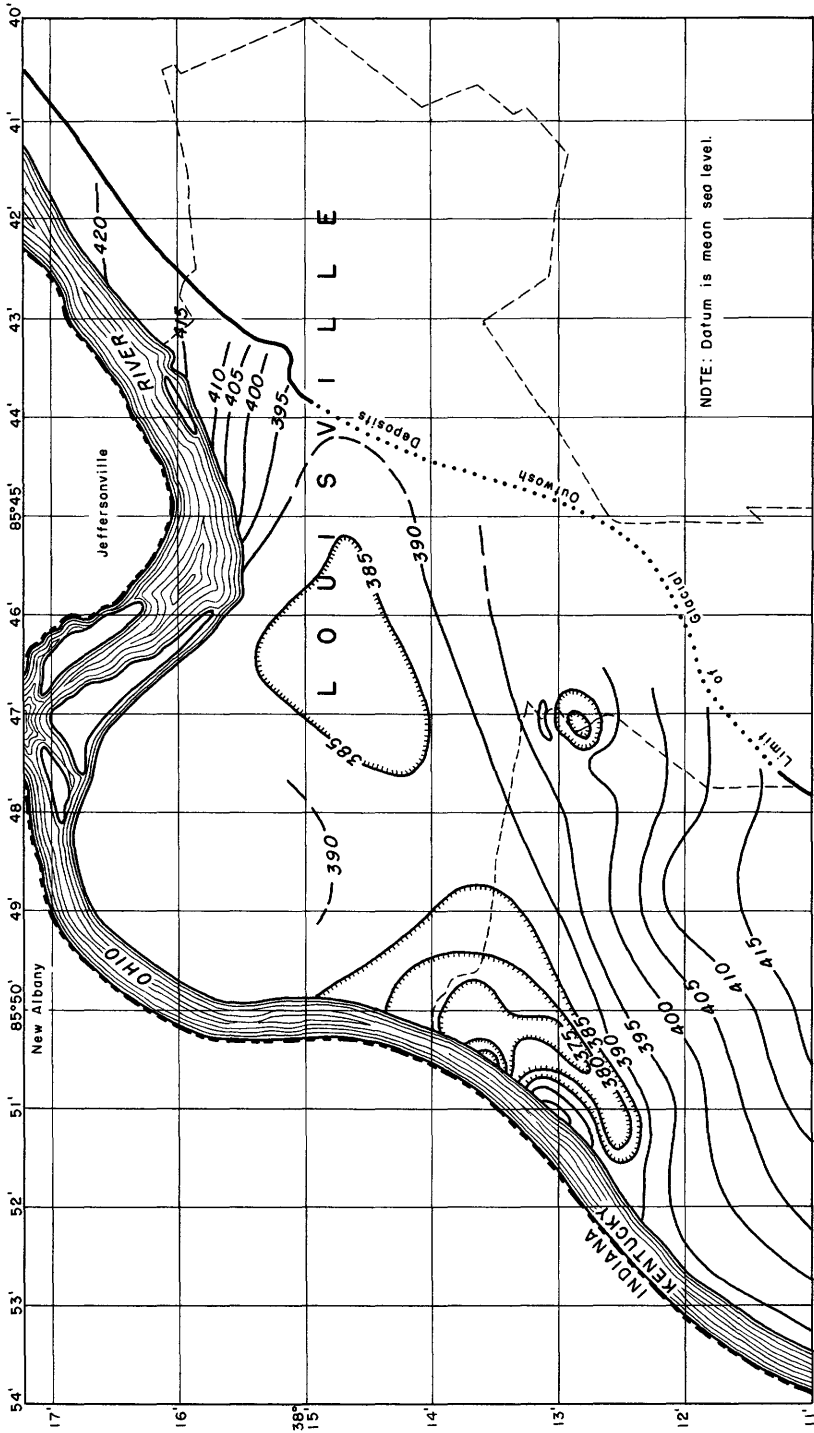


Figure 20. --Water-level contours in the Louisville area, December 1951.



Figure 21. --Changes in water levels in the Louisville area, 1948-51.

8605-3640-37--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	h41. 4	40. 72	42. 98	44. 96	45. 06	45. 27	45. 29	45. 11	44. 31	40. 81
7	40. 53	43. 39	44. 77	44. 98	45. 04	45. 48	45. 29	43. 85	41. 20
8	h42. 3	h40. 4	.....	40. 67	43. 60	44. 95	44. 94	45. 06	45. 44	45. 50	44. 03	39. 80
9	40. 88	43. 62	44. 92	44. 96	45. 08	45. 24	45. 44	44. 23	39. 92
10	43. 40	44. 99	45. 15	45. 38	45. 15	45. 45	44. 37	40. 10
11	43. 58	44. 76	45. 06	45. 35	45. 43	45. 44	44. 54	39. 92
12	40. 75	43. 88	44. 75	45. 10	45. 49	45. 27	45. 61	44. 32	40. 14
13	40. 80	44. 17	44. 94	45. 17	45. 43	45. 30	45. 65	44. 19	41. 16
14	40. 99	44. 52	45. 00	45. 17	45. 40	45. 47	45. 62	43. 07	40. 51
15	h40. 5	.....	.....	41. 19	44. 58	44. 85	45. 18	45. 38	45. 47	45. 45	42. 40	40. 13
16	41. 61	44. 39	44. 79	45. 16	45. 30	45. 47	45. 37	42. 21	.....
17	41. 92	44. 27	44. 85	45. 19	45. 31	45. 40	45. 37	42. 41	40. 28
18	41. 77	44. 33	44. 93	45. 16	45. 38	45. 45	45. 37	42. 63	40. 29
19	41. 9	44. 34	44. 87	45. 09	45. 41	45. 53	45. 37	42. 97	40. 63
20	42. 46	44. 28	44. 85	45. 22	45. 35	45. 61	45. 32	43. 27	40. 19
21	h38. 9	.....	42. 46	44. 22	44. 93	45. 27	45. 34	45. 56	45. 37	43. 37	39. 69
22	h40. 2	42. 64	44. 26	44. 82	45. 33	45. 48	45. 10	45. 43	43. 40	40. 09
23	h42. 05	.....	.....	42. 57	44. 40	44. 92	45. 26	45. 57	44. 66	45. 37	43. 40	40. 31
24	42. 64	44. 56	45. 13	45. 12	45. 45	44. 62	45. 44	42. 42	40. 89
25	42. 65	44. 60	45. 07	45. 22	45. 40	44. 32	45. 44	41. 44	40. 82
26	42. 38	44. 34	44. 89	45. 26	45. 31	44. 03	45. 44	41. 33	39. 87
27	42. 40	44. 51	44. 88	45. 19	45. 26	44. 28	45. 40	41. 35	40. 30
28	42. 34	44. 65	44. 98	45. 12	45. 26	44. 83	45. 33	41. 44	39. 97
29	42. 26	44. 84	44. 93	45. 18	45. 09	44. 82	45. 40	41. 80	39. 93
30	42. 32	45. 02	44. 75	45. 25	45. 05	44. 78	45. 45	42. 08	40. 20
31	45. 15	.....	.....	45. 19	45. 05	.....	45. 42	.....	40. 76

h Tape measurement.

Calloway County

8815-3635-6. Joe Parks. 15th and Main Sts., Murray. Drilled unused artesian well in sand of Ripley formation, diameter 12 inches, depth 345 feet, screen at 290-328 and 330-344. Land-surface datum is 548.97 feet above msl. Highest water level 123.78 below lsd, Dec. 25, 1951; lowest 127.30 below lsd, Aug. 5, 1948. Records available: 1948-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	124. 73	124. 71	124. 41	124. 60	124. 65	124. 45	124. 81	124. 88	124. 63	124. 48	124. 25
2	.....	124. 82	124. 70	124. 32	124. 66	124. 64	124. 55	124. 82	124. 87	124. 59	124. 47	124. 14
3	.....	124. 71	124. 59	124. 39	124. 60	124. 64	124. 56	124. 84	124. 83	124. 59	124. 40	124. 12
4	.....	124. 66	124. 62	124. 46	124. 54	124. 59	124. 53	124. 91	124. 87	124. 65	124. 46	124. 03
5	.....	124. 69	124. 64	124. 50	124. 53	124. 60	124. 56	124. 86	124. 89	124. 71	.....	123. 95
6	.....	124. 62	124. 67	124. 46	124. 49	124. 59	124. 58	124. 77	124. 88	124. 70	124. 24	124. 00
7	.....	124. 74	124. 68	124. 33	124. 54	124. 52	124. 60	124. 80	124. 92	124. 69	124. 32	124. 07
8	.....	124. 76	124. 75	124. 29	124. 61	124. 50	124. 58	124. 82	124. 92	124. 68	124. 40	124. 07
9	.....	124. 80	124. 83	124. 25	124. 62	124. 44	124. 55	124. 87	124. 82	124. 72	124. 41	124. 12
10	.....	124. 83	124. 82	124. 36	124. 56	124. 43	124. 59	124. 88	124. 71	124. 75	124. 44	124. 12
11	.....	124. 76	124. 66	124. 34	124. 60	124. 41	124. 62	124. 91	124. 79	124. 76	124. 38	124. 08
12	.....	124. 66	124. 64	124. 31	124. 60	124. 42	124. 66	124. 90	124. 79	124. 82	124. 27	124. 05
13	.....	124. 77	124. 59	124. 36	124. 63	124. 48	124. 66	124. 87	124. 71	124. 82	124. 13	124. 18
14	.....	124. 87	124. 56	124. 37	124. 64	124. 51	124. 66	124. 92	124. 73	124. 76	124. 18	123. 54
15	.....	124. 84	124. 62	124. 39	124. 74	124. 51	124. 66	124. 97	124. 77	124. 72	124. 22	124. 22
16	.....	124. 73	124. 63	124. 44	125. 75	124. 46	124. 62	124. 97	124. 76	124. 74	124. 28	124. 16
17	.....	124. 74	124. 57	124. 52	124. 74	124. 44	124. 64	124. 96	124. 71	124. 80	124. 39	124. 09
18	.....	124. 69	124. 40	124. 50	124. 75	124. 46	124. 68	124. 95	124. 77	124. 80	124. 31	124. 06
19	.....	124. 63	124. 49	124. 53	124. 72	124. 45	124. 69	124. 85	124. 80	124. 83	124. 33	124. 04
20	.....	124. 53	124. 56	124. 62	124. 66	.....	124. 70	124. 83	124. 80	124. 76	124. 38	123. 81
21	.....	124. 63	124. 62	124. 55	124. 61	.....	124. 73	124. 88	124. 81	124. 68	124. 39	123. 83
22	.....	124. 72	124. 59	124. 48	124. 68	.....	124. 74	124. 82	124. 71	124. 71	124. 32	123. 91
23	.....	124. 77	124. 54	124. 59	124. 70	.....	124. 70	124. 98	124. 69	124. 68	124. 19	123. 90
24	.....	124. 71	124. 67	124. 61	124. 67	.....	124. 70	124. 96	124. 62	124. 71	124. 11	123. 95
25	124. 95	124. 59	124. 61	124. 60	124. 66	.....	124. 66	124. 93	124. 61	124. 77	124. 00	123. 78
26	124. 83	124. 53	124. 62	124. 65	124. 58	124. 63	124. 69	124. 89	124. 61	124. 76	124. 13	123. 84
27	124. 74	124. 63	124. 59	124. 64	124. 52	124. 67	124. 65	124. 81	124. 70	124. 65	124. 24	124. 01
28	124. 73	124. 60	124. 45	124. 61	124. 48	124. 73	124. 68	124. 75	124. 78	124. 61	124. 26	123. 92
29	124. 77	.....	124. 41	124. 52	124. 63	124. 67	124. 68	124. 80	124. 76	124. 55	124. 31	.....
30	124. 85	.....	124. 46	124. 52	124. 66	124. 47	124. 70	124. 84	124. 68	124. 55	124. 31	.....
31	124. 73	.....	124. 47	.....	124. 70	.....	124. 77	124. 86	.....	124. 58	.....	.....

Christian County

8720-3650-98. W. A. Cowherd. Lat. 36°50', long. 87°20'. Drilled unused water-table well in Ste. Genevieve limestone, diameter 8 inches, depth 500 feet. Highest water level 9.22 below lsd, Dec. 8, 1951; lowest 44.36 below lsd, Nov. 4, 1950. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.27	42.51	43.41	42.00	43.71	43.52	43.94	43.77	40.68
2	42.56	43.42	42.63	43.73	.....	43.87	43.80	41.26
3	28.63	42.77	43.41	42.92	43.72	.....	43.82	43.80	41.52
4	h22.05	.....	.....	.....	42.77	43.43	43.09	43.76	43.42	43.78	43.78	.....
5	33.63	42.68	43.50	43.30	43.82	43.42	43.82	43.86	.....
6	38.00	42.70	43.53	43.43	43.82	43.41	43.86	43.75	.....
7	39.84	42.82	43.47	43.48	43.74	43.44	43.87	43.68	.....
8	40.25	43.00	43.30	43.47	43.58	43.48	43.99	43.74	12.00
9	39.73	43.08	43.22	43.45	43.56	43.45	44.03	43.76	14.95
10	40.25	43.09	43.39	43.43	43.62	43.36	44.05	43.75	27.25
11	40.8	42.97	43.42	43.50	43.66	43.40	44.04	43.73	34.15
12	40.00	42.95	43.42	43.76	43.72	43.40	44.06	43.58	37.60
13	40.45	43.05	43.40	43.56	43.76	43.00	44.11	43.25	39.70
14	h16.60	h39.12	40.80	43.17	43.50	43.60	43.77	43.25	44.14	39.02	26.25
15	41.2	43.30	43.53	43.63	43.76	43.36	44.10	40.70	25.90
16	41.70	43.35	43.48	43.64	43.73	43.43	44.06	41.50	33.75
17	42.25	43.32	43.47	43.66	43.72	43.45	44.07	42.10	37.85
18	42.57	43.23	43.49	43.66	43.72	43.88	44.07	42.43	39.85
19	42.68	43.20	43.50	43.64	43.75	43.90	44.09	42.64	41.03
20	31.60	42.82	43.17	43.16	43.66	43.74	43.92	44.04	42.76	.....
21	33.82	43.15	43.12	43.40	43.68	43.73	43.45	43.97	42.79	.....
22	38.03	40.95	43.10	.....	43.72	43.70	43.45	43.97	42.78	.....
23	40.26	43.05	43.07	.....	43.59	43.71	43.73	43.95	.....	.....
24	41.29	37.45	43.13	.....	43.65	43.73	43.61	44.00	.....	.....
25	42.28	39.85	43.20	.....	43.69	43.74	43.73	44.07	.....	12.56
26	42.85	40.75	43.25	.....	43.74	43.70	43.74	44.08	.....	24.50
27	h40.60	43.04	41.63	43.20	43.49	43.74	43.63	43.80	44.02	.....	32.25
28	42.48	42.07	43.25	43.58	43.72	43.32	43.95	43.92	35.04	37.20
29	42.48	42.33	43.29	43.64	43.70	43.46	44.02	43.91	37.40	39.50
30	42.48	42.50	43.30	39.89	43.72	43.52	44.00	43.87	40.40	40.74
31	42.96	.....	43.39	.....	43.73	43.52	.....	43.84	.....	41.53

h Tape measurement.

8725-3650-74. Western Kentucky State Hospital. Lat. 36°51', long. 87°27'. Drilled unused water-table well in Ste. Genevieve limestone, diameter 8 inches, depth 85 feet. Highest water level 6.95 below lsd, Dec. 23, 1951; lowest 17.70 below lsd, Sept. 21, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	h 7.45	Aug. 22	16.77	Sept. 15	17.33	Oct. 19	16.86
18	h10.42	23	16.75	16	17.53	20	16.86
Feb. 14	h11.05	24	16.78	17	17.61	21	16.84
27	h11.68	25	16.81	18	17.65	22	16.87
Mar. 14	h11.62	26	16.78	19	17.64	23	16.67
Apr. 18	h10.9	27	16.63	20	17.57	24	16.86
May 30	h16.45	28	15.56	21	17.67	25	16.87
June 27	h15.95	29	16.62	Oct. 3	16.72	26	16.84
July 11	h14.90	30	16.77	4	16.76	27	16.77
Aug. 8	16.68	31	16.80	5	16.76	28	16.83
9	16.67	Sept. 1	16.82	6	16.78	29	16.85
10	16.72	2	16.81	7	16.79	30	16.85
11	16.74	3	16.83	8	16.79	Nov. 13	h15.02
12	16.71	4	16.84	9	16.78	28	11.17
13	16.71	5	16.83	10	16.78	29	11.48
14	16.69	6	16.83	11	16.77	30	11.70
15	16.69	7	16.82	12	16.78	Dec. 1	11.80
16	16.73	8	16.83	13	16.79	2	11.84
17	16.76	9	16.86	14	16.83	3	11.90
18	16.74	10	16.65	15	16.88	4	9.25
19	16.73	11	16.79	16	16.87	5	12.06
20	16.72	13	13.65	17	16.87	6	12.84
21	16.74	14	16.55	18	16.89	13	11.55

8725-3650-74--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 14	10.70	Dec. 18	11.61	Dec. 22	10.34	Dec. 28	11.08
15	11.16	19	11.70	23	6.97	29	11.31
16	11.34	20	9.65	24	9.25	30	11.51
17	11.51	21	10.14	27	10.82	31	11.68

h Tape measurement.

Daviess County

8705-3745-4. Fleischmann Distilling Corp. Lat. 37°47', long. 87°08'. Drilled unused artesian and water-table well in alluvium of Pleistocene-Recent age, diameter 12 inches, depth 118 feet, screen at 85-105. Land-surface datum is 403.35 feet above msl. Highest water level 27.96 below lsd, Dec. 17, 1950; lowest 57.07 below lsd, Nov. 1, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.45	.....	28.95	34.25	41.30	49.34	50.78	54.38	53.44	53.68	.....	48.48
2	48.66	.....	28.98	34.90	41.59	49.69	50.69	54.57	53.40	53.67	.....	.....
3	49.32	.....	29.00	35.44	41.85	49.78	50.84	54.48	53.38	53.67	.....	.....
4	49.54	.....	29.98	35.71	42.08	49.67	50.82	55.20	53.39	53.70	.....	.....
5	48.98	h37.09	31.90	35.59	42.29	49.80	50.52	55.19	53.37	53.71	.....	.....
6	48.45	36.05	33.36	34.90	42.26	50.54	50.32	54.53	53.32	53.72	.....	.....
7	.....	34.52	34.38	34.03	41.90	50.96	50.35	54.34	53.36	53.71	.....	47.18
8	43.30	32.66	34.83	33.13	41.44	50.92	50.32	55.08	53.41	53.72	.....	47.35
9	41.82	31.11	34.68	32.55	.....	.....	50.24	.....	53.40	53.70	.....	47.34
10	40.54	30.88	34.93	32.24	40.86	.....	50.52	54.82	53.39	53.70	.....	47.05
11	39.40	30.45	34.44	32.48	41.02	51.42	50.86	54.41	53.40	53.70	.....	46.34
12	38.60	30.23	33.72	32.97	.....	52.06	51.18	54.11	53.45	53.73	.....	45.00
13	37.96	31.08	33.77	33.66	.....	52.30	51.45	53.79	53.47	53.75	.....	.....
14	36.72	31.81	33.91	34.19	41.75	51.82	51.83	53.68	53.48	53.77	.....	h44.52
15	35.42	31.35	33.91	34.33	42.40	51.20	51.97	53.60	53.45	53.76	h55.75	.....
16	34.90	30.64	34.09	34.33	42.95	50.84	51.96	53.54	53.43	53.82	.....	.....
17	33.74	30.74	35.19	34.33	43.27	50.42	52.20	53.56	53.46	53.92	.....	.....
18	32.62	30.52	35.39	34.25	43.55	49.85	52.43	53.58	51.92	54.00	.....	38.93
19	31.68	29.99	34.66	34.10	43.73	49.49	52.56	53.53	52.81	54.09	.....	.....
20	30.73	30.62	33.59	34.09	43.92	48.99	52.59	53.48	53.20	54.23	54.84	.....
21	29.65	30.88	32.54	34.20	.....	48.44	52.85	53.53	53.40	54.30	54.92	39.17
22	.....	30.76	31.71	34.45	45.67	48.89	52.96	53.59	53.48	54.80	54.62	39.14
23	29.01	30.18	31.04	34.83	46.22	.....	52.96	53.64	53.54	55.62	53.86	38.93
24	29.65	29.99	30.60	35.48	46.83	.....	53.87	53.74	53.53	56.25	54.56	38.62
25	30.62	29.08	.....	36.42	47.27	48.43	54.61	53.69	53.53	56.15	54.96	38.16
26	31.90	28.30	29.94	37.62	47.51	49.04	54.48	53.58	53.54	56.05	54.89	37.50
27	33.10	28.75	30.17	38.82	47.78	49.67	54.41	53.48	53.61	56.54	52.93	36.75
28	33.94	28.99	30.62	39.82	47.94	50.19	.....	53.54	53.69	56.40	52.02	35.86
29	34.67	.....	31.34	40.55	48.41	50.41	.....	53.53	53.74	55.94	.....	35.15
30	35.84	.....	32.36	40.97	48.76	50.73	.....	53.45	53.73	56.37	49.42	34.91
31	.....	.....	33.42	.....	48.97	.....	53.36	53.44	.....	56.86	.....	35.14

h Tape measurement.

8705-3745-11. Owensboro Municipal Utilities. 1531 East Fourth St., Owensboro. Drilled unused artesian and water-table well in alluvium of Pleistocene-Recent age, diameter 12 inches, depth 74 feet. Highest water level 34.04 below lsd, Feb. 27, 1951; lowest 53.71 below lsd, June 15, 1951. Records available: 1951. Feb. 27, 34.04, tape measurement.

Daily noon water level from recorder graph

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.87	h48.46	53.23	47.75	51.49	51.40	49.68	49.23	45.73
2	41.41	50.10	53.22	49.70	51.88	50.61	49.94	48.27	.....
3	50.10	49.20	48.80	52.18	47.33	49.99	47.22	.....
4	50.10	.....	48.37	51.34	50.64	50.08	46.81	.....
5	h40.16	.....	47.20	h50.54	49.93	47.10	50.85	50.28	47.15	47.83
6	42.05	41.35	44.80	51.82	51.04	50.35	51.05	50.21	48.55	47.70
7	40.59	.....	52.27	52.90	50.85	50.99	47.35	48.94	49.78
8	h45.45	52.26	47.70	51.39	50.76	49.45	49.07	47.83
9	46.23	51.15	.....	51.29	47.68	50.02	49.72	.....
10	48.47	49.85	h49.15	50.44	49.40	.....	48.74	.....

8705-3745-11--Continued.

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	h39.67	.....	48.33	52.05	50.85	50.28	50.73	.....	47.03	h42.94
12	40.79	.....	49.19	52.55	49.87	46.80	51.21	.....	48.13	40.50
13	.....	.....	47.01	52.08	51.00	50.34	50.74	.....	48.50	40.38
14	.....	.....	.....	52.09	47.85	50.83	50.76	.....	49.45	39.32
15	.....	.....	h52.24	53.61	47.91	50.82	50.75	.....	47.51	39.35
16	.....	.....	50.70	52.30	48.80	51.17	47.61	.....	49.80	.....
17	.....	.....	.....	49.38	50.98	51.25	50.59	49.59	49.78	.....
18	.....	39.54	.....	51.35	50.88	50.91	50.79	49.88	47.05	41.34
19	.....	39.78	.....	50.57	51.04	.....	50.35	49.14	49.36	41.05
20	38.11	40.00	.....	49.72	50.88	.....	50.71	49.21	49.32	42.44
21	38.45	39.73	.....	49.52	50.64	.....	50.99	.....	49.68	42.56
22	39.13	39.60	h53.29	49.20	50.38	52.22	.....	.....	49.27	39.88
23	39.14	40.32	51.12	50.57	50.65	51.58	.....	.....	48.41	38.76
24	37.83	42.83	52.88	47.69	51.01	51.36	.....	49.00	48.24	39.50
25	36.96	45.20	52.74	.....	51.10	51.14	49.69	49.38	47.68	37.38
26	38.72	46.43	52.57	h51.81	50.91	49.23	49.95	49.56	48.88	36.63
27	39.01	48.30	48.44	50.45	50.86	50.51	50.17	47.71	48.17	37.11
28	.....	48.40	50.09	51.42	50.23	50.58	50.42	46.95	48.58	36.68
29	.....	48.90	h51.62	50.93	.....	50.80	50.28	48.65	46.59	36.94
30	40.06	48.35	52.72	50.05	.....	50.78	47.08	49.05	47.51	36.11
31	40.69	.....	52.82	.....	.....	51.23	.....	48.75	.....	37.53

h Tape measurement.

8705-3745-33. Malco Theater Corp. 418 Frederica St., Owensboro. Drilled unused artesian well in alluvium of Pleistocene-Recent age, diameter 6 inches, depth 84 feet. Highest water level 26.99 below lsd, Dec. 29, 1951; lowest 39.01 below lsd, Sept. 1, 1951. Records available: 1951. Recording gage installed June 8, 1951.

Daily noon water level from recorder graph

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.42	.....	38.71	37.52	37.18	.....
2	37.44	.....	38.85	37.64	37.13	.....
3	37.76	.....	38.58	37.76	36.87	.....
4	38.40	38.07	37.11	.....
5	h36.28	.....	.....	38.17	38.47	37.14	35.67
6	38.21	38.53	36.49	36.18
7	38.10	38.07	36.90	36.77
8	36.91	.....	38.27	37.98	37.81	37.10	36.90
9	36.59	.....	38.50	37.93	37.55	37.08	37.02
10	36.64	38.28	37.53	37.96	37.41	37.06	36.45
11	36.55	38.20	37.46	37.53	37.32	37.04	35.15
12	36.44	38.22	37.41	38.56	37.38	36.70	33.92
13	36.54	38.20	37.37	37.32	37.36	36.60	32.89
14	36.58	38.11	37.53	38.03	37.35	36.93	31.01
15	36.95	37.88	38.50	38.07	37.28	37.07	31.28
16	37.46	37.94	38.56	38.04	37.36	37.23	30.96
17	37.54	38.07	38.58	37.88	37.55	37.41	30.62
18	37.67	38.09	38.52	37.90	37.66	37.29	30.66
19	37.46	38.12	38.48	37.97	37.59	37.34	30.77
20	37.04	38.17	38.52	38.27	37.18	37.29	30.20
21	36.86	38.18	38.73	38.15	37.23	37.12	30.73
22	h31.75	36.68	38.16	38.79	38.00	37.39	37.12	30.82
23	36.94	38.26	38.47	38.13	37.25	37.12	30.53
24	37.15	38.39	38.40	37.69	37.52	37.23	30.42
25	37.54	38.42	38.26	37.70	37.54	36.93	29.47
26	37.60	38.45	38.33	37.82	37.32	37.39	29.28
27	37.13	38.24	38.14	38.20	37.23	37.42	28.59
28	36.77	38.22	38.35	38.06	37.21	37.18	27.33
29	h35.98	37.55	38.14	38.38	37.65	37.19	36.99	27.00
30	37.36	38.27	38.39	37.50	37.13	.....	27.33
31	38.29	38.62	.....	37.20	.....	28.04

h Tape measurement.

Floyd County

8245-3740-1. B. M. Thompson. Lat. 37°40', long. 82°46'. Drilled unused water-table well in shale and sandstone of Breathitt formation, diameter 6 inches, depth 80 feet. Highest water level 33.15 below lsd, Apr. 4, 1951; lowest 38.80 below lsd, Oct. 31, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.08	33.57	34.78	35.44	36.26	37.17	38.04	38.32	38.72	37.92
2	h36.50	.....	34.11	33.63	34.80	35.48	36.27	37.21	38.06	38.33	38.36	37.95
3	34.13	33.52	34.50	35.53	36.31	37.26	38.05	38.36	38.42	37.97
4	34.20	33.17	34.10	35.59	36.31	37.29	38.03	38.38	38.46	37.97
5	34.14	33.27	34.04	35.37	36.40	37.32	38.06	38.40	38.49	37.99
6	33.71	33.38	34.12	35.11	36.40	e37.36	38.07	38.42	38.46	37.98
7	33.60	33.48	34.03	35.13	36.42	37.36	38.12	38.45	38.45	37.98
8	33.68	33.67	33.85	35.24	36.46	37.39	38.12	38.45	38.43	37.72
9	33.80	33.73	33.86	35.27	36.51	37.44	38.08	38.46	38.41	37.30
10	33.89	33.88	33.96	35.32	36.55	37.46	38.09	38.49	38.41	37.18
11	33.94	34.04	34.00	35.21	36.59	37.47	38.14	38.50	38.43	37.25
12	34.10	33.95	34.01	34.26	36.28	36.62	37.51	38.16	38.53	38.43	37.31
13	34.21	34.00	33.72	34.41	35.38	36.67	37.53	38.17	38.54	38.44	37.40
14	34.38	34.09	33.51	34.56	35.46	36.69	37.56	38.19	38.55	38.48	37.36
15	h36.35	34.45	34.13	33.57	34.64	35.45	36.73	37.57	38.07	38.56	38.51	36.97
16	34.27	34.22	33.70	34.72	35.51	36.72	37.61	38.09	38.59	38.44	36.22
17	34.25	34.26	33.78	34.83	35.58	36.75	37.63	38.10	38.61	38.33	36.45
18	34.30	34.10	33.83	34.92	35.64	36.78	37.68	38.15	38.63	38.30	36.63
19	34.36	33.79	33.89	34.94	35.72	36.81	37.69	38.18	38.65	38.33	36.63
20	34.35	33.53	34.09	34.98	35.75	36.87	37.72	38.21	38.66	38.37	36.52
21	34.39	33.30	34.12	35.07	35.82	36.90	37.74	38.22	38.68	38.36	36.16
22	33.65	33.44	34.26	35.12	35.85	36.94	37.78	38.23	38.70	38.37	e35.40
23	33.41	33.51	34.46	35.17	35.92	36.97	37.81	38.28	38.70	38.39	35.63
24	33.56	33.78	34.43	35.22	35.97	37.01	37.84	38.28	38.73	38.41	35.92
25	33.69	33.83	34.51	35.23	36.03	37.02	37.88	38.25	38.75	38.14	36.00
26	33.79	33.99	34.58	35.23	36.08	36.96	37.89	38.25	38.75	37.84	36.12
27	33.97	33.95	34.64	35.29	36.13	36.98	37.91	38.26	38.75	37.72	36.17
28	34.03	33.97	34.70	35.33	36.17	37.02	37.94	38.28	38.76	37.78	36.13
29	h36.30	.....	34.00	34.71	35.37	36.23	37.05	37.97	38.30	38.79	37.86	36.15
30	34.14	34.73	35.39	36.26	37.09	37.99	38.30	38.79	37.89	36.17
31	33.83	.....	35.39	.....	37.13	38.01	.....	38.80	.....	36.22

e Estimated.

h Tape measurement.

8245-3740-11. Julia Blackburn. Lat. 37°40', long. 82°46'. Dug unused water-table well in alluvium of Quaternary age, diameter 18 inches, depth 19 feet, tile lining. Highest water level 5.70 below lsd, Dec. 8, 1951; lowest 12.36 below lsd, Aug. 27, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.62	8.39	9.04	9.05	9.55	10.98	12.13	10.71	8.78	9.13
2	h9.41	.....	8.72	7.98	8.49	9.17	9.62	11.03	12.23	10.78	9.01	9.28
3	8.70	7.65	6.76	9.29	9.70	11.08	11.93	10.85	8.93	9.38
4	7.18	7.90	7.23	9.32	9.74	11.19	11.85	10.97	9.13	8.96
5	7.03	8.17	6.79	7.87	9.88	11.28	.....	11.08	9.32	8.38
6	7.41	8.33	7.38	8.18	9.96	11.36	.....	11.15	9.36	8.61
7	7.11	8.44	6.46	8.49	10.06	11.34	.....	11.16	7.87	8.87
8	7.49	8.47	7.17	7.74	10.15	11.42	.....	11.11	8.33	5.76
9	7.99	8.63	6.71	8.10	10.23	11.49	.....	11.14	8.79	.....
10	8.25	8.67	8.11	8.31	10.34	11.11	.....	11.18	9.02	.....
11	8.39	8.72	8.29	8.51	10.40	11.21	11.35	11.22	9.19	e7.94
12	h7.77	8.47	7.80	8.48	8.66	10.48	11.30	11.38	11.31	9.30	8.32
13	8.21	7.89	8.71	8.42	10.45	11.39	11.43	11.39	9.39	8.73
14	7.45	7.72	8.81	8.54	9.18	11.47	10.35	11.45	8.38	8.65
15	h6.66	.....	7.90	8.00	8.92	8.63	9.42	11.53	10.44	11.47	8.29	6.57
16	8.16	8.21	9.02	8.75	9.55	11.58	10.55	11.52	7.46	e7.52
17	8.38	8.36	9.10	8.91	9.69	11.66	10.65	11.59	7.97	.....
18	8.48	9.24	9.18	9.80	11.73	10.77	11.64	8.50	e7.72
19	e6.88	8.49	9.36	9.18	9.90	11.80	10.85	11.68	8.85	7.85
20	6.65	8.66	9.44	9.29	9.96	11.88	10.99	11.67	9.10	7.87

8245-3740-11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	7.15	8.72	9.54	9.26	10.07	11.94	11.10	11.65	9.24	6.64
22	7.73	8.78	9.60	9.30	10.18	12.03	11.16	11.56	9.35	7.42
23	7.97	8.78	9.44	9.43	10.28	12.11	11.22	11.50	9.41	8.02
24	8.27	8.76	9.43	9.58	10.40	12.18	11.20	11.48	8.09	8.52
25	8.83	9.48	9.69	10.42	12.24	10.76	11.47	7.90	8.75
26	h8.54	8.34	8.94	9.53	9.78	10.51	12.30	10.78	11.38	7.26	8.12
27	8.43	9.05	9.28	9.82	10.58	12.36	10.63	11.25	7.89	8.49
28	8.46	9.03	9.16	9.90	10.66	11.97	10.46	11.17	8.36	8.65
29	h7.91	....	8.39	9.06	8.60	9.90	10.74	12.00	10.55	11.25	8.72	8.74
30	8.21	9.09	8.82	9.63	....	12.05	10.63	11.25	8.95	8.68
31	8.31	....	8.94	....	10.90	12.09	....	11.28	....	8.81

e Estimated.

h Tape measurement.

Fulton County

8850-3630-1. Fulton Water Works. Norman and Water Sts., Fulton. Drilled unused artesian well in sand of Grenada formation, diameter 8 inches, depth 130 feet. Land-surface datum is 363.24 feet above msl. Highest water level 3.60 below lsd, Apr. 11, 1951; lowest 13.58 below lsd, Nov. 21, 1947. Records available: 1945, 1947, 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.24	5.06	4.44	4.99	6.44	5.91	6.89	7.40	6.87	6.24	6.39
2	4.79	5.07	6.53	6.23	6.76	7.13	6.76	6.40	6.19
3	4.74	5.07	5.95	6.11	6.77	7.21	6.75	6.99	6.16
4	4.59	4.91	6.36	6.14	6.95	7.44	6.90	6.79	5.89
5	4.74	5.04	6.44	6.24	6.56	6.95	7.13	6.93	5.67
6	5.23	....	4.64	4.94	6.19	6.32	6.79	7.42	7.18	6.52	5.61
7	5.54	5.02	4.49	5.11	6.11	6.24	6.15	7.39	6.93	6.59	5.84
8	5.45	....	4.26	5.24	5.94	5.84	6.31	7.39	7.29	6.71	5.85
9	5.24	4.91	4.51	5.17	6.09	6.34	6.65	6.84	7.23	6.59	5.78
10	5.34	4.86	4.84	4.99	5.65	6.36	6.95	7.09	7.20	6.69	5.79
11	4.94	4.54	4.12	5.13	5.96	6.44	7.03	7.21	7.11	6.29	5.61
12	4.99	4.63	4.37	5.37	5.91	6.49	6.70	7.13	7.14	....	5.59
13	4.99	4.42	4.44	5.16	6.11	6.57	6.88	7.09	7.41	....	5.74
14	5.07	4.99	4.64	5.53	6.01	6.64	7.04	7.06	6.95	....	5.43
15	5.23	5.06	....	5.63	5.99	6.19	7.19	7.24	7.04	....	5.83
16	4.97	4.74	4.74	5.59	6.10	6.56	6.90	6.76	7.21	....	5.84
17	5.04	4.71	4.89	5.54	5.81	6.67	6.99	6.84	7.16	....	5.74
18	4.67	4.63	4.79	5.71	6.17	6.68	7.22	7.07	7.32	....	5.67
19	4.84	4.79	4.84	5.73	6.31	6.77	6.54	7.16	7.28	....	5.64
20	4.44	4.92	4.89	5.54	....	6.93	7.04	7.14	7.29	....	5.37
21	4.84	4.74	4.74	5.89	....	6.79	7.06	7.16	7.09	6.84	5.49
22	5.09	4.67	4.59	5.95	....	6.47	7.26	6.99	7.30	6.69	5.81
23	4.58	4.79	6.09	....	6.79	7.25	6.80	7.16	6.64	5.49
24	4.92	4.79	5.99	....	6.91	7.21	6.86	7.29	6.63	5.79
25	4.53	4.71	6.04	6.52	6.44	7.14	....	7.27	6.23	5.32
26	4.89	4.77	6.03	6.54	6.57	6.55	....	7.14	6.47	5.65
27	4.51	4.84	5.39	6.39	6.75	6.97	....	....	6.46	5.37
28	4.54	4.79	5.69	6.57	6.85	6.69	....	....	6.44	5.36
29	4.52	4.61	6.05	6.59	6.31	7.24	7.12	....	6.54	5.31
30	4.76	4.89	6.19	6.39	6.61	6.99	6.72	....	6.49	....
31	5.24	....	4.74	....	6.20	....	6.74	7.31	....	6.49	....	....

Graves County

8835-3650-17. J. Whittemore. Lat. 36°52', long. 88°39'. Drilled unused artesian well in sands of Holly Springs formation, diameter 10 inches, depth 106 feet, screen at 83-105. Land-surface datum is about 403 feet above msl. Highest water level 14.06 below lsd, Mar. 23, 1951; lowest 17.77 below lsd, Nov. 17, 1951. Records available: 1951.

8835-3650-17--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.76	14.53	14.86	16.15	15.65	16.20	16.97	17.19	17.61	16.48
2	14.65	14.63	14.97	16.12	15.52	16.23	17.09	17.03	17.62	16.39
3	14.46	14.68	14.80	16.13	15.35	16.23	17.20	17.00	17.50	16.28
4	14.82	14.63	14.68	16.23	15.26	16.42	17.25	17.10	17.68	.....
5	14.91	14.65	14.89	.....	15.48	16.47	17.12	17.29	17.77	.....
6	14.78	14.38	14.93	.....	15.50	16.38	17.13	17.31	17.21	15.80
7	14.81	14.17	.....	.....	15.40	16.28	17.28	17.46	17.52	16.05
8	14.99	14.23	15.30	.....	15.30	16.27	17.26	17.57	17.70	16.02
9	15.30	14.36	15.25	.....	15.31	16.42	17.11	17.50	17.67	16.12
10	15.19	14.50	15.01	.....	15.43	16.57	17.05	17.49	17.64	15.86
11	14.96	14.21	15.23	15.84	15.48	16.64	17.23	17.47	17.61	15.48
12	14.87	14.27	15.43	15.80	15.51	16.73	17.14	17.58	17.30	15.37
13	14.56	14.38	15.61	15.95	15.56	16.74	17.21	17.61	17.05	15.75
14	14.55	14.46	15.73	16.01	15.59	16.73	17.29	17.62	17.30	15.15
15	14.75	14.65	15.80	15.90	15.59	16.78	17.29	17.53	17.35	16.06
16	14.77	14.83	15.66	15.80	15.60	16.73	17.30	17.49	17.57	16.05
17	14.57	14.92	15.53	15.83	15.63	16.75	17.23	17.58	17.77	15.69
18	14.62	14.67	15.56	.....	15.64	16.81	17.19	17.59	17.72	15.59
19	14.66	14.77	15.57	.....	15.64	16.87	17.20	17.70	17.68	15.62
20	14.14	14.55	15.04	15.51	.....	15.69	16.84	17.21	17.44	17.66	15.07
21	14.52	14.87	15.57	.....	15.74	16.89	17.23	17.41	17.46	15.52
22	14.35	14.97	15.53	.....	15.85	17.01	17.14	17.51	17.37	15.63
23	14.71	14.09	15.10	15.74	.....	15.90	17.10	17.32	17.42	17.28	15.60
24	14.62	14.63	14.78	15.73	.....	15.89	17.05	17.22	17.17	15.79
25	14.43	14.51	14.69	15.72	.....	15.93	17.02	17.19	17.71	16.93	15.39
26	14.38	14.76	14.83	15.63	15.94	15.99	16.97	17.05	17.60	16.92	15.74
27	14.61	14.51	14.81	15.77	15.95	15.97	16.87	17.25	17.46	16.76	15.87
28	14.47	14.28	14.73	15.83	15.98	15.96	16.99	17.50	17.44	16.62	15.34
29	14.20	14.63	15.96	15.96	16.04	17.01	17.41	17.46	16.66	14.97
30	14.46	14.71	16.07	15.77	16.13	16.99	17.27	17.44	16.59	14.94
31	14.55	.....	16.18	.....	16.10	16.95	.....	17.61	.....	15.08

Henderson County

8720-3750-152. Robert Willingham. Lat. 37°51', long. 87°21'. Driven unused artesian well in alluvium of Pleistocene-Recent age, diameter 1½ inches, depth 33 feet, perforations 26-29. Highest water level 15.57 below lsd, July 3, 1951; lowest 17.43 below lsd, Nov. 20, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 3	15.57	Aug. 14	16.25	Oct. 23	17.04	Nov. 30	17.42
10	15.76	28	16.44	30	17.15	Dec. 11	17.16
17	15.82	Sept. 4	16.58	Nov. 6	16.95	18	17.35
24	15.91	11	16.63	13	17.09	24	17.24
31	15.99	Oct. 9	16.95	20	17.43	31	16.94
Aug. 7	16.05	16	17.03				

8730-3745-48A. M. L. Cooper. Lat. 37°49', long. 87°33'. Drilled unused artesian well in sandstone and shale of Carbonate formation, diameter 6 inches, depth 350 feet, cased to 90. Land-surface datum is 405 feet above msl. This well is inside a dug well which often overflowed into casing of drilled well. That condition was corrected July 1951. Highest water level 0.80 below lsd, Feb. 16, 1951; lowest 71.46 below lsd, Oct. 14, 1951. Records available: 1949-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.86	.....	.....	.....	69.53	.....	.....	71.13	71.17	71.28	71.28	71.15
2	70.78	h70.46	.....	.....	69.69	.....	.....	71.13	71.19	71.27	71.35	71.11
3	.....	.....	.....	.....	69.72	.....	70.92	71.14	71.25	71.21	71.37	70.94
4	h34.36	.....	.....	.....	69.71	.....	70.93	71.16	71.28	71.19	71.33	79.81
5	.....	.....	.....	.....	69.73	.....	70.97	71.21	71.28	71.24	71.44	70.83
6	.....	.....	.....	.....	69.88	.....	71.00	71.22	71.29	71.31	71.35	70.83
7	.....	.....	.....	.....	70.03	.....	71.01	71.18	71.25	71.28	71.23	70.84
8	.....	.....	.....	.....	70.15	.....	71.00	71.17	71.25	71.39	71.32	71.00
9	.....	h57.00	h56.90	.....	70.16	.....	71.00	71.14	71.23	71.41	71.35	71.02
10	.....	.....	.....	.....	70.12	.....	71.00	71.18	71.25	71.41	71.35	71.10

8730-3745-48 A--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	.....	.....	.....	70.15	.....	71.00	71.20	71.30	71.40	71.35	70.99
12	40.19	.....	.....	.....	70.25	.....	71.00	71.23	71.30	71.42	71.25	.....
13	39.60	.....	.....	.....	70.38	.....	71.02	71.26	71.30	71.45	71.06	.....
14	39.60	.....	.....	.....	70.49	.....	71.04	71.27	71.30	71.46	70.93	.....
15	39.60	.....	.....	.....	70.55	.....	71.04	71.29	71.31	71.43	71.04	.....
16	39.60	h 0.80	h21.37	.....	70.55	.....	71.06	71.26	71.31	71.40	71.09	.....
17	39.60	.....	.....	.....	70.53	.....	71.06	71.23	71.31	71.40	71.25	.....
18	41.50	.....	.....	.....	70.53	.....	71.07	71.19	.....	71.43	71.32	.....
19	49.14	.....	.....	.....	70.54	.....	71.07	71.15	.....	71.46	71.35	.....
20	.....	.....	.....	h69.15	70.53	.....	71.08	71.14	.....	71.43	.....	70.72
21	.....	.....	.....	.....	70.53	.....	71.09	71.11	.....	71.38	.....	70.68
22	.....	.....	.....	.....	70.52	.....	71.11	71.13	.....	71.37	.....	70.89
23	.....	.....	.....	h 8.07	70.52	.....	71.14	71.19	.....	71.36	.....	70.92
24	.....	.....	.....	.....	70.56	.....	71.15	71.19	.....	71.34	.....	71.03
25	.....	.....	.....	.....	70.57	.....	71.15	71.21	71.29	71.44	.....	70.87
26	h69.92	.....	.....	.....	70.56	h70.97	71.14	71.20	71.24	71.44	.....	71.00
27	.....	.....	.....	.....	70.55	h70.97	71.15	71.26	71.20	71.40	.....	71.16
28	.....	.....	.....	.....	70.56	.....	71.15	71.14	71.31	71.32	.....	71.05
29	.....	.....	.....	.....	.....	.....	71.13	71.16	71.36	71.33	.....	.....
30	.....	.....	.....	h69.34	.....	.....	71.13	71.18	71.33	71.30	.....	.....
31	.....	.....	.....	.....	.....	.....	71.13	71.18	.....	71.33	.....	h70.74

h Tape measurement.

8730-3745-221. R. R. Roberts. Lat. 37°46', long. 87°34'. Drilled unused artesian well in Anvil Rock sandstone, diameter 5 inches, depth 106 feet. Land-surface datum is 433 feet above msl. Highest water level 30.41 below lsd, May 4, 1951; lowest 34.64 below lsd, Nov. 16, 1951. Records available: 1949-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.54	.....	31.52	30.78	30.88	31.28	31.56	31.93	32.24	32.60	33.17	33.26
2	32.26	.....	31.44	30.84	30.90	31.24	31.66	31.93	32.36	32.45	33.20	33.21
3	32.02	32.29	31.03	30.94	30.63	31.24	31.53	31.90	32.48	32.44	32.97	33.03
4	32.55	31.86	31.45	30.94	30.46	31.34	31.48	32.09	32.54	32.57	33.29	33.03
5	32.62	32.03	31.49	31.02	30.61	31.45	31.79	32.12	32.39	32.77	33.44	32.74
6	32.58	31.67	31.33	30.77	30.78	31.31	31.81	.....	32.39	32.78	32.64	32.90
7	32.60	32.11	.....	.....	31.01	31.11	31.69	31.83	32.55	32.90	33.02	33.16
8	32.56	32.26	31.41	.....	31.01	31.13	31.57	31.79	32.56	33.03	33.35	33.28
9	32.43	32.19	31.78	.....	30.92	31.23	31.59	31.98	32.33	32.96	33.32	33.48
10	32.23	32.16	31.68	.....	30.58	31.37	31.69	32.09	32.24	32.97	33.29	33.32
11	32.54	31.83	31.43	.....	30.77	.....	31.71	32.12	32.54	32.93	33.29	32.86
12	32.49	31.61	31.23	.....	30.96	31.21	31.73	32.19	32.40	33.04	32.91	32.90
13	32.35	31.91	30.90	h31.13	31.17	31.36	31.74	32.11	32.50	33.07	32.59	32.75
14	31.87	32.29	30.86	.....	31.30	31.45	31.76	32.13	32.62	33.03	32.96	32.83
15	31.92	32.05	31.14	.....	31.35	31.38	31.74	.....	32.63	32.93	33.19	32.24
16	32.47	.....	31.30	.....	31.14	31.26	31.75	32.09	32.65	32.88	33.40	32.10
17	32.02	31.85	31.17	.....	30.99	31.33	31.78	32.13	32.55	32.96	33.62	.....
18	32.00	31.73	31.22	.....	30.98	31.41	31.78	32.16	32.55	32.94	33.55	32.89
19	31.96	31.66	31.41	.....	30.93	31.38	31.73	32.22	32.59	33.07	33.55	32.96
20	31.88	31.38	31.43	30.93	30.83	31.36	31.79	32.15	32.58	32.74	33.50	32.32
21	31.60	31.70	31.36	30.75	30.86	31.41	31.80	32.17	32.60	32.73	33.27	32.69
22	.....	31.89	31.22	30.90	30.81	31.35	31.81	32.32	32.50	32.83	33.21	32.95
23	.....	31.92	30.80	31.23	30.99	31.46	31.88	32.41	32.79	32.81	33.14	32.89
24	.....	31.78	31.32	30.96	31.00	31.60	31.84	32.34	32.63	33.16	33.19	33.16
25	.....	31.46	31.18	30.74	30.94	31.65	31.87	32.28	32.63	33.25	33.15	.....
26	32.10	31.24	31.42	30.93	30.76	31.39	31.88	32.09	32.60	33.08	33.39	.....
27	32.82	31.51	31.10	31.01	30.86	31.41	31.86	32.10	32.72	32.90	33.43	.....
28	33.02	31.32	30.78	30.86	31.00	31.46	31.81	32.23	33.02	32.87	33.31	.....
29	33.41	.....	30.68	30.69	31.15	31.49	31.84	32.29	32.91	32.96	33.40	.....
30	33.47	.....	30.73	30.76	31.26	31.38	31.91	32.21	32.66	32.75	33.36	.....
31	32.98	.....	30.84	.....	31.30	.....	31.85	32.19	.....	33.20	.....	h32.31

h Tape measurement.

8730-3750-143. Audie Wilson. Lat. 37°52', long. 87°34'. Drilled unused artesian well in sandstone and shale of Carbonate formation, diameter 6 inches, depth 109 feet, cased to 57. Land-surface datum is 385 feet above msl. Highest water level 27.12 below lsd, Mar. 7, 1950; lowest 39.56 below lsd, Dec. 6, 1949. Records available: 1949-51.

8730-3750-143--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h33.79	.....	h30.91	.....	.....	.....	32.88	34.46	35.82	36.69	37.51	37.88
2	32.90	34.52	35.83	36.70	37.52	37.88
3	32.97	34.59	35.86	36.74	37.51	37.83
4	33.02	34.67	35.89	36.77	37.57	37.84
5	h28.29	.....	.....	33.09	34.68	35.92	36.84	37.60	37.77
6	33.14	34.72	35.92	36.87	37.54	37.77
7	33.16	34.76	36.01	36.89	37.62	37.77
8	h31.56	.....	.....	.....	31.30	33.21	34.80	35.99	36.90	37.65	37.72
9	h29.23	.....	h29.04	31.41	33.24	34.85	36.01	36.91	37.67	37.76
10	31.51	33.31	34.92	36.04	36.94	37.68	37.70
11	32.56	33.36	34.94	36.09	36.98	37.71	37.61
12	31.64	33.42	35.02	36.10	37.00	37.71	37.59
13	31.74	33.47	35.03	36.17	37.03	37.72	37.59
14	31.84	33.54	35.06	36.17	37.05	37.77	37.46
15	31.88	33.59	35.09	36.20	37.07	37.79	37.56
16	h28.87	.....	.....	31.98	.....	35.15	36.25	37.09	37.83	37.50
17	h33.52	.....	.....	.....	.....	32.04	33.69	35.20	36.27	37.13	37.84	37.42
18	32.08	33.71	35.26	36.30	37.16	37.84	37.42
19	32.15	33.78	35.27	36.39	37.19	37.86	37.34
20	h28.44	.....	32.24	33.85	35.33	36.41	37.20	37.86	37.28
21	h28.72	.....	.....	32.28	33.86	35.36	36.41	37.23	37.85	37.29
22	h29.98	32.35	33.94	35.45	36.46	37.26	37.86	37.23
23	h28.61	.....	.....	32.41	33.99	35.48	36.47	.....	37.88	37.19
24	32.48	34.06	35.51	36.44	.....	37.92	37.08
25	32.52	34.10	35.56	36.50	.....	37.86	37.01
26	32.57	34.16	35.60	36.51	37.35	37.94	37.02
27	32.63	34.21	35.62	36.60	37.36	37.92	36.97
28	32.73	34.24	35.64	36.62	37.35	37.91	36.80
29	32.77	34.33	35.68	36.62	37.42	37.92	36.71
30	h28.38	.....	.....	32.74	34.31	35.72	36.65	37.46	37.89	36.63
31	34.37	35.78	.....	37.50	.....	36.58

h Tape measurement.

8735-3745-1. W. C. Caton. Lat. 37°48', long. 87°38". Drilled unused artesian well in alluvium of Pleistocene-Recent age, diameter 4 inches, depth 54 feet, cased to 48 with no screen. Land-surface datum is 385 feet above msl. Highest water level 10.80 below lsd, Feb. 24, 1950; lowest 20.57 below lsd, June 5, 1951. Records available: 1949-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	13.41	.....	13.60	15.89	17.75	16.16	17.78	.....	19.87	17.74
2	.....	h14.00	12.98	.....	13.47	15.77	16.81	16.25	17.77	.....	19.94	17.56
3	.....	.....	.....	.....	13.24	.....	16.31	16.27	17.47	.....	19.97	17.25
4	.....	.....	.....	.....	.....	.....	16.52	16.18	17.65	.....	19.99	17.25
5	.....	.....	12.33	.....	13.20	20.57	16.08	16.17	17.74	.....	19.77	17.29
6	.....	.....	.....	13.54	13.35	18.89	16.80	16.15	17.76	.....	19.68	17.00
7	.....	.....	13.08	13.64	.....	17.92	16.83	16.28	17.82	.....	19.69	16.85
8	.....	.....	13.07	13.40	13.21	18.12	16.62	16.23	17.88	.....	19.71	16.91
9	.....	h14.52	13.02	13.40	13.59	17.37	16.06	16.20	17.83	.....	19.75	16.69
10	.....	.....	12.90	13.27	13.35	17.02	16.92	16.35	17.66	.....	19.76	16.20
11	.....	.....	12.73	13.06	13.33	16.55	17.99	16.42	17.82	.....	19.84	16.05
12	14.59	.....	12.60	13.30	13.38	16.42	18.35	16.56	17.91	.....	19.73	16.00
13	14.42	.....	12.91	13.16	13.55	16.36	17.90	16.43	17.93	.....	19.77	15.76
14	14.13	.....	13.12	13.85	13.62	.....	18.07	16.92	17.93	.....	20.04	15.45
15	13.53	.....	13.15	13.44	16.65	16.80	18.37	16.91	18.18	.....	20.23	15.25
16	13.65	h18.72	13.98	13.45	15.14	16.63	17.97	16.85	18.34	19.91	20.29	15.15
17	13.61	16.95	14.21	13.24	16.51	16.25	18.32	.....	18.05	19.94	20.33	.....
18	13.60	16.02	13.65	13.33	15.90	15.88	17.69	.....	18.23	19.96	20.35	15.10
19	13.47	15.36	13.28	.....	15.51	15.71	17.24	.....	.....	20.04	19.90	15.10
20	14.07	14.72	13.08	13.24	15.47	15.81	16.98	.....	.....	.....	19.79	14.95
21	13.73	14.22	12.92	13.41	15.12	15.52	16.94	.....	.....	.....	19.73	14.86
22	13.30	14.09	13.18	13.41	15.29	15.75	16.92	16.91	.....	.....	19.44	14.87
23	13.43	13.18	13.80	13.34	14.80	15.60	16.56	17.07	.....	20.47	19.02	14.54
24	.....	13.60	14.67	13.34	14.76	15.59	16.51	17.04	.....	20.39	19.00	14.29
25	12.98	13.39	15.78	13.22	14.75	15.95	16.50	17.24	.....	20.39	18.93	14.03

8735-3745-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	13.20	13.02	.....	13.15	14.85	15.97	16.30	17.15	.....	20.37	18.54	13.92
27	13.28	12.92	.....	12.90	16.52	15.66	16.15	17.01	.....	20.23	18.55	14.20
28	.....	12.83	.....	13.01	15.57	15.66	16.30	18.19	.....	20.13	18.29	14.54
29	.....	.....	.....	13.41	15.34	15.54	16.21	18.45	.....	19.86	18.10	14.77
30	.....	.....	13.29	13.41	15.35	15.68	16.19	17.95	.....	19.81	18.01	.....
31	.....	.....	13.16	.....	15.37	.....	16.05	17.81	.....	19.80	.....	h14.07

h Tape measurement.

Hickman County

8855-3640-1. Kentucky Water Service Co. Depot and Short Sts., Clinton. Drilled unused artesian well in sand of Holly Springs formation, diameter 8 inches, depth 296 feet. Land-surface datum is 353.85 feet above msl. Highest water level 18.96 below lsd, Aug. 4, 1950; lowest 30.76 below lsd, Oct. 2, Dec. 2, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	20.14	Apr. 11	19.14	June 12	21.90	Sept. 17	19.22
Feb. 2	21.05	22	19.19	July 10	19.08	Oct. 8	19.49
21	22.19	May 15	22.16	16	19.35	Nov. 5	15.34
Mar. 7	20.60	June 5	21.22	Aug. 27	19.33	Dec. 3	19.05
21	19.75	.....	.....	.....	.....	.....	.....

Jefferson County

38-19-2. Louisville Water Co. River Road, northeast of Goose Creek. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 110 feet, screen at 94-96. Land-surface datum is 438.46 feet above msl. Highest water level 1.84 below lsd, Jan. 14, 1950; lowest 20.97 below lsd, Feb. 3, 1948. Records available: 1946-51.

Feb. 28	13.59	May 16	18.31	July 25	18.62	Oct. 31	19.11
Apr. 10	16.66	June 13	19.11	Sept. 17	18.91	Dec. 13	17.46

41-16-2. Louisville Water Co. Zorn Ave., south of River Road. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 94 feet, screen at 82-84. Land-surface datum is 428.46 feet above msl. Highest water level 2.37 above lsd, Jan. 21, 1950; lowest 11.75 below lsd, Feb. 9, 1948. Records available: 1946-51.

Mar. 6	5.87	May 16	8.16	July 25	8.91	Oct. 31	9.42
Apr. 10	6.92	June 13	8.96	Sept. 19	9.20	Dec. 13	8.52

41-16-3. Louisville Water Co. River Road and Zorn Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 104 feet, screen at 98-100. Land-surface datum is 435.79 feet above msl. Highest water level 1.21 above lsd, Apr. 23, 1948; lowest 19.61 below lsd, Feb. 13, 1948. Records available: 1946-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e15.3	13.88	11.85	14.24	15.12	15.89	16.21	16.24	16.53	16.46	16.71	16.34
2	15.27	14.16	12.25	14.33	15.18	15.90	16.27	e16.3	16.52	16.44	16.74	16.30
3	15.18	14.19	12.59	14.34	15.19	15.90	16.26	e16.4	16.52	16.44	e16.8	16.26
4	15.05	14.10	12.93	14.28	15.20	16.02	16.25	e16.3	16.53	16.47	e16.7	16.22
5	14.89	13.33	13.17	14.19	15.27	16.14	16.24	e16.3	16.54	16.56	16.72	16.18
6	14.72	12.49	13.35	14.04	15.28	16.24	16.26	16.29	16.57	16.62	16.69	16.16
7	14.63	11.82	13.44	14.04	15.32	16.11	16.25	16.29	16.58	16.61	16.70	16.15
8	14.63	11.62	13.54	14.06	15.33	16.06	16.20	16.34	16.58	16.61	16.76	16.06
9	14.57	11.80	13.63	14.10	15.33	16.04	16.18	16.37	16.54	16.58	16.78	16.08
10	14.48	12.33	13.68	14.27	15.32	16.01	16.18	16.39	16.50	16.59	16.74	15.98
11	14.38	12.70	13.69	14.40	15.42	16.14	16.22	16.33	16.53	16.63	16.74	15.86
12	14.34	12.83	13.75	14.44	15.40	16.18	16.30	16.31	16.56	16.67	16.72	15.79
13	14.34	12.85	13.77	14.44	15.40	16.23	16.24	16.37	16.56	16.67	16.69	15.79
14	13.93	12.66	13.89	14.44	15.45	16.17	16.22	16.37	16.56	16.67	16.60	15.64
15	13.61	12.32	14.07	14.51	15.51	16.27	16.22	16.39	16.54	16.67	16.65	15.73
16	12.75	12.29	14.11	14.49	15.49	16.17	16.21	16.39	16.53	16.63	16.61	k15.8
17	11.78	12.61	14.13	14.41	15.49	16.11	16.17	16.39	16.51	16.64	16.60	15.87
18	10.95	12.75	13.81	14.32	15.55	16.07	16.23	16.37	16.45	16.64	16.58	15.73
19	10.12	12.90	13.84	14.36	15.53	16.07	16.25	16.39	16.47	16.61	16.60	15.73
20	9.55	12.95	13.77	14.52	15.51	16.04	16.25	16.41	16.46	16.60	16.64	15.75

41-16-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	9.57	12.57	13.61	14.53	15.52	16.07	16.26	16.43	16.46	16.59	16.79	15.69
22	9.94	11.81	13.36	14.65	15.58	16.03	16.28	16.43	16.46	16.64	16.75	15.69
23	10.91	11.29	13.13	14.78	15.62	16.01	16.26	16.44	16.49	16.62	16.69	15.64
24	11.72	10.94	13.13	14.84	15.70	16.20	16.27	16.46	16.47	16.60	16.57	15.57
25	12.19	10.67	13.19	14.91	15.73	16.24	16.21	16.51	16.50	16.61	16.61	15.48
26	12.56	10.53	13.42	14.99	15.75	16.27	16.21	16.53	16.52	16.60	16.62	15.35
27	12.86	10.62	13.63	15.05	15.72	16.30	16.30	16.53	16.56	16.56	16.52	15.25
28	13.14	11.02	13.80	15.02	15.75	16.28	16.29	16.49	16.57	16.54	16.51	15.14
29	13.32		13.94	15.03	15.79	16.19	16.27	16.49	16.54	16.61	16.52	15.14
30	13.55		14.03	15.07	15.82	16.17	16.33	16.53	16.50	16.66	16.53	15.23
31	13.69		14.15		15.82		16.27	16.54		16.66		15.31

e Estimated.

k Interpolated.

42-16-15. Louisville Water Co. West of Louisville Water Co. pumping station at Zorn Ave. and railroad. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 102 feet, screen at 96-98. Land-surface datum is 435.11 feet above msl. Highest water level 0.38 above lsd, Feb. 10, 1950; lowest 18.34 below lsd, Feb. 3, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 6	14.24	May 16	15.22	Aug. 1	15.56	Nov. 8	16.00
Apr. 10	14.37	June 26	15.87	Sept. 19	15.64	Dec. 17	15.44

43-15-1. City of Louisville. Letterle Ave. and Lloyd St., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 58 feet, cased to 58. Land-surface datum is 446.45 feet above msl. Highest water level 6.39 below lsd, Apr. 20, 1948; lowest 37.13 below lsd, Feb. 3, 1948. Records available: 1937-51.

Jan. 2	31.77	Apr. 2	30.34	July 9	32.88	Oct. 8	33.75
8	31.35	9	30.40	16	32.86	15	33.78
15	29.95	16	30.68	23	33.05	22	33.84
22	27.13	23	30.88	30	33.04	29	33.67
29	29.79	30	31.11	Aug. 6	33.10	Nov. 5	33.83
Feb. 5	30.35	May 7	31.50	13	33.20	12	33.76
12	29.85	14	31.60	20	33.38	19	33.73
19	30.00	21	31.78	27	33.52	26	33.65
26	28.03	28	32.02	Sept. 4	33.57	Dec. 3	33.60
Mar. 5	29.70	June 4	32.19	10	33.65	10	32.90
7	30.19	11	32.27	17	33.60	17	32.86
12	30.50	18	32.55	20	33.74	21	32.45
19	29.95	25	32.70	24	33.68	28	32.50
26	29.78	July 2	32.77	Oct. 1	33.63		

44-14-1. Southeastern Greyhound Lines. Caldwell and Floyd Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 90 feet. Land-surface datum is 456.96 feet above msl. Highest water level 61.25 below lsd, June 29, 1945; lowest 70.26 below lsd, Dec. 2, 1949. Records available: 1943-51. Mar. 1, 68.31; Apr. 11, 67.77; June 14, 67.10; Aug. 2, 67.17; Sept. 20, 67.92; Nov. 1, 68.46; Dec. 13, 68.67.

44-15-6. Ohio River Sand Co. 129 River Road, Louisville. Drilled unused artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 130 feet. Land-surface datum is 440.13 feet above msl. Highest water level 30.55 below lsd, Feb. 8, 1950; lowest 39.45 below lsd, Nov. 1, 1951. Records available: 1945-51.

Feb. 28	36.16	May 16	36.57	Aug. 1	37.10	Nov. 1	39.45
Apr. 12	36.84	June 26	36.97	Sept. 20	38.86	Dec. 17	38.89

45-14-1. City of Louisville. 4th and Guthrie Sts., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 120 feet, cased to 120. Land-surface datum is 461.23 feet above msl. Highest water level 21.15 below lsd, Feb. 17, 1937; lowest 86.09 below lsd, Aug. 31, 1949. Records available: 1937-51. Measurement discontinued.

Jan. 1	e75.6	Jan. 7	75.34	Jan. 13	75.05	Feb. 5	h74.16
2	75.55	8	75.27	14	74.96	12	h73.90
3	75.46	9	75.20	15	74.94	19	h73.85
4	75.53	10	75.16	22	h74.83	26	h73.65
5	75.46	11	75.13	29	h74.48	Mar. 1	h73.70
6	75.38	12	75.11				

e Estimated.

h Tape measurement.

45-14-2. City of Louisville. 4th and York Sts., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 115 feet, cased to 115. Land-surface datum is 453.42 feet above msl. Highest water level 12.32 below lsd, Feb. 14, 1937; lowest 74.89 below lsd, Sept. 10, 1949. Records available: 1937-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.37	68.26	67.36	66.50	66.23	68.18	70.45	71.92	72.77	72.51	71.45	69.29
2	69.33	68.2	67.31	66.46	66.35	68.24	70.53	71.96	72.82	72.48	71.35	69.23
3	69.25	68.2	67.26	66.47	66.50	68.33	70.59	72.03	72.84	72.47	71.25	69.17
4	69.24	68.1	67.24	66.45	66.61	68.49	70.62	72.07	e72.9	72.48	71.17	69.12
5	69.22	68.10	67.21	66.44	66.76	68.54	70.65	72.11	e72.9	72.48	71.07	69.07
6	69.17	68.09	67.15	66.41	66.86	68.62	70.69	72.16	e72.9	72.52	70.95	69.02
7	69.12	68.07	67.13	66.37	66.94	68.69	70.72	72.18	e72.9	72.57	70.88	68.99
8	69.05	68.05	67.10	66.35	66.95	68.74	70.75	72.19	e72.9	72.58	70.81	68.94
9	69.01	68.03	67.10	66.31	66.95	68.80	70.78	72.22	e72.9	72.54	70.73	68.97
10	68.98	67.98	67.10	66.30	66.94	68.87	70.81	72.28	72.92	72.51	70.66	68.90
11	68.96	67.93	67.07	66.29	66.94	68.97	70.85	72.31	72.87	72.44	70.58	68.83
12	68.93	67.84	67.02	66.26	66.95	68.99	70.94	72.36	72.90	72.40	70.48	68.79
13	68.86	67.80	66.99	66.24	66.95	69.05	71.00	72.38	72.94	72.35	70.38	68.77
14	68.81	67.79	66.96	66.23	66.95	69.11	71.07	72.43	72.97	72.32	70.31	68.70
15	68.75	67.76	66.94	66.21	66.97	69.15	71.12	72.47	72.97	72.24	70.26	68.69
16	68.73	67.72	66.92	66.16	66.98	69.23	71.18	72.49	72.97	72.18	70.20	k68.6
17	68.72	67.69	66.89	66.14	67.05	69.30	71.22	72.53	72.92	72.12	70.15	68.59
18	68.68	67.64	66.86	66.10	67.15	69.35	71.24	72.56	72.91	72.08	70.09	68.54
19	68.65	67.59	66.81	66.09	67.23	69.39	71.30	72.59	72.87	72.05	70.01	68.52
20	68.61	67.56	66.79	66.09	67.35	69.45	71.36	72.60	72.82	71.99	69.96	68.44
21	68.58	67.54	66.78	66.08	67.50	69.52	71.43	72.63	72.78	71.94	69.88	68.40
22	68.55	67.54	66.75	66.04	67.57	69.60	71.47	72.66	72.77	71.88	69.82	68.40
23	68.52	67.53	66.71	66.01	67.68	69.73	71.52	72.69	72.77	71.81	69.75	68.36
24	68.50	67.51	66.69	66.01	67.80	69.83	71.56	72.70	72.74	71.80	69.69	68.33
25	68.48	67.45	66.68	66.01	67.88	69.95	71.60	72.70	72.71	71.77	69.64	68.28
26	68.44	67.40	66.64	66.01	67.94	70.01	71.64	72.70	72.66	71.73	69.59	68.25
27	68.42	67.40	66.61	66.01	68.01	70.10	71.68	72.69	72.65	71.69	69.52	68.23
28	68.40	67.40	66.56	66.01	68.03	70.19	71.74	72.70	72.65	71.65	69.46	68.14
29	68.38		66.54	66.02	68.05	70.29	71.75	72.71	72.63	71.62	69.40	68.09
30	68.33		66.53	66.12	68.06	70.37	71.88	72.72	72.59	71.57	69.35	68.04
31	68.29		66.53		68.09		71.89	72.74		71.52		68.01

e Estimated.

k Interpolated.

45-15-4. City of Louisville. 5th and Jefferson Sts., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 109 feet, cased to 109. Land-surface datum is 461.55 feet above msl. Highest water level 19.78 below lsd, June 17, 1937; lowest 78.35 below lsd, Oct. 3, 1949. Records available: 1937-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	75.87	May 7	72.79	July 2	73.36	Sept. 24	76.20
29	75.22	14	72.62	9	73.56	Oct. 8	76.57
Feb. 21	74.53	21	72.79	16	73.72	22	76.77
Mar. 26	73.61	28	72.82	23	73.98	29	76.76
Apr. 2	73.44	June 4	72.87	30	74.25	Nov. 12	76.73
9	73.40	18	73.09	Aug. 2	74.37	Dec. 3	76.27
13	73.17	25	73.24	27	75.35	17	76.01
23	72.97	26	73.26	Sept. 10	75.84	28	75.79
30	72.84						

45-15-36. Kentucky Hotel. 5th and Walnut Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 104 feet, screen at 84-104. Land-surface datum is 460 feet above msl. Well is in sub-basement (top of casing 23.0 feet below lsd). Record of this well may be considered as extension of record of well 45-14-1 which was destroyed Mar. 5, 1951. Highest water level 70.64 below lsd, Nov. 18, 1951; lowest 84.80 below lsd, Aug. 29, 1949. Records available: 1948-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.95	71.10	72.26	75.16	78.48	80.85	82.08	80.33	77.62	74.87
2	71.89	71.01	72.66	75.44	78.44	80.93	82.02	80.49	77.45	74.79
3	71.85	70.99	73.00	75.55	78.60	81.05	81.84	80.65	77.26	74.69
4	71.92	70.97	73.16	75.61	78.63	81.11	81.76	80.80	77.13	74.83
5	71.80	70.97	73.24	75.68	78.57	80.95	81.86	80.93	76.96	74.72

45-15-36--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	71.78	70.98	73.20	75.77	78.62	80.89	81.98	81.04	76.78	74.71
7	71.89	70.98	72.96	75.90	78.75	80.96	82.05	80.98	76.68	74.75
8	h73.48	.....	71.85	70.96	72.84	76.01	78.70	81.07	81.99	80.58	76.56	74.75
9	71.83	70.91	72.88	76.11	78.68	81.22	81.83	80.29	76.46	74.68
10	71.74	70.88	72.99	76.12	78.81	81.43	81.82	80.03	76.35	74.51
11	71.67	70.84	73.10	76.16	78.98	81.42	81.85	79.87	76.30	74.41
12	71.55	70.78	72.86	76.27	79.11	81.25	81.92	79.66	76.17	74.34
13	71.48	70.76	72.78	76.37	79.24	81.18	82.01	79.53	76.11	74.29
14	71.42	70.76	72.82	76.52	79.35	81.42	81.93	79.39	76.08	74.20
15	71.40	70.77	73.20	76.62	79.35	81.48	81.86	79.15	76.04	74.19
16	71.38	70.72	73.48	76.73	79.34	81.57	81.71	79.06	75.97	74.09
17	71.35	70.68	73.73	76.75	79.56	81.67	81.54	79.15	75.85	73.97
18	71.31	70.64	73.97	76.79	79.66	81.77	81.52	79.16	75.73	73.87
19	71.26	70.74	74.28	76.95	79.78	81.62	81.47	79.19	75.60	73.81
20	72.10	71.23	70.73	74.43	77.12	79.94	81.59	81.47	78.99	75.47	73.68
21	72.17	71.21	70.79	74.48	77.34	80.00	81.63	81.52	78.81	75.38	73.87
22	h73.02	72.05	71.18	70.86	74.69	77.49	79.97	81.72	81.63	78.64	75.29	73.72
23	71.99	71.17	70.82	74.79	77.66	80.00	81.73	81.50	78.72	75.19	73.65
24	71.99	71.30	70.78	74.91	77.66	80.13	81.68	81.35	78.89	75.18	73.60
25	71.96	71.17	70.90	75.01	77.74	80.26	81.64	81.34	78.64	75.12	73.51
26	71.93	71.11	71.26	75.13	77.88	80.37	81.53	81.26	78.49	75.03	73.45
27	72.02	71.07	71.31	75.12	78.05	80.51	81.51	81.33	78.40	74.99	73.39
28	71.99	71.10	71.48	74.97	78.24	80.59	81.62	81.17	78.28	74.89	73.28
29	h72.72	.....	71.14	71.72	74.86	78.40	80.57	81.73	80.88	78.05	74.85	73.21
30	71.20	71.89	74.85	78.52	80.55	81.75	80.57	77.87	74.92	73.20
31	71.15	.....	74.96	.....	80.70	82.00	.....	77.81	.....	73.15

h Tape measurement.

46-11-2. Rubber Reserve Co. Taylor Blvd. and Hathaway St., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 60 feet, screen at 53-55. Land-surface datum is 458.66 feet above msl. Highest water level 45.70 below lsd, Sept. 26, 1950; lowest 52.25 below lsd, Mar. 1, 1945. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	46.56	May 8	46.12	July 13	45.96	Oct. 18	46.34
Mar. 30	46.46	June 6	45.94	Aug. 31	46.03	Dec. 10	46.78

46-14-1. American Tobacco Co. 17th St. and Broadway, Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 111 feet, screen at 102-111. Land-surface datum is 453.77 feet above msl. Highest water level 65.10 below lsd, Apr. 20, 1944; lowest 77.25 below lsd, Aug. 25, 1948. Records available: 1943-51. Feb. 27, 71.36; Mar. 30, 71.23; May 15, 70.97; June 12, 71.12; July 18, 70.80; Sept. 25, 70.54; Dec. 14, 69.15.

46-14-28. American Tobacco Co. 17th St. and Broadway, Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 12 inches, depth 113 feet, screen at 93-113. Land-surface datum is 456.09 feet above msl. Highest water level 71.72 below lsd, Dec. 14, 1951; lowest 75.70 below lsd, Nov. 8, 1950. Records available: 1945, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 27	73.88	May 15	73.32	July 18	73.25	Oct. 24	72.64
Mar. 30	73.57	June 12	73.55	Sept. 25	72.96	Dec. 14	71.72

47-12-1. City of Louisville. East of Dixie Highway at Ralph Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 96 feet, cased to 96. Land-surface datum is 462.93 feet above msl. Highest water level 34.54 below lsd, July 13, 1939; lowest 71.06 below lsd, Feb. 3, 1945. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	61.60	May 10	60.25	July 13	60.03	Oct. 19	59.95
Mar. 30	60.75	June 7	60.22	Sept. 7	60.05	Dec. 12	60.51

47-12-2. City of Louisville. West of Seventh Street Road, north of Yellowstone Inc. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 102 feet, cased to 102. Land-surface datum is 453.59 feet above msl. Highest water level 24.51 below lsd, July 13, 1939; lowest 59.63 below lsd, Feb. 19, 1945. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	50.40	May 11	49.58	July 13	49.05	Oct. 19	49.30
Mar. 30	49.88	June 6	49.52	Aug. 31	49.34	Dec. 10	49.70

47-12-3. City of Louisville. At west end of Weyler Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 97 feet, cased to 97. Land-surface datum is 448.60 feet above msl. Highest water level 18.69 below lsd, Mar. 8, 1937; lowest 52.19 below lsd, Feb. 19, 1945. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 16	43.35	May 9	42.85	July 13	42.65	Oct. 18	42.78
Mar. 30	43.15	June 6	42.78	Sept. 7	42.67	Dec. 10	43.19

47-12-4. Joseph E. Seagram & Sons Co. 7th Street Road at Wathens Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet. Land-surface datum is 458.64 feet above msl. Highest water level 56.31 below lsd, June 5, 1950; lowest 88.37 below lsd, Mar. 9, 1944. Records available: 1943-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.28	68.28	68.17	68.61	68.78	69.32	67.99	68.43	68.80	67.58	68.38	68.03
2	68.68	68.30	67.85	68.75	68.96	69.43	67.21	68.46	67.86	68.14	68.10	65.48
3	68.74	68.35	68.16	69.20	69.01	68.04	65.45	68.54	67.17	68.35	.....	66.67
4	68.96	66.92	66.95	69.34	69.06	68.80	.....	68.56	68.60	68.48	.....	67.15
5	69.06	67.55	67.29	69.44	69.12	69.17	.....	66.60	68.42	68.63	67.94	68.07
6	69.10	67.80	67.26	69.50	67.89	69.38	.....	68.26	68.42	68.73	67.89	68.44
7	67.41	67.88	67.26	69.55	68.55	69.48	.....	68.62	68.42	67.40	68.02	68.44
8	67.68	67.96	67.23	67.81	68.83	69.62	.....	68.83	68.44	67.68	68.05	68.60
9	68.17	68.03	67.27	69.25	69.00	69.67	66.09	68.96	66.84	67.78	68.10	65.83
10	68.35	68.02	67.79	69.27	69.02	67.55	67.03	68.58	67.85	67.82	68.42	66.83
11	67.69	67.17	66.52	69.33	69.05	68.85	68.23	69.03	68.06	68.04	66.12	67.43
12	68.34	67.47	67.66	69.38	69.23	69.21	68.12	67.62	68.12	67.93	67.17	68.04
13	69.35	67.71	68.56	69.13	67.83	69.11	68.26	68.93	68.53	67.56	68.39	67.78
14	67.00	67.80	69.02	69.46	68.53	69.48	66.16	69.01	68.68	67.11	68.30	67.90
15	67.86	67.83	68.37	68.27	68.86	69.63	66.60	69.08	68.79	67.71	68.13	67.68
16	68.81	67.82	68.67	68.65	68.98	65.71	67.69	65.13	67.78	67.92	68.17	65.39
17	69.17	67.83	68.74	68.89	69.12	68.04	68.20	69.19	68.05	68.03	68.13	65.55
18	69.12	66.85	67.37	68.91	69.12	69.03	68.48	65.24	68.23	68.15	66.28	66.68
19	68.90	67.26	68.58	69.03	69.57	69.26	68.60	67.64	68.28	68.03	67.02	67.11
20	68.88	67.57	68.99	69.19	68.07	69.16	68.71	68.38	68.24	68.43	67.53	67.92
21	67.81	68.34	69.24	69.25	68.77	69.43	68.80	68.58	68.23	67.13	67.84	68.52
22	68.04	67.89	69.44	67.81	69.26	69.58	67.04	68.61	68.50	67.63	66.68	69.00
23	68.31	67.97	69.60	68.49	69.46	69.63	67.97	68.54	67.78	67.68	67.60	65.89
24	68.42	67.80	69.69	68.84	69.60	68.32	68.48	68.57	67.88	67.91	68.22	66.66
25	68.47	67.11	68.06	68.95	69.58	68.91	68.64	68.58	68.07	67.92	65.80	64.67
26	68.49	67.36	69.12	69.13	69.68	69.27	68.71	67.50	68.12	68.00	67.02	66.65
27	68.52	67.43	69.42	69.17	68.16	69.43	68.80	68.33	66.17	68.03	67.40	68.03
28	67.26	67.97	69.59	69.20	68.83	69.38	68.93	68.62	68.22	67.13	67.58	68.53
29	67.83		69.72	67.76	69.27	69.19	67.53	68.73	68.18	67.38	67.68	68.90
30	68.11		69.85	68.37	66.98	69.09	68.16	68.56	66.32	67.83	67.85	65.81
31	68.24		69.90		68.47		68.23	69.13		67.59		67.11

47-12-14. National Distillers Products Corp. Old Grand Dad Plant, Bernheim Lane. Drilled observation water-table well in glacial sand and gravel, diameter 8 inches, depth 97 feet. Land-surface datum is 454.37 feet above msl. Highest water level 52.15 below lsd, June 1, 1950; lowest 79.4 below lsd, Sept. 20, 1943. Records available: 1941-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 23	59.46	May 11	59.58	July 13	58.92	Oct. 19	59.38
Mar. 30	59.74	June 8	59.65	Sept. 12	59.30	Dec. 12	59.22

47-14-10. National Distillers Products Corp. Old Sunnybrook Plant, 28th St. and Broadway, Louisville. Drilled unused artesian and water-table well in Louisville limestone, diameter 6 inches, depth 204 feet. Land-surface datum is 452.89 feet above msl. Highest water level 63.27 below lsd, Apr. 11, 1944; lowest 73.10 below lsd, Oct. 6, 1948. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 27	67.29	May 11	66.63	July 18	66.15	Dec. 13	65.66
Apr. 6	66.90	June 12	66.44	Oct. 24	65.98		

48-12-1. City of Louisville. East of Cane Run Road, south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 453.61 feet above msl. Highest water level 29.50 below lsd, Aug. 12, 1937; lowest 61.97 below lsd, Oct. 22, 1947. Records available: 1935-51.

48-12-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	57.44	May 10	56.38	July 13	57.01	Oct. 19	57.62
Mar. 29	56.63	June 6	56.78	Sept. 12	56.68	Dec. 12	57.99

48-12-2. City of Louisville. East of Tucker Ave., south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 465.95 feet above msl. Highest water level 41.36 below lsd, Sept. 9, 1937; lowest 73.30 below lsd, Oct. 22, 1947. Records available: 1935-51.

Feb. 8	68.89	May 10	67.55	July 13	67.77	Oct. 19	68.37
Mar. 29	67.90	June 7	67.70	Sept. 12	67.77	Dec. 12	68.99

48-14-1. City of Louisville. 38th St. and Greenwood Ave., Louisville. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 93 feet, cased to 93. Land-surface datum is 441.62 feet above msl. Highest water level 28.31 below lsd, Sept. 16, 1939; lowest 57.57 below lsd, Mar. 31, 1948. Records available: 1939-51.

Feb. 23	52.80	May 17	51.96	July 18	51.54	Oct. 24	51.94
Apr. 6	52.41	June 8	51.67	Sept. 7	51.71	Dec. 13	52.22

48-15-2. Klarer Provision Co. 210 Amy Ave., Louisville. Drilled unused artesian well in Louisville limestone, diameter 6 inches, depth 80 feet. Land-surface datum is 454.75 feet above msl. Highest water level 44.80 below lsd, July 18, 1951; lowest 48.22 below lsd, Mar. 31, 1948. Records available: 1948-51.

Feb. 23	45.66	May 17	44.93	July 18	44.80	Oct. 24	45.36
Apr. 6	45.27	June 8	44.85	Oct. 2	45.22	Dec. 13	45.70

49-10-1. T. W. Blackwell. Dixie Highway at Rockford Lane. Driven unused water-table well in glacial sand and gravel, diameter 2½ inches, depth 39 feet, screen at 37-39. Land-surface datum is 453.97 feet above msl. Highest water level 32.01 below lsd, July 12, 1951; lowest 39.05 below lsd, Mar. 24, 1948. Records available: 1944-51. July 12, 32.01; Dec. 6, 33.16.

49-13-22. Bond Bros. South of Bells Lane. Drilled unused water-table well in glacial sand and gravel, diameter 8 inches, depth 170 feet, screen at 74-114. Land-surface datum is 449.99 feet above msl. Highest water level 40 (reported by company) below lsd, 1933; lowest 81.26 below lsd, Feb. 9, 1945. Records available: 1933-38, 1942-51.

Feb. 15	66.55	June 8	65.32	Sept. 11	67.96	Oct. 17	68.80
Mar. 29	64.70	July 17	66.40	21	68.20	Dec. 13	68.84
May 10	64.89						

49-13-24. B. F. Goodrich Co. Bells Lane. Drilled observation water-table well in glacial sand and gravel, diameter 2 inches, depth 99 feet. Land-surface datum is 452.55 feet above msl. Highest water level 67.49 below lsd, June 16, 1949; lowest 95.00 below lsd, Feb. 9, 1945. Records available: 1943-51.

Feb. 15	73.39	May 17	73.08	Sept. 11	77.08	Oct. 17	77.94
Mar. 29	72.43	June 8	73.22	21	76.72	Dec. 13	77.46
May 10	72.94	July 17	75.75				

50-10-2. Rubber Reserve Co. Rockford Lane, west of Mills Creek. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 94 feet, screen at 90-92. Land-surface datum is 442.96 feet above msl. Highest water level 23.19 below lsd, June 23, 1951; lowest 29.82 below lsd, Mar. 16, 1948. Records available: 1945-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.18	24.95	24.60	24.03	23.57	23.34	23.27	23.30	23.48	23.63	23.88	24.06
2	25.16	24.97	24.52	24.00	23.55	23.33	23.29	23.30	23.51	23.61	23.88	24.07
3	25.06	24.89	24.51	24.00	23.52	23.33	23.25	23.30	23.52	23.62	23.8	24.07
4	25.26	24.89	24.51	23.99	23.51	23.36	23.24	23.34	23.53	23.65	23.9	24.10
5	25.16	24.91	24.51	23.96	23.52	23.35	23.30	23.34	23.52	23.67	23.91	24.03
6	25.19	24.83	24.47	23.94	23.50	23.33	23.29	23.34	23.53	23.67	23.82	24.07
7	25.20	24.99	24.52	23.88	23.52	23.31	23.27	23.31	23.56	23.70	23.88	24.12
8	25.21	24.90	24.51	23.89	23.50	23.32	23.25	23.31	23.55	23.72	23.92	24.09
9	25.16	24.90	24.49	23.90	23.49	23.32	23.25	23.34	23.53	23.71	23.92	24.16
10	25.12	24.85	24.44	23.9	23.45	23.32	23.26	23.37	23.52	23.72	23.92	24.09

50-10-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	25.24	24.83	24.42	e23.8	23.49	23.31	23.26	23.38	23.57	23.72	23.93	24.03
12	25.19	24.80	24.41	e23.7	23.47	23.31	23.26	e23.40	23.56	23.75	23.89	24.06
13	25.17	24.90	24.36	e23.8	23.49	23.32	23.26	23.37	23.57	23.75	23.87	24.13
14	24.87	24.80	24.39	e23.7	23.46	23.32	23.26	23.38	23.59	23.75	23.93	23.93
15	25.07	24.78	24.40	23.82	23.44	23.29	23.27	23.37	23.59	23.76	23.95	24.20
16	25.15	24.74	24.38	23.80	23.42	23.28	23.26	23.38	23.60	23.77	23.98	24.14
17	24.99	24.77	24.34	23.77	23.41	23.28	23.26	23.40	23.60	23.78	24.00	24.08
18	25.03	24.73	24.29	23.73	23.40	23.29	23.26	23.41	23.60	23.78	23.99	24.14
19	24.99	24.80	24.34	23.76	23.39	23.27	23.25	23.41	23.61	23.80	24.02	24.11
20	25.00	24.61	24.30	23.75	23.38	23.27	23.27	23.41	23.61	23.77	24.02	24.04
21	25.09	24.93	24.28	23.67	23.39	23.28	23.27	23.42	23.61	23.79	24.00	24.17
22	25.01	24.74	24.22	23.71	23.36	23.25	23.27	23.44	23.59	23.80	24.00	24.15
23	24.98	24.71	24.18	23.69	23.40	23.29	23.27	23.46	23.63	23.78	24.01	24.14
24	25.00	24.66	24.26	23.63	23.38	23.26	23.28	23.46	23.60	23.83	24.04	24.14
25	25.00	24.61	24.17	23.63	23.36	23.29	23.28	23.46	23.62	23.83	23.98	24.10
26	24.96	24.59	24.19	23.65	23.33	23.27	23.29	23.45	23.60	23.82	24.07	24.19
27	24.99	24.60	24.12	23.61	23.33	23.26	23.27	23.45	23.64	23.81	24.05	24.17
28	25.00	24.54	24.10	23.58	23.35	23.26	23.27	23.46	23.66	23.82	24.05	24.06
29	25.01		24.10	23.57	23.37	23.27	23.29	23.49	23.65	23.84	24.06	24.06
30	24.95		24.12	23.57	23.37	23.25	23.30	23.47	23.64	23.85	24.07	24.07
31	24.86		24.03		23.38		23.28	23.47		23.87		24.08

e Estimated.

50-12-16. Rubber Reserve Co. Kramers Lane and Camp Ground Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 112 feet, screen at 108-110. Land-surface datum is 445.58 feet above msl. Highest water level 49.14 below lsd, Mar. 21, 1950; lowest 64.47 below lsd, Mar. 23, 1945. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	56.36	May 9	52.56	July 17	54.89	Oct. 17	57.87
Mar. 28	54.42	June 6	53.47	Aug. 28	56.48	Dec. 6	58.78

50-13-58. National Carbide Corp. Bells Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 99 feet. Land-surface datum is 450.29 feet above msl. Record of well 50-13-9 in 1946-47 may be considered as part of record of this well (50-13-58). Highest water level 57.73 below lsd, May 3, 1948; lowest 77.74 below lsd, Dec. 13, 1951. Records available: 1945, 1947-51.

Feb. 15	70.02	July 17	72.83	Oct. 30	77.13	Dec. 3	77.12
Mar. 29	68.67	Aug. 30	75.74	Nov. 12	77.23	13	77.74
May 10	69.25	Oct. 17	76.62	19	77.47	28	76.97
June 8	69.55	22	77.10	26	77.48		

51-10-1. Rubber Reserve Co. Rockford Lane, east of Cane Run Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 64 feet, screen at 60-62. Land-surface datum is 444.18 feet above msl. Highest water level 29.17 below lsd, July 12, 1951; lowest 35.29 below lsd, Mar. 24, 1948. Records available: 1945-51.

Feb. 7	31.00	May 9	29.67	July 12	29.17	Oct. 16	29.63
Mar. 27	30.27	June 6	29.40	Aug. 17	29.25	Dec. 6	30.09

51-13-1. Rubber Reserve Co. Camp Ground Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 107 feet, screen at 103-105. Land-surface datum is 440.20 feet above msl. Highest water level 22.66 below lsd, Apr. 21, 1948; lowest 58.83 below lsd, Oct. 17, 1951. Records available: 1945-51.

Feb. 13	38.16	Apr. 12	39.38	July 17	56.17	Sept. 12	58.52
15	37.10	May 11	44.31	Aug. 15	57.19	Oct. 17	58.83
Mar. 29	38.98	June 7	54.97	28	57.22	Dec. 12	48.27

52-7-2. Rubber Reserve Co. Johnstontown Road, west of Dixie Highway. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen at 99-101. Land-surface datum is 449.91 feet above msl. Highest water level 33.25 below lsd, July 31, 1951; lowest 41.01 below lsd, Mar. 23, 1948. Records available: 1945-51.

Feb. 6	35.58	June 5	33.51	July 31	33.25	Oct. 16	33.80
Mar. 27	34.86	July 10	33.26	Aug. 14	33.50	Dec. 5	34.27
May 8	33.95						

52-11-3. Rubber Reserve Co. Ohio River bank at Lees Lane. Drilled observation artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 96 feet, screen at 92-94. Land-surface datum is 428.45 feet above msl. Highest water level 14.74 below lsd, Apr. 26, 1948; lowest 56.36 below lsd, Nov. 14, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	21.80	May 8	23.28	July 12	31.50	Oct. 16	35.32
15	21.45	June 5	29.54	Aug. 15	33.57	Dec. 6	33.83
Mar. 28	20.33						

52-11-5. Rubber Reserve Co. West end of Lees Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 117 feet, screen at 113-115. Land-surface datum is 450.40 feet above msl. Highest water level 39.84 below lsd, Apr. 24, 1948; lowest 63.71 below lsd, Nov. 11, 1945. Records available: 1944-51.

Feb. 7	44.67	May 8	45.00	July 12	52.73	Oct. 16	56.48
Mar. 28	42.86	June 5	50.74	Aug. 15	54.71	Dec. 6	55.60

52-11-7. Rubber Reserve Co. West end of Lees Lane. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 115 feet, screen at 111-113. Land-surface datum is 450.80 feet above msl. Highest water level 42.50 below lsd, Mar. 17, 1945; lowest 59.77 below lsd, Nov. 17, 1945. Records available: 1945-51.

Feb. 7	45.25	May 8	44.87	July 12	51.29	Oct. 16	55.35
Mar. 28	43.28	June 5	49.13	Aug. 15	53.32	Dec. 6	55.01

52-11-21. Rubber Reserve Co. Lees Lane and Camp Ground Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen at 99-101. Land-surface datum is 435.82 feet above msl. Highest water level 28.36 below lsd, May 9, 1951; lowest 37.96 below lsd, Feb. 20, 1948. Records available: 1945-51.

Feb. 9	31.79	May 9	28.36	July 12	30.03	Oct. 16	32.90
Mar. 28	29.07	June 5	28.78	Aug. 15	31.10	Dec. 6	33.99

52-12-2. Rubber Reserve Co. Bramer Lane at Ohio River. Drilled observation artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 101 feet, screen at 97-99. Land-surface datum is 434.30 feet above msl. Highest water level 21.49 below lsd, Apr. 24, 1948; lowest 48.78 below lsd, Feb. 8, 1948. Records available: 1945-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.18	31.77	26.30	29.06	34.25	42.64	43.40	45.52	46.32	46.80	47.04	41.07
2	43.40	31.91	26.83	29.01	34.52	42.32	43.42	45.56	46.37	46.80	47.02	41.22
3	43.32	31.19	27.47	28.62	34.58	42.30	43.05	45.60	46.42	46.82	47.00	41.59
4	40.94	30.16	28.31	27.96	33.95	43.06	42.63	45.70	46.39	46.87	46.99	42.56
5	38.60	29.37	28.42	27.47	33.15	43.26	42.34	45.72	46.42	46.87	46.98	43.11
6	37.12	28.33	28.32	26.95	32.38	43.46	42.18	45.78	46.44	46.87	47.02	43.56
7	36.25	28.11	28.18	26.53	31.98	43.39	42.64	45.80	46.50	46.79	46.99	43.60
8	35.48	27.80	27.98	26.67	32.03	43.19	43.28	45.78	46.49	46.83	47.07	42.94
9	34.77	27.85	27.86	26.87	32.55	43.17	43.59	45.91	46.49	46.80	46.91	41.84
10	34.20	27.98	k27.6	27.30	33.23	43.42	43.77	45.94	46.39	46.85	46.93	40.36
11	33.98	28.14	k27.4	27.75	34.46	43.60	44.20	45.89	46.43	46.88	46.99	39.04
12	33.61	28.48	27.27	27.98	35.36	43.72	44.44	45.82	46.47	46.93	47.02	38.34
13	33.53	28.47	27.30	27.87	36.37	43.56	44.49	45.94	46.50	46.95	46.92	38.04
14	33.08	28.15	27.75	27.82	35.95	42.69	44.57	45.96	46.54	46.96	46.82	37.72
15	32.21	27.59	28.24	27.79	37.12	41.66	44.69	46.00	46.47	46.92	46.55	38.06
16	31.34	27.32	28.47	27.60	36.84	41.01	44.77	46.07	46.57	46.87	46.77	....
17	30.09	27.53	28.47	27.42	37.03	39.78	44.79	46.02	46.54	46.85	46.47	37.52
18	29.49	27.47	27.77	27.11	37.44	38.59	44.92	46.02	46.50	46.90	46.35	37.37
19	28.86	27.52	27.22	27.30	38.30	37.68	45.04	46.10	46.57	46.96	46.18	37.22
20	28.41	27.32	26.84	27.67	39.11	37.35	45.11	46.09	46.60	46.91	46.62	37.24
21	28.61	27.36	26.52	28.02	39.94	37.58	45.17	46.14	46.61	46.92	46.72	37.57
22	28.52	26.78	26.18	28.95	40.84	38.63	45.23	46.15	46.60	46.96	46.80	37.22
23	28.87	26.24	25.80	29.96	41.71	40.19	45.22	46.21	46.65	46.97	46.87	36.79
24	29.65	25.87	26.09	31.07	41.70	42.14	45.22	46.24	46.64	46.91	46.34	36.41
25	30.21	25.52	25.95	32.46	41.98	42.76	45.22	46.27	46.71	46.97	45.20	35.74
26	30.61	25.41	26.45	33.53	41.99	42.84	45.25	46.30	46.71	46.94	44.60	35.49
27	30.96	25.62	26.75	33.90	42.02	43.21	45.27	46.36	46.77	46.97	43.64	35.10
28	31.55	25.70	27.41	33.91	42.19	43.45	45.33	46.28	46.80	46.99	42.63	34.82
29	31.87		28.07	33.75	42.83	43.55	45.38	46.32	46.77	46.97	41.76	35.12
30	31.87		28.66	33.92	42.79	43.51	45.51	46.38	46.77	46.99	41.22	35.48
31	31.72		28.91		42.81		45.42	46.39		47.02		35.77

k Interpolated.

53-6-1. Rubber Reserve Co. Bethany Lane, east of Lower River Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 92 feet, screen at 88-90. Land-surface datum is 433.89 feet above msl. Highest water level 23.96 below lsd, May 4, 1951; lowest 34.67 below lsd, Feb. 14, 1948. Records available: 1945-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.77	27.64	26.47	24.89	24.22	24.63	25.69	26.75	27.72	28.57	29.28	29.78
2	28.70	e28.0	26.45	24.94	24.21	24.64	25.76	26.78	27.77	28.58	29.25	29.78
3	28.51	e27.9	26.36	24.97	24.06	24.66	25.76	26.80	27.82	28.60	29.31	29.78
4	28.77	e27.6	26.40	24.94	23.99	24.73	25.75	26.87	27.87	28.64	29.36	29.72
5	28.95	27.69	26.38	25.00	24.09	24.78	25.87	26.91	27.88	28.67	29.41	29.68
6	28.76	27.43	26.20	24.85	24.22	24.79	25.89	26.91	27.90	28.70	29.33	29.77
7	28.67	27.58	26.01	24.54	24.32	24.77	25.89	26.91	27.95	28.72	29.36	29.87
8	28.68	27.78	26.07	24.54	24.26	24.82	25.90	26.95	27.98	28.78	29.46	29.98
9	28.65	27.64	26.29	24.59	24.18	24.86	25.93	e27.0	27.98	28.79	29.47	29.87
10	28.54	27.55	26.20	24.65	24.02	24.93	26.00	e27.0	27.95	28.81	29.47	29.89
11	28.53	27.28	25.91	24.56	24.08	24.97	26.01	e27.1	28.07	28.82	29.49	29.55
12	28.66	27.09	25.58	24.40	24.23	24.99	26.04	e27.1	28.08	28.86	29.45	29.58
13	28.57	27.11	25.30	24.39	24.31	25.05	26.08	27.19	28.09	28.85	29.45	29.81
14	27.90	27.42	25.31	24.51	24.36	25.11	26.11	27.21	28.15	28.91	29.52	29.49
15	27.92	27.29	25.49	24.55	24.34	25.12	26.15	e27.2	28.17	28.91	29.58	29.72
16	28.43	26.83	25.65	24.67	24.23	25.14	26.18	e27.3	28.19	28.95	29.61	29.73
17	28.14	26.89	25.68	24.69	e24.1	25.19	26.21	e27.3	28.21	28.97	29.65	29.73
18	28.16	26.82	25.46	24.41	e24.2	25.25	26.23	e27.3	28.24	28.99	29.65	29.37
19	28.22	26.67	25.62	24.34	e24.2	25.28	26.25	e27.4	28.28	29.03	29.68	29.70
20	28.16	26.52	25.64	24.55	e24.2	25.29	26.32	27.40	28.30	29.01	29.69	29.38
21	28.56	26.45	25.44	24.34	24.24	25.36	26.33	27.42	28.32	29.04	29.67	29.45
22	28.40	26.88	25.43	24.24	24.27	25.36	26.35	27.47	28.32	29.08	29.69	29.79
23	28.11	26.88	25.01	24.51	24.33	25.43	26.40	27.52	28.40	29.09	29.68	29.69
24	28.12	26.74	25.30	24.26	24.38	25.48	26.47	27.53	28.41	29.14	29.77	29.76
25	28.16	26.43	25.33	24.14	24.38	25.53	26.51	27.55	28.42	29.19	29.70	29.43
26	28.17	26.33	25.41	24.23	24.31	25.51	26.56	27.56	28.43	29.18	29.71	29.63
27	27.85	26.50	25.09	24.27	24.38	25.55	26.58	27.57	28.47	29.17	29.75	29.79
28	28.01	26.49	24.84	24.16	24.44	25.59	26.61	27.62	28.55	29.19	29.74	29.21
29	28.24		24.73	24.07	24.53	25.62	26.66	27.66	28.56	29.23	29.78	29.11
30	28.22		24.79	24.13	24.59	25.63	26.69	27.67	28.55	29.24	29.78	29.12
31	27.73		25.04		24.63		26.72	27.69		29.27		29.25

e Estimated.

53-10-1. Louisville Gas & Electric Co. Formerly W. E. Miller. Cane Run and Lower River Roads. Dug and driven unused water-table well in glacial sand and gravel, diameter 48 to 2 inches, depth 56 feet, screen at 54-56. Land-surface datum is 438.72 feet above msl. Maximum reflects local surface seepage. Highest water level 22.14 below lsd, Apr. 19, 1948; lowest 46.42 below lsd, Feb. 5, 1948. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	32.14	May 28	36.12	July 12	39.42	Oct. 16	43.27
Mar. 28	29.58	June 5	37.73	Aug. 14	41.56	Dec. 6	41.82
May 8	36.14						

Johnson County

8245-3745-92. E. P. Welch. Lat. 37°48', long. 82°46'. Drilled domestic water-table well in alluvial sand, diameter 18 inches, depth 57 feet, tile casing reported to 62, unscreened. Highest water level 37.13 below lsd, Feb. 5, 1950; lowest 49.43 below lsd, Aug. 27, 1951. Records available: 1949-51.

Jan. 2	46.95	Apr. 9	43.51	July 16	48.35	Oct. 22	49.38
15	45.24	23	44.94	30	48.35	Nov. 5	47.39
31	44.38	May 7	42.47	Aug. 13	48.83	19	46.52
Feb. 12	42.25	21	46.44	27	49.43	Dec. 3	46.40
26	42.99	June 4	47.01	Sept. 10	48.70	17	40.11
Mar. 14	43.85	18	46.38	24	48.88	31	44.32
27	43.63	July 2	47.46	Oct. 8	49.12		

8245-3745-93. Albert Skauge. Lat. 37°48', long. 82°46'. Drilled unused water-table well in alluvial sand, diameter 6 inches, depth 79 feet, casing reported to 82, unscreened. Land-surface datum is about 619 feet above msl. Highest water level 32.84 below lsd, Feb. 6, 1950; lowest 46.95 below lsd, Oct. 29, 1951. Records available: 1949-51.

8245-3745-93--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.28	43.12	43.70	45.20	46.03	46.84	46.13	46.65	42.95
2	h44.15	.....	.....	39.62	42.87	43.93	44.94	46.06	46.78	46.25	45.35	43.25
3	39.70	42.20	44.14	44.90	46.13	46.73	46.35	44.81	43.46
4	38.23	.....	44.25	45.02	46.28	46.50	46.42	44.94	43.54
5	38.28	.....	43.80	45.28	46.15	46.36	46.47	44.95	43.61
6	38.98	.....	42.48	45.30	46.29	46.40	46.50	44.71	43.79
7	39.62	39.85	42.20	45.17	46.27	46.41	46.55	44.85	43.57
8	40.32	39.36	42.53	45.28	46.38	46.33	46.55	44.70	42.64
9	40.68	39.26	42.66	45.40	46.45	46.18	46.52	44.45	.....
10	41.05	39.90	42.77	45.55	46.45	46.09	46.48	44.41	.....
11	41.26	40.50	42.47	45.62	46.39	46.25	46.48	.....	39.92
12	h38.39	.....	41.27	41.16	42.48	45.69	46.11	46.21	46.55	.....	40.87
13	40.62	41.58	42.85	45.77	46.25	46.30	46.55	44.73	41.58
14	h41.15	39.36	41.94	42.97	45.71	46.38	46.36	46.57	44.95	41.51
15	h42.88	.....	.....	.....	42.24	42.96	45.77	46.44	45.61	46.58	44.74	40.21
16	40.05	42.47	43.13	45.75	46.42	45.51	46.60	44.66	35.65
17	40.54	42.77	43.37	45.67	46.52	45.52	46.66	.....	.....
18	40.60	43.08	43.60	45.59	46.56	45.64	46.67	.....	38.97
19	40.86	43.32	43.77	45.69	46.60	45.77	46.74	43.82	39.93
20	41.35	43.43	43.98	45.89	46.60	45.92	46.69	44.03	39.66
21	41.45	43.67	44.19	45.92	46.63	46.00	46.82	44.10	38.36
22	41.80	43.76	44.28	45.98	46.74	46.05	46.81	44.27	35.95
23	42.25	43.97	44.52	46.06	46.77	46.28	46.77	44.43	35.72
24	42.20	43.96	44.67	46.14	46.75	46.23	46.94	44.69	38.12
25	42.45	43.85	44.80	45.96	46.77	46.24	46.88	43.75	39.21
26	h39.91	.....	42.62	43.78	44.89	46.06	46.80	46.07	46.83	42.50	40.17
27	h40.68	42.88	43.94	45.06	45.50	46.85	46.06	46.80	41.72	40.45
28	42.94	44.10	45.16	45.61	46.78	46.06	46.84	41.78	40.33
29	43.00	44.07	45.28	45.73	46.76	46.97	46.87	42.38	40.66
30	43.10	43.88	45.27	45.76	46.80	46.03	46.83	42.68	41.02
31	h41.59	.....	40.76	43.62	.....	45.85	46.81	.....	46.86	.....	41.38	.....

h Tape measurement.

8245-3745-94. John Davis. Lat. 37°48', long. 82°46'. Dug domestic water-table well in alluvial silt and clay, diameter 18 inches, depth 22 feet, tile casing to 22. Highest water level 7.20 below lsd, Jan. 15, 1951; lowest 16.27 below lsd, Nov. 2, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	11.19	Apr. 9	8.87	July 16	14.26	Oct. 22	14.96
15	7.20	23	9.74	30	14.17	Nov. 5	15.04
31	8.45	May 7	7.34	Aug. 13	14.44	19	13.84
Feb. 12	8.63	21	11.39	27	15.62	Dec. 3	12.42
26	8.62	June 4	12.14	Sept. 10	14.55	17	9.06
Mar. 14	7.92	18	11.92	24	14.51	31	9.49
27	8.85	July 2	12.63	Oct. 8	15.54		

8245-3745-155. Mrs. Lucy Hall. Lat. 37°49', long. 82°47'. Drilled domestic water-table well in shale and sandstone of Breathitt formation, diameter 6 inches, reported depth 96 feet. Highest water level 46.13 below lsd, Apr. 23, 1951; lowest 53.97 below lsd, Nov. 5, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	48.44	Apr. 9	46.57	July 16	50.52	Oct. 22	53.31
15	48.59	23	46.13	30	51.83	Nov. 5	53.97
31	49.06	May 7	47.33	Aug. 13	52.72	19	52.60
Feb. 12	47.24	21	48.54	27	51.83	Dec. 3	52.45
26	46.96	June 4	48.99	Sept. 10	52.56	17	53.09
Mar. 14	46.58	18	49.24	24	52.05	31	49.71
27	46.84	July 2	50.85	Oct. 8	52.25		

8250-3750-11. Mayford E. Estep. Lat. 37°52', long. 82°52'. Drilled unused water-table well in sandstone of Lee formation, diameter 6 inches, reported depth 72 feet. Highest water level 41.51 below lsd, Apr. 9, 1951; lowest 45.22 below lsd, Dec. 6, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	43.15	Feb. 26	41.83	Apr. 23	42.42	June 18	42.14
15	42.43	Mar. 14	41.57	May 7	42.04	July 2	42.91
31	42.48	27	41.89	22	42.09	16	43.37
Feb. 12	42.20	Apr. 9	41.51	June 4	42.61	30	43.93

84250-3750-11--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 13	44.27	Sept. 24	44.44	Nov. 5	44.72	Dec. 17	43.41
27	44.37	Oct. 8	44.57	19	44.05	31	42.81
Sept. 10	44.27	22	44.79	Dec. 3	43.51		

Kenton County

8430-3900-17. C. J. Harris. Formerly B. H. Buckshorn. Lat. 39°00', long. 84°33'. Dug domestic water-table well in shaly limestone of Maysville group, diameter 5 feet, depth 35 feet. Land-surface datum is 840 feet above msl. Highest water level 21.15 below lsd, Dec. 21, 1951; lowest 30.41 below lsd, Sept. 15, 1951. Records available: 1950-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h25.60	.....	26.37	28.03	29.63	29.97	30.25	30.34	30.10	26.08
2	26.39	28.04	29.65	29.97	30.25	30.31	30.10	26.18
3	26.38	28.07	29.70	29.96	30.26	30.28	30.10	26.24
4	26.39	28.10	29.64	.....	30.30	30.26	30.04	25.50
5	26.45	28.17	29.64	.....	30.32	30.26	30.05	24.85
6	25.57	26.57	28.25	29.67	.....	30.33	30.27	30.06	24.57
7	25.74	26.66	28.33	29.69	.....	30.32	30.27	29.03	24.01
8	25.85	26.72	28.35	29.70	.....	30.34	30.29	28.95	23.82
9	25.47	25.95	26.77	28.37	29.70	.....	30.34	30.31	28.97	22.00
10	25.86	26.04	26.81	28.43	29.70	.....	30.34	30.33	28.95	22.10
11	26.07	26.14	26.80	28.50	29.98	30.03	30.34	30.34	28.94	22.24
12	26.19	25.12	26.88	28.59	29.95	30.05	30.35	30.32	28.93	22.69
13	26.18	24.45	26.99	28.65	29.96	30.07	30.37	30.35	28.87	23.28
14	26.14	23.67	27.14	28.73	29.95	30.08	30.39	30.36	27.50	23.48
15	25.98	23.52	27.25	.....	29.93	30.06	30.41	30.36	27.09	23.02
16	25.78	24.12	27.33	28.74	29.92	30.07	30.41	30.35	26.74	23.34
17	25.43	24.75	27.37	28.80	29.90	30.06	30.41	30.35	26.43	23.73
18	23.61	25.17	27.44	28.87	29.89	30.06	30.40	30.35	26.24	23.88
19	23.55	25.53	27.51	28.94	29.87	30.09	30.40	30.35	26.21	24.70
20	23.52	26.02	27.57	28.98	29.87	30.10	30.40	30.36	26.29	24.95
21	23.28	26.26	27.65	29.06	29.86	30.11	30.38	30.35	26.35	21.31
22	h22.36	23.70	26.23	27.76	29.12	29.88	30.14	30.38	30.35	26.40	22.71
23	23.93	26.14	27.81	29.18	29.88	30.17	30.37	30.36	26.35	23.35
24	24.09	25.99	27.87	29.25	29.88	30.21	30.37	30.19	25.40	23.72
25	24.26	25.95	27.94	29.47	29.87	30.24	30.36	30.17	25.17	23.60
26	24.67	26.15	27.97	29.48	29.88	30.24	30.36	30.19	24.74	22.88
27	24.90	26.26	27.90	29.52	29.99	30.24	30.34	30.17	24.89	23.52
28	24.67	26.27	27.87	29.56	29.97	30.23	30.31	30.12	25.17	23.66
29	24.05	26.29	27.88	29.59	29.97	30.24	30.34	30.11	25.60	24.05
30	26.33	27.94	29.60	29.96	30.26	30.35	30.10	25.91	24.40
31	27.99	.....	29.96	30.27	.....	30.10	.....	24.54

h Tape measurement.

8430-3900-80. Summe & Ratterman. 224 East 20th St., Covington. Drilled unused water-table well in alluvium, diameter 6 inches, depth 150 feet. Land-surface datum is 520 feet above msl. Highest water level 38.63 below lsd, May 25, 1951; lowest 41.58 below lsd, Aug. 11, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	39.94	Apr. 26	38.83	July 20	38.81	Oct. 12	39.42
Feb. 27	39.47	May 10	38.70	Aug. 3	38.63	26	39.54
Mar. 1	39.59	25	38.63	17	38.69	Nov. 9	39.72
15	39.29	June 18	38.73	31	38.72	23	39.75
30	39.04	29	38.79	Sept. 14	38.76	Dec. 7	39.69
Apr. 12	38.83	July 6	38.88	28	39.18	21	39.45

8430-3905-15. City Ice and Fuel Co. Second and Scott Sts., Covington. Drilled unused water-table well in sand and gravel, diameter 36 inches, depth 86 feet. Land-surface datum is 490.9 feet above msl. Highest water level 27.23 below lsd, Dec. 12, 1950; lowest 54.37 below lsd, Sept. 23, 1951. Records available: 1950-51.

8430-3905-15--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h29.83	32.81	38.98	46.77	48.53	51.91	53.82	52.25	50.48	45.03
2	32.13	39.21	46.67	48.38	51.99	53.86	52.10	50.43	45.16
3	31.10	39.04	47.00	48.07	52.04	53.90	51.99	50.37	45.65
4	30.32	38.46	47.58	47.62	52.17	53.93	51.91	50.35	46.76
5	29.92	37.98	47.90	47.68	52.25	53.94	51.85	50.39	47.11
6	39.61	37.79	47.96	47.85	52.29	53.96	51.76	50.18	47.20
7	29.55	37.90	47.99	48.28	52.34	54.04	51.55	50.06	47.17
8	30.67	29.78	38.27	47.96	48.56	52.45	54.04	51.54	46.66
9	30.67	30.36	38.78	47.89	48.70	52.55	54.03	51.52	46.73
10	30.45	31.25	39.34	48.23	49.03	52.64	54.02	51.40	44.12
11	30.23	31.82	40.10	48.39	49.34	52.70	54.12	51.30	42.48
12	30.24	31.72	40.85	48.41	49.57	52.78	54.15	51.25	41.60
13	30.53	31.52	40.40	47.86	49.78	52.87	54.14	51.18	41.31
14	31.17	31.58	41.57	47.27	.....	52.94	54.24	51.07	41.11
15	31.64	31.33	41.45	46.82	.....	53.00	54.26	50.98	.....
16	32.01	31.10	41.42	46.14	50.23	53.04	54.25	50.94	49.84
17	32.15	31.81	41.67	45.15	50.40	53.10	54.23	50.90	49.85
18	31.92	32.58	42.27	44.33	50.52	53.15	54.23	50.85	49.68
19	31.45	33.10	42.90	43.92	50.66	53.22	54.28	50.81	49.57
20	31.11	33.97	43.44	43.97	50.82	53.27	54.30	50.76	49.55
21	30.35	34.70	44.20	44.42	50.94	53.31	54.31	50.73	49.50
22	h30.58	h29.37	.....	29.80	35.47	45.11	45.10	51.03	53.41	54.30	50.73	49.40
23	29.20	36.43	45.63	46.53	51.14	53.48	54.37	50.69	49.40
24	29.43	37.07	45.84	47.12	51.22	53.54	54.02	50.56	49.36
25	29.67	37.69	45.88	47.44	51.29	53.56	53.80	50.67	48.77
26	30.35	38.19	45.74	47.74	51.41	53.55	53.34	50.60	48.33
27	31.16	38.34	45.94	47.95	51.48	53.57	53.03	50.56	47.45
28	31.84	38.29	46.53	48.21	51.55	53.65	52.84	50.52	36.85
29	32.23	38.34	46.89	48.47	51.66	53.71	52.62	50.58	37.13
30	32.68	38.60	47.02	48.52	51.76	53.77	52.40	50.52	37.46
31	33.07	.....	47.02	.....	51.82	53.80	50.54	.....	37.74

h Tape measurement.

Laurel County

8400-3705-40. J. R. Hale. Formerly London Utilities Co. London. Lat. 37°07', long. 84°04'. Drilled unused water-table well in sandstone of Lee formation, diameter 12 inches, reported depth 400 feet. Highest water level 50.60 below lsd, Dec. 30, 1951; lowest 225± below lsd, Oct. 22, 1947. Records available: 1947, 1950-51. Oct. 22, 1947, 225±; May 4, 1950, 54.34.

Daily noon water level from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.62	53.22	53.36	53.13	53.09	51.76
2	53.78	53.14	53.28	53.10	52.89	51.79
3	53.86	53.08	54.21	52.98	52.60	51.76
4	53.67	53.17	54.27	53.00	52.88	51.48
5	53.85	53.20	54.28	53.02	53.09	51.47
6	53.57	53.31	54.19	53.07	52.87	51.46
7	53.31	53.14	53.95	53.16	52.67	51.49
8	53.19	53.05	54.64	53.42	52.74	51.53
9	53.13	53.06	54.04	53.44	52.73	51.38
10	53.09	53.12	53.90	53.42	52.67	51.47
11	53.07	53.16	53.91	53.36	52.58	51.27
12	53.09	53.30	53.73	53.50	52.54	51.12
13	53.08	53.29	53.54	53.42	52.26	51.30
14	53.02	53.43	53.46	53.37	52.17	51.08
15	53.02	53.26	53.44	53.37	52.21	.....
16	53.04	53.13	53.36	53.30	52.17	.....
17	53.13	53.29	53.41	53.25	52.26	.....
18	53.05	53.26	53.39	53.28	52.31	.....
19	53.05	53.34	53.31	53.23	52.35	.....
20	53.06	53.39	53.35	53.15	52.41	.....
21	53.08	53.34	53.32	53.17	52.35	.....
22	52.97	53.34	53.12	53.30	52.24	.....
23	53.14	53.28	53.27	53.28	52.10	.....
24	53.06	53.26	53.33	53.30	52.01	51.12
25	53.05	53.31	53.22	53.34	51.95	50.95

8400-3705-40--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	52.48	53.53	53.01	53.25	53.15	53.18	51.85	51.07
27	52.47	53.51	52.95	53.67	53.13	53.14	51.92	51.21
28	52.58	53.52	52.95	53.48	53.41	53.01	51.83	50.91
29	52.72	53.57	53.07	53.44	53.28	53.17	51.87	50.71
30	52.73	53.58	53.28	53.48	53.09	53.24	51.83	50.60
31	52.96		53.16	53.38		53.13		50.72

* No record for January, February, March, and April.

McCracken County

8830-3655-129. Jack Reid. Lat. 36°58', long. 88°32'. Dug unused artesian well in sand, diameter 24 inches, depth 36 feet. Land-surface datum is 337.97 feet above msl. Highest water level 12.55 below lsd, Feb. 26, 1951; lowest 27.02 below lsd, Oct. 30, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	14.87	Apr. 9	13.21	July 24	21.01	Oct. 2	26.36
30	16.00	23	13.90	Aug. 7	23.61	16	26.93
Feb. 12	14.16	May 14	18.00	21	25.36	30	27.02
26	12.55	June 4	22.21	Sept. 4	25.74	Nov. 13	26.76
Mar. 12	13.23	26	23.17	18	26.01	Dec. 11	18.84
26	14.18	July 10	20.99				

8830-3700-87. Ashland Oil & Refining Co. Lat. 37°01', long. 88°31'. Drilled unused artesian well in sand of Ripley formation, diameter 5 inches, depth 227 feet. Land-surface datum is 384.47 feet above msl. Highest water level 62.15 below lsd, Dec. 31, 1951; lowest 76.69 below lsd, Nov. 8, 1951. Records available: 1951.

Daily noon water level from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	75.30	73.36	71.06	75.98	76.59	76.40	72.70
2	.....	74.87	72.90	71.85	75.96	76.40	76.42	72.56
3	.....	74.85	72.53	72.85	76.09	76.47	76.50	72.50
4	.....	74.60	72.11	74.13	76.27	76.51	76.46	72.18
5	.....	75.32	71.82	74.72	76.17	76.58	76.45	71.70
6	.....	75.62	71.49	74.62	76.06	76.60	76.55	71.46
7	.....	74.93	71.20	74.77	76.10	76.53	76.60	71.16
8	.....	74.95	71.07	74.81	76.13	76.51	76.69	70.95
9	.....	75.03	71.02	75.01	76.30	76.57	76.53	68.85
10	.....	75.20	70.84	75.20	76.25	76.59	76.55	68.85
11	.....	75.22	70.70	75.27	76.30	76.54	76.57	68.18
12	.....	75.33	70.70	75.35	76.45	76.51	76.55	67.48
13	.....	75.33	70.73	75.35	76.20	76.65	76.46	66.87
14	.....	75.30	70.78	75.40	76.25	76.53	76.40	66.39
15	.....	75.25	70.71	75.52	76.25	76.55	76.42	65.82
16	.....	75.13	70.57	75.66	76.30	76.58	76.53	65.29
17	.....	75.05	70.42	75.57	76.48	76.60	75.93	64.84
18	.....	74.98	70.29	75.63	76.32	76.55	75.43	64.54
19	.....	74.98	70.13	75.75	76.26	76.61	75.25	64.42
20	.....	.....	70.03	75.78	76.44	76.63	75.02	64.15
21	.....	.....	70.00	75.78	76.37	76.55	74.73	64.00
22	.....	.....	70.01	75.87	76.30	76.50	74.72	63.88
23	71.22	.....	70.00	75.88	76.49	76.43	74.80	63.75
24	71.90	.....	70.04	75.97	76.58	76.58	74.85	63.62
25	72.65	.....	70.00	75.94	76.33	76.55	74.56	63.50
26	73.25	74.15	69.85	75.97	76.26	76.60	74.10	63.37
27	73.73	74.47	69.76	75.90	76.31	76.59	73.55	63.25
28	74.15	74.60	69.69	75.76	76.55	76.46	73.05	62.85
29	74.58	74.27	69.83	76.02	76.37	76.37	72.86	62.43
30	75.02	73.80	70.16	75.88	76.57	76.52	72.84	62.20
31	75.35	.....	70.52	76.12	.....	76.59	.....	62.15

* No record for January, February, March and April.

8830-3700-144. L. B. Stinson. Lat. 37°02', long. 88°32'. Drilled unused artesian well in sand of Ripley formation, diameter 6 inches, depth 277 feet, screen at 266-276. Land-surface datum is 397.50 feet above msl. Highest water level 72.12 below lsd, Apr. 4, 1951; lowest 86.61 below lsd, Nov. 6, 1950. Records available: 1950-51. Measurement discontinued May 23, 1951.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	Day	Jan.	Feb.	Mar.	Apr.	May
1	84.15	77.12	72.26	72.55	75.55	17	77.10	74.68	73.82	73.94	79.20
2	84.40	77.01	72.30	72.35	75.95	18	76.90	74.80	73.87	73.93	79.40
3	84.50	76.59	72.25	72.23	76.31	19	76.72	74.82	73.80	73.99	79.65
4	84.26	76.40	72.30	72.12	76.62	20	76.66	74.37	73.72	74.08	79.90
5	83.62	76.28	72.33	72.25	76.97	21	76.79	73.96	73.57	74.01	80.16
6	82.93	76.04	72.34	72.50	77.21	22	76.72	73.50	73.50	73.89	80.50
7	82.30	75.73	72.45	72.90	77.40	23	76.66	73.11	73.68	73.67	80.92
8	81.76	75.38	72.56	73.08	77.50	24	76.60	72.86	73.87	73.50	.....
9	81.38	75.02	72.76	73.18	77.55	25	76.54	72.54	73.91	73.52	.....
10	81.09	74.67	72.84	73.27	77.54	26	76.50	72.30	74.02	73.58	.....
11	.....	74.35	72.92	73.31	77.67	27	76.46	72.26	74.02	73.77	.....
12	.....	74.37	73.03	73.36	77.94	28	76.59	72.14	73.95	74.18	.....
13	.....	74.60	73.21	73.48	78.28	29	76.84		73.35	74.57	.....
14	.....	74.92	73.37	73.59	78.55	30	76.88		73.19	75.01	.....
15	.....	74.90	73.46	73.74	78.78	31	77.00		72.97		.....
16	.....	74.78	73.57	73.83	79.00						

Union County

8755-3735-10. J. A. Schneider. Lat. 37°39', long. 87°56'. Drilled unused artesian well, diameter 6 inches, depth 59 feet. Highest water level 4.92 below lsd, Dec. 27-29, 1951; lowest 11.42 below lsd, Sept. 12, 1951. Records available: 1951.

Daily noon water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	8.31	10.76	10.85	10.85	7.53
2	.....	8.48	10.84	10.84	10.81	7.53
3	.....	8.61	10.90	10.85	10.76	7.34
4	.....	8.66	10.93	10.92	10.66	6.83
5	.....	8.73	11.02	11.01	10.73	6.57
6	.....	8.82	11.07	11.06	10.71	6.48
7	.....	8.90	11.15	11.06	10.24	6.29
8	.....	8.99	11.23	11.13	10.09	6.15
9	.....	9.07	11.28	11.14	10.00	5.83
10	.....	9.13	11.30	11.17	9.96	5.70
11	.....	9.19	11.40	11.17	9.93	5.60
12	.....	9.25	11.42	11.16	9.87	5.61
13	.....	9.32	11.23	10.99	9.77	5.73
14	.....	9.42	11.06	10.83	9.37	5.55
15	.....	9.50	11.00	10.68	9.24	5.52
16	.....	9.57	10.99	10.63	9.18	5.55
17	.....	9.68	10.99	10.58	9.17	5.53
18	.....	9.77	11.02	10.60	9.15	5.49
19	.....	9.87	11.06	10.63	9.14	5.61
20	.....	9.96	11.11	10.60	9.14	5.52
21	7.37	10.05	11.18	10.64	9.10	5.26
22	7.49	10.16	11.18	10.68	9.08	5.21
23	7.62	10.26	11.25	10.69	8.82	5.28
24	7.71	10.34	11.23	10.78	.....	5.16
25	7.81	10.42	11.09	10.81	7.92	4.97
26	7.92	10.52	10.92	10.81	7.92	4.97
27	8.00	10.57	10.86	10.80	7.92	4.92
28	8.07	10.60	10.90	10.82	7.92	4.92
29	8.16	10.62	10.89	10.85	7.54	4.92
30	8.18	10.65	10.87	10.86	7.54	4.98
31	8.23	10.70		.....		5.11

* No record for January, February, March, April, May, and June.

MARYLAND

By Claire A. Richardson

Scope of Water-Level Program

The observation-well program in Maryland was continued during 1951 in cooperation with the State Department of Geology, Mines and Water Resources. Measurements were made in 89 wells, 8 of which were equipped with recording gages. Eleven of the wells are in the Appalachian Plateau and Ridge and Valley provinces, 15 in the Piedmont province, and 63 in the Coastal Plain province west of Chesapeake Bay. (See fig. 22.)

Precipitation

The annual precipitation in Maryland in 1951 was 42.77 inches, which is 0.86 inch above normal. It was fairly well distributed throughout the year except during June, November, and December when precipitation amounted to as much as 3.56 inches above normal, and during August and October when precipitation was as much as 2.10 inches below normal.

Interpretation of Water-Level Fluctuations

Appalachian Plateau and Ridge and Valley provinces. --Almost all of the water levels in wells in this area showed a net decline for the year, the average net decline being 3.40 feet, and the maximum 16.33 feet. Two wells reached record highs in February-March and three wells reached record lows in September-October.

Piedmont province. --The fluctuations of water levels in most of these wells showed a net decline for the year, the average net decline being 2.97 feet, the maximum over 18 feet. Two wells reached record highs, one in February, the other in June. Three wells reached record lows in November-December.

Coastal Plain province (western part). --The water levels in more than half the wells showed a net decline for the year, the average net decline being 0.54 foot, and the maximum 11.18 feet. All of the wells in the extreme southern part of the area showed a net decline. Five wells reached record highs, two in January-February and three in April. Eleven wells reached record lows, one in July, five in September, three in November-December, and two were generally low all year.

Baltimore industrial area. --Although half of the observation wells showed a net rise, the average net change was a decline of 0.84 foot. Water levels in the Poplar, Dundalk, Bay Shore Park, and Harbor districts showed net rises of from 1.04 to 3.76 feet. Water levels in the Back River, Sparrows Point, Lodge Forest, Highlandtown, Fairfield, and Curtis Bay Districts showed net declines of from 1.73 to 10.68 feet. Inasmuch as abrupt changes in pumping rates occur frequently in the Baltimore industrial area, it is difficult to determine the general trend of water levels there. However, two wells, one in Highlandtown and one in Curtis Bay, reached record highs during the year. One well in Bay Shore Park reached a record low in August.

Well-Numbering System

All wells outside of Baltimore City are grouped by counties. Each county is divided into 5-minute quadrants. Each quadrant from north to south is designated by upper-case letters and from west to east by lower-case letters. The wells are numbered in each 5-minute quadrant in the order in which they were inventoried. Well Bal-Gf 51 would indicate that the well is in Baltimore County, in the seventh tier of 5-minute quadrants from the top (north) of the county map and in the sixth tier of 5-minute quadrants from the left (west) of the map. The number 51 indicates the number of the well in that particular quadrant. All wells within the city limits of Baltimore are referred to mile squares which are in turn referred to the Washington Monument, which is near the center of the city. Thus well 2S3E-9 is in the square mile that is 2 miles south and 3 miles east of the Washington Monument and the figure 9 indicates that it was the ninth well observed in that square.

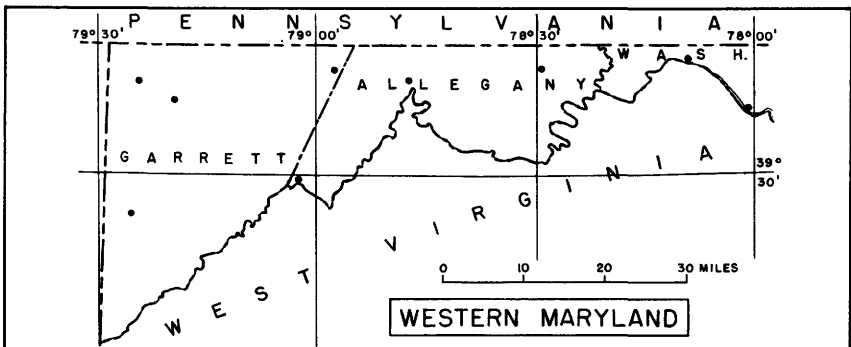
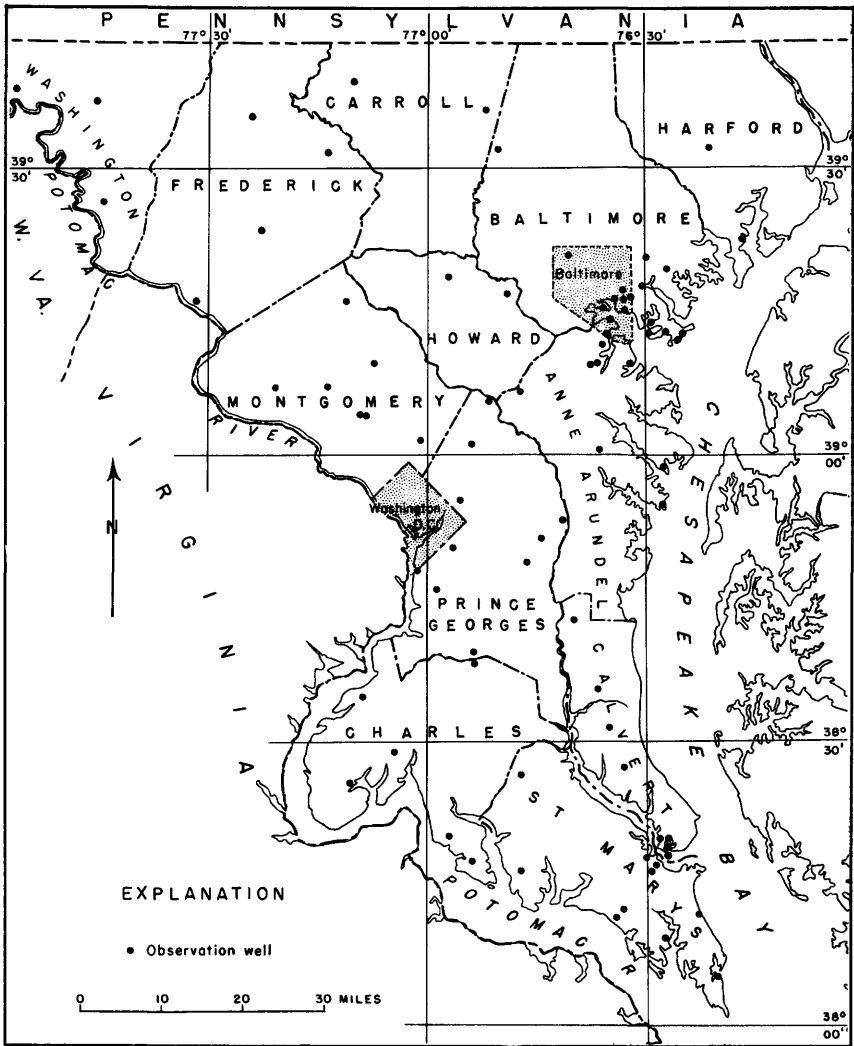


Figure 22.--Location of observation wells in Maryland, 1951.

Well Descriptions and Water-Level Measurements
(Water levels are in feet below land-surface datum unless otherwise indicated.)

City of Baltimore

4N2W-9. Baltimore Country Club. Falls and Harvest Rds. Lat. 39°21'6", long. 76°37'58"
Drilled unused water-table well in rocks of pre-Cambrian age, diameter 6 inches, depth 114 feet.
Land-surface datum is 220 feet above msl. Highest water level 6.46 below lsd, Mar. 14, 1949;
lowest 13.75 below lsd, Dec. 3, 1946. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	10.39	Apr. 4	8.93	Aug. 9	10.83	Nov. 5	11.91
28	7.25	July 6	9.76	Sept. 27	12.08	Dec. 3	12.10

1S3E-12. Kimball Tyler Co., Inc. Haven and Gough Sts. Lat. 39°17'23", long. 76°33'17".
Drilled unused artesian well in Patuxent formation, diameter 6 inches, depth 172 feet. Land-surface datum is 60 feet above msl. Highest water level 110.24 below lsd, Feb. 6, 1951; lowest 124.51 below lsd, June 20, 1947. Records available: 1944-51.

Feb. 6	110.24	May 21	115.75	Aug. 16	124.24	Nov. 5	115.16
Apr. 4	116.13	July 12	117.63	Sept. 20	117.53	Dec. 3	115.21

2S1E-16. Buck Glass Co. Lawrence St. and Fort Ave. Lat. 39°16'16", long. 76°36'10".
Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 112 feet. Land-surface datum is 40 feet above msl. Highest water level 36.92 below lsd, Jan. 23, 1945; lowest 58.19 below lsd, Apr. 6, 1944. Records available: 1944-51.

Jan. 2	41.35	May 22	44.44	July 30	41.29	Nov. 8	38.04
Feb. 28	45.56	June 28	44.14	Sept. 20	40.69	Dec. 6	37.30

2S3E-11. J. S. Young Co. Boston St. and Luzerne Ave. Lat. 39°16'34", long. 76°34'44".
Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 160 feet. Land-surface datum is 12.35 feet above msl. Highest water level 30.60 below lsd, July 29, 1949;
lowest 37.44 below lsd, June 3, 1944. Records available: 1943-51.

Feb. 6	31.36	May 21	32.32	Aug. 16	31.12	Nov. 5	31.50
Apr. 4	31.07	July 12	31.64	Sept. 20	32.20	Dec. 3	31.08

2S5E-1. U. S. Army. Holabird Ave. and Pumphrey St. Lat. 39°16'18", long. 76°32'20".
Drilled unused artesian well in Patuxent formation, diameter 12 inches, depth 290 feet. Land-surface datum is 18 feet above msl. Highest water level 80.89 below lsd, June 22, 1943; lowest 103.70 below lsd, Oct. 15, 1948. Records available: 1943-51.

Feb. 6	91.45	May 21	89.51	Aug. 16	93.37	Nov. 5	92.58
Apr. 4	93.35	July 12	98.70	Sept. 20	94.95	Dec. 3	89.58

3S5E-3. Federal Yeast Corp. Lat. 39°15'52", long. 76°32'20". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 131 feet. Land-surface datum is 12 feet above msl. Highest water level 38.30 below lsd, May 10, 1947; lowest 51.22 below lsd, Apr. 20, 1945. Records available: 1943-51.

Feb. 6	40.48	May 21	41.46	Aug. 16	41.87	Nov. 5	41.06
Apr. 4	39.95	July 11	41.55	Sept. 20	40.50	Dec. 3	40.81

4S3E-3. Virginia-Carolina Chemical Corp. Lat. 39°14'33", long. 76°34'28". Drilled unused artesian well in Patuxent formation, diameter 18 inches, depth 357 feet, cased to 325. Land-surface datum is 20 feet above msl. Highest water level 42.94 below lsd, Aug. 14, 1950; lowest 72.11 below lsd, Oct. 24, 1947. Records available: 1947-51.

Daily lowest water level below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	47.09	46.83	48.39	49.02	55.49	54.46	49.52	64.82	57.00	.....	49.53
2	.....	48.52	47.20	46.85	49.90	55.49	53.07	50.22	63.40	59.25	.....	48.70
3	.....	48.62	47.65	46.90	51.91	54.85	52.76	50.63	59.75	61.13	.....	47.65
4	.....	47.64	47.18	47.44	51.88	53.02	52.87	51.15	57.84	62.34	.....	49.80
5	.....	45.64	46.05	48.95	51.70	53.32	52.80	50.50	60.85	62.90	.....	53.95
6	.....	45.88	45.71	51.77	51.07	53.70	53.85	48.75	62.69	62.64	.....	55.72
7	.....	43.35	46.32	52.52	49.92	54.28	54.05	49.90	64.41	62.21	.....	57.12
8	.....	47.58	46.89	52.25	50.77	54.67	53.67	51.55	64.56	60.51	62.42	57.61
9	.....	47.67	47.55	48.89	51.90	55.08	.....	52.29	63.56	61.55	62.80	57.26
10	.....	47.69	48.00	48.00	52.90	54.36	.....	52.97	61.42	62.85	62.75	56.65
11	48.74	47.23	47.23	48.95	53.18	52.35	.....	53.10	61.16	63.40	59.45	57.13
12	49.35	45.80	45.80	49.37	53.83	51.78	.....	52.55	62.21	64.90	57.10	57.98
13	49.88	45.89	44.42	49.18	53.46	52.31	54.93	51.07	62.87	64.97	56.53	59.11
14	48.95	40.50	44.50	49.43	52.12	53.80	54.82	51.53	63.82	64.06	56.68	59.53
15	46.90	46.77	45.70	49.23	52.51	54.15	53.89	56.75	63.48	61.63	57.42	59.86

4S3E-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	48.25	46.74	46.18	47.95	53.35	54.31	52.30	63.67	62.77	61.94	57.73	59.90
17	48.46	46.97	46.42	48.70	53.88	54.18	50.94	65.72	61.14	62.90	58.55	59.06
18	48.79	46.62	46.20	52.45	54.37	52.45	50.73	60.87	61.80	64.15	57.97	58.52
19	48.79	46.03	45.30	52.50	54.32	52.40	51.18	53.35	62.97	65.11	56.75	59.06
20	48.77	46.67	45.67	54.62	53.65	53.05	50.65	49.94	64.02	65.68	56.96	58.52
21	47.75	45.78	45.98	54.68	52.19	53.47	50.30	51.14	64.98	65.53	57.35	57.73
22	47.43	47.12	47.22	54.07	52.19	53.83	48.95	57.62	65.15	64.46	54.31	57.93
23	46.45	46.73	47.23	50.45	53.13	53.82	49.45	60.20	64.13	65.38	55.60	57.54
24	46.21	47.00	47.70	49.52	54.61	53.15	50.50	61.97	63.68	65.81	56.18	56.94
25	46.86	46.54	47.65	49.69	56.89	62.65	54.65	62.44	56.83	66.63	56.48	56.08
26	47.75	45.52	45.95	50.90	57.27	52.89	55.75	62.07	56.53	.....	51.90	54.40
27	47.69	45.66	45.68	51.38	54.96	53.38	51.66	61.05	56.50	.....	48.79	53.05
28	47.04	46.63	46.60	51.48	53.15	56.19	50.49	62.27	56.55	.....	48.93	53.90
29	46.25		47.11	50.55	53.41	57.53	49.59	63.00	56.58	.....	49.45	64.40
30	46.87		47.83	48.75	53.94	56.65	48.75	64.05	54.62	.....	49.48	54.43
31	47.05		48.65		53.98		48.62	64.50		.....		54.38

6S2E-6. U. S. Industrial Alcohol Co. Birch St. and Curtis Ave. Lat. 39°13'20", long. 76°35'9". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 228 feet. Land-surface datum is 20 feet above msl. Highest water level 51.53 below lsd, Jan. 2, 1951; lowest 124.13 below lsd, Dec. 22, 1944. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	51.53	May 22	73.45	July 30	73.37	Nov. 8	59.14
Feb. 28	64.50	June 28	69.13	Sept. 20	69.47	Dec. 6	58.67

Allegany County

All-Ah 1. State of Maryland. Green Ridge State Forest. Lat. 39°40'34", long. 78°27'34". Drilled public-supply artesian well in Jennings formation(?), diameter 8 inches, reported depth 300 feet. Land-surface datum is 740 feet above msl. Highest water level 2.18 below lsd, Dec. 30, 1950; lowest 6.9 below lsd, Oct. 30, 1951. Records available: 1949-51.

Jan. 16	3.24	Apr. 2	3.14	June 30	4.78	Oct. 4	6.53
Feb 1	2.8	18	3.66	July 17	5.52	15	6.66
19	2.9	30	3.15	Aug. 1	5.65	30	6.9
Mar. 3	3.76	May 15	3.6	Sept. 1	6.4	Nov 15	5.53
7	3.39	June 1	4.96	15	6.02	Dec. 3	5.48
16	3.16	15	3.07	Oct. 1	6.44		

All-Bd 2. Cumberland Brewing Co. Henderson and Valley Sts., Cumberland. Lat. 39°39'30", long. 78°46'13". Drilled unused artesian well in Clinton formation(?), diameter 6 inches, depth 100 feet. Land-surface datum is 640 feet above msl. Highest water level 9.78 below lsd, Feb. 1, 1950; lowest 18.41 below lsd, Sept. 18, 1951. Records available: 1946-51.

May 4	11.21	Aug. 30	12.94	Oct. 4	13.06	Nov. 19	13.02
June 7	14.82	Sept 18	18.41	4	13.92	Dec. 6	12.36
July 12	12.62						

All-Da 1. Cumberland & Pennsylvania Railroad Co. Westernport. Lat. 39°29'38", long. 79°02'37". Drilled unused well in Conemaugh formation, diameter 12 inches, depth 88 feet. Land-surface datum is 980 feet above msl. Highest water level 1.62 below lsd, Nov. 4, 1948; lowest 5.13 below lsd, Aug. 12, 1947. Records available: 1946-51.

Jan 9	2.56	Apr. 10	2.37	Aug. 29	4.53	Oct. 8	4.48
Feb. 9	1.99	May 3	2.61	Sept. 17	4.61	Nov 8	3.73
Mar. 6	2.55	June 6	4.15	Oct. 5	4.51	Dec. 14	4.06
7	2.49	July 3	3.85				

Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot. Lat. 39°12'09", long. 76°35'39". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 109 feet. Land-surface datum is 44.9 feet above msl. Highest water level 30.61 below lsd, June 20, 1949; lowest 35.71 below lsd, Jan. 8, 1947. Records available: 1946-51. Jan. 2, 33.30; June 28, 32.30; July 30, 32.33; Sept. 20, 32.60; Nov. 6, 33.20; Dec. 6, 32.86.

AA-Ad 29. Anne Arundel Sanitary Commission. In Glen Burnie. Lat. 39°10'18", long. 76°37'02". Drilled unused artesian well in Patuxent formation, diameter 3 to 2 inches, depth 530 feet, screen at 490-530. Land-surface datum is 40 feet above msl. Highest water level 13.98 above lsd, May 24, 1949; lowest 10.88 above lsd, June 10, 1948. Records available: 1948-51.

AA-Ad 29--Continued.

Daily lowest water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.95	11.91	12.17	12.22	12.12	12.30	12.19	12.08	11.90	11.95	12.02
2	11.74	11.91	12.19	12.28	12.19	12.19	12.05	12.10	12.00	11.92	12.05
3	11.70	11.89	12.23	12.42	12.18	12.16	12.12	12.09	12.03	12.07	12.01
4	11.75	11.93	12.20	12.42	12.18	12.24	12.08	12.04	12.05	11.94	12.06
5	11.81	11.88	12.17	12.39	12.16	12.26	12.00	12.00	12.08	11.80	12.22
6	11.76	11.87	12.18	12.35	12.11	12.16	12.01	12.04	12.06	11.73	12.23
7	11.86	11.95	12.19	12.35	12.10	12.14	12.09	12.07	11.98	11.86	12.19
8	11.81	12.06	12.22	12.30	12.13	12.14	12.17	11.98	11.97	12.02	12.24
9	11.71	11.88	12.26	12.31	12.14	12.17	12.15	11.96	11.89	12.04	12.25
10	11.69	11.80	12.26	12.30	12.20	12.17	12.14	11.97	11.84	12.04	12.17
11	11.73	11.86	12.20	12.34	12.19	12.15	12.11	12.00	11.91	12.04	12.18
12	11.90	11.88	12.23	12.33	12.12	12.19	12.12	11.98	11.84	12.04	12.25
13	11.93	11.97	12.36	12.16	12.14	12.17	12.06	12.04	11.73	12.06	11.98
14	11.83	12.12	12.30	12.05	12.26	12.12	12.04	12.08	11.72	12.18	11.97
15	11.73	12.10	12.30	12.08	12.23	12.13	12.06	12.11	11.77	12.25	12.09
16	11.99	11.72	12.02	12.29	12.19	12.14	12.14	12.08	11.84	12.25	11.92
17	11.99	11.73	11.94	12.20	12.24	12.16	12.14	12.15	12.07	11.84	12.17
18	12.02	11.84	11.89	12.20	12.15	12.14	12.11	12.10	12.08	11.85	12.10
19	12.01	11.84	11.88	12.30	12.10	12.11	12.16	12.06	12.05	11.90	12.00
20	12.02	11.87	12.01	12.20	12.15	12.16	12.10	12.10	12.02	11.89	11.93
21	11.94	11.94	12.01	12.11	12.25	12.20	12.00	12.12	12.01	11.79	11.88
22	11.74	11.96	12.02	12.19	12.28	12.20	12.05	12.08	12.05	11.79	11.88
23	11.73	11.90	12.00	12.20	12.39	12.25	12.10	12.00	12.06	11.82	12.01
24	11.94	11.90	12.15	12.14	12.35	12.22	12.07	11.96	11.95	11.90	12.05
25	12.00	11.95	12.05	12.21	12.29	12.25	12.06	11.95	12.00	11.87	11.96
26	11.90	11.99	11.96	12.28	12.30	12.18	12.00	11.97	11.95	11.81	12.12
27	11.89	12.09	11.93	12.18	12.36	12.25	12.06	12.01	11.98	11.90	12.00
28	11.84	11.91	11.98	12.19	12.36	12.24	12.09	12.03	11.97	12.01	11.98
29	11.85	12.05	12.31	12.26	12.24	12.10	11.99	11.82	11.92	11.97	12.05
30	11.75	12.18	12.28	12.19	12.28	12.09	12.02	11.80	11.87	11.98	12.17
31	11.74	12.17	12.14	12.14	12.11	12.07	12.07	11.91	11.91	12.19	12.19

AA-Ad 30. Anne Arundel Sanitary Commission. In Glen Burnie. Lat. 39°10'18", long. 76°37'02". Augured unused water-table well in Patapsco formation, diameter 4 inches, depth 15 feet. Land-surface datum is 40 feet above msl. Highest water level 8.39 below lsd, Feb. 13, 1949; lowest 12.16 below lsd, Jan. 25, 1950. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.59	9.66	9.10	9.02	8.98	9.32	8.90	9.94	10.67	10.93	10.76	.....
2	9.60	9.65	9.08	9.02	9.02	9.33	8.93	9.97	10.68	10.92	10.75	.....
3	9.58	9.65	9.07	9.02	9.03	9.34	8.96	9.99	10.68	10.91	10.72	.....
4	9.68	9.64	9.05	9.03	9.05	9.35	9.00	10.01	10.69	10.91	10.68	.....
5	9.59	9.63	9.04	9.02	9.06	9.36	9.02	10.04	10.70	10.91	10.66	.....
6	9.60	9.62	9.03	9.01	9.07	9.37	9.07	10.05	10.71	10.91	10.64	10.19
7	9.60	9.62	9.03	9.02	9.08	9.37	9.10	10.08	10.71	10.92	10.61	10.16
8	9.60	9.59	9.04	9.00	9.09	9.37	9.12	10.11	10.72	10.91	10.60	10.14
9	9.60	9.56	9.06	9.00	9.11	9.37	9.14	10.13	10.74	10.91	10.48	10.14
10	9.61	9.54	9.07	9.00	9.13	9.37	9.18	10.15	10.75	10.91	10.42	10.15
11	9.65	9.51	9.08	9.00	9.14	9.36	9.21	10.17	10.75	10.90	10.37	10.15
12	9.67	9.47	9.08	9.00	9.15	9.19	9.25	10.19	10.77	10.88	.....	10.15
13	9.68	9.44	9.08	9.00	9.16	9.19	9.27	10.21	10.79	10.87	.....	10.16
14	9.68	9.43	9.08	9.08	9.18	9.90	9.31	10.24	10.81	10.86	.....	10.17
15	9.68	9.42	9.08	9.06	9.21	8.81	9.34	10.26	10.84	10.85	.....	10.17
16	9.67	9.40	9.09	8.93	9.22	8.73	9.37	10.29	10.85	10.85	.....	10.15
17	9.67	9.38	9.10	8.94	9.24	8.68	9.40	10.31	10.86	10.84	.....	10.15
18	9.66	9.37	9.11	8.93	9.26	8.65	9.44	10.35	10.91	10.83	.....	10.13
19	9.67	9.36	9.12	8.91	9.28	8.63	9.46	10.37	10.91	10.82	.....	10.12
20	9.67	9.35	9.12	8.90	9.29	8.62	9.50	10.40	10.92	10.80	.....	10.10
21	9.67	9.34	9.12	8.90	9.31	8.63	9.54	10.43	10.93	10.81	.....	10.09
22	9.67	9.33	9.11	8.90	9.33	8.65	9.56	10.45	10.94	10.82	.....	10.02
23	9.67	9.31	9.10	8.91	9.34	8.68	9.60	10.47	10.95	10.82	.....	9.91
24	9.67	9.28	9.07	8.93	9.35	8.71	9.65	10.50	10.95	10.82	.....	9.81
25	9.67	9.24	9.05	8.93	9.35	8.75	9.67	10.52	10.96	10.82	.....	9.72
26	9.66	9.20	9.05	8.94	9.35	8.78	9.71	10.55	10.97	10.81	.....	9.64
27	9.66	9.15	9.04	8.94	9.35	8.82	9.76	10.56	10.97	10.80	.....	9.60
28	9.66	9.12	9.03	8.95	9.34	8.84	9.80	10.58	10.96	10.79	.....	9.57
29	9.66	9.02	8.95	9.33	8.86	9.83	10.60	10.95	10.78	10.78	.....	9.54
30	9.66	9.01	8.97	9.32	8.88	9.90	10.61	10.94	10.78	10.78	.....	9.52
31	9.67	9.02	9.02	9.32	9.32	9.91	10.65	10.77	10.77	10.77	.....	9.51

AA-Bb 18. William J. Harris. At Fort George G. Meade Junction. Lat. 39°07'26", long. 76°47'25". Drilled unused artesian well in Patuxent formation, diameter 6 to 4 inches, depth 108 feet. Land-surface datum is 170 feet above msl. Highest water level 18.81 below lsd, May 27, 1949; lowest 24.47 below lsd, Nov. 18, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	23.26	June 28	24.10	Sept. 10	21.85	Nov. 6	23.00
Feb. 28	22.61	Aug. 17	21.39	Oct. 3	22.13	Dec. 6	22.91
May 22	21.45						

AA-Be 59. State of Maryland. Riviera Beach. Lat. 39°09'41", long. 76°31'34". Drilled unused artesian well in Patapsco formation, diameter 2 inches, depth 90 feet. Land-surface datum is at msl. Highest water level +0.11, Nov. 15, 1949; lowest 1.38 below lsd, Oct. 26, 1950. Records available: 1949-51. Jan. 2, 0.63; Jan. 16, 1.14; Feb. 28, 0.46. Measurement discontinued.

AA-Cd 10. Crownsville State Hospital. Crownsville. Lat. 39°01'18", long. 76°36'06". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, reported depth 668 feet, screen at 654-668. Land-surface datum is 135 feet above msl. Highest water level 109.62 below lsd, Mar. 15, 1949; lowest 125.51 below lsd, Nov. 6, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	110.96	June 28	110.69	Sept. 12	112.46	Nov. 6	125.51
Feb. 28	111.11	July 17	110.98	Oct. 9	121.24	Dec. 6	111.82
May 22	111.35						

AA-Df 14. U. S. Naval Academy well Rifle Range 1. Near Carrs Point. Lat. 38°59'17", long. 76°28'01". Drilled unused artesian well in Patapsco formation, diameter 8 to 4 inches, depth 578 feet. Land-surface datum is 60 feet above msl. Highest water level 65.40 below lsd, Jan. 2, 1951; lowest 74.51 below lsd, July 28, 1949. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	65.40	May 22	69.25	Aug. 17	70.50	Nov. 6	68.00
16	67.31	June 28	69.51	Sept. 12	73.66	Dec. 6	67.54
Feb. 28	67.55	July 30	70.56				

AA-Ef 3. G. L. Meredith. Arundel-on-the-Bay. Lat. 38°54'59", long. 76°27'39". Drilled unused well in Aquia greensand, diameter 1½ inches, depth 61 feet. Land-surface datum is 7 feet above msl. Highest water level 5.00 below lsd, Apr. 8, 1948; lowest 7.02 below lsd, Sept. 30, 1949. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	5.72	May 22	5.74	Aug. 17	6.35	Nov. 6	6.73
16	6.70	June 28	5.80	Sept. 18	6.30	Dec. 6	5.79
Feb. 28	5.74	July 30	6.20				

Baltimore County

Bal-Cb 2. H. F. Schaefer. Lat. 39°31'13", long. 76°49'12". Dug unused water-table well in Peters Creek schist, diameter 4 feet, reported depth 60 feet. Land-surface datum is 710 feet above msl. Highest water level 34.26 below lsd, Feb. 4, 1949; lowest 45.44 below lsd, Nov. 28, 1950. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	37.01	May 29	37.44	Aug. 9	38.28	Nov. 6	42.17
Mar. 9	36.16	July 6	38.40	Sept. 18	40.28	Dec. 10	42.20

Bal-Ef 16. Water Hole. King Ave. and Babikow Rd. Lat. 39°21'31", long. 76°28'52". Dug water-table well in Patuxent formation, diameter 36 inches, depth 8 feet. Land-surface datum is 100 feet above msl. Highest water level 3.19 below lsd, May 7, 1948; lowest 7.90 below lsd, Sept. 21, 1949. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	4.69	May 21	5.07	Aug. 15	5.43	Nov. 5	4.20
Apr. 8	4.36	July 11	6.01	Sept. 18	5.35	Dec. 3	4.23

Bal-Ef 19. United Clay Mines Corp. Poplar. Lat. 39°21'10", long. 76°27'33". Drilled unused well in Patuxent formation, diameter 6 inches, depth 66 feet. Land-surface datum is 100 feet above msl. Highest water level 56.82 below lsd, Mar. 11, 1949; lowest 64.55 below lsd, Dec. 28, 1950. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	61.80	May 21	57.71	Aug. 15	58.67	Nov. 5	57.76
Apr. 8	58.73	July 11	57.71	Sept. 18	57.39	Dec. 3	57.71

Bal-Fe 19. Paul Jones & Co., Inc. Dundalk. Baltimore & Ohio Railroad, willow Spring St. Lat. 39°16'08", long. 76°31'51". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 402 feet, 35 feet of screen. Land-surface datum is 20 feet above msl. Highest water level 76.97 below lsd, Mar. 25, 1946; lowest 97.42 below lsd, June 9, 1951. Records available: 1944-51.

Bal-Fe 19--Continued.

Daily lowest water level below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	91.13	92.30	.....	.....	96.08	96.32	90.37	90.79	90.20	85.06	91.75	91.46
2	91.87	92.96	.....	.....	96.45	96.95	88.76	90.13	87.79	86.97	91.77	89.16
3	92.45	92.94	.....	.....	96.73	94.10	90.87	90.55	86.34	88.36	91.01	88.84
4	92.97	89.58	.....	.....	97.16	93.12	90.72	89.64	86.78	89.18	88.20	90.56
5	93.33	91.23	.....	.....	91.05	97.16	95.55	91.72	87.17	88.84	89.62	87.70
6	93.07	92.06	.....	.....	91.50	93.35	96.44	93.25	86.21	90.13	89.21	89.63
7	91.56	.....	.....	.....	91.63	92.95	97.09	92.08	89.01	90.78	87.60	89.72
8	91.53	.....	.....	.....	90.03	95.18	97.32	90.60	89.47	89.85	86.01	90.62
9	92.44	.....	.....	.....	88.25	96.17	97.42	89.64	90.14	87.23	90.00	91.13
10	92.67	.....	.....	.....	92.90	97.07	93.42	90.75	90.41	85.66	91.20	91.18
11	92.92	.....	.....	.....	93.84	97.33	90.26	91.17	89.20	87.96	92.18	89.29
12	93.17	.....	.....	.....	93.82	97.35	90.59	91.55	86.53	89.15	91.54	91.04
13	93.02	.....	.....	.....	93.59	94.20	90.97	91.67	85.62	90.16	91.51	91.04
14	90.60	.....	.....	.....	93.67	94.17	92.16	91.44	87.70	90.37	89.46	90.03
15	89.20	.....	.....	.....	91.15	96.07	93.26	88.32	88.97	89.57	87.83	89.88
16	92.03	.....	.....	.....	93.21	97.17	92.91	86.02	90.09	86.70	89.24	88.90
17	92.55	.....	.....	.....	94.65	97.28	90.90	85.15	90.03	85.72	90.40	88.00
18	92.87	.....	.....	.....	95.52	97.11	89.02	84.99	89.43	88.35	91.15	87.29
19	93.29	.....	.....	.....	95.92	97.00	92.37	85.07	86.44	89.65	91.50	85.91
20	92.90	.....	.....	.....	96.25	93.65	93.30	85.03	86.01	90.14	90.82	86.81
21	89.90	.....	.....	.....	95.84	92.19	94.66	84.43	87.97	90.74	89.35	86.92
22	89.42	.....	.....	.....	94.80	93.88	94.98	83.55	89.23	90.10	91.10	86.54
23	91.23	.....	.....	.....	93.62	95.01	94.80	83.27	89.96	88.12	92.24	85.98
24	92.05	.....	.....	.....	95.21	95.84	93.30	84.27	90.42	87.00	91.72	86.07
25	92.45	.....	.....	.....	96.10	96.47	91.62	86.53	89.84	88.70	92.92	85.59
26	91.60	.....	.....	.....	96.68	96.71	92.32	86.32	86.85	89.86	92.47	87.14
27	91.34	.....	.....	.....	97.33	94.10	92.74	85.92	85.75	89.83	91.72	89.15
28	88.77	.....	.....	.....	97.34	91.87	92.75	85.10	87.82	91.44	90.07	90.37
29	89.04	.....	.....	.....	94.65	94.18	93.38	83.60	89.08	90.92	89.94	91.32
30	91.36	.....	.....	.....	94.48	95.07	92.78	84.75	90.47	87.52	90.69	92.12
31	92.25	.....	.....	.....	94.42	.....	.....	87.52	90.94	.....	91.92	90.02

Bal-Ff 1. City of Baltimore. Back River Sewage Disposal Plant. Lat. 39°17'46", long. 76°29'45". Drilled unused artesian well in Patuxent formation, diameter 6 inches, depth 156 feet. Land-surface datum is 30 feet above msl. Highest water level 39.84 below lsd, May 20, 1946; lowest 47.29 below lsd, Dec. 30, 1949. Records available: 1943-51

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	44.89	May 21	44.92	Aug. 15	44.84	Nov. 5	44.71
Apr. 4	43.77	July 11	44.40	Sept. 20	43.34	Dec. 3	46.71

Bal-Gf 6. Bethlehem Steel Co. Sparrows Point. Lat. 39°14'00", long. 76°29'42". Drilled unused artesian well in Patuxent formation, diameter 12 to 5 inches, depth 625 feet, screen at 602-625. Land-surface datum is 10 feet above msl. Highest water level 71.13 below lsd, Oct. 28, 1949; lowest 115.90 below lsd, Aug. 30, 1949. Records available: 1943-46, 1949-51.

Feb. 6	113.84	May 21	110.12	Aug. 15	100.67	Nov. 5	98.92
Apr. 4	110.87	July 11	110.53	Sept. 20	104.65	Dec. 3	99.02

Bal-Gf 168. Bethlehem Steel Co. Sparrows Point. Lat. 39°12'59", long. 76°28'29". Drilled industrial artesian well in Patapsco formation, diameter 10 to 5 inches, depth 309 feet, screen at 283-304. Land-surface datum is 10 feet above msl. Highest water level 48.54 below lsd, June 26, 1950; lowest 99.50 below lsd, Sept. 20, 1951. Records available: 1943-51. May 21, 74.72; July 11, 91.20; Aug. 15, 95.01; Sept. 20, 99.50; Nov. 5, 81.10; Dec. 3, 74.74.

Bal-Gf 169. Bethlehem Steel Co. Sparrows Point. Lat. 39°12'59", long. 76°28'29". Drilled industrial artesian well in Patapsco formation, diameter 10 to 5 inches, depth 224 feet, screen at 206-222. Land-surface datum is 10 feet above msl. Highest water level 24.52 below lsd, Feb. 2, 1949; lowest 83.19 below lsd, July 26, 1950. Records available: 1943-46, 1948-51. May 21, 47.05; July 11, 58.75; Aug. 15, 62.50; Sept. 20, 65.50; Nov. 5, 55.35; Dec. 3, 50.51.

Bal-Gf 177. Bethlehem Steel Co. Lat. 39°12'30", long. 76°25'30". Drilled public-supply artesian well in Patuxent formation, diameter 6 inches, depth 709 feet. Land-surface datum is 10 feet above msl. Highest water level 36.89 below lsd, Oct. 28, 1949; lowest 51.44 below lsd, Apr. 8, 1948. Records available: 1943-51. Feb. 6, 50.06; Apr. 4, 46.47; May 21, 47.86; July 12, 46.91; Aug. 15, 44.44; Sept. 20, 42.63.

Bal-Gf 178. Bethlehem Steel Co. Lat. 39° 12'30", long. 76°25'30". Drilled public-supply artesian well in Patapsco formation, diameter 8 inches, depth 339 feet. Land-surface datum is 6 feet above msl. Highest water level 13.59 below lsd, Mar. 20, 1948; lowest 29.51 below lsd, Aug. 15, 1951. Records available: 1947-51. Feb. 6, 24.10; Apr. 4, 21.51; May 21, 21.38; July 11, 27.21; Aug. 15, 29.51.

Bal-Gf 183. Chesapeake Terrace School. At Lodge Forest. Lat. 39°13'19", long. 76°27'00". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 307 feet, screen at 294-304. Land-surface datum is 10 feet above msl. Highest water level 17.67 below lsd, May 25, 1950; lowest 48.70 below lsd, Sept. 29, 1950. Records available: 1944-51. Feb. 6, 37.49; Apr. 4, 39.75; May 21, 37.80; June 12, 45.80; Aug. 15, 48.36; Sept. 20, 48.38; Dec. 3, 43.70.

Calvert County

Cal-Bb 1. Gorman Lyons. In Dunkirk. Lat. 38°43'25", long. 76°39'42". Dug domestic water-table well in deposits of Pleistocene age, diameter 4 feet, depth 44 feet. Land-surface datum is 144 feet above msl. Highest water level 18.18 below lsd, Mar. 24, 1949; lowest 33.71 below lsd, July 29, 1949. Records available: 1947-51

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	24.87	Apr. 10	22.52	July 27	28.12	Oct. 23	30.81
17	25.98	June 4	28.05	Sept. 13	30.08	Nov. 19	22.12
Feb. 28	23.70	27	22.80				

Cal-Cb 4. J. Armiger. Lat. 38°36'08", long. 76°36'55". Dug domestic water-table well in deposits of Pleistocene and/or Miocene age, diameter 36 inches, depth 33 feet. Land-surface datum is 150 feet above msl. Highest water level 18.87 below lsd, Apr. 6, 1949; lowest 21.40 below lsd, Sept. 14, 1949. Records available: 1949-51.

Jan. 2	20.08	Apr. 10	19.66	June 27	20.04	Oct. 23	20.87
17	20.14	June 4	19.96	Sept. 13	20.63	Nov. 19	20.70
Feb. 28	19.98						

Cal-Dc 18. A. Goldstein. In Prince Frederick. Lat. 38°32'25", long. 76°34'15". Dug unused water-table well in deposits of Pleistocene age, depth 26 feet. Land-surface datum is 147 feet above msl. Highest water level 18.17 below lsd, Apr. 10, 1951; lowest 19.91 below lsd, Jan 24, 1950. Records available: 1947-51.

Jan. 2	19.49	Apr. 10	18.17	July 27	19.20	Oct. 23	19.71
17	19.57	June 4	19.25	Sept. 13	19.38	Nov. 19	18.22
Feb. 28	19.53	27	19.15				

Cal-Ec 4. W. W. Ross. At Mutual. Lat. 38°28'37", long. 76°32'52". Dug domestic water-table well in deposits of Pleistocene age, depth 49 feet. Land-surface datum is 173 feet above msl. Highest water level 40.09 below lsd, Mar. 22, 1949; lowest 46.31 below lsd, Sept. 7, 1950. Records available: 1947-51.

Jan. 2	45.82	Apr. 10	45.20	June 27	44.94	Sept. 13	45.01
17	45.80	June 4	44.95	July 27	45.00	Oct. 23	45.38
Feb. 28	46.00						

Cal-Fd 14. W. B. Glascock. Lat. 38°20'08", long. 76°27'47". Drilled unused artesian well in sediments of Eocene age, diameter 1½ inches, reported depth 455 feet. Land-surface datum is 1.3 feet above msl. Highest water level 6.02 below lsd, Apr. 26, 1950; lowest 16.90 below lsd, May 29, 1947. Records available: 1947-51.

Jan. 2	7.10	Apr. 10	6.14	June 27	6.55	Oct. 23	7.76
17	6.96	May 2	6.15	Sept. 13	7.36	Nov. 19	7.80
Feb. 28	6.79	June 4	6.32				

Cal-Gd 5. U. S. Navy. Occupied by Tidewater Fisheries Commission. Lat. 38°19'58", long. 76°27'26". Drilled unused artesian well in Nanjemoy formation, diameter 8 inches, depth 248 feet, cased to 233, screen at 233-248. Land-surface datum is 9.5 feet above msl. Highest water level 17.98 below lsd, May 16, 1950; lowest 22.23 below lsd, Sept. 18, 1951. Records available: 1949-51.

Daily lowest water level below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.72	20.22	20.49	20.00	.....	20.24	20.93	21.98	21.91	21.53	20.90	20.22
2	20.42	20.72	20.21	19.93	19.67	20.20	21.11	22.03	21.95	21.44	20.90	20.18
3	20.49	20.87	20.37	20.01	19.73	20.25	21.09	21.73	21.89	21.41	20.64	20.21
4	20.52	20.62	19.90	19.95	19.57	20.25	21.01	21.97	22.04	21.26	20.65	20.10
5	20.95	20.23	20.03	20.10	19.43	20.22	21.45	21.97	21.97	21.38	21.00	19.86

Cal-Gd 5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	20.82	20.48	20.20	20.08	19.76	20.21	21.63	21.95	21.97	21.18	20.81	20.02
7	20.52	20.39	20.10	19.95	19.92	20.10	21.50	21.85	21.95	21.28	20.22	20.12
8	20.62	20.76	20.33	19.94	19.93	20.10	21.34	21.64	22.15	21.24	20.55	20.25
9	20.75	20.88	20.65	19.89	19.94	20.27	21.28	21.65	21.79	21.41	20.82	20.28
10	20.67	20.89	20.78	20.03	19.96	20.17	21.34	21.75	21.78	21.44	20.85	20.45
11	20.60	20.95	20.69	20.03	19.91	19.98	21.56	21.83	21.65	21.24	20.71	20.27
12	20.63	22.26	20.32	.....	19.87	19.88	21.42	21.82	21.79	21.21	20.73	19.99
13	20.80	22.29	19.82	.....	20.05	19.90	21.61	22.03	21.79	21.52	20.45	20.37
14	20.76	22.05	19.19	.....	20.18	20.07	21.56	21.95	21.55	21.52	20.31	20.46
15	20.25	21.73	19.72	.....	20.18	20.23	21.66	21.96	21.71	21.29	20.51	20.53
16	20.76	21.07	19.93	.....	20.18	20.34	21.67	21.95	21.93	21.34	20.47	20.88
17	20.97	20.80	20.08	.....	20.15	20.34	21.69	22.03	22.15	21.26	20.67	20.76
18	20.63	20.86	20.10	.....	20.08	20.48	21.67	22.03	22.23	21.12	20.79	20.51
19	20.41	20.72	19.98	.....	19.72	20.64	21.67	21.90	22.00	20.83	20.91	20.65
20	20.35	20.56	20.04	.....	19.97	20.66	21.65	21.83	21.88	20.98	20.94	20.57
21	20.69	20.40	20.00	.....	20.06	20.66	21.69	21.85	21.79	20.90	20.82	19.98
22	21.00	20.65	20.37	.....	20.06	20.69	21.67	21.99	21.62	20.94	20.42	20.22
23	20.60	20.60	20.20	.....	19.95	20.57	21.90	21.97	21.53	20.96	20.55	20.39
24	20.22	20.61	20.25	.....	20.23	20.73	21.89	21.99	21.82	20.89	20.65	20.46
25	20.27	20.67	20.33	.....	20.00	20.75	21.69	21.89	21.34	21.35	20.81	20.35
26	20.48	20.46	20.41	.....	19.87	20.79	21.68	21.78	21.63	21.28	20.27	20.04
27	20.48	20.19	20.41	.....	19.91	20.64	21.93	21.62	21.37	21.07	20.71	20.30
28	20.49	20.44	20.19	.....	19.81	20.80	21.83	21.86	21.75	21.03	20.73	20.35
29	20.54		20.22	.....	19.90	20.71	21.83	21.85	21.87	21.09	20.51	20.07
30	20.65		19.94	.....	20.13	20.75	21.81	21.85	21.64	20.95	20.39	20.01
31	20.46		19.96		20.18		21.90	21.90		20.94		19.92

Cal-Gd 6. U. S. Navy. Occupied by Tidewater Fisheries Commission. Lat. 38°19' 58", long. 76°27' 06". Drilled unused artesian well in Aquia greensand, diameter 8 to 6 inches, depth 493 feet, cased to 472, screen at 469-493. Land-surface datum is 10 feet above msl. Highest water level 25.72 below lsd, May 16, 1950; lowest 32.85 below lsd, Aug. 24, 1951. Records available: 1949-51.

Daily lowest water level below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.16	29.14	29.51	29.00	29.36	29.48	.....	32.10	32.41	32.25	30.91	30.13
2	28.99	29.66	29.28	28.92	29.26	29.38	.....	32.23	32.41	32.19	30.91	30.16
3	29.05	29.80	29.44	29.02	29.13	29.52	.....	32.09	32.37	32.16	30.65	30.23
4	29.03	29.60	29.14	29.30	28.92	29.42	.....	32.34	32.49	32.02	30.68	30.08
5	29.37	29.44	29.41	29.55	28.81	29.56	.....	32.33	32.47	32.02	21.04	29.74
6	29.24	29.69	29.56	29.54	29.11	29.54	.....	32.33	32.46	31.80	30.89	29.90
7	28.95	29.50	29.46	29.35	29.24	29.46	.....	32.18	32.55	31.84	30.27	30.09
8	29.04	30.09	29.50	29.33	29.24	29.46	.....	32.07	32.80	31.69	30.60	30.27
9	29.21	30.34	29.82	29.23	29.21	29.59	30.64	32.08	32.50	31.80	30.88	30.28
10	29.13	30.34	29.98	29.25	29.18	29.46	.....	32.24	32.51	31.76	30.88	30.46
11	29.11	30.22	29.90	29.25	29.08	29.34	30.85	32.34	32.40	31.55	30.75	30.22
12	29.19	29.56	29.59	29.21	29.17	29.27	.....	32.39	32.37	31.72	30.77	29.85
13	29.42	29.66	29.18	28.93	29.37	29.25	30.99	32.59	32.37	32.01	30.48	30.29
14	29.39	29.82	28.72	29.00	29.58	29.26	.....	32.50	32.18	31.95	30.30	30.35
15	28.98	29.95	29.12	29.07	29.58	29.38	.....	32.49	32.10	31.78	30.37	30.39
16	29.54	29.75	29.24	29.10	29.57	29.53	31.26	32.52	32.20	31.68	30.31	30.81
17	29.67	29.67	29.35	29.10	29.48	29.55	.....	32.62	32.15	31.53	30.48	30.79
18	29.41	29.87	29.38	29.27	29.44	29.62	31.39	32.62	32.16	31.31	30.62	30.66
19	29.28	29.81	29.29	29.08	29.07	29.70	31.35	32.55	32.21	30.99	30.78	30.84
20	29.24	29.63	29.25	29.44	29.20	29.68	31.52	32.51	32.25	31.17	30.81	30.87
21	29.54	29.31	29.24	29.35	29.20	29.65	31.54	32.51	32.22	31.10	30.75	30.23
22	29.82	29.62	29.51	29.22	29.12	29.65	.....	32.75	32.10	31.16	30.43	30.50
23	29.41	29.53	29.32	29.40	29.17	29.63	.....	32.79	32.11	31.18	30.51	30.72
24	28.97	29.67	29.36	29.38	29.43	29.90	.....	32.85	32.38	31.08	30.54	30.75
25	29.01	29.69	29.42	29.35	29.24	29.94	.....	32.68	31.90	31.44	30.72	30.67
26	29.23	29.53	29.47	29.46	29.12	30.03	.....	32.51	32.16	31.35	30.18	30.28
27	29.23	29.82	29.47	29.55	29.06	.....	32.82	32.30	31.84	31.08	30.53	30.50
28	29.34	29.49	29.22	29.43	28.95	.....	31.85	32.47	32.26	30.98	30.54	.....
29	29.46		29.27	29.24	29.05	.....	31.87	32.46	32.45	31.07	30.37	.....
30	29.49		29.00	29.43	29.33	.....	31.90	32.40	32.36	30.98	30.28	.....
31	29.43		28.99		29.43		32.02	32.40		30.94		.....

Cal-Gd 22. Esso Standard Oil Co. In Solomons. Lat. 38°19'10", long. 76°27'18". Drilled unused artesian well in sediments of Eocene age, diameter 3 inches, reported depth 320 feet. Land-surface datum is 0.8 feet above msl. Highest water level 12.75 below lsd, Apr. 26, 1950; lowest 18.79 below lsd, May 19, 1949. Records available: 1947-51. Feb. 28, 16.98; June 4, 17.22; Sept. 24, 17.81; Oct. 23, 16.60; Nov. 19, 17.22.

Carroll County

Car-Bb 1. Mrs. Joe Elliott. At Taneytown. Lat. 39°39'44", long. 77°10'33". Dug unused water-table well in New Oxford formation, depth 31 feet, cribbed with brick. Land-surface datum is 525 feet above msl. Highest water level 1.23 below lsd, May 5, 1948; lowest 6.98 below lsd, Sept. 6, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	2.19	Mar. 20	1.67	June 4	4.72	Oct. 4	6.50
Feb. 5	2.64	Apr. 2	2.59	July 2	3.63	8	6.58
Mar. 5	2.03	30	2.48	30	4.32	Dec. 3	2.77

Car-Bf 1. Town of Hampstead. Lat. 39°36'40", long. 76°51'00". Drilled unused water-table well in Wissahickon schist, diameter 8 inches, reported depth 400 feet. Land-surface datum is 933 feet above msl. Highest water level 60.18 below lsd, Feb. 16, 1949; lowest 76.03 below lsd, Dec. 14, 1949. Records available: 1946-47, 1949-51.

Feb. 5	66.73	May 29	65.03	Aug. 9	63.98	Nov. 6	69.72
Mar. 20	62.33	July 6	62.73	Sept. 18	66.65	Dec. 10	70.40

Charles County

Ch-Bc 10. Mrs. Louise Brown. In Potomac Heights. Lat. 38°36'15", long. 77°07'44". Dug domestic water-table well in deposits of Pleistocene age, diameter 36 inches, depth 39 feet, cribbed with brick. Land-surface datum is 125 feet above msl. Highest water level 25.26 below lsd, Mar. 8, 1949; lowest 32.05 below lsd, June 11, 1947, Sept. 7, 1950. Records available: 1947, 1949-51. Feb. 13, 29.89; Mar. 20, 29.70; Apr. 20, 27.69; July 27, 29.00; Sept. 28, 29.96; Nov. 19, 30.40.

Ch-Bf 2. Maryland State Police, Barracks "H". Lat. 38°39'06", long. 76°52'50". Dug domestic water-table well in deposits of Pleistocene age, diameter 4½ feet, depth 19 feet. Land-surface datum is 222 feet above msl. Highest water level 11.79 below lsd, Apr. 13, 1949; lowest 16.49 below lsd, Jan. 25, 1950. Records available: 1947, 1949-51. Feb. 13, 14.22; Apr. 13, 12.75; May 25, 13.58; July 27, 14.08; Sept. 27, 15.52; Nov. 19, 16.11.

Ch-Dc 2. Bernward C. Juhle. Lat. 38°27'24", long. 77°09'28". Dug water-table well in deposits of Pleistocene age, diameter 4 feet, depth 38 feet. Land-surface datum is 120 feet above msl. Highest water level 14.97 below lsd, Feb. 12, 1949; lowest 33.40 below lsd, July 12, 1951. Records available: 1948-51.

Jan. 14	18.65	Apr. 12	17.62	July 12	33.40	Oct. 14	19.32
Feb. 14	19.19	May 14	18.04	Aug. 12	29.03	Nov. 12	19.20
Mar. 12	18.46	June 7	18.54	Sept. 12	20.52	Dec. 15	18.63

Ch-Dd 6. Roy Greer. Lat. 38°29'46", long. 77°04'00". Dug domestic water-table well in deposits of Pleistocene age, diameter 36 inches, depth 24 feet. Land-surface datum is 145 feet above msl. Highest water level 20.08 below lsd, Mar. 8, 1949; lowest 23.32 below lsd, June 11, 1947. Records available: 1947, 1949-51. Feb. 13, 21.65; Mar. 20, 21.55; Apr. 20, 21.23; July 27, 21.31; Sept. 28, 21.54; Nov. 22, 20.97.

Ch-Ee 16. J. B. Bowling. Lat. 38°21'02", long. 76°56'00". Dug domestic water-table well in deposits of Pleistocene age, diameter 42 inches, depth 23 feet. Land-surface datum is 40 feet above msl. Highest water level 12.99 below lsd, Mar. 8, 1949; lowest 20.65 below lsd, Dec. 20, 1949. Records available: 1947, 1949-51. Feb. 13, 15.56; Apr. 20, 14.99; July 27, 15.72; Sept. 28, 16.20; Nov. 22, 16.00.

Ch-Ff 24. Joseph Holton. Lat. 38°17'23", long. 76°52'34". Dug domestic and stock water-table well in deposits of Pleistocene age, diameter 32 inches, depth 15 feet. Land-surface datum is 5 feet above msl. Highest water level 1.30 below lsd, Feb. 13, 1951; lowest 8.41 below lsd, Sept. 28, 1951. Records available: 1947, 1949-51. Feb. 13, 1.30; Apr. 20, 1.85; Aug. 1, 6.42; Sept. 28, 8.41; Nov. 22, 7.09.

Frederick County

Fr-Bd 1. Town of Thurmont. On High Run. Lat. 39°36'28", long. 77°25'42". Drilled unused water-table(?) well in Harpers phyllite, diameter 6 inches. Land-surface datum is 630 feet above msl. Highest water level 7.61 below lsd, Jan. 7, 1949; lowest 30.44 below lsd, Oct. 7, 1948. Records available: 1946-51.

Jan. 4	11.22	Mar. 20	8.90	Aug. 1	12.42	Oct. 4	16.43
Feb. 6	9.96	Apr. 3	7.95	Sept. 4	13.36	8	16.38
Mar. 5	9.11	May 3	9.28				

Fr-Cg 1. A. B. Potts. Formerly Jesse N. Nicodemus. At Johnsville. Lat. 39°31'58", long. 77°13'58". Dug domestic water-table well in Ijamsville phyllite, diameter 36 inches, depth 43 feet; stone-lined. Land-surface datum is 586 feet above msl. Highest water level 32.40 below lsd, Jan. 10, 1949; lowest 39.81 below lsd, Nov. 6, 1951. Records available: 1946-51. Feb. 5, 36.87; Mar. 20, 36.02; May 29, 38.55; Aug. 9, 39.11; Oct. 4, 39.68; Nov. 6, 39.81; Dec. 10, 39.00.

Fr-Ee 1. Mrs. Roy Putman. Lat. 39°24'10", long. 77°22'42". Dug domestic water-table well in Frederick limestone, diameter 43 inches, depth 58 feet, stone-lined. Land-surface datum is 330 feet above msl. Highest water level 42.10 below lsd, Mar. 6, 1949; lowest 54.98 below lsd, Nov. 22, 1947, Dec. 29, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	50.54	Apr. 5	47.31	Aug. 8	48.62	Oct. 4	50.47
Feb. 16	49.40	May 7	48.44	Sept. 11	49.86	Dec. 10	52.22
Mar. 21	48.25	July 3	48.38				

Fr-Fc 1. Montgomery Orrison. Lat. 39°16'40", long. 77°31'18". Dug domestic water-table well in New Oxford formation, diameter 4½ feet, depth 28 feet, stone-lined. Land-surface datum is 240 feet above msl. Highest water level 6.00 below lsd, Jan. 10, 1949; lowest 22.97 below lsd, Oct. 10, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	12.03	Mar. 21	8.30	July 5	12.06	Oct. 1	21.27
Feb. 14	7.69	Apr. 6	9.30	Aug. 6	16.00	Dec. 5	21.91
Mar. 12	9.90	May 7	11.96				

Garrett County

Gar-Ag 1. Town of Frostburg. In Savage River valley. Lat. 39°40'20", long. 78°58'59". Drilled unused water-table well in Greenbrier limestone or Pocono formation, diameter 8 inches, depth 30 feet. Land-surface datum is 2,560 feet above msl. Highest water level 5.71 below lsd, Jan. 19, 1950; lowest 8.64 below lsd, Oct. 9, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	7.32	Apr. 12	7.23	Aug. 24	7.62	Oct. 9	8.64
Feb. 13	7.28	May 9	7.28	Sept. 14	7.77	Nov. 9	8.60
Mar. 5	7.32	June 5	7.40	Oct. 5	8.14	Dec. 13	8.04
9	6.98	July 12	7.47				

Gar-Bb 1. R. O. McCullough. At Friendsville. Lat. 39°39'45", long. 79°24'16". Dug unused water-table well in Conemaugh formation, diameter 16 inches, depth 37 feet. Land-surface datum is 1,500 feet above msl. Water level may be affected by surface water running into well. Highest water level 4.50 below lsd, Dec. 6, 1948; lowest 30.90 below lsd, Sept. 3, 1947. Records available: 1946-51. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.53	Apr. 12	12.94	June 5	24.83	Aug. 23	25.36
Feb. 7	3.95	May 9	11.50	July 12	24.35	Sept. 14	26.87
Mar. 9	9.74						

Gar-Bc 1. E. H. Ault. In Accident. Lat. 39°37'49", long. 79°19'05". Dug domestic water-table well in Catskill formation, diameter 36 inches, depth 20 feet, stone-lined. Land-surface datum is 2,415 feet above msl. Highest water level 11.69 below lsd, June 6, 1950; lowest 17.36 below lsd, Oct. 5, 1951. Records available: 1949-51. Mar. 5, 13.05; Oct. 5, 17.36.

Gar-Eb 23. Mrs. Arthur Nally (Tenant, Ray Porter). Lat. 39°24'03", long. 77°24'07". Dug unused water-table well in Catskill formation, depth 37 feet. Land-surface datum is 2,560 feet above msl. Highest water level 22.55 below lsd, Mar. 6, 1951; lowest 36.63 below lsd, Oct. 5, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 30, 1949	24.38	Oct. 25, 1950	28.57	Oct. 9, 1951	36.63	Dec. 11, 1951	22.66
June 6, 1950	24.23	Mar. 6, 1951	22.55	Nov. 9	36.62		

Harford County

Har-Cc 8. Maryland Water Works Co. At Bynum. Lat. 39°33'59", long. 76°21'57". Drilled unused water-table well in rocks of pre-Cambrian age (gabbro), depth 50 feet. Land-surface datum is 410 feet above msl. Highest water level 1.70 below lsd, Dec 10, 1951; lowest 8.57 below lsd, Sept. 10, 1947. Records available: 1946-47, 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	1.93	May 31	1.87	Aug. 15	1.88	Nov. 8	1.72
Mar. 9	1.98	July 11	1.86	Sept. 18	1.78	Dec. 10	1.70
Apr. 8	1.97						

Har-Ed 24. U. S. Army. At Army Chemical Center, Edgewood. Lat. 39°23'50", long. 76°16'21". Drilled public-supply artesian well in Patuxent formation, diameter 18 to 10 inches, depth 149 feet, cased to 135, screen at 120-135. Land-surface datum is 12.8 feet above msl. Highest water level 14.43 below lsd, Mar. 14, 1951; lowest 27.97 below lsd, Dec. 27, 1951. Records available: 1949-51.

Daily lowest water level below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.60	16.98	16.61	16.15	.....	16.10	.....	15.66	15.58	16.08	.....	22.27
2	17.27	17.58	16.36	16.09	.....	16.07	.....	16.00	15.75	15.99	.....	22.50
3	17.27	17.87	16.71	16.40	.....	16.14	.....	15.36	15.78	16.12	.....	22.70
4	17.23	17.64	16.24	16.05	.....	16.18	.....	16.10	15.98	16.16	.....	22.50
5	17.92	15.84	16.43	16.38	.....	16.16	.....	15.85	15.87	16.23	.....	22.34
6	17.60	17.17	16.50	16.26	.....	16.20	.....	15.76	15.63	15.97	.....	22.49
7	17.36	16.92	16.27	15.96	.....	15.80	.....	15.49	16.19	16.11	20.50	22.53
8	17.69	17.39	16.52	16.03	.....	15.81	.....	15.59	16.43	16.20	21.00	22.81
9	17.58	17.46	16.82	15.87	.....	16.05	.....	15.49	15.92	16.35	21.29	22.94
10	17.39	17.52	17.44	15.92	.....	15.83	.....	15.80	15.89	16.72	21.30	23.32
11	17.26	17.25	17.30	16.23	.....	15.90	15.78	16.00	15.92	16.75	21.32	23.08
12	17.44	16.70	16.61	16.19	.....	15.42	15.63	15.99	16.05	16.02	21.48	22.84
13	17.68	17.07	15.90	15.72	.....	15.42	16.08	16.25	16.05	16.70	21.17	23.97
14	17.53	17.17	15.67	15.73	.....	15.50	16.07	16.29	15.63	16.48	21.98	24.44
15	16.85	17.33	16.15	16.02	.....	.....	15.85	16.05	16.06	16.36	21.50	25.12
16	17.58	16.74	16.40	16.28	.....	.....	15.81	15.91	16.05	.....	21.38	26.03
17	17.67	16.81	16.56	16.29	.....	.....	15.76	15.97	16.15	.....	21.86	25.97
18	17.32	17.07	16.58	16.33	.....	.....	15.87	16.10	16.05	.....	22.14	25.75
19	17.15	16.87	16.42	16.33	.....	.....	15.70	15.95	16.10	.....	22.40	26.74
20	16.95	16.66	16.50	16.59	.....	.....	15.73	15.89	16.21	.....	22.40	26.51
21	17.30	16.40	16.54	16.85	.....	.....	15.80	15.81	16.15	.....	22.27	26.22
22	16.00	17.15	16.95	16.44	.....	.....	15.58	16.35	15.83	.....	21.85	26.75
23	17.38	16.85	16.70	15.98	.....	.....	16.01	16.17	16.47	.....	22.15	27.13
24	16.81	17.00	16.30	16.57	.....	.....	15.99	16.26	16.57	.....	22.49	27.39
25	16.99	16.85	16.66	16.42	.....	.....	15.75	16.10	16.04	.....	22.86	27.45
26	17.27	16.45	16.91	16.35	.....	.....	15.68	16.06	16.47	.....	22.07	27.33
27	17.15	16.31	16.67	.....	.....	.....	15.85	15.73	16.12	.....	22.69	27.97
28	17.30	16.66	16.40	.....	15.62	.....	15.85	15.95	16.56	.....	22.78	27.88
29	17.37	.....	16.41	.....	16.84	.....	15.81	16.03	16.71	.....	22.63	27.75
30	17.63	.....	16.10	.....	16.06	.....	15.83	15.80	16.32	.....	22.39	27.65
31	17.40	.....	16.18	.....	16.06	.....	15.73	15.75	.....	.....	.....	27.95

Howard County

How-Bd 1. S. D. Slack. At Slack's Corner. Lat. 39°18'10", long. 76°57'56". Dug domestic and stock water-table well in Wissahickon schist, diameter 5 to 4 feet, depth 48 feet, stone-lined. Land-surface datum is 630 feet above msl. Highest water level 33.97 below lsd, June 3, 1949; lowest 45.94 below lsd, Feb. 16, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	37.26	Apr. 6	36.39	June 8	35.36	Oct. 4	36.14
Mar. 6	36.84	May 9	35.50	Aug. 2	34.55	Nov. 8	37.17
21	35.18	29	35.29	Sept. 7	35.35	.....	.....

How-Bf 1. Maryland Water Works Co. Near Ellicott City. Lat. 39°16'50", long. 76°48'26". Drilled unused water-table well in Wissahickon schist, diameter 8 inches, depth 128 feet. Land-surface datum is 295 feet above msl. Highest water level 4.14 below lsd, Apr. 12, 1947; lowest 7.29 below lsd, Sept. 10, 1947. Records available: 1946-47. Measurement discontinued.

Montgomery County

Mont-Be 1. Mount Lebanon Church. Lat. 39°16'46", long. 77°10'05". Drilled unused water-table well in Wissahickon schist, diameter 6 inches, depth 58 feet. Land-surface datum is 710 feet above msl. Highest water level 24.10 below lsd, Mar. 17, 1949; lowest 43.62 below lsd, Jan. 12, 1950. Records available: 1949-51.

Feb. 5	39.25	May 29	30.57	Aug. 9	33.21	Nov. 6	40.74
Mar. 8	28.14	July 6	27.98	Sept. 18	40.50	Dec. 10	42.80

Mont-Cf 1. Village of Mount Zion. Lat. 39°11'00", long. 77°06'09". Dug public-supply water-table well in rocks of pre-Cambrian age, diameter 36 inches, depth 26 feet, stone-lined. Land-surface datum is 513 feet above msl. Highest water level 6.26 below lsd, Feb. 5, 1951; lowest 15.98 below lsd, Nov. 6, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	6.26	May 29	9.01	Aug. 9	10.97	Nov. 6	15.98
Mar. 8	7.15	July 6	8.25	Sept. 18	14.09	Dec. 10	14.43

Mont-Dc 1. J. D. Byrd. At Dawsonville. Lat. 39°07'43", long. 77°21'00". Drilled domestic water-table well in New Oxford formation, diameter 6 inches, reported depth 110 feet. Land-surface datum is 340 feet above msl. Highest water level 2.36 below lsd, Mar. 26, 1950; lowest 17.10 below lsd, Oct. 24, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	3.22	May 29	14.31	Aug. 9	14.49	Nov. 6	15.24
Mar. 8	3.41	July 6	5.92	Sept. 18	15.28	Dec. 10	9.22

Mont-De 1. Washington Suburban Sanitary Commission. In Gaithersburg. Lat. 39°08'31", long. 77°12'18". Drilled unused water-table well in Wissahickon schist, diameter 6 inches, depth 81 feet. Land-surface datum is 460 feet above msl. Highest water level 6.10 below lsd, lowest 57.00, Aug. 25, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.30	Mar. 27	7.65	May 28	7.95	July 6	10.64
15	8.73	Apr. 9	6.97	June 5	7.54	23	22.78
Mar. 9	10.16	17	7.01	18	6.10	Oct. 2	20.05
19	7.15	30	7.31	28	7.46	Dec. 10	15.97

Mont-Ef 8. City of Rockville. Lat. 39°04'39", long. 77°08'16". Drilled unused water-table well in Peters Creek schist, diameter 8 inches, depth 99 feet. Land-surface datum is 425 feet above msl. Highest water level 24.03 below lsd, July 29, 1949; lowest 28.47 below lsd, Sept. 26, 1949. Records available: 1949. No measurement made in 1951.

Mont-Ef 9. City of Rockville. Lat. 39°04'50", long. 77°07'48". Drilled unused water-table well in Peters Creek schist, diameter 8 inches, depth 134 feet. Land-surface datum is 370 feet above msl. Highest water level 21.54 below lsd, Apr. 12, 1947; lowest 37.38 below lsd, Oct. 24, 1946. Records available: 1946-47. No measurement made in 1951.

Mont-Eg 1. Walter M. Brown. Lat. 39°04'00", long. 77°01'31". Dug unused water-table well in Wissahickon schist, depth 20 feet, lined with loose stones. Land-surface datum is 280 feet above msl. Highest water level 11.40 below lsd, Feb. 7, 1949; lowest 18.41 below lsd, Oct. 6, 1932. Records available: 1932-51.

Daily mean water level below lsd from recorder graph

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.80	14.20	13.14	13.43	13.53	14.20	13.55	15.02	16.11	16.77	16.56	15.94
2	.....	13.88	13.20	13.40	13.51	14.22	13.59	15.07	16.16	16.78	16.24	15.96
3	.....	.....	13.26	12.82	13.52	14.23	13.66	15.09	16.19	16.81	16.07	15.98
4	.....	.....	13.26	12.88	13.59	14.10	13.68	15.11	16.22	16.82	.....	15.97
5	.....	.....	13.34	12.94	13.63	14.03	13.70	15.15	16.25	16.85	.....	15.63
6	.....	.....	13.41	12.97	13.67	14.04	13.75	15.18	16.28	16.87	.....	15.64
7	.....	.....	13.39	13.00	13.67	14.07	13.78	15.20	16.30	16.89	.....	15.67
8	.....	.....	13.46	13.04	13.69	14.00	13.81	15.23	16.33	16.85	.....	15.69
9	.....	.....	13.57	13.02	13.71	13.89	13.85	15.29	16.36	16.85	.....	15.68
10	14.09	.....	13.65	13.00	13.74	13.02	13.90	15.34	16.38	16.85	.....	15.68
11	14.10	.....	13.67	13.05	13.74	12.75	13.96	15.40	16.41	16.79	.....	15.62
12	14.10	.....	13.70	13.00	13.72	12.96	14.01	15.44	16.43	16.68	.....	15.55
13	14.24	.....	13.71	12.78	13.79	12.63	14.05	15.47	16.46	16.55	.....	15.48
14	14.24	.....	13.49	12.80	13.88	12.09	14.10	15.51	16.45	16.40	.....	15.38
15	13.95	.....	13.56	12.87	13.91	12.39	14.16	15.54	16.40	16.24	.....	15.10
16	13.80	.....	13.63	12.93	13.92	12.66	14.21	15.58	16.41	16.14	.....	14.97
17	13.86	.....	13.70	13.01	13.94	12.86	14.27	15.63	16.41	16.14	.....	14.88
18	13.88	.....	13.76	13.06	13.99	13.00	14.34	15.67	16.42	16.20	.....	14.76
19	13.91	.....	13.69	13.05	13.99	13.12	14.37	15.71	16.44	16.26	.....	.....
20	13.96	.....	12.96	13.16	14.04	13.21	14.45	15.74	16.47	16.32	.....	.....
21	13.99	.....	13.05	13.26	14.03	13.30	14.52	15.76	16.49	16.38	.....	.....
22	14.11	.....	13.10	13.31	13.93	13.36	14.57	15.80	16.51	16.43	.....	.....
23	14.16	.....	13.12	13.34	13.93	13.27	14.63	15.84	16.54	16.47	.....	.....
24	14.11	.....	13.11	13.39	13.95	13.37	14.67	15.87	16.58	16.50	.....	.....
25	14.11	.....	13.19	13.38	14.08	13.47	14.71	15.89	16.60	16.55	.....	.....
26	14.16	.....	13.26	13.39	14.13	13.57	14.75	15.92	16.63	16.58	.....	.....
27	14.21	.....	13.31	13.46	14.05	13.63	14.80	15.95	16.65	16.59	.....	.....
28	14.25	.....	13.33	13.46	13.99	13.69	14.86	15.98	16.68	16.60	.....	.....
29	14.27	.....	13.35	13.44	14.01	13.68	14.90	15.99	16.72	16.64	.....	.....
30	14.31	.....	13.34	13.46	14.11	13.59	14.93	16.02	16.74	16.66	.....	.....
31	14.33	.....	13.39	.....	14.19	.....	14.97	16.07	.....	16.68	.....	.....

Prince Georges County

PG-Ad 8. Francis Gosnell. 605½ Main St., Laurel. Lat. 39°06'21", long. 76°51'10". Dug unused water-table well in Patuxent formation, diameter 4 feet, depth 35 feet. Land-surface datum is 178.5 feet above msl. Highest water level 11.59 below lsd, Feb. 9, 1949; lowest 17.06 below lsd, Sept. 22, 1951. Records available: 1949-51. Jan. 3, 13.84; Feb. 9, 13.61; Apr. 20, 12.50; Aug. 20, 15.77; Sept. 22, 17.06; Sept. 26, 17.05; Nov. 15, 15.48.

PG-Bd 17. Beltsville Research Center. At Dairy Experiment Station. Lat. 39°01'55", long. 76°53'31". Drilled unused well in Patuxent formation, diameter 8 inches, depth 233 feet. Land-surface datum is 123.5 feet above msl. Highest water level 21.43 below lsd, Apr. 18, 1951; lowest 23.91 below lsd, Sept. 16, 1949. Records available: 1948-51. Jan. 3, 21.73; Feb. 28, 21.71; Apr. 18, 21.43; July 2, 22.24; Aug. 30, 23.05; Sept. 26, 23.21; Nov. 20, 22.45.

PG-Cc 3. Southern Oxygen Co., Inc. Lat. 38°55'41", long. 76°56'08". Drilled unused well in Patuxent formation, diameter 8 inches, depth 162 feet. Land-surface datum is 18 feet above msl. Highest water level 8.24 below lsd, Mar. 28, 1950; lowest 9.92 below lsd, Sept. 26, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	8.88	Apr. 18	8.78	July 2	9.24	Sept. 26	9.92
Feb. 14	9.10	25	8.86	Aug. 30	9.74	Nov. 27	9.79

PG-Dc 1. C. L. Jenkins & Sons. Lat. 38°51'19", long. 76°56'10". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 365 feet. Land-surface datum is 290 feet above msl. Highest water level 199.40 below lsd, Apr. 6, 1949; lowest 200.27 below lsd, Jan. 25, 1949. Records available: 1948-51. Jan. 3, 199.67; Feb. 28, 199.69; July 2, 199.67; Sept. 26, 199.83; Dec. 5, 199.56.

PG-Df 2. Dr. Bowie. Lat. 38°51'54", long. 76°43'16". Dug unused well in Nanjemoy formation, diameter 4 feet, depth 82 feet. Land-surface datum is 145 feet above msl. Highest water level 72.25 below lsd, Oct. 19, 1949; lowest 75.96 below lsd, Nov. 19, 1951. Records available: 1948-51.

Jan. 2	74.18	Feb. 13	74.09	July 2	73.30	Sept. 24	73.55
17	73.74	June 4	73.19	30	73.26	Nov. 19	75.96

PG-Df 5. Charles F. Thorington. Lat. 38°54'17", long. 76°40'39". Drilled domestic well in Aquia greensand, diameter 5 inches, depth 78 feet. Land-surface datum is 50 feet above msl. Highest water level 3.76 below lsd, Mar. 23, 1950; lowest 6.48 below lsd, Sept. 24, 1951. Records available: 1949-51.

Jan. 2	4.48	Apr. 26	4.89	July 2	4.76	Sept. 24	6.48
Feb. 13	4.23	June 4	4.70	30	5.95	Nov. 19	3.94

PG-Eb 2. Washington Suburban Sanitary Commission. In Forest Heights. Lat. 38°48'50", long. 77°00'20". Drilled public-supply artesian well in Patapsco and Patuxent formations, diameter 10 to 8 inches, depth 605 feet, screen at 277-282, 347-352, 521-526, 550-560, 600-605. Land-surface datum is 20 feet above msl. Highest water level 104.70 below lsd, Jan. 7, 1949; lowest 156.23 below lsd, Sept. 26, 1951. Records available: 1948-49, 1951. Jan. 10, 147.20; Sept. 26, 156.23. Measurement discontinued.

PG-Ec 10. Ralph E. Clark. Lat. 38°56'06", long. 76°59'34". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 252 feet, cased to 240. Land-surface datum is 58 feet above msl. Highest water level 30.90 below lsd, June 22, 1949; lowest 33.16 below lsd, Nov. 17, 1950. Records available: 1949-51. Jan. 3, 31.58; Feb. 14, 31.69; June 4, 31.70; Sept. 26, 32.23; Dec. 5, 31.95.

PG-Ef 1. Fairgrounds. In Upper Marlboro. Lat. 38°48'41", long. 76°44'34". Drilled industrial artesian well in Magothy formation, diameter 8 inches, depth 248 feet. Land-surface datum is 32 feet above msl. Highest water level 4.36 above lsd, Mar. 23, 1949; lowest 2.10 above lsd, Sept. 24, 1951. Records available: 1947-51. Jan. 2, +3.32; Feb. 14, +3.39; July 30, +3.00; Aug. 31, +2.45; Sept. 24, +2.10; Dec. 5, +2.17.

PG-Fd 16. A. T. Robinson. Lat. 38°41'00", long. 76°52'21". Dug stock water-table well in deposits of Pliocene age, diameter 4 feet, reported depth 22 feet. Land-surface datum is 225 feet above msl. Highest water level 8.50 below lsd, Apr. 6, 1949; lowest 17.64 below lsd, Dec. 28, 1949. Records available: 1949-51. Jan. 2, 11.98; Feb. 13, 12.40; June 4, 12.61; July 2, 12.80; Sept. 24, 15.12; Nov. 19, 15.95.

St. Marys County

St. M.-Bb 2. U. S. Navy railroad. In New Market. Lat. 38°28'50", long. 76°46'34". Dug unused water-table well in deposits of Pleistocene age, diameter 4 feet, depth 11 feet, cribbed with brick. Land-surface datum is 170 feet above msl. Highest water level 3.55 below lsd, Mar. 9, 1949; lowest 7.46 below lsd, Sept. 16, 1949. Records available: 1947, 1949-51. Feb. 14, 4.76; Apr. 12, 4.32; May 25, 4.64; Sept. 27, 6.20; Nov. 20, 5.42.

St. M.-Db 24. Clifton Downs. Lat. 38°17'17", long. 76°46'29". Dug unused water-table well in deposits of Pleistocene age, diameter 30 inches, depth 10 feet, cribbed with brick. Land-surface datum is 50 feet above msl. Highest water level 3.06 below lsd, Apr. 6, 1950; lowest 8.33 below lsd, Oct. 14, 1949. Records available: 1949-51. Feb. 13, 3.08; Apr. 13, 3.29; Sept. 27, 7.81; Nov. 20, 6.31.

St. M.-Df 23. C. S. Piggott. Lat. 38°18'00", long. 76°27'59". Drilled domestic artesian well in Eocene sediments, diameter 6 inches, depth 260 feet, cased to 251. Land-surface datum is 22 feet above msl. Highest water level 31.02 below lsd, Nov. 14, 1946; lowest 39.93 below lsd, July 9, 1951. Records available: 1947, 1949-51. Feb. 14, 36.71; Apr. 13, 36.16; May 19, 36.20; July 9, 39.93; Sept. 28, 34.38; Nov. 20, 34.75.

St. M.-Df 24. Frank Borley. Lat. 38°19'17", long. 76°29'44". Drilled domestic artesian well in sediments of Eocene age, diameter 1½ inches, depth 280 feet. Land-surface datum is 8 feet above msl. Highest water level 3.85 below lsd, Nov. 14, 1946; lowest 5.99 below lsd, Nov. 20, 1951. Records available: 1947, 1949-51. Feb. 14, 5.39; Apr. 12, 4.70; May 19, 5.18; Sept. 27, 5.48; Nov. 20, 5.99.

St. M.-Df 26. Thomas K. Clark. Lat. 38°17'33", long. 76°29'39". Dug unused water-table well in deposits of Pleistocene age, diameter 48 to 36 inches, depth 58 feet, cribbed with brick. Land-surface datum is 110 feet above msl. Highest water level 50.57 below lsd, June 6, 1949; lowest 54.33 below lsd, Nov. 20, 1951. Records available: 1947, 1949-51. Feb. 14, 54.24; Apr. 12, 53.72; May 25, 53.93; July 9, 53.95; Sept. 30, 53.74; Nov. 20, 54.33.

St. M.-Ee 23. State of Maryland. Lat. 38°13'23", long. 76°34'16". Dug water-table well in deposits of Pleistocene age, diameter 36 inches, depth 8 feet. Land-surface datum is 15 feet above msl. Highest water level 2.06 below lsd, Apr. 6, 1950; lowest 2.96 below lsd, Dec. 21, 1949. Records available: 1949-51. Feb. 13, 2.07; Apr. 13, 2.89; May 23, 2.70; July 4, 2.41; Sept. 27, 2.78; Nov. 20, 2.19.

St. M.-Ee 24. State of Maryland. Lat. 38°14'19", long. 76°33'16". Dug water-table well in deposits of Pleistocene age, diameter 36 inches, depth 6 feet. Land-surface datum is 90.8 feet above msl. Highest water level 1.74 below lsd, Aug. 3, 1949; lowest 8.80 below lsd, Sept. 28, 1949. Records available: 1949-51. Feb. 13, 2.33; Apr. 13, 2.49; Sept. 27, 3.12; Nov. 20, 2.74.

St. M.-Ef 27. J. A. Coad. At Portobello. Lat. 38°10'37", long. 76°27'10". Drilled unused artesian well in Aquia greensand, diameter 1½ inches, depth 438 feet. Land-surface datum is 1 foot above msl. Highest water level 7.09 below lsd, May 3, 1950; lowest 10.76 below lsd, Nov. 22, 1951. Records available: 1949-51. Feb. 13, 9.19; Apr. 13, 9.29; May 22, 8.92; July 20, 9.89; Sept. 27, 10.48; Nov. 22, 10.76.

St. M.-Eg 3. Mrs. J. W. Elms. Lat. 38°12'02", long. 76°22'34". Drilled domestic artesian well in sediments of Eocene age, diameter 1½ inches, depth 339 feet, cased to 210. Land-surface datum is 15 feet above msl. Highest water level 12.80 below lsd, Mar. 25, 1947; lowest 16.38 below lsd, Nov. 20, 1951. Records available: 1947, 1949-51. Feb. 14, 15.70; May 23, 15.24; July 20, 15.72; Sept. 27, 15.62; Nov. 20, 16.38.

St. M.-Fg 4. John A. Bradburn. Lat. 38°06'31", long. 76°21'00". Drilled domestic artesian well in sediments of Eocene age, diameter 1½ inches, depth 420 feet, cased to 231. Land-surface datum is 10 feet above msl. Highest water level 7.92 below lsd, Mar. 25, 1947; lowest 10.69 below lsd, Mar. 9, 1949. Records available: 1947, 1949-51. Feb. 14, 9.66; Apr. 13, 9.37; July 20, 9.73; Sept. 27, 9.94; Nov. 20, 10.25.

Washington County

Wa-Ac 1. Susan Creager. At Hancock. Lat. 39°41'59", long. 78°10'31". Drilled unused well in Romney shale, diameter 4 inches, depth 86 feet. Land-surface datum is 450 feet above msl. Highest water level 43.50 below lsd, Jan. 3, 1947; lowest 55.26 below lsd, Aug. 4, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	51.13	Apr. 10	49.46	Aug. 25	54.77	Oct. 5	54.56
Feb. 13	50.11	30	50.30	Sept. 11	54.39	Nov. 13	54.52
Mar. 6	50.71	June 8	53.34	Oct. 4	54.61	Dec. 7	53.33
7	50.99	July 5	53.25				

Wa-Be 2. State of Maryland. In Fort Frederick State Park. Lat. 39°36'40", long. 78°00'20". Dug unused water-table well in Romney shale, diameter 42 inches, depth 43 feet, cribbed with stone. Land-surface datum is 480 feet above msl. Highest water level 18.93 below lsd, Apr. 15, 1951; lowest 35.21 below lsd, Dec. 2, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	24.44	Apr. 1	19.56	July 15	29.70	Sept. 30	34.43
17	26.35	15	18.93	Aug. 1	31.86	Oct. 4	34.49
Feb. 3	25.16	May 3	24.20	16	33.15	14	34.63
15	23.44	16	26.50	Sept. 1	33.90	Nov. 7	34.92
Mar. 2	21.03	June 1	29.21	16	34.17	Dec. 2	35.21
15	21.26	17	27.41				

Wa-Bf 1. State of Maryland. Clear Spring. Lat. 39°39'19", long. 77°56'13". Dug unused water-table well in Elbrook or Conococheague limestone, depth 35 feet. Land-surface datum is 600 feet above msl. Highest water level 25.91 below lsd, Mar. 7, 1951; lowest 32.63 below lsd, Nov. 30, 1949. Records available: 1949-51. Mar. 7, 25.91; Oct. 3, 29.05; Oct. 4, 29.40; Dec. 4, 31.05.

Wa-Bh 3. Mel Sword. Lat. 39°39'00", long. 77°46'31". Dug and drilled domestic and farm water-table well in Stones River or Beekmantown limestone, depth 218 feet. Land-surface datum is 545 feet above msl. Highest water level 16.28 below lsd, Dec. 7, 1950; lowest 40.14 below lsd, June 5, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	22.65	Apr. 3	22.32	July 10	24.70	Oct. 3	40.10
Feb. 7	22.37	May 1	23.49	Aug. 2	38.97	4	39.91
Mar. 6	19.89	June 5	38.30	Sept. 5	37.44	Dec. 4	38.98
7	20.31						

Wa-Dh 1. John Murphy. At Sharpsburg. Lat. 39°27'23", long. 77°45'08". Dug domestic water-table well in Conococheague limestone, diameter 36 inches, depth 29 feet, stone-lined. Land-surface datum is 440 feet above msl. Highest water level 17.78 below lsd, Feb. 7, 1951; lowest 31.89 below lsd, Apr. 28, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	25.94	Apr. 4	24.40	July 9	25.39	Oct. 5	26.00
Feb. 7	17.78	May 2	27.45	Aug. 3	25.50	5	26.09
Mar. 7	24.39	June 6	25.07	Sept. 6	27.73	Dec. 6	24.37
7	24.20						

EASTERN SHORE

By D. H. Boggess and W. C. Rasmussen

Scope of Water-Level Program

The observation-well program in the Eastern Shore of Maryland, begun in 1949, was continued in 1951 in cooperation with the State Department of Geology, Mines and Water Resources. Prior to 1949 measurements were made in wells in Dorchester, Kent, and Wicomico Counties. In 1951 measurements were made in 24 wells, 2 of which were equipped with recording gages. Location of observation wells is shown on figure 23. A report entitled "Notes on the Geology and Ground-water Resources of the Cambridge area, Md." by W. C. Rasmussen and T. H. Slaughter, was published for limited distribution by the U. S. Geological Survey. It may be consulted at the Salisbury cooperative ground-water office, at the Geological Survey Library in Washington, D. C., and at the Public Library in Cambridge, Md.

Precipitation

The mean annual precipitation for 1951 for 15 stations in the nine counties of the Eastern Shore was 42.70 inches. This is 0.53 inch less than the average precipitation for 36 years of record. The cumulative departure of precipitation for the period September 1, 1949 to December 31, 1951 was 4.47 inches below normal.

Interpretation of Water-Level Fluctuations

Monthly averages of water levels in 14 water-table wells show an average rise in water level of about 1.1 feet from January 1 to March 31. From April 1 to October 1 the average water level declined about 2.6 feet. This recession was caused principally by the high ground-water evapotranspiration during the growing season which ends in October. From October 1 to December 31 average water levels rose 1.8 feet in response to increased precipitation and the decrease in evapotranspiration.

An artesian well (Dor-Bd 2) to the 400-foot aquifer at Cambridge was equipped with a recording gage on July 20, 1951. The water level shows an average tidal fluctuation of 1.2 feet in response to 1.9 feet of tide. The water level was lowered 11 feet from July to October. The daily pumping rate for that period was about 3 million gallons. Pumping during the remainder of the year averaged about 2 million gallons a day.

Water levels in well Care-Dc 56, to the 90-140 foot aquifer, in West Denton, showed a gradual decline of 3 feet from June through October. Pumpage from this 90-140 foot aquifer was estimated to be 200 thousand gallons a day during 1951.

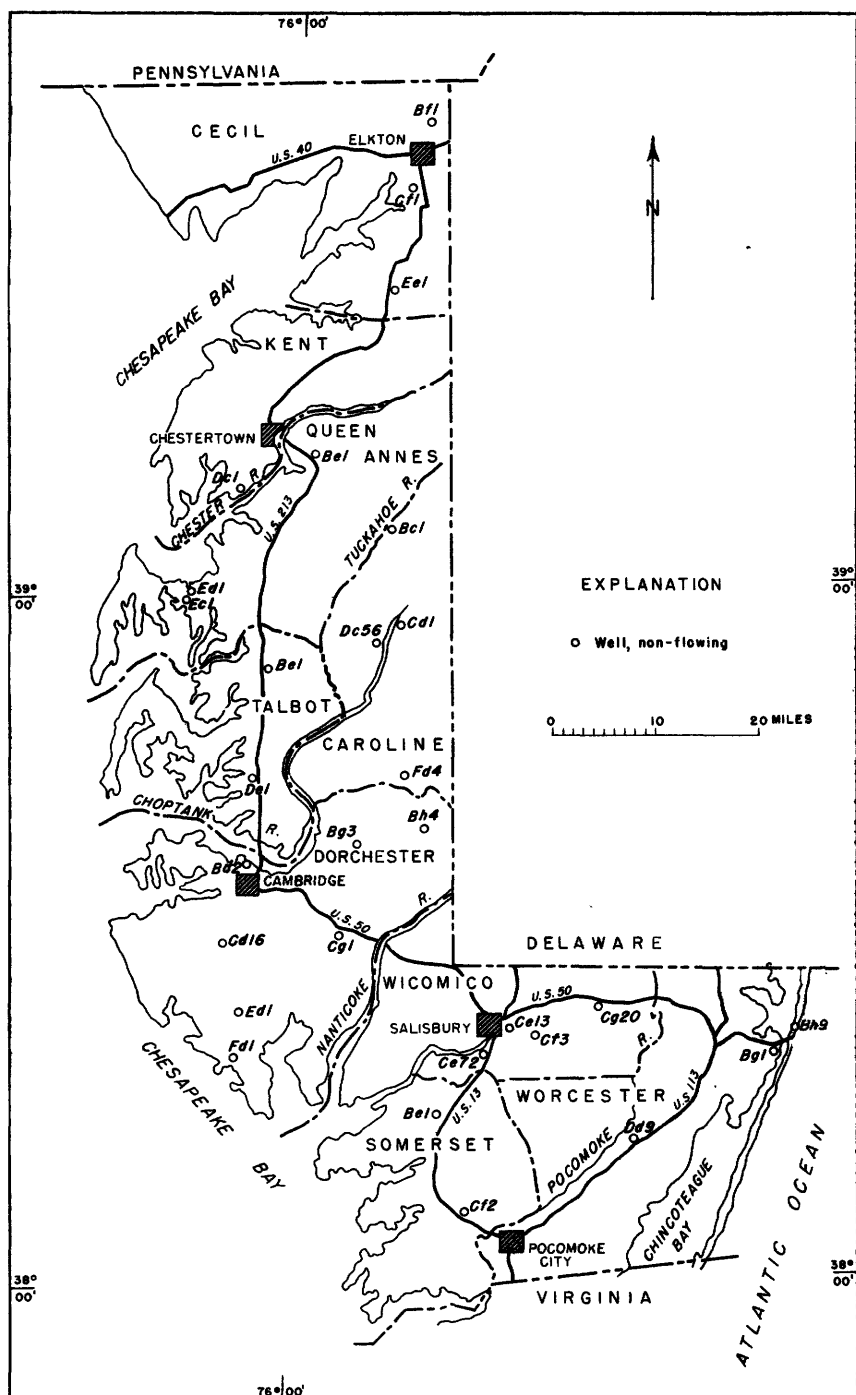
A graph showing precipitation, pumpage, and water level fluctuations for the area near well Wi-Ce 13 is shown with the hydrograph of Wi-Ce 13 in figure 24. During 1951 the water level in well Wi-Ce 13 averaged 3.4 feet higher than in 1947; 1.5 feet higher than in 1948; 0.03 foot higher than in 1949; and 0.69 foot higher than in 1950. This upward trend of water level in well Wi-Ce 13 is due principally to a change in the center of pumping. Five new water-table wells were added to the Salisbury well field in 1949; two of the original eight water-table wells were placed on a standby basis. The new wells were drilled in an area 2,000 feet southeast of observation well Wi-Ce 13. The pumping rate for the Salisbury well field has increased from an average of about 2.2 million gallons a day in 1947 to 2.3 million gallons a day in 1951.

Well-Numbering System

Each county is subdivided into 5-minute quadrangles formed by lines of longitude and latitude. The wells are numbered consecutively in each quadrangle. For example, Care-Dc 56: "Care" denotes Caroline County; "D" indicates the fourth quadrangle from the top (north) of the county map; "c" indicates the third quadrangle from the left side (west) of the map.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below lsd unless otherwise indicated. When some measurements in a table are above and others are below the plane of reference appropriate signs are placed to indicate a change; readings that are between minus (-) signs are considered below the plane of reference; and those between plus (+) signs are considered above the plane of reference. A plus or minus sign is placed immediately preceding the first entry in each column of each mixed table.)



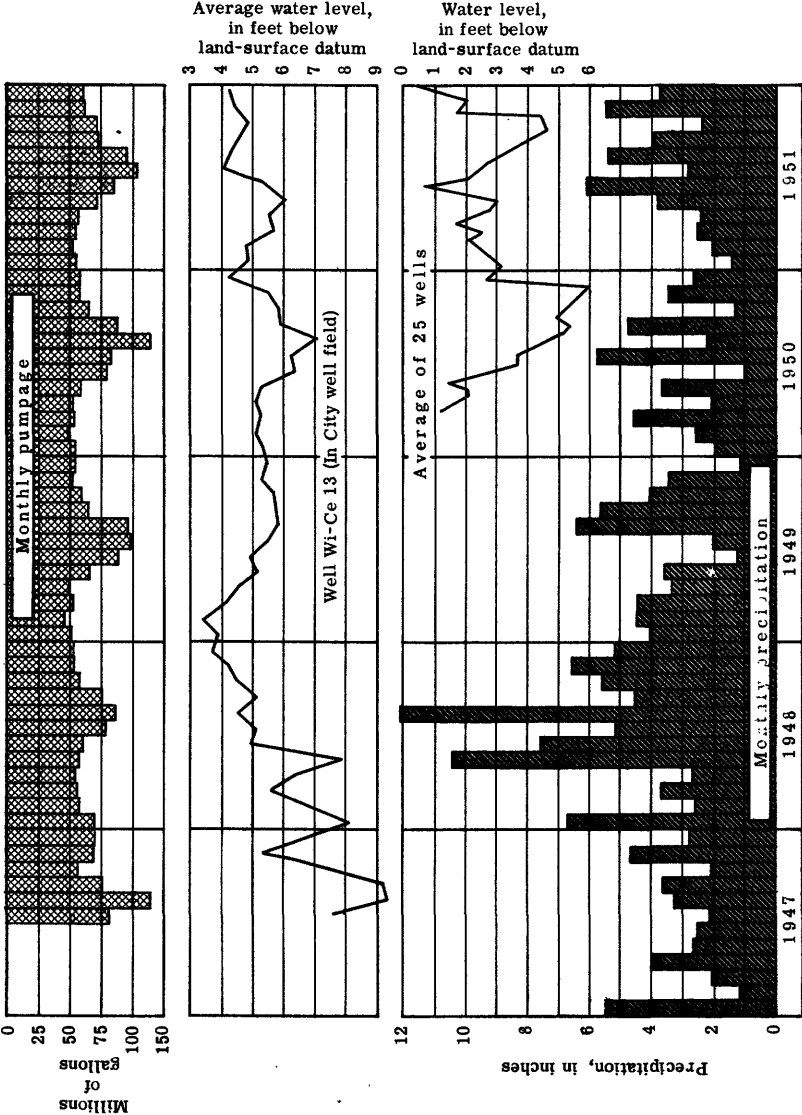


Figure 24. --Pumpage from the Salisbury well field, water level in well Wi-Ce 13, average water level in 25 wells, and precipitation at Salisbury.

Caroline County

Care-Bc 1. W. Colliers. Near Ingleside. Driven water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 20 feet. Highest water level 0.25 above lsd, Nov. 27, 1951; lowest 2.72 below lsd, Oct. 29, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	-0.19	May 1	-0.39	July 30	-0.43	Oct. 29	-0.75
31	.22	30	.49	Aug. 31	1.50	Nov. 27	+ .25
Mar. 1	.05	July 2	.46	Oct. 1	1.02	Dec. 29	+ .12
Apr. 2	.06						

Care-Cd 1. Lane Chicken Farm. Near Denton. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 10 feet. Highest water level 1.25 below lsd, Dec. 29, 1951; lowest 6.87 below lsd, Aug. 17, 1949. Records available: 1949-51.

Jan. 31	2.68	May 1	2.59	Aug. 1	3.42	Oct. 31	5.74
Mar. 2	4.12	31	3.14	30	5.09	Nov. 27	2.68
Apr. 7	1.92	July 3	3.52	Sept. 28	5.54	Dec. 29	1.25

Care-Dc 56. Denton Cemetery Association. West Denton. Drilled unused artesian well in sand of Miocene age, diameter 6 inches, depth 137 feet. Highest water level 17.00 below lsd, July 5, 1951; lowest 20.52 below lsd, Oct. 31, 1951. Records available: 1951.

June 18	17.57	July 3	17.60	Aug. 23	18.07	Oct. 31	20.52
22	17.36	5	17.00	30	18.20	Nov. 27	20.11
28	17.59	Aug. 13	18.05	Sept. 28	19.22	Dec. 25	20.24
July 2	17.41	14	18.11				

Care-Fd 4. N. Lannule. Near Federalsburg. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 9 feet. Highest water level 0.78 below lsd, Dec. 29, 1951; lowest 6.49 below lsd, Oct. 29, 1949. Records available: 1949-51.

Jan. 31	1.30	May 1	1.02	Aug. 1	1.63	Oct. 31	3.51
Mar. 2	1.14	31	1.76	31	3.26	Nov. 27	.92
Apr. 7	.97	July 2	2.15	Sept. 28	3.11	Dec. 29	.78

Cecil County

Ce-Bf 1. Philadelphia, Baltimore & Wilmington Railroad. Near Iron Hill Station. Drilled unused artesian well in sand of Cretaceous age, diameter 6 inches, depth 71 feet. Highest water level 5.69 below lsd, Apr. 2, 1951; lowest 9.48 below lsd, Aug. 28, 1950. Records available: 1949-51.

Jan. 2	7.43	May 1	7.26	July 31	7.42	Oct. 29	8.82
30	6.11	31	7.32	Aug. 31	8.40	Dec. 1	6.77
Feb. 28	6.18	July 2	7.61	Oct. 1	8.99	29	6.09
Apr. 2	5.69						

Ce-Cf 1. State Roads Commission. Near Elkton. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 10 feet. Highest water level 2.07 below lsd, Mar. 1, 1951; lowest 5.44 below lsd, Aug. 28, 1950. Records available: 1949-51.

Jan. 2	2.95	Apr. 30	2.56	July 30	3.10	Oct. 29	3.86
31	2.72	May 30	2.88	Aug. 31	4.40	Nov. 29	3.10
Mar. 1	2.07	July 2	3.61	Oct. 1	4.97	Dec. 29	2.27
Apr. 2	2.09						

Ce-Ee 1. State Roads Commission. Near Cecilton. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 20 feet. Highest water level 5.65 below lsd, Dec. 29, 1951; lowest 10.32 below lsd, Oct. 26, 1950. Records available: 1949-51.

Jan. 2	9.86	Apr. 30	6.18	Aug. 31	7.85	Nov. 16	8.36
31	9.44	May 30	6.62	Oct. 1	8.63	27	8.66
Mar. 1	7.17	July 2	7.22	29	9.07	Dec. 29	5.65
Apr. 2	6.70	30	6.98				

Dorchester County

Dor-Bd 2. Carleton Slagle. Near Cambridge. Drilled unused artesian well in sand of Jackson formation, diameter 6 inches, depth 380 feet. Highest water level 64.25 below lsd, July 20, 1951; lowest 75.27 below lsd, Sept. 8, 1951. Records available: 1951.

Dor-Bd 2--Continued.

Daily highest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 20	64.25	Sept. 18	73.16	Oct. 28	72.90	Nov. 27	e68.97
21	64.34	19	73.08	29	e72.88	28	68.83
22	64.99	20	73.25	30	72.23	Dec. 1	68.69
23	65.88	21	73.25	31	72.18	2	68.79
Aug. 1	65.79	22	73.35	Nov. 1	72.34	3	68.43
2	66.39	23	73.07	2	e72.31	4	67.86
3	66.06	24	72.34	6	71.85	5	67.81
4	66.55	25	72.04	7	70.63	6	68.19
5	66.17	26	72.32	8	70.87	7	68.38
6	65.58	27	72.19	9	72.12	8	68.63
8	65.28	28	72.60	10	71.68	9	68.25
9	65.68	29	73.28	11	71.19	10	68.29
10	66.15	30	72.64	12	70.77	11	67.80
11	66.45			13	69.10	12	67.53
18	68.85	Oct. 1	71.92	14	68.61	13	67.25
19	69.05	2	71.98	15	69.07	14	68.36
20	69.01	16	71.39	16	68.69	15	68.20
21	69.01	17	71.35	17	69.17	16	69.45
Sept. 6	72.85	18	71.43	18	69.29	17	68.42
9	73.90	19	71.63	19	69.36	18	67.85
10	73.40	20	72.22	20	69.97	19	68.63
11	73.31	21	71.95	21	69.51	20	68.51
12	73.73	22	71.62	22	69.46	21	67.90
13	73.75	23	e71.68	23	69.70	22	68.68
14	73.65	24	71.82	24	69.70	29	64.77
15	73.91	25	72.23	25	68.80	30	64.33
16	73.97	26	73.18	26	68.17	31	64.05
17	73.63	27	73.12				

e Estimated.

Daily lowest water level from recorder graph

July 20	65.23	Sept. 15	74.99	Oct. 26	e73.90	Nov. 26	69.13
21	65.63	16	75.00	27	74.03	27	69.92
22	66.13	17	74.75	28	e74.09	28	69.98
23	66.98	18	74.39	29	e73.70	Dec. 1	e69.65
24	67.07	19	73.98	30	73.23	2	e69.73
Aug. 1	67.00	20	74.13	31	73.23	3	e69.54
2	67.40	21	74.08	Nov. 1	73.71	4	69.10
3	67.19	22	73.93	2	73.59	5	68.72
4	67.62	23	73.75	6	72.88	6	69.02
5	e67.22	24	73.99	7	71.85	7	e69.11
6	e66.75	25	72.72	8	72.54	8	e69.20
8	66.06	26	73.25	9	72.78	9	e69.09
9	66.41	27	72.88	10	72.65	10	69.34
10	67.19	28	73.90	11	e72.17	11	69.00
11	67.92	29	74.19	12	e71.95	12	68.59
17	69.73	30	73.97	13	71.35	13	69.35
18	70.04	Oct. 1	72.97	14	70.80	14	69.52
19	70.10	2	72.97	15	70.65	15	69.58
20	70.02	16	72.43	16	70.73	16	70.15
21	69.95	17	72.26	17	71.13	17	e69.75
Sept. 5	73.62	18	72.27	18	71.14	18	e68.97
6	73.69	19	72.55	19	70.72	19	69.93
8	75.27	20	73.01	20	70.63	20	69.65
9	74.73	21	72.68	21	70.49	21	68.95
10	74.44	22	72.47	22	70.05	22	69.35
11	74.41	23	72.29	23	70.33	29	65.60
12	74.82	24	72.54	24	70.40	30	65.49
13	74.58	25	73.80	25	70.65	31	65.18
14	74.70						

e Estimated.

Dor-Bg 3. Pennsylvania Railroad. Near Hurlock. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 21 feet. Highest water level 7.27 below lsd, Dec. 28, 1951; lowest 9.57 below lsd, Oct. 30, 1951. Records available: 1951.

Dor-Bg 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 4	9.31	May 31	9.35	Aug. 28	9.54	Nov. 27	8.56
Apr. 2	9.14	July 4	8.79	Oct. 7	9.55	Dec. 28	7.27
30	9.23	31	9.17	30	9.57		

Dor-Bh 4. State Roads Commission. Finchville. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 18 feet. Highest water level 1.82 below lsd, Dec. 29, 1951; lowest 5.69 below lsd, Feb. 6, 1951. Records available: 1951.

Feb. 6	5.69	May 1	3.16	Aug. 1	4.20	Oct. 30	4.88
Mar. 2	3.15	31	3.06	28	3.74	Nov. 27	2.33
Apr. 2	2.98	July 2	3.49	Oct. 7	4.83	Dec. 29	1.82

Dor-Cd 16. State Roads Commission. Church Creek. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Highest water level 1.13 below lsd, Apr. 2, 1951; lowest 3.44 below lsd, Oct. 30, 1951. Records available: 1951.

Feb. 7	1.53	Apr. 30	1.25	July 31	2.79	Oct. 30	3.44
Mar. 5	1.67	May 31	1.50	Aug. 28	3.35	Nov. 27	2.18
Apr. 2	1.13	July 5	1.55	Oct. 7	3.38	Dec. 28	1.24

Dor-Cg 1. State Roads Commission. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 12 feet. Highest water level 0.43 below lsd, Mar. 28, 1950; lowest 4.42 below lsd, Oct. 26, 1949. Records available: 1949-51.

Mar. 2	1.07	May 31	1.65	Aug. 28	3.45	Nov. 27	1.02
Apr. 2	1.06	July 4	1.67	Oct. 7	3.37	Dec. 28	.51
30	1.30	30	1.97	31	3.35		

Dor-Ed 1. R. L. Simmons. Andrews. Drilled unused artesian well in sand of Jackson formation, diameter $1\frac{1}{2}$ inches, depth 411 feet. Highest water level 19.60 below lsd, July 5, 1951; lowest 20.95 below lsd, Aug. 28, 1951. Records available: 1951.

Jan. 29	20.14	Apr. 30	19.79	July 31	20.61	Oct. 30	20.40
Feb. 6	20.11	May 31	19.87	Aug. 28	20.95	Nov. 27	20.59
Mar. 4	19.91	July 5	19.60	Oct. 7	20.28	Dec. 28	20.82
Apr. 2	19.74						

Dor-Fd 1. State Roads Commission. Crapo. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 17 feet. Highest water level 0.41 below lsd, Dec. 28, 1951; lowest 4.00 below lsd, Oct. 7, 1951. Records available: 1951.

Mar. 4	0.81	May 31	1.70	Aug. 28	3.01	Nov. 27	0.70
Apr. 2	.86	July 5	2.20	Oct. 7	4.00	Dec. 28	.41
30	.63	31	3.39	30	3.40		

Kent County

Ken-Dc 1. Catherine Overbeck. Near Deep Point. Drilled domestic artesian well in sand of Eocene age, diameter 6 inches, depth 87 feet. Highest water level 8.45 below lsd, May 3, 1947; lowest 10.54 below lsd, Nov. 27, 1951. Records available: 1947-48, 1951. Nov. 27, 10.54; Dec. 29, 9.75.

Queen Annes County

QA-Be 1. State Roads Commission. Near Chestertown. Highest water level 0.93 below lsd, Mar. 31, 1950; lowest 3.19 below lsd, Oct. 26, 1950. Records available: 1949-50. No measurement made in 1951.

QA-Ec 1. Carey Washington. Formerly Ed 1. U. S. Highway 50. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 21 feet. Highest water level 0.88 below lsd, Apr. 2, 1951; lowest 7.98 below lsd, Oct. 27, 1949. Records available: 1949-51.

Jan. 2	1.55	Apr. 28	1.16	July 30	4.24	Oct. 29	6.49
31	1.14	May 30	2.65	Aug. 31	5.28	Nov. 29	5.61
Mar. 1	.89	July 2	2.93	Oct. 1	6.05	Dec. 29	2.03
Apr. 2	.88						

Somerset County

Som-Be 1. State Roads Commission. Near Princess Anne on State Highway 362. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 22 feet. Highest water level 0.15 below lsd, Mar. 30, 1950; lowest 3.91 below lsd, Aug. 16, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.01	May 1	0.81	July 30	2.72	Nov. 2	3.25
Feb. 26	.55	31	1.10	Sept. 4	3.29	29	1.10
Mar. 29	.67	July 6	2.33	Oct. 2	3.53	Dec. 28	.24

Som-Cf 2. State Roads Commission. Near Pocomoke City. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 15 feet. Highest water level 0.83 below lsd, Mar. 30, 1950; lowest 5.95 below lsd, Nov. 29, 1950. Records available: 1949-51.

Jan. 30	2.93	May 1	0.93	July 30	4.65	Nov. 2	5.68
Feb. 26	1.45	31	1.70	Sept. 4	5.48	29	3.81
Mar. 29	1.10	July 6	3.49	Oct. 2	5.63	Dec. 28	1.06

Talbot County

Tal-Be 1. Fred J. Hall. Near Easton on U. S. Highway 50. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 16 feet. Highest water level 11.21 below lsd, Mar. 2, 1951; lowest 13.57 below lsd, Oct. 26, 1949. Records available: 1949-51.

Jan. 31	11.59	Apr. 28	11.32	July 30	12.68	Oct. 30	12.91
Mar. 2	11.21	May 31	11.86	Sept. 4	13.51	Nov. 27	11.90
Apr. 2	11.27	July 4	12.40	26	13.28	Dec. 29	11.25

Tal-De 1. L. Lowman. Near Easton. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 16 feet. Highest water level 1.96 below lsd, Dec. 29, 1951; lowest 7.55 below lsd, Feb. 3, 1950. Records available: 1949-51.

Jan. 31	6.04	Apr. 28	4.14	July 30	7.06	Oct. 30	7.40
Mar. 4	4.57	May 31	5.18	Sept. 4	6.65	Nov. 27	5.55
Apr. 2	4.19	July 4	5.48	26	6.86	Dec. 29	1.96

Wicomico County

Wi-Ce 13. City of Salisbury. On south bank of South Prong of Wicomico River, 600 feet east of dam. Drilled unused water-table well in sand of Pleistocene age, diameter 16 to 10 inches, depth 65 feet. Highest water level 1.07 below lsd, Aug. 5, 1948; lowest 10.72 below lsd, Aug. 30, 1947. Records available: 1947-51.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.60	4.32	5.32	4.79	....	5.91	4.42	3.50	4.30	3.97	3.88	3.53
2	4.46	4.39	5.52	4.71	5.67	5.91	4.45	3.63	4.10	4.41	3.78	3.49
3	4.42	4.95	5.75	4.87	5.51	5.91	4.29	3.54	3.90	4.12	3.55	3.62
4	4.40	4.60	5.34	4.73	5.60	6.21	3.68	3.49	4.10	4.08	3.71	3.80
5	4.76	4.38	5.36	4.91	5.65	5.71	3.63	3.46	4.00	4.09	4.14	3.80
6	4.58	4.62	5.73	4.89	5.47	5.34	4.41	3.42	3.90	3.92	....	3.82
7	4.45	4.21	5.83	4.89	5.28	5.07	3.78	3.45	3.89	4.27	....	3.92
8	....	4.44	5.78	4.75	5.69	4.97	3.70	3.38	3.77	4.38	....	3.71
9	....	4.78	5.59	4.70	5.64	4.85	3.63	3.48	4.06	4.36	....	3.62
10	....	4.84	6.19	4.75	5.84	4.46	3.41	3.62	4.01	4.39	4.16	3.70
11	....	4.60	6.11	4.87	5.69	4.28	3.68	3.70	3.87	4.40	4.12	3.68
12	....	4.45	5.69	4.87	5.45	4.47	3.63	3.70	3.89	4.19	4.39	3.63
13	....	4.79	5.48	4.83	5.53	4.59	3.68	3.74	3.83	4.27	4.09	3.72
14	....	4.81	4.95	4.72	5.52	4.60	3.62	3.75	3.95	4.44	4.25	3.50
15	....	5.04	4.89	4.88	5.58	4.63	3.57	3.96	3.86	4.30	3.98	3.43
16	4.73	4.84	5.05	5.13	5.66	4.65	3.41	4.08	4.05	4.32	3.98	3.58
17	4.89	4.78	4.99	5.39	6.27	4.73	3.31	3.96	3.88	4.18	3.85	4.02
18	4.88	4.83	5.03	5.09	5.96	4.69	3.41	4.16	4.07	4.49	3.72	3.82
19	4.70	4.75	4.82	4.87	5.79	4.50	3.44	4.18	4.05	4.42	3.68	3.69
20	4.60	4.54	4.61	5.23	5.79	5.68	3.46	3.81	4.06	4.19	3.72	3.68
21	4.60	4.18	4.86	5.16	5.74	5.07	3.44	4.03	4.19	4.27	3.80	3.54
22	4.98	4.47	4.79	5.36	5.88	4.68	3.50	4.04	4.21	4.14	3.65	3.60
23	4.77	4.43	4.72	5.08	5.61	4.34	3.48	3.99	4.39	4.13	3.61	3.65
24	4.49	4.51	4.68	5.19	5.49	4.77	3.28	4.18	4.25	4.18	3.55	3.40
25	4.53	4.66	4.78	5.15	5.37	4.74	3.20	3.96	4.12	4.18	3.80	3.51

Wi-Ce 13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	4.73	4.49	4.91	5.18	5.45	4.62	3.19	3.89	3.78	4.01	3.69	3.46
27	4.64	4.37	5.02	5.26	5.48	4.42	3.26	4.18	3.95	4.05	3.59	3.50
28	4.79	4.78	4.79	5.30	5.54	4.47	3.37	4.07	4.05	3.98	3.85	3.72
29	4.71		4.90	5.28	5.49	4.53	3.37	4.20	4.03	4.09	3.64	3.80
30	4.97		4.80	5.29	5.49	4.43	3.29	4.13	4.12	4.10	3.59	3.52
31	4.80		4.82		5.90		3.44	4.46		3.98		3.48

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.81	4.97	6.26	5.66	....	6.80	4.81	4.68	5.42	5.77	4.16	4.08
2	4.84	4.96	6.46	5.93	6.49	6.79	4.72	4.49	5.18	5.42	4.00	4.89
3	4.85	4.98	6.54	5.80	6.47	6.95	4.68	4.49	5.09	5.49	4.81	5.31
4	4.92	4.98	6.38	5.84	6.63	6.94	4.29	4.28	5.18	5.40	5.28	5.42
5	4.93	4.91	6.63	5.95	6.65	6.54	5.38	3.48	5.18	5.08	e5.29	5.52
6	4.89	4.95	6.78	6.13	6.50	5.71	5.24	e4.28	4.99	5.77	....	5.60
7	4.91	4.95	6.76	5.91	6.68	5.95	4.51	4.32	4.80	5.82	....	5.41
8	....	4.78	6.71	5.94	6.70	5.77	4.00	4.26	5.01	5.62	....	5.09
9	....	4.85	6.73	6.03	6.77	4.98	4.51	4.42	5.31	5.62	e5.69	5.31
10	....	4.86	6.88	5.99	6.76	5.11	4.62	4.68	5.16	5.78	5.61	5.01
11	....	4.86	6.89	6.02	6.66	5.28	4.64	4.69	4.50	5.81	5.66	5.28
12	....	4.84	6.50	5.56	6.32	5.21	4.62	4.77	4.99	5.43	5.64	5.37
13	....	4.97	6.36	5.85	6.43	5.66	4.48	4.70	5.05	5.69	5.65	4.45
14	....	5.06	5.72	5.96	6.33	6.01	4.50	4.77	5.12	5.60	5.90	5.20
15	4.74	5.08	5.92	5.82	6.50	5.96	4.30	4.98	5.45	5.85	5.83	e5.20
16	4.88	5.07	5.89	5.99	6.83	5.95	4.27	5.08	5.20	5.50	5.58	e5.20
17	4.93	5.02	5.92	6.13	7.02	6.28	4.13	5.16	5.22	5.75	5.37	5.61
18	4.94	4.99	5.98	6.25	6.98	5.25	4.13	5.21	5.11	5.68	3.95	5.41
19	4.94	4.96	5.67	5.91	6.76	5.97	4.18	5.15	5.39	5.60	5.00	5.44
20	4.95	4.93	5.52	6.06	6.62	6.18	4.20	4.92	5.64	5.68	5.27	5.39
21	4.98	4.84	5.87	6.22	6.78	6.20	4.50	5.21	5.50	5.60	4.99	5.37
22	5.27	4.82	5.91	6.18	6.69	5.71	4.58	5.05	5.82	5.69	4.08	5.08
23	5.03	4.83	5.81	6.21	6.58	5.84	4.50	5.12	5.42	5.41	4.12	5.31
24	5.01	4.86	5.64	6.13	6.22	5.80	4.41	5.14	5.54	5.37	5.11	5.25
25	4.95	4.91	5.72	6.31	6.41	5.76	3.39	4.84	5.25	5.35	5.09	5.20
26	5.01	5.21	6.02	6.19	6.48	5.50	4.31	5.42	5.04	5.53	4.21	5.23
27	5.01	5.75	5.88	6.44	6.41	5.51	4.72	5.28	5.19	5.09	5.32	5.26
28	4.99	6.05	5.89	5.80	6.39	5.82	4.70	5.22	5.30	5.62	5.32	5.30
29	5.01		5.82	6.10	6.39	5.72	4.66	5.33	5.40	5.41	5.22	5.31
30	5.02		5.99	6.43	6.52	5.63	3.55	5.58	4.48	5.49	5.21	3.98
31	5.01		5.70		6.72		4.32	5.61		5.32		4.07

e Estimated.

Wi-Ce 72. Pine Bluff Sanatorium. Near Salisbury. Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 44 feet. Highest water level 21.44 below lsd, Aug. 14, 1948; lowest 22.85 below lsd, Aug. 6, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	22.34	July 11	22.01	Oct. 2	22.50	Nov. 29	22.46
Mar. 31	22.26	Aug. 5	22.31	Nov. 3	22.48	Dec. 28	22.39
May 2	22.14	Sept. 4	22.42				

Wi-Cf 3. Salisbury Airport. Drilled unused water-table well in sand of Pleistocene age, diameter 16 inches, depth 109 feet. Land-surface datum is 44.89 feet above msl. Highest water level 41.32 above msl, Dec. 22, 1951; lowest 31.45 above msl, Sept. 18, 1947. Records available: 1947-51.

Daily noon water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.47	37.64	38.10	38.27	e37.57	38.20	38.19	37.59	36.92	36.50	36.46	38.23
2	37.53	37.62	38.00	38.22	37.65	38.17	38.51	37.49	36.92	36.48	36.50	38.15
3	37.58	37.69	37.95	38.49	37.63	38.05	38.45	37.49	36.95	36.46	37.46	38.06
4	37.62	37.72	37.96	38.53	37.59	37.98	38.42	37.43	36.85	36.47	....	38.12
5	37.46	37.70	37.85	38.50	37.54	37.91	38.32	37.42	36.81	36.46	....	38.14
6	37.58	37.66	37.83	38.43	37.48	37.94	38.11	37.40	36.80	36.44	....	38.07
7	37.64	37.98	37.96	38.46	37.46	37.92	38.01	37.39	36.77	36.43	....	38.07
8	38.00	38.50	37.83	38.42	37.42	38.34	37.96	37.67	36.70	36.47	....	38.08
9	37.95	38.44	37.72	38.30	37.40	40.16	37.93	37.61	36.68	36.45	39.54	38.19
10	38.01	38.39	37.67	38.25	37.34	e40.38	37.86	37.50	36.66	39.46	39.36	38.05

Wi-Cf 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	38.07	38.38	37.70	38.13	37.40	e41.84	37.83	37.43	36.63	36.73	39.17	38.13
12	37.89	38.35	37.66	38.20	37.40	41.13	37.82	37.39	36.60	36.84	38.94	38.10
13	37.80	38.22	37.67	38.11	37.32	40.67	37.69	37.35	36.58	36.81	38.87	37.89
14	37.90	38.17	37.84	38.04	37.25	40.48	37.64	37.33	36.56	36.81	38.82	37.84
15	38.03	38.05	37.84	38.03	37.31	40.14	37.60	37.32	36.84	36.82	38.63	38.62
16	37.83	38.09	37.82	37.96	37.33	39.83	37.54	37.31	37.08	36.78	38.68	38.61
17	e37.90	38.19	37.72	e37.82	37.30	39.58	38.85	37.25	37.03	36.74	38.53	38.59
18	37.86	38.29	37.68	37.83	37.22	39.40	38.65	37.20	36.95	36.71	38.43	38.93
19	e37.80	38.36	37.67	37.90	37.21	39.23	38.55	37.15	36.87	36.67	38.34	39.32
20	e37.79	38.36	38.99	37.72	37.27	39.12	38.35	37.16	36.80	36.61	38.24	39.40
21	e37.69	38.57	39.23	37.70	37.26	38.98	38.21	37.40	36.76	36.57	38.13	41.26
22	37.57	38.50	39.04	39.73	37.22	38.83	38.14	37.29	36.73	36.54	38.16	41.32
23	37.63	38.51	38.98	37.67	37.25	38.73	38.05	37.20	36.68	36.53	38.16	40.84
24	37.71	38.52	38.93	37.64	39.30	38.58	37.97	37.15	36.62	36.54	38.12	40.53
25	37.70	38.44	38.64	37.64	39.61	38.52	37.91	37.12	36.68	36.47	37.95	40.32
26	37.66	38.35	38.47	37.64	39.33	38.37	37.88	37.07	36.81	36.47	38.39	40.36
27	37.65	38.29	38.39	37.56	39.13	38.34	37.81	37.04	36.63	36.53	38.33	40.15
28	37.59	38.08	38.39	37.63	38.89	38.25	37.73	37.01	36.56	36.52	38.32	39.95
29	37.55		38.36	37.64	38.67	38.20	37.68	36.96	36.51	36.42	38.31	39.89
30	37.46		38.38	37.60	38.44	38.28	37.64	36.96	36.50	36.43	38.28	39.80
31	37.53		38.26		38.30		37.64	36.94		36.41		e39.43

e Estimated.

Wi-Cg 20. State Roads Commission. Near Parsonsburg and Pittsville. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 25 feet. Highest water level 3.84 below lsd, Jan. 31, 1950; lowest 7.46 below lsd, Aug. 30, 1950. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.98	May 1	5.10	Sept. 4	6.19	Nov. 29	4.60
Feb. 27	4.72	July 6	5.01	Oct. 1	6.53	Dec. 28	4.21
Mar. 29	4.77	29	5.75	Nov. 2	6.08		

Worcester County

Wor-Bg 1. State Roads Commission. Near Herring Creek. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 14 feet. Highest water level 3.36 below lsd, May 25, 1950; lowest 6.47 below lsd, Aug. 16, 1949. Records available: 1949-51.

Jan. 30	4.00	May 31	4.24	Sept. 4	5.82	Nov. 28	3.98
Feb. 27	3.68	July 6	4.64	Oct. 1	6.10	Dec. 28	3.43
May 1	3.93	29	5.30	Nov. 2	5.16		

Wor-Bh 9. W. B. Esham. Ocean City. Drilled unused artesian well in sand of Pleistocene age, diameter $1\frac{3}{4}$ inches, depth 89 feet. Highest water level 2.54 below lsd, Nov. 2, 1951; lowest 4.78 below lsd, May 1, 1951. Records available: 1950-51.

Oct. 15, 1950	4.17	Mar. 29, 1951	4.15	July 29, 1951	4.62	Nov. 2, 1951	2.54
31	3.90	May 1	4.78	Sept. 4	3.21	28	3.54
Dec. 26	4.04	31	3.84	Oct. 2	3.92	Dec. 28	4.56
Feb. 27, 1951	3.29	July 7	3.97				

Wor-Dd 9. State Roads Commission. Snow Hill on State Highway 113. Driven observation water-table well in sand of Pleistocene age, diameter $1\frac{1}{4}$ inches, depth 20 feet. Highest water level 10.94 below lsd, Dec. 28, 1951; lowest 12.16 below lsd, Dec. 31, 1949. Records available: 1949-51.

Jan. 30	11.93	May 1	11.60	July 30	11.38	Nov. 2	11.60
Feb. 27	11.74	31	11.39	Sept. 4	11.60	29	11.37
Mar. 29	11.65	July 6	11.17	Oct. 2	11.69	Dec. 28	10.94

NORTH CAROLINA

By H. E. LeGrand

Scope of Water-Level Program

The observation-well program begun in 1931, was continued in 1951 in cooperation with the State Department of Conservation and Development. Water-level measurements were made in 46 wells during 1951. Figure 25 shows the location of observation wells in the State.

Interpretation of Water-Level Fluctuations

North Carolina may be divided into two major ground-water provinces: the Coastal Plain on the east, underlain by beds of unconsolidated and semiconsolidated sands, clays, and limestones that dip gently toward the coast; and the Piedmont and Mountain provinces to the west, underlain by various igneous and metamorphic rocks. The dips of the beds on the Coastal Plain are slightly greater than the slope of the land surface so that artesian water occurs in the sands and limestones that are buried beneath surficial sands and clays. Some of the observation wells penetrate these artesian aquifers and others penetrate surficial sands in which water-table conditions exist. In the Piedmont and Mountain provinces, ground water occurs in the clayey weathered rock that mantles the surface almost everywhere and in the fractures in the underlying bedrock; although water occurs in two contrasting types of material, it is under water-table conditions in both cases. All the observation wells in the Piedmont and Mountain provinces end in the clayey weathered material.

In North Carolina a relationship exists between water levels and precipitation, but this relationship is not a simple one because factors other than precipitation affect the water levels. Most of the wells, except as noted otherwise, are far removed from pumping wells, and consequently the changes in their water levels are due to natural causes. The water levels measured are chiefly those of the water table but some represent the piezometric surface expressing the artesian water level. Water-table wells in the Coastal Plain generally respond much more quickly to rainfall than wells in the Piedmont, because the water table is generally closer to the surface and the surficial deposits are most permeable in the Coastal Plain. With normal precipitation, the cycle of water-table fluctuations begins with a gradual rise starting usually in December or January. The level 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. The water table rises in late winter and spring, because very little water is lost by evaporation or is used by vegetation, so that a relatively large part of the 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. The range in water level in artesian aquifers is generally slight except near areas of recharge and near areas where water is pumped from the same aquifer. Hertford County, well 13, for example, is distant from pumping and from recharge to the aquifer which it penetrates and consequently expresses a water level which fluctuated only 0.36 foot in 1951. In 1951 the average rainfall at all Weather Bureau stations in the State was 41.18 inches, about 8.3 inches below normal. The greatest deficiency in precipitation occurred in October and November, resulting in a significant drought and low water levels in many observation wells during these months. Of all water-table wells measured throughout the year, the water levels in 22 were lower and in 6 higher at the end than at the beginning of the year; of the artesian wells, the water levels in 9 were lower and in 3 higher at the end than at the beginning of the year.

Well-Numbering System

The wells are numbered by counties, although the numbers are not related to any system of location within the counties.

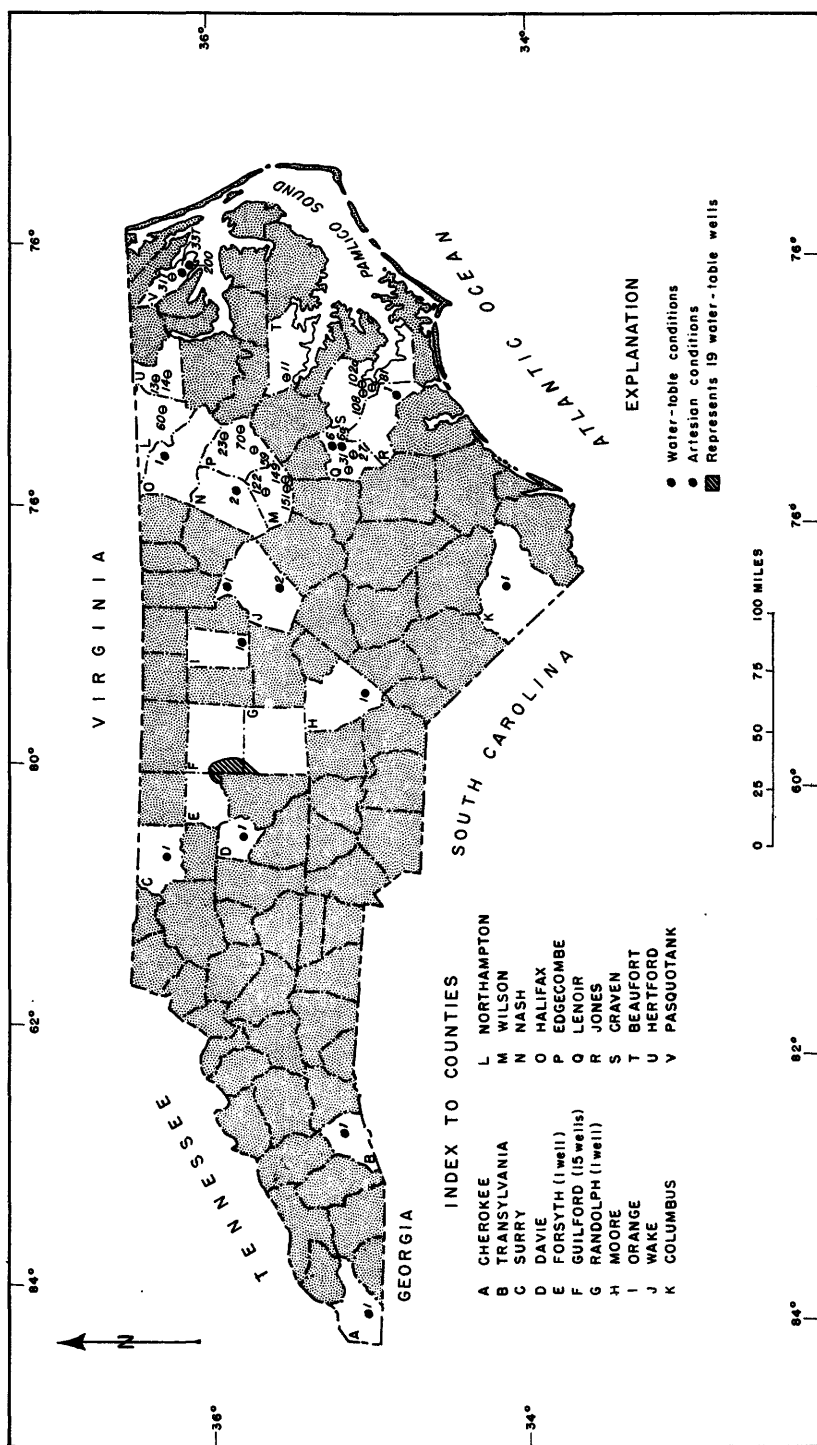


Figure 25.--Location of observation wells in North Carolina, 1951.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Beaufort County

11. City of Washington. Lat. 35°32', long. 77°04'. Drilled unused artesian well in sand, diameter 8 inches, depth 129 feet, gravel-walled. Highest water level 6.52 below lsd, Aug. 30, 1950; lowest 10.83 below lsd, Aug. 27, 1948. Records available: 1948-51. Feb. 27, 7.18; Apr. 23, 6.93; Sept. 26, 9.42; Nov. 26, 10.05.

Cherokee County

1. Elliott. First Baptist Church, Murphy. Lat. 35°06', long. 84°02'. Dug unused water-table well in weathered mica schist, diameter 4 feet, depth 51 feet, cribbed with brick. Highest water level 37.79 below lsd, Apr. 13, 1950; lowest 42.70 below lsd, Jan. 11, 1948. Records available: 1943-51.

Daily mean water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.51	41.77	41.75	40.69	39.98	39.88	40.01	40.00	40.57	41.10	41.60	41.83
2	41.53	41.78	41.76	40.65	39.96	39.88	40.02	40.02	40.59	41.10	41.59	41.83
3	41.53	41.79	41.76	40.62	39.92	39.88	39.98	40.02	40.62	41.09	41.62	41.83
4	41.53	41.79	41.75	40.61	39.87	39.88	39.97	40.04	40.65	41.11	41.65	41.80
5	41.56	41.79	41.76	40.59	39.85	39.90	39.92	40.06	40.67	41.14	41.68	41.77
6	41.57	41.80	41.77	40.57	39.85	39.92	39.93	40.09	40.69	41.16	41.70	41.78
7	41.57	41.78	41.72	40.50	39.86	39.93	39.94	40.09	40.71	41.18	41.68	41.81
8	41.58	41.80	41.64	40.45	39.86	39.93	39.93	40.08	40.75	41.20	41.69	41.82
9	41.61	41.81	41.66	40.43	39.86	39.90	39.91	40.09	40.77	41.22	41.71	41.82
10	41.63	41.82	41.68	40.41	39.84	39.91	39.90	40.12	40.78	41.24	41.73	41.82
11	41.63	41.83	41.65	40.39	39.81	39.95	39.90	40.14	40.81	41.26	41.74	41.81
12	41.64	41.83	41.59	40.35	39.80	39.97	39.90	40.16	40.84	41.29	41.75	41.78
13	41.65	41.83	41.54	40.32	39.83	39.92	39.90	40.18	40.86	41.32	41.74	41.78
14	41.64	41.84	41.50	40.31	39.85	39.95	39.90	40.19	40.86	41.35	41.72	41.78
15	41.61	41.85	41.49	40.29	39.86	39.98	39.89	40.21	40.88	41.35	41.70	41.59
16	41.64	41.85	41.48	40.25	39.83	39.99	39.88	40.23	40.90	41.36	41.70	41.57
17	41.66	41.85	41.47	40.24	39.80	39.98	39.89	40.24	40.91	41.37	41.74	41.65
18	41.66	41.84	41.45	40.23	39.79	39.95	39.89	40.26	40.93	41.40	41.77	41.59
19	41.68	41.84	41.42	40.20	39.79	39.95	39.89	40.29	40.95	41.41	41.79	41.50
20	41.69	41.81	41.41	40.19	39.77	39.97	39.89	40.32	40.98	41.42	41.81	41.41
21	41.71	41.75	41.40	40.19	39.76	39.95	39.90	40.34	41.02	41.44	41.82	41.01
22	41.73	41.77	41.37	40.16	39.76	39.96	39.92	40.36	41.01	41.46	41.83	41.00
23	41.74	41.78	41.34	40.14	39.75	39.98	39.93	40.39	40.97	41.49	41.82	41.12
24	41.73	41.78	41.32	40.14	39.75	40.00	39.94	40.41	40.99	41.50	41.81	41.16
25	41.73	41.79	41.31	40.11	39.77	40.01	39.94	40.45	40.99	41.52	41.81	41.17
26	41.75	41.77	41.29	40.10	39.78	40.00	39.95	40.46	41.00	41.55	41.81	41.09
27	41.77	41.75	41.28	40.09	39.78	40.00	39.96	40.48	41.02	41.56	41.81	41.04
28	41.78	41.75	41.23	40.03	39.78	40.02	39.96	40.49	41.05	41.56	41.81	41.07
29	41.78		40.82	40.00	39.80	40.02	39.96	40.52	41.07	41.57	41.82	41.07
30	41.78		40.58	39.99	39.83	40.02	39.98	40.53	41.09	41.60	41.83	41.03
31	41.79		40.65		39.86		40.00	40.56		41.61		41.03

Columbus County

1. C. W. Maulsby. In Whiteville. Lat. 34°21', long. 79°43'. Dug unused water-table well in sand, diameter 36 inches, depth 10 feet, uncased. Highest water level 1.18 below lsd, Jan. 19, 1946; lowest dry June 20-Aug. 15, Nov. 1-11, 1951. Records available: 1944-51.

Daily mean water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	Sept.	Oct.	Dec.
1	6.94	7.73	8.36	....	6.44	8.62	....	8.05	....
2	6.36	7.77	8.38	....	6.53	8.70	....	8.06	....
3	6.10	7.83	8.40	....	6.61	8.74	....	8.10	....
4	6.06	7.90	8.42	....	6.67	8.82	....	8.13	....
5	6.15	7.93	8.44	....	6.74	8.89	....	8.18	....
6	6.22	7.97	8.46	....	6.82	8.94	....	8.23	....
7	6.28	8.00	8.45	....	6.90	9.01	....	8.28	....
8	6.40	8.03	8.29	....	6.97	9.07	....	8.32	....
9	6.53	8.07	8.10	....	7.05	9.11	....	8.37	....
10	6.62	8.10	7.91	....	7.13	9.15	....	8.44	....

1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	Sept.	Oct.	Dec.
11	6.68	8.13	7.73	....	7.18	9.20	....	8.49	....
12	6.78	8.15	7.58	....	7.26	9.28	....	8.56	....
13	6.87	8.17	7.45	....	7.34	9.30	....	8.61	....
14	6.93	8.19	7.31	....	7.41	9.33	....	8.67	....
15	6.95	8.22	7.13	....	7.51	9.36	....	8.72	....
16	7.02	8.25	6.96	....	7.57	9.40	....	8.77	....
17	7.09	8.27	....	....	7.67	9.44	....	8.83	....
18	7.13	8.28	....	....	7.72	9.47	....	8.87	9.55
19	7.16	8.29	....	....	7.79	9.48	....	8.92	9.50
20	7.19	8.29	....	....	7.85	....	7.78	8.95	9.41
21	7.22	8.29	....	....	7.92	....	7.79	9.01	9.33
22	7.28	8.28	....	....	7.98	....	7.80	9.05	9.23
23	7.33	8.29	....	....	8.05	....	7.81	9.11	9.07
24	7.34	8.30	....	....	8.11	....	7.82	9.15	8.93
25	7.37	8.30	....	6.01	8.17	....	7.84	9.20	8.79
26	7.42	8.31	....	6.05	8.24	....	7.87	9.28	8.63
27	7.46	8.32	....	6.13	8.31	....	7.90	9.31	8.60
28	7.52	8.33	....	6.21	8.35	....	7.93	9.35	8.39
29	7.56	....	....	6.28	8.41	....	7.96	9.40	8.25
30	7.61	....	....	6.35	8.47	....	8.00	9.46	8.15
31	7.70	....	....	....	8.54	....	....	9.50	8.06

* Dry in July, August, and November.

Craven County

81. City of New Bern. Lat. 35°07', long. 77°03'. Drilled unused artesian well in Trent marl, diameter 8 inches, depth 120 feet, cased to 35 feet, open end. Highest water level 9.35 below lsd, July 28, 1950; lowest 12.08 below lsd, Nov. 29, 1950. Records available: 1947-51. Feb. 27, 11.76; Sept. 25, 11.67; Nov. 27, 11.45.

102a. City of New Bern. Lat. 35°07', long. 77°04'. Drilled observation artesian well in Trent marl, diameter 4 inches, depth 38 feet, cased to 38 feet. Highest water level 6.91 below lsd, July 28, 1950; lowest 16.42 below lsd, July 1, 1948. Records available: 1947-51. Feb. 27, 14.37; Sept. 26, 14.54; Nov. 27, 15.44.

108. City of New Bern. Lat. 35°07', long. 77°03'. Drilled unused artesian well in Trent marl, diameter 8 inches, depth 100 feet, cased to 35 feet. Highest water level 3.96 below lsd, July 28, 1950; lowest 7.74 below lsd, Nov. 30, 1949. Records available: 1947-51. Feb. 27, 5.89; Sept. 26, 5.83; Nov. 27, 6.71.

Davie County

1. Kurflee. In Mocksville near courthouse. Lat. 35°53', long. 80°34'. Dug unused water-table well in weathered granite, diameter 36 inches, depth 32 feet, lined with rock. Highest water level 15.19 below lsd, May 13, 1948; lowest 28.66 below lsd, Feb. 15, 1942. Records available: 1932-51.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	23.70	22.12	21.25	19.89	20.55	21.59	22.93	24.24	25.08	25.96	26.44
2	23.68	23.62	22.11	21.20	19.87	20.56	21.63	22.89	24.27	25.10	25.98	26.46
3	23.68	23.60	22.10	21.16	19.83	20.60	21.66	22.87	24.30	25.13	25.99	26.47
4	23.68	23.55	22.10	21.17	19.82	20.65	21.68	22.88	24.34	25.15	26.00	26.49
5	23.71	23.50	22.06	21.05	19.82	20.69	21.72	22.95	24.37	25.19	26.01	26.51
6	23.71	23.44	22.07	21.03	19.86	20.73	21.77	23.00	24.40	25.22	26.04	26.52
7	23.71	22.70	22.03	20.94	19.88	20.77	21.82	23.04	24.43	25.25	26.06	26.54
8	23.71	22.75	22.02	20.92	19.91	20.80	21.86	23.09	24.46	25.29	26.07	26.55
9	23.75	22.86	22.03	20.42	19.92	20.83	21.90	23.19	24.48	25.31	26.09	26.57
10	23.76	22.86	22.05	20.50	19.91	20.85	21.95	23.33	24.49	25.34	26.11	26.58
11	23.76	22.76	22.06	20.51	19.89	20.90	21.99	23.42	24.51	25.38	26.13	26.59
12	23.76	22.66	22.04	20.44	19.92	20.96	22.04	23.47	24.52	25.41	26.15	26.61
13	23.78	22.56	21.45	20.38	19.98	20.98	22.08	23.55	24.52	25.44	26.17	26.63
14	23.78	22.50	21.60	20.34	20.05	21.01	22.12	23.59	24.54	25.47	26.19	26.64
15	23.71	22.48	21.72	20.30	20.07	21.03	22.18	23.62	24.56	25.50	26.20	26.65
16	23.73	22.44	21.76	20.25	20.06	21.08	22.22	23.66	24.59	25.53	26.21	26.67
17	23.76	22.38	21.76	20.22	20.04	21.11	22.27	23.69	24.63	25.56	26.22	26.70
18	23.76	22.36	21.75	20.20	20.05	21.15	22.32	23.74	24.68	25.59	26.23	26.64
19	23.77	22.31	21.72	20.15	20.10	21.19	22.36	23.79	24.71	25.62	.....	26.62
20	23.77	22.27	21.64	20.12	20.11	21.20	22.42	23.83	24.74	25.65	26.27	26.52

1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	23.77	22.21	21.63	20.13	20.12	21.22	22.48	23.86	24.77	25.68	26.28	25.10
22	23.78	22.19	21.61	20.10	20.15	21.26	22.53	23.89	24.81	25.71	26.29	25.20
23	23.77	22.19	21.59	19.98	20.16	21.30	22.58	23.94	24.83	25.74	26.31	25.62
24	23.77	22.19	21.54	20.01	20.20	21.34	22.62	23.99	24.86	25.76	26.33	25.86
25	23.78	22.18	21.53	19.99	20.27	21.37	22.66	24.01	24.90	25.78	26.35	25.98
26	23.78	22.15	21.52	19.97	20.30	21.43	22.71	24.04	24.93	25.82	26.36	26.03
27	23.78	22.13	21.50	19.95	20.32	21.45	22.75	24.07	24.96	25.84	26.37	26.04
28	23.78	22.12	21.45	19.94	20.35	21.49	22.80	24.10	24.99	25.86	26.39	26.05
29	23.78		21.42	19.90	20.38	21.53	22.84	24.14	25.02	25.89	26.41	26.05
30	23.78		21.15	19.87	20.45	21.56	22.89	24.17	25.05	25.91	26.42	26.04
31	23.78		21.24		20.51		22.93	24.21		25.94		26.02

Edgecombe County

23. John Lane. In Speed. Lat. 35°58', long. 77°27'. Drilled domestic artesian well in Tuscaloosa sand, diameter 4 inches, depth 100 feet, cased to 100. Highest water level 1.70 below lsd, July 27, 1950; lowest 10.78 below lsd, Sept. 27, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	8.75	Apr. 23	1.99	Sept. 11	7.54	Nov. 26	8.86
Feb. 26	5.62	June 27	8.50	25	7.40	Dec. 28	7.14

59. I. W. Calhoun. Lat. 35°56', long. 77°39'. Drilled unused artesian well in Tuscaloosa sand, diameter 4 inches, depth 164 feet, cased 164 feet. Highest water level 27.98 below lsd, July 2, 1949; lowest 30.36 below lsd, Dec. 28, 1951. Records available: 1946-51. Jan. 30, 29.77; Feb. 26, 29.77; Apr. 23, 29.95; June 27, 30.17; Sept. 25, 30.37; Nov. 26, 30.29; Dec. 28, 30.36.

70. W. Z. Wilson. In Coakley. Lat. 35°55', long. 77°25'. Drilled unused artesian well in Tuscaloosa sand, diameter 4 inches, depth 73 feet. Highest water level 38.07 below lsd, June 28, 1950; lowest 41.32 below lsd, Nov. 29, 1949. Records available: 1946-51.

Jan. 30	38.17	Apr. 23	38.13	Sept. 11	38.63	Nov. 26	38.56
Feb. 26	38.12	June 27	38.22	25	38.60	Dec. 28	38.62

Forsyth County

I-21. George G. Hedgecock. Near Kernersville. Lat. 36°04', long. 80°03'. Dug domestic water-table well in weathered granite, diameter 24 inches, depth 32 feet, lined with tile. Highest water level 24.33 below lsd, Nov. 29, 1948; lowest 29.77 below lsd, Dec. 31, 1951. Records available: 1948-51.

Feb. 24	27.94	May 26	27.50	Aug. 24	28.37	Nov. 30	29.62
Mar. 31	27.72	June 23	27.68	Sept. 19	28.65	Dec. 31	29.77
Apr. 28	27.60	July 26	28.17	Oct. 30	29.29		

Guilford County

2. Lindale Dairy. High Point. Lat. 35°59', long. 79°58'. Dug unused water-table well in weathered granite, diameter 18 inches, depth 39 feet, lined with tile. Highest water level 23.92 below lsd, Mar. 5, 1937; lowest 30.06 below lsd, Feb. 13, 1942. Records available: 1934-51.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.92	27.85	27.57	27.15	26.63	26.78	26.34	26.41	26.84	27.34	27.90	28.20
2	27.89	28.01	27.58	27.06	26.58	26.73	26.37	26.44	26.85	27.30	27.93	28.21
3	27.84	28.00	27.54	27.10	26.50	26.72	26.37	26.45	26.88	27.29	27.92	28.23
4	27.82	27.94	27.55	27.13	26.47	26.75	26.35	26.47	26.92	27.33	27.95	28.16
5	27.95	27.92	27.60	27.12	26.50	26.77	26.32	26.54	26.95	27.38	28.01	28.13
6	27.92	27.94	27.61	27.10	26.56	26.78	26.36	26.56	26.94	27.42	28.00	28.17
7	27.77	27.79	27.51	27.05	26.58	26.78	26.35	26.48	26.92	27.43	27.82	28.20
8	27.85	27.91	27.50	26.96	26.62	26.77	26.34	26.48	27.01	27.46	27.90	28.20
9	27.97	27.95	27.58	26.88	26.61	26.74	26.32	26.52	27.04	27.50	27.99	28.17
10	27.92	27.93	27.63	26.87	26.57	26.69	26.31	26.58	27.04	27.51	27.97	28.15

2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	27.90	27.85	27.58	26.86	26.52	26.71	26.31	26.60	27.05	27.50	27.96	28.12
12	27.95	27.78	27.53	26.78	26.55	26.72	26.29	26.62	27.09	27.58	27.96	28.05
13	27.99	27.79	27.40	26.78	26.65	26.71	26.30	26.64	27.10	27.68	27.95	28.10
14	27.75	27.81	27.39	26.76	26.72	26.68	26.31	26.65	27.12	27.65	27.91	28.20
15	27.74	27.87	27.40	26.75	26.72	26.68	26.31	26.65	27.15	27.60	27.96	28.12
16	27.83	27.83	27.40	26.74	26.64	26.67	26.31	26.63	27.15	27.62	27.94	28.28
17	27.90	27.75	27.41	26.76	26.57	26.69	26.31	26.65	27.15	27.65	28.04	28.28
18	27.90	27.74	27.40	26.78	26.59	26.69	26.30	26.68	27.15	27.66	28.06	28.26
19	27.90	27.73	27.36	26.71	26.62	26.66	26.30	26.70	27.20	27.66	28.09	28.12
20	27.90	27.65	27.35	26.75	26.58	26.54	26.32	26.72	27.25	27.69	28.11	28.17
21	27.85	27.55	27.29	26.80	26.55	26.50	26.36	26.72	27.27	27.74	28.13	28.10
22	28.00	27.67	27.30	26.76	26.56	26.46	26.37	26.74	27.25	27.75	28.15	27.95
23	27.90	27.73	27.25	26.74	26.51	26.45	26.37	26.78	27.25	27.77	28.13	28.02
24	27.85	27.66	27.20	26.74	26.56	26.44	26.35	26.80	27.28	27.74	28.06	28.00
25	27.85	27.63	27.25	26.69	26.66	26.45	26.37	26.81	27.25	27.81	28.13	27.96
26	27.90	27.54	27.24	26.68	26.65	26.36	26.38	26.81	27.30	27.83	28.05	27.91
27	27.94	27.56	27.26	26.68	26.58	26.36	26.36	26.80	27.29	27.79	28.11	27.85
28	27.97	27.59	27.20	26.65	26.60	26.38	26.37	26.81	27.34	27.72	28.16	.....
29	27.97		27.15	26.58	26.65	26.35	26.40	26.84	27.38	27.83	28.17	.....
30	27.98		27.10	26.60	26.75	26.34	26.45	26.85	27.38	27.88	28.20	.....
31	27.95		27.15		26.75		26.42	26.84		27.90		27.63

4. W. O. Atkins. Near Colfax. Lat. 36°06', long. 80°03'. Dug unused water-table well in weathered granite, diameter 18 inches, depth 34 feet, cribbed with brick. Highest water level 27.31 below lsd, May 27, 1949; lowest 34.87 below lsd, Dec. 2, 1947. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 24	29.50	May 26	28.90	Aug. 24	29.77	Nov. 30	31.00
Mar. 31	29.36	June 23	29.13	Sept. 19	30.05	Dec. 31	31.21
Apr. 28	28.96	July 26	29.55	Oct. 30	30.55		

7. E. J. Welch. 1403 E. Lexington Ave., High Point. Lat. 35°59', long. 80°00'. Dug unused water-table well in weathered granite, diameter 30 inches, depth 29 feet, cribbed with brick. Highest water level 18.22 below lsd, Feb. 14, 1936; lowest 26.75 below lsd, Jan. 25, 1942. Records available: 1934-51.

Feb. 1	23.01	Apr. 28	21.73	July 26	22.43	Nov. 30	22.98
24	23.12	May 26	21.96	Aug. 24	22.54	Dec. 31	22.07
Mar. 31	23.16	June 23	22.31	Oct. 30	22.84		

8. E. J. Welch. 1301 E. Lexington Ave., High Point. Lat. 35°59', long. 80°00'. Dug unused water-table well in weathered granite, diameter 32 inches, depth 34 feet, cribbed with brick. Highest water level 14.60 below lsd, Apr. 10, 1936; lowest 30.82 below lsd, Dec. 23, 1943. Records available: 1934-51.

Feb. 1	28.77	Apr. 28	26.38	July 26	28.08	Oct. 30	29.90
24	28.23	May 26	26.79	Aug. 24	28.81	Nov. 30	30.34
Mar. 31	27.55	June 23	27.33				

12. John Blair Estate. 1113 Tate St., High Point. Lat. 35°58', long. 80°00'. Dug unused water-table well in weathered granite, diameter 30 inches, depth 37 feet, cribbed with brick. Highest water level 26.68 below lsd, Mar. 5, 1937; lowest 36.29 below lsd, July 27, 1941. Records available: 1934-51.

Feb. 24	32.49	June 23	32.06	Sept. 19	33.55	Nov. 30	33.98
Apr. 28	31.15	Aug. 24	33.03	Oct. 30	33.96	Dec. 31	32.83
May 26	31.46						

14. Clodfelter Dairy. High Point. Lat. 35°56', long. 79°58'. Dug unused water-table well in weathered diorite and granite, diameter 24 inches, depth 24 feet. Highest water level 10.55 below lsd, Feb. 24, 1946; lowest 19.40 below lsd, Nov. 28, 1942. Records available: 1934-51.

Feb. 24	17.36	May 26	16.30	Sept. 19	17.48	Nov. 30	18.24
Mar. 31	16.99	June 23	16.54	Oct. 30	17.96	Dec. 31	17.23
Apr. 28	16.27	Aug. 24	16.83				

I-5. H. C. Hedgecock. Lat. 36°00', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 18 inches, depth 33 feet, lined with tile. Highest water level 22.31 below lsd, June 27, 1950; lowest 29.25 below lsd, Oct. 30, 1951. Records available: 1948-51.

I-5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	26.64	Apr. 28	24.97	July 26	26.86	Oct. 30	29.25
24	24.87	May 26	24.95	Aug. 24	27.03	Nov. 30	29.24
Mar. 31	25.79	June 23	26.10	Sept. 19	27.62	Dec. 31	29.16

I-8. J. A. Bolejack. Lat. 36°04', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 4 feet, depth 35 feet, cribbed with brick. Highest water level 29.03 below lsd, Nov. 25, 1949; lowest 31.49 below lsd, Nov. 30, 1951. Records available: 1948-51. Measurement discontinued.

Feb. 24	30.65	May 26	30.70	Aug. 24	30.91	Oct. 30	31.24
Mar. 31	30.74	June 23	30.77	Sept. 19	31.02	Nov. 30	31.49
Apr. 28	30.77	July 26	30.81				

I-11. Mrs. A. C. Robinson. Lat. 36°05', long. 80°00'. Dug domestic water-table well in weathered diorite and granite, diameter 24 inches, depth 44 feet, lined with tile. Highest water level 36.62 below lsd, Nov. 25, 1949; lowest 41.29 below lsd, May 26, 1951. Records available: 1948-51.

Feb. 24	38.47	May 26	41.29	Aug. 24	39.50	Nov. 30	40.03
Mar. 31	39.17	June 23	38.76	Sept. 19	39.03	Dec. 31	40.13
Apr. 28	38.87	July 26	38.80	Oct. 30	39.31		

I-17. Fred Todd. Lat. 36°01', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 30 inches, depth 13 feet, lined with concrete. Highest water level 5.59 below lsd, Mar. 31, 1949; lowest 9.37 below lsd, Oct. 30, 1951. Records available: 1948-51.

Feb. 24	7.10	May 26	8.00	Aug. 24	8.23	Nov. 30	9.18
Mar. 31	7.05	June 23	7.55	Sept. 19	8.67	Dec. 31	8.15
Apr. 28	6.69	July 26	8.27	Oct. 30	9.37		

I-23. E. W. Callaway. Lat. 38°04', long. 80°03'. Dug domestic water-table well in weathered diorite and granite, diameter 20 inches, depth 39 feet, lined with concrete tile. Highest water level 33.68 below lsd, May 27, 1950; lowest 36.82 below lsd, Mar. 31, 1951. Records available: 1948-51.

Feb. 24	34.89	May 26	34.86	Aug. 24	35.15	Nov. 30	36.06
Mar. 31	36.82	June 23	35.73	Sept. 19	35.35	Dec. 31	36.36
Apr. 28	34.93	July 26	35.06	Oct. 30	35.64		

I-30. Mrs. J. W. Knight, Sr. (J. W. Knight, Jr.), Kernersville. Lat. 36°05', long. 80°03'. Dug domestic water-table well in weathered diorite and granite, diameter 18 inches, depth 36 feet, lined with tile. Highest water level 29.47 below lsd, Sept. 23, 1949; lowest 32.77 below lsd, Dec. 31, 1951. Records available: 1948-51.

Feb. 24	30.90	May 26	30.38	Aug. 24	31.58	Nov. 30	32.75
Mar. 31	31.47	June 23	30.66	Sept. 19	31.86	Dec. 31	32.77
Apr. 28	30.28	July 26	31.19	Oct. 30	32.36		

I-42. R. J. Holmes. Lat. 36°00', long. 80°00'. Dug unused water-table well in weathered diorite and granite, diameter 20 inches, depth 42 feet, lined with concrete tile. Water level affected by pumping nearby well. Highest water level 3.50 below lsd, Nov. 29, 1948; lowest 20.98 below lsd, Oct. 28, 1948. Records available: 1948-51. Mar. 31, 9.71; Apr. 28, 9.90; May 26, 15.17; June 23, 12.71; July 26, 17.84; Aug. 24, 19.50. Measurement discontinued.

I-46. Virtie Charles. Lat. 36°00', long. 80°00'. Dug domestic water-table well in weathered diorite and granite, diameter 18 inches, depth 20 feet, lined with tile. Highest water level 10.46 below lsd, Sept. 23, 1949; lowest 15.49 below lsd, Nov. 30, 1951. Records available: 1948-51.

Feb. 24	12.90	May 26	12.68	Aug. 24	13.50	Nov. 30	15.49
Mar. 31	12.79	June 23	13.23	Sept. 19	14.21	Dec. 31	14.85
Apr. 28	12.58	July 26	12.76	Oct. 30	14.60		

I-60. Buck Idol. Lat. 36°03', long. 80°00'. Dug domestic water-table well in weathered diorite and granite, diameter 20 inches, depth 47 feet, lined with concrete tile. Highest water level 35.33 below lsd, May 27, 1950; lowest 42.16 below lsd, Oct. 30, 1951. Records available: 1948-51.

Feb. 24	38.79	May 26	38.72	Aug. 24	41.24	Nov. 30	41.42
Mar. 31	38.34	June 23	38.78	Sept. 19	41.56	Dec. 31	42.05
Apr. 28	37.60	July 26	40.38	Oct. 30	42.16		

Halifax County

1. Freuler. At Roanoke Rapids. Lat. 36°26', long. 77°40'. Dug unused water-table well in terrace sand and gravel, diameter 30 inches, depth 15 feet, lined with terra cotta. Highest water level 1.23 below lsd, Aug. 30, 1939; lowest 10.53 below lsd, Dec. 22, 1941. Records available: 1932-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	7.83	Apr. 30	6.57	July 1	7.88	Sept. 1	8.62
Feb. 28	7.96	May 16	7.09	31	8.56	30	9.23
Mar. 28	7.16	June 5	7.60	Aug. 7	8.28	Dec. 5	9.30
Apr. 3	6.76	26	7.97				

Hertford County

13. Town of Winton. Lat. 36°24', long. 76°56'. Drilled unused artesian well in sand, diameter 8 inches, depth 314 feet, gravel-walled. Highest water level 26.93 below lsd, Sept. 1, 1949; lowest 29.62 below lsd, Feb. 25, 1948. Records available: 1947-51. Jan. 30, 27.05; Feb. 26, 27.17; Apr. 23, 26.96; June 27, 27.02; Sept. 11, 27.26; Sept. 25, 27.31; Nov. 26, 27.32.

14. Town of Winton. Lat. 36°24', long. 76°56'. Drilled unused artesian well in sand of Eocene and Cretaceous age (?), diameter 24 inches, 8-inch casing, depth 260 feet, gravel-walled. Highest water level 26.10 below lsd, Nov. 29, 1949; lowest 27.24 below lsd, Feb. 25, 1948. Records available: 1946-51. Jan. 30, 26.81; Feb. 26, 26.74; Apr. 23, 26.82; June 27, 26.75; Sept. 11, 26.87; Sept. 25, 26.86; Nov. 26, 26.87.

Jones County

1. George E. Weeks. In Maysville. Lat. 34°54', long. 77°14'. Dug unused water-table well in terrace sands, diameter 36 inches, depth 9 feet, cribbed with wood. Highest water level 0.6 below lsd, Jan. 29, 1943; lowest 9.2 below lsd, Nov. 2, 1943. Records available: 1941-51.

Jan. 2	4.80	Mar. 12	4.00	May 15	6.40	Aug. 29	6.80
5	5.20	16	4.20	18	6.80	Sept. 5	7.20
6	7.00	20	2.90	22	6.10	12	7.30
9	6.90	23	3.10	25	6.50	25	8.10
10	5.50	27	4.00	29	7.40	Oct. 3	7.80
12	6.00	30	4.20	June 1	7.60	9	8.10
23	7.00	Apr. 3	3.80	5	7.90	17	8.00
26	6.90	6	4.00	8	8.10	24	8.30
30	7.20	10	4.70	12	8.20	31	8.50
Feb. 2	7.40	13	5.00	15	8.30	Nov. 6	7.20
13	3.70	17	5.70	July 10	7.00	15	4.70
16	3.90	20	6.00	12	7.20	21	6.40
20	1.90	24	6.00	18	6.90	28	7.50
23	2.10	27	6.20	25	4.80	Dec. 5	8.00
27	3.70	May 1	6.20	Aug. 2	4.40	8	5.50
Mar. 2	4.10	4	5.10	8	4.70	19	4.40
6	4.40	8	5.40	15	4.40	26	2.50
9	4.80	11	5.70				

Lenoir County

6. Ernest L. Johnson. Lat. 35°20', long. 77°36'. Drilled observation artesian well in Peedee formation (?), diameter 4 inches, depth 84 feet, cased to 82 feet, open hole. Highest water level 8.45 below lsd, Dec. 31, 1948; lowest 13.78 below lsd, Sept. 30, 1948. Records available: 1947-51. Sept. 26, 11.95; Nov. 27, 13.54; Dec. 28, 13.04.

6a. Ernest L. Johnson. Lat. 35°20', long. 77°36'. Dug domestic water-table well in terrace sands, diameter 24 inches, depth 12 feet, lined with tile. Highest water level 5.19 below lsd, July 28, 1950; lowest 9.69 below lsd, Sept. 26, 1951. Records available: 1947-51. Sept. 26, 9.69; Nov. 27, 8.40; Dec. 28, 8.00.

27. Caswell Training School. Kinston. Lat. 35°17', long. 77°36'. Drilled domestic artesian well in Black Creek formation, diameter 6 inches, depth 600 feet. Highest water level 20.85 below lsd, Dec. 31, 1947; lowest 38.84 below lsd, Aug. 4, 1948. Records available: 1947-50. No measurement made in 1951.

31. Town of Kinston. Lat. 35°16', long. 77°37'. Drilled unused artesian well in Black Creek formation, diameter 1½ inches, depth 300 feet. Highest water level 3.96 above lsd, Feb. 26, 1948; lowest 0.00 above lsd, Dec. 28, 1951. Records available: 1947-51. Jan. 27, +0.15; Feb. 27, +0.52; Apr. 23, +0.48; Sept. 26, +0.04; Nov. 27, +0.04; Dec. 28, +0.00.

Moore County

1. Pure Oil Station. In Pinebluff. Lat. 35°06', long. 79°28'. Dug unused water-table well in Tuscaloosa formation, diameter 24 inches, depth 47 feet, cribbed with brick. Highest water level 32.41 below lsd, Oct. 9, 1949; lowest dry May 17-Dec. 31, 1951. Records available: 1944-51.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	Day	Jan.	Feb.	Mar.	Apr.	May
1	45.41	46.07	46.65	.....	45.56	17	45.73	46.43	.....	43.86	.....
2	45.42	46.09	46.66	.....	45.70	18	45.75	46.45	.....	43.97	.....
3	45.44	46.11	46.68	.....	45.82	19	45.78	46.47	.....	44.07	.....
4	45.45	46.14	46.70	.....	45.82	20	45.80	46.48	.....	44.17	.....
5	45.48	46.16	46.73	.....	46.04	21	45.82	46.49	.....	44.27	.....
6	45.50	46.19	46.75	.....	46.14	22	45.85	46.50	.....	44.41	.....
7	45.51	46.20	46.77	.....	46.24	23	45.88	46.53	.....	44.51	.....
8	45.53	46.22	46.78	.....	46.34	24	45.89	46.55	.....	44.65	.....
9	45.55	46.25	46.80	.....	46.44	25	45.90	46.57	.....	44.73	.....
10	45.58	46.28	46.82	46.01	46.52	26	45.93	46.59	.....	44.87	.....
11	45.61	46.30	46.83	44.95	46.60	27	45.95	46.60	.....	45.02	.....
12	45.63	46.32	46.83	44.32	46.66	28	45.98	46.62	.....	45.13	.....
13	45.65	46.34	46.86	44.00	46.74	29	46.00	.....	.....	45.28	.....
14	45.66	46.36	46.86	43.75	46.82	30	46.03	.....	.....	45.42	.....
15	45.67	46.39	.....	43.78	46.88	31	46.06	.....	.....	.....	.....
16	45.69	46.41	.....	43.75	46.94						

Nash County

1. Linzey Alston. Lat. 35°52', long. 77°56'. Dug observation water-table well in sands and gravels, diameter 30 inches, depth 25 feet, lined with tile. Highest water level 0.50 below lsd, Jan. 19, 1946; lowest 16.01 below lsd, Feb. 3, 1934. Records available: 1932-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	10.65	Apr. 2	9.66	Aug. 13	12.23	Oct. 27	13.66
9	10.69	7	9.99	18	12.01	Nov. 3	13.74
13	10.72	14	8.33	22	12.19	10	13.23
20	10.79	21	9.11	Sept. 7	12.23	17	13.27
27	10.85	28	9.60	10	12.54	24	13.29
Feb. 3	10.87	May 5	9.97	19	12.73	Dec. 4	13.33
10	11.13	15	10.25	27	12.90	8	13.33
17	11.11	26	10.68	Oct. 4	13.37	13	13.32
24	11.20	June 2	11.48	6	13.37	15	13.30
Mar. 3	11.16	25	7.11	19	13.35	22	11.03
24	8.56	Aug. 6	12.77	24	13.58	29	11.01
31	9.67						

Northampton County

60. Seaboard Air Line Railroad Co. Potecasi. Lat. 36°22', long. 77°14'. Drilled industrial artesian well in Tuscaloosa sand, diameter 4 inches, depth 145 feet. Highest water level 1.36 above lsd, Mar. 30, 1949; lowest 1.80 above lsd, Nov. 30, 1948. Records available: 1948-49. No measurement made in 1951.

Orange County

1. McCauley. Chi Psi Fraternity in Chapel Hill. Lat. 35°55', long. 79°04'. Dug unused water-table well in granite, diameter 36 inches, depth 45 feet, lined with rock. Highest water level 38.48 below lsd, Mar. 29, 1946; lowest 46.39 below lsd, Dec. 17, 1951. Records available: 1938-51.

Jan.	15	44.22	May 14	43.61	July 30	44.48	Oct. 15	45.79
Feb. 5	44.46	21	43.54	Aug. 6	44.61	22	45.90	
12	44.49	28	43.51	13	44.73	29	46.00	
20	44.55	June 4	43.59	20	44.83	Nov. 5	46.07	
26	44.59	11	43.64	27	44.94	19	46.20	
Mar. 5	44.64	18	43.73	Sept. 10	45.18	26	46.25	
12	44.67	25	43.81	17	45.29	Dec. 3	46.32	
Apr. 9	44.19	July 2	43.94	24	45.41	10	46.35	
16	44.00	16	44.19	Oct. 1	45.44	17	46.39	
23	43.88	23	44.33	8	45.67	31	46.37	
May 7	43.64							

Pasquotank County

31T. Elizabeth City. Lat. 36°18', long. 76°17'. Dug unused water-table well in sands of Pleistocene age, diameter 18 inches, depth 8 feet, lined with tile. Highest water level 0.05 below lsd, Nov. 1, 1949; lowest 8.00 below lsd, Dec. 21, 1943. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	1.47	Sept. 19	1.61	Oct. 24	1.33	Nov. 28	1.27
Feb. 26	1.38	25	2.29	31	1.63	Dec. 5	1.62
Apr. 23	1.84	Oct. 3	2.69	Nov. 7	.23	12	1.12
June 27	3.07	10	.78	14	.81	19	.70
Sept. 12	1.86	17	1.20	21	1.45	26	.62

33T. Elizabeth City. Lat. 36°18', long. 76°15'. Drilled observation water-table well in sand, diameter 6 inches, depth 20 feet. Highest water level 1.38 below lsd, Mar. 31, 1946; lowest 16.56 below lsd, Jan. 1, 1943. Records available: 1938-51. Jan. 31, 10.35; Feb. 26, 10.05.

200. Elizabeth City. At water plant. Lat. 36°18', long. 76°13'. Drilled unused artesian well in sand, diameter 8 inches, depth 75 feet. Highest water level 14.19 below lsd, Sept. 25, 1951; lowest 35.60 below lsd, July 26, 1946. Records available: 1946-51. Jan. 30, 27.41; Feb. 26, 27.24; Apr. 23, 27.00; June 27, 25.94; Sept. 11, 21.47; Sept. 25, 14.19.

Randolph County

25. J. S. White. Trinity. Lat. 35°52', long. 80°00'. Dug unused water-table well in weathered diorite and granite, diameter 30 inches, depth 36 feet, cribbed with brick. Highest water level 22.54 below lsd, Apr. 10, 1936; lowest 30.50 below lsd, Oct. 30, 1951. Records available: 1934-51.

Feb. 1	30.08	Apr. 28	28.68	July 26	28.98	Oct. 30	30.50
24	29.82	May 26	27.83	Aug. 24	29.38	Nov. 30	30.86
Mar. 31	29.80	June 23	28.10	Sept. 19	29.87	Dec. 31	30.37

Surry County

1. A. D. Terrell. Lat. 36°20', long. 80°43'. Dug domestic water-table well in weathered granite, diameter 5 feet, depth 55 feet, cribbed with rock. Highest water level 39.10 below lsd, Sept. 7, 1949; lowest 48.85 below lsd, July 29, 1940. Records available: 1938-47, 1949-51.

Jan. 7	43.39	Apr. 6	44.64	July 13	44.95	Oct. 5	44.93
14	43.54	19	44.75	22	45.91	14	45.04
24	43.69	24	44.77	30	44.86	23	45.11
28	43.75	May 3	44.92	Aug. 8	44.76	29	45.13
Feb. 4	43.81	10	45.00	15	44.71	Nov. 7	45.16
18	43.62	21	45.06	22	44.76	20	45.30
26	44.11	30	45.09	Sept. 1	44.76	27	45.36
Mar. 4	44.21	June 9	45.08	9	44.78	Dec. 6	45.31
12	44.31	17	45.02	21	44.84	16	45.51
20	44.39	25	45.05	28	44.89	24	45.20
27	44.54	July 4	45.08				

Transylvania County

1. C. F. Baldwin. At Blantyre. Lat. 35°17', long. 82°38'. Dug unused water-table well in granite, diameter 5 feet, depth 41 feet, lined with rock. Highest water level 27.65 below lsd, May 28, 1946; lowest 38.77 below lsd, Feb. 5, 1940. Records available: 1932-51.

Daily mean water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.27	33.14	32.88	32.11	31.13	30.61	31.54	32.57	33.62	34.55	35.58	36.20
2	33.27	33.16	32.86	32.07	31.10	30.61	31.59	32.62	33.65	34.57	35.61	36.21
3	33.26	33.18	32.85	32.05	31.05	30.61	31.63	32.65	33.67	34.60	35.65	36.22
4	33.24	33.19	32.83	32.03	31.01	30.62	31.66	32.68	33.71	34.62	35.68	36.22
5	33.26	33.17	32.82	32.01	30.97	30.64	31.67	32.73	33.76	34.68	35.72	36.19
6	33.25	33.17	32.82	31.98	30.96	30.65	31.72	32.78	33.78	34.72	35.73	36.21
7	33.21	33.11	32.78	31.92	30.93	30.67	31.77	32.80	33.80	34.74	35.74	36.23
8	33.23	33.12	32.76	31.88	30.92	30.69	31.80	32.83	33.84	34.78	35.75	36.23
9	33.23	33.12	32.74	31.85	30.89	30.71	31.82	32.87	33.87	34.81	35.79	36.24
10	33.23	33.13	32.73	31.81	30.86	30.73	31.85	32.91	33.90	34.84	35.82	36.24
11	33.22	33.11	32.70	31.80	30.83	30.76	31.90	32.94	33.92	34.87	35.84	36.23
12	33.22	33.11	32.67	31.75	30.81	30.80	31.92	32.98	33.96	34.93	35.87	36.23

1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	33.22	33.10	32.61	31.71	30.80	30.82	31.94	33.03	33.99	34.95	35.88	36.24
14	33.22	33.09	32.60	31.68	30.80	30.85	31.98	33.08	34.01	34.98	35.90	36.25
15	33.18	33.09	32.58	31.66	30.78	30.90	32.00	33.11	34.05	35.00	35.92	36.23
16	33.21	33.08	32.57	31.61	30.71	30.94	32.03	33.14	34.08	35.04	35.94	36.25
17	33.21	33.06	32.56	31.58	30.71	30.97	32.05	33.18	34.11	35.08	35.96	36.22
18	33.20	33.04	32.54	31.55	30.70	31.01	32.09	33.22	34.14	35.11	35.99	36.19
19	33.20	33.03	32.51	31.51	30.68	31.04	32.11	33.25	34.18	35.14	36.03	36.18
20	33.20	33.00	32.48	31.49	30.66	31.20	32.14	33.28	34.21	35.19	36.04	36.17
21	33.20	32.96	32.45	31.46	30.63	31.13	32.20	33.31	34.24	35.23	36.07	36.04
22	33.21	32.98	32.43	31.42	30.62	31.11	32.23	33.33	34.26	35.26	36.08	36.02
23	33.21	32.99	32.41	31.38	30.58	31.29	32.26	33.37	34.29	35.29	36.09	36.03
24	33.16	32.97	32.38	31.36	30.59	31.27	32.29	33.40	34.33	35.34	36.10	36.02
25	33.16	32.96	32.34	31.32	30.59	31.22	32.31	33.42	34.36	35.37	36.11	36.01
26	33.17	32.93	32.32	31.30	30.61	31.34	32.34	33.47	34.39	35.39	36.12	35.99
27	33.17	32.91	32.31	31.26	30.59	31.49	32.38	33.48	34.42	35.42	36.14	35.99
28	33.18	32.91	32.28	31.24	30.61	31.42	32.43	33.52	34.46	35.45	36.16	35.95
29	33.17		32.27	31.18	30.59	31.46	32.46	33.53	34.50	35.45	36.18	35.93
30	33.16		32.16	31.15	30.58	31.50	32.50	33.57	34.53	35.53	36.19	35.90
31	33.18		32.15		30.60		32.55	33.60		35.56		35.87

Wake County

1. Fishdam. Near Northside. Lat. 36°04', long. 78°45'. Dug observation water-table well in flood plain deposits, diameter 4 feet, depth 25 feet, cribbed with rock. Highest water level 2.55 below lsd, May 12, 1937; lowest 16.24 below lsd, Jan. 18, 1942. Records available: 1932-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	6.64	Apr. 8	4.38	July 14	9.68	Oct. 14	11.38
14	6.68	14	3.66	22	9.88	21	11.42
21	5.36	22	4.78	27	9.87	27	11.48
27	5.98	28	4.82	Aug. 5	9.93	Nov. 3	11.31
Feb. 3	5.28	May 20	4.32	12	9.97	11	11.52
10	4.85	27	6.67	19	10.20	17	11.54
17	5.68	June 3	7.78	26	10.28	24	11.69
24	4.48	8	8.64	Sept. 2	10.38	Dec. 2	11.77
Mar. 3	4.48	16	6.55	15	10.98	6	11.72
11	4.98	23	8.87	22	10.98	15	11.73
17	4.34	30	9.98	30	11.10	23	10.48
24	4.38	July 7	9.31	Oct. 7	11.19	30	9.56
31	4.67						

2. Baptist parsonage. At Garner. Lat. 35°43', long. 78°37'. Dug domestic water-table well in weathered granite gneiss, diameter 7 feet, depth 30 feet, unlined. Highest water level 23.50 below lsd, Sept. 1, 1949; lowest 29.38 below lsd, Nov. 30, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	27.33	Apr. 2	27.33	Aug. 4	28.04	Nov. 1	29.25
Feb. 1	27.44	July 1	27.83	Sept. 30	28.86	30	29.38
Mar. 1	27.46	Aug. 2	28.06				

Wilson County

122. M. P. Whitley. Near Wilson. Lat. 35°42', long. 77°57'. Drilled domestic artesian well in Tuscaloosa sand, diameter 6 inches, depth 212 feet, cased to 211 feet. Highest water level 12.31 below lsd, Feb. 26, 1948; lowest 22.86 below lsd, Dec. 28, 1951. Records available: 1947-51. Sept. 26, 1912; Dec. 26, 22.86.

149. Town of Stantonsburg. Lat. 35°36', long. 77°49'. Drilled municipal artesian well in Tuscaloosa sand, diameter 6 inches, depth 151 feet, cased to 151 feet. Highest water level 19.31 below lsd, Nov. 26, 1947; lowest 23.95 below lsd, Dec. 28, 1951. Records available: 1947-51. Sept. 26, 23.55; Nov. 27, 23.88; Dec. 28, 23.95.

151. W. R. Rogers. Near Stantonsburg. Lat. 35°36', long. 77°50'. Jetted domestic artesian well in Tuscaloosa sand, diameter 1½ inches, depth 52 feet. Highest water level 5.23 above lsd, Dec. 1, 1948; lowest 2.85 above lsd, Mar. 30, 1950. Records available: 1947-50. No measurement made in 1951.

SOUTH CAROLINA

By George E. Siple

Scope of Water-Level Program

The observation-well program in South Carolina in 1951 was continued in cooperation with the State Research, Planning and Development Board. Measurements of water levels were made in 16 wells. (See figs. 26, 27, and 28.)

Precipitation

The year 1951 was the driest since 1934. The average annual precipitation amounted to 38.71 inches--8.66 inches below normal.

Interpretation of Water-Level Fluctuations

One-third of the State is in the Piedmont Province and two-thirds in the Coastal Plain. The wells in the coastal plain section utilize the sands, gravels, and limestones of Upper Cretaceous and Tertiary ages as aquifers. These sediments crop out in a belt across the lower two-thirds of the State. They have in general a northeast-southwest strike and dip to the south and southeast from 8 to 15 feet per mile.

Record high or low water levels were recorded for eight of the wells during the year. The higher water levels recorded for Barnwell well 1 may be due to a greater spacing of discharge wells in the nearby municipal system. In general, the water-table wells reflected the variations in precipitation departures for the immediate area. Water levels in these wells are usually high in the winter. This occurs in spite of the fact that the rainfall is heavier in the summer than at any other time of the year. But the amount of evaporation, transpiration, and surface runoff is of sufficient magnitude to offset the increased precipitation resulting in a lowered water table. Seven of the wells were reported as having lower water levels at the end of the year than they had at the beginning of the year while six wells were recorded with higher water levels. These departures, however, have not been of sufficient magnitude to indicate any progressive decline of water levels in any of the important aquifers in the State.

Well-Numbering System

The wells are listed alphabetically by counties and numerically within the county.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Allendale County

1. Mr. Easton. At Fairfax. Lat. 32°57', long. 81°14'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 8 inches, reported depth 660 feet. Land-surface datum is about 135 feet above msl. Highest water level 39.0 above lsd, June 19, 1947; lowest 34.96 above lsd, Dec. 27, 1951. Records available: 1946-51. Jan. 30, +37.13; Feb. 27, +36.26; June 27, +35.69; Nov. 27, +35.40; Dec. 27, +34.96.

Barnwell County

1. Town of Barnwell. Lat. 33°14', long. 81°21'. Drilled unused artesian well in sands of Tertiary age, diameter 6 inches, depth 145 feet. Land-surface datum is about 215 feet above msl. Highest water level 32.32 below lsd, Dec. 27, 1951; lowest 54.55 below lsd, June 27, 1951. Records available: 1948-51. Jan. 30, 46.91; Feb. 27, 54.29; June 27, 54.55; Sept. 25, 49.97; Nov. 29, 32.52; Dec. 27, 32.32.

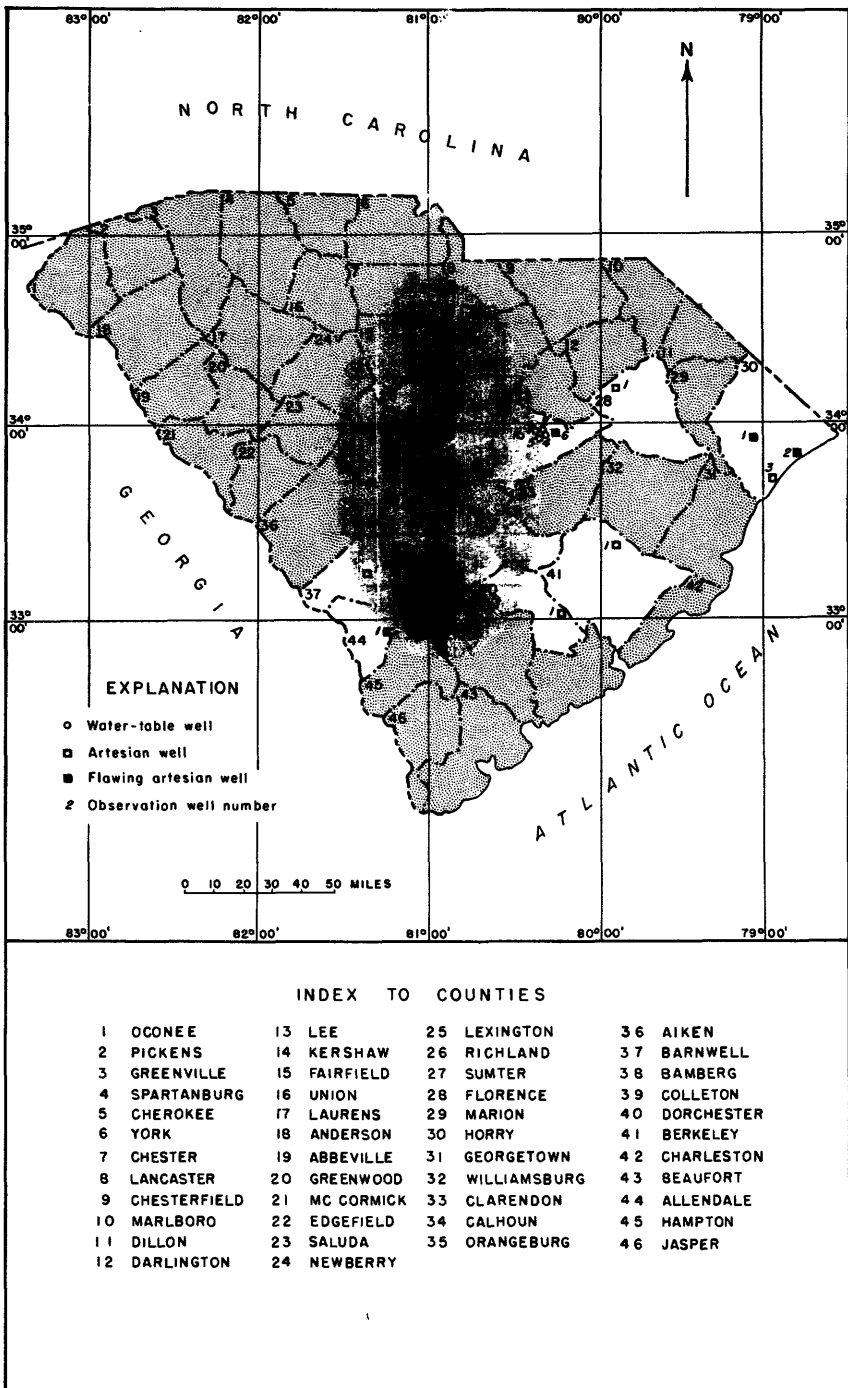


Figure 26. --Location of observation wells in South Carolina, 1951.

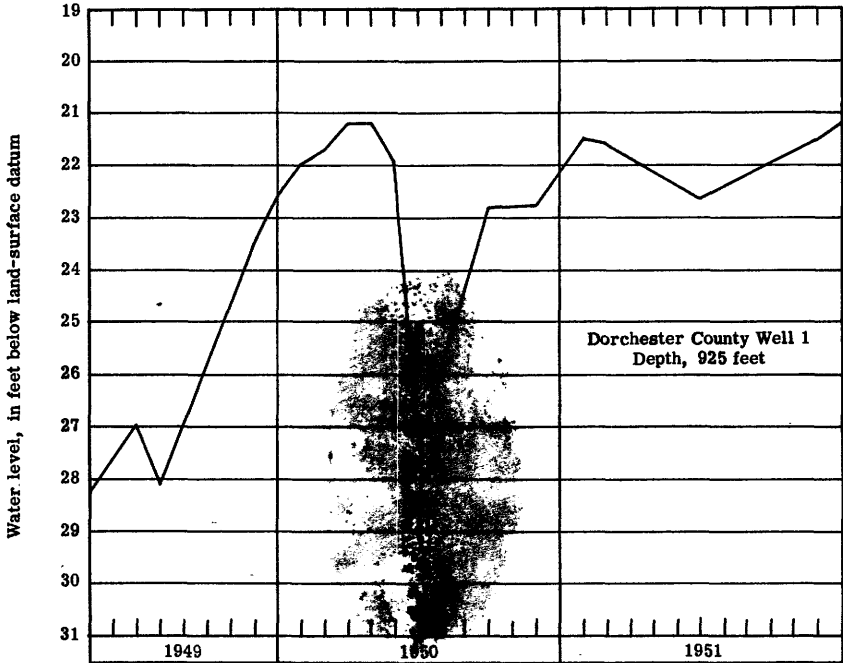


Figure 27.--Fluctuations of water level in well 1, Summerville, Dorchester County, South Carolina, 1949-51.

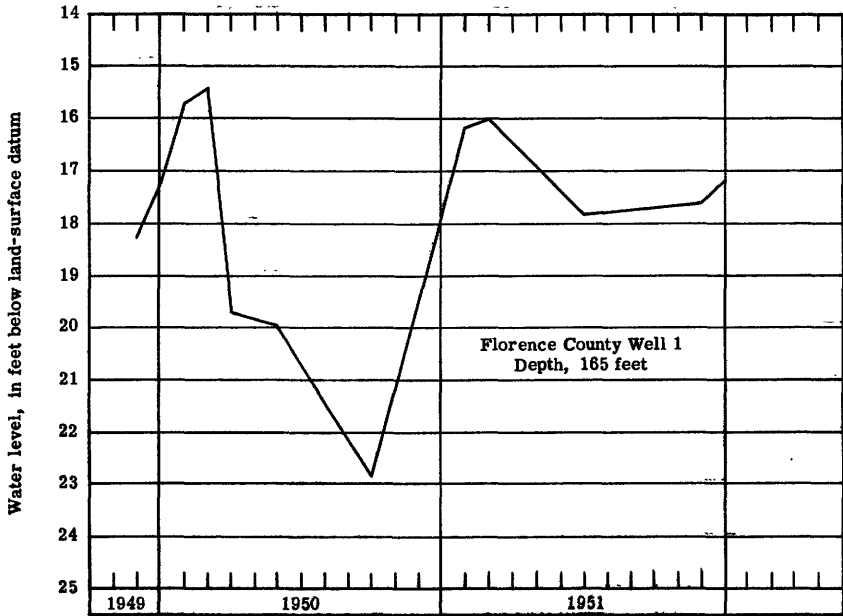


Figure 28.--Fluctuations of water level in well 1, Timmonsville, Florence County, South Carolina, 1949-51.

Berkeley County

1. Santee River Hardwood Co. At Saint Stephen. Lat. 33°25', long. 79°56'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 6 inches, depth 900 feet. Land-surface datum is about 75 feet above msl. Highest water level 15.69 below lsd, June 14, 1949; lowest 20.60 below lsd, Mar. 15, 1946. Records available: 1946-51. Jan. 30, 16.02; Feb. 27, 15.93; June 27, 16.35; Nov. 29, 16.29; Dec. 27, 16.29.

Dorchester County

1. Town of Summerville. Near town hall on Main St. Lat. 33°01', long. 80°10'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 8 inches, depth 925 feet. Land-surface datum is about 70 feet above msl. Highest water level 21.20 below lsd, Mar. 30 and Apr. 26, 1950; lowest 28.22 below lsd, Apr. 30, 1949. Records available: 1948-51. Jan. 30, 21.55; Feb. 29, 21.59; June 27, 22.65; Nov. 29, 21.48; Dec. 27, 21.22.

Florence County

1. Town of Timmonsville. Near reservoir. Lat. 34°08', long. 79°51'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 5 inches, depth 165 feet. Land-surface datum is about 150 feet above msl. Highest water level 15.39 below lsd, Feb. 23, 1950; lowest 54.05 below lsd, June 29, 1950. Records available: 1950-51. Jan. 31, 16.15; Feb. 28, 16.07; June 28, 17.82; Nov. 30, 17.62; Dec. 29, 17.22.

Horry County

1. St. Paul's Baptist Church. Lat. 33°53', long. 79°03'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 2 inches, reported depth 250 feet. Land-surface datum is about 26 feet above msl. Highest water level 10.7 above lsd, Feb. 28, 1947; lowest 5.7 above lsd, June 28, 1951. Records available: 1947-51. Jan. 30, +6.5; Feb. 28, +6.5; June 28, +5.7; Nov. 30, +8.28; Dec. 29, +8.99.

2. K. C. Ellsworth. Lat. 33°48', long. 78°42'. Drilled domestic artesian well in sands of Upper Cretaceous age, diameter 10 inches, depth 587 feet. Land-surface datum is about 25 feet above msl. Highest water level 12.45 above lsd, Jan. 31, 1951; lowest 9.0 above lsd, Sept. 28, 1949. Records available: 1947-51. Jan. 31, +12.45; Feb. 28, +11.87; June 27, +9.85; Nov. 30, +9.56; Dec. 28, +11.15.

3. City of Myrtle Beach. Lat. 33°41', long. 78°54'. Drilled unused artesian well in Peedee formation, diameter 8 inches, depth 87 feet. Land-surface datum is about 25 feet above msl. Highest water level 7.30 below lsd, Apr. 16, 1948; lowest 16.80 below lsd, Feb. 24, 1950. Records available: 1946-51. Jan. 30, 15.68; Feb. 22, 16.00; June 28, 16.67; Nov. 30, 15.47; Dec. 28, 15.89.

Orangeburg County

1. Town of North. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sands of Tertiary age, diameter 10 inches, depth 125 feet. Land-surface datum is about 280 feet above msl. Highest water level 33.90 below lsd, Mar. 30, 1949; lowest 49.20 below lsd, Jan. 28, 1946. Records available: 1946-51. Jan. 29, 39.50.

2. Town of North. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sands of Tertiary age, diameter 10 inches, depth 125 feet. Land-surface datum is about 280 feet above msl. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21, 1950	36.20	May 26, 1950	38.48	Aug. 31, 1950	38.40	Nov. 28, 1950	39.00
Feb. 27	36.32	June 27	38.73	Oct. 31	38.63	Jan. 29, 1951	38.51
Apr. 27	37.62						

Richland County

1. Shakespeare Manufacturing Co. Near Columbia. Lat. 34°02', long. 81°00'. Drilled unused water-table well in sands of Tuscaloosa age, diameter 6 inches, depth 233 feet. Land-surface datum is about 390 feet above msl. Highest water level 75.50 below lsd, Nov. 13, 1949; lowest 81.64 below lsd, Apr. 18, 1951. Records available: 1949-51. Apr. 18, 81.64.

Sumter County

1. U. S. Geol. Survey. At Poinsett State Park. Lat. $33^{\circ}53'$, long. $80^{\circ}29'$. Drilled observation water-table well in sands of Pleistocene age, diameter 6 inches, depth 29 feet. Land-surface datum is about 190 feet above msl. Highest water level 13.24 below lsd, July 30, 1949; lowest dry Jan. 11, Jan. 31, 1951. Records available: 1942-43, 1946-49, 1951. Jan. 11, dry; Jan. 31, dry; Nov. 30, 14.86; Dec. 29, 15.19.

2. City of Sumter. In Sumter. Lat. $33^{\circ}57'$, long. $80^{\circ}22'$. Jetted unused water-table well in sands of Tertiary age, diameter 24 inches, depth 50 feet. Land-surface datum is about 176 feet above msl. Highest water level 6.96 below lsd, Apr. 15, 1947; lowest 31.87 below lsd, Nov. 30, 1951. Records available: 1946-51. Jan. 31, 31.70; Feb. 28, 31.67; June 1, 30.64; July 18, 29.07; Sept. 28, 31.47; Nov. 30, 31.87; Dec. 29, 31.17.

4. City of Sumter. In Sumter. Lat. $33^{\circ}57'$, long. $80^{\circ}22'$. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 18 inches, depth 625 feet. Land-surface datum is about 176 feet above msl. Highest water level 33.65 below lsd, July 30, 1949; lowest 43.77 below lsd, Dec. 29, 1951. Records available: 1947-51. Jan. 31, 36.08; Feb. 28, 37.30; June 28, 41.55; July 18, 42.85; Sept. 27, 42.35; Nov. 30, 43.39; Dec. 29, 43.77.

5. City of Sumter. In Sumter. Lat. $33^{\circ}57'$, long. $80^{\circ}22'$. Drilled public-supply artesian well in sands of Upper Cretaceous age, diameter 18 inches, depth 625 feet. Land-surface datum is about 176 feet above msl. Records available: 1948-51. Feb. 28, 37.84; Sept. 27, 43.93.

6. Beulah Methodist Church. Near Sumter. Lat. $33^{\circ}57'30''$, long. $80^{\circ}15'$. Drilled domestic artesian well in sands of Cretaceous age, diameter 2 inches, depth 250 feet. Land-surface datum is about 125 feet above msl. Highest water level 8.4 above lsd, Apr. 5, 1950; lowest 7.2 above lsd, Nov. 30, 1950. Records available: 1948-51. Jan. 31, +7.0; Feb. 28, +7.2; June 28, +7.2; Nov. 30, +6.41; Dec. 29, +6.26.

7. City of Sumter. In Sumter. Lat. $33^{\circ}57'$, long. $80^{\circ}22'$. Jetted unused artesian well in sands of Tertiary age, diameter 24 inches, depth 65 feet. Land-surface datum is about 176 feet above msl. Highest water level 14.32 below lsd, May 30, 1949; lowest 20.48 below lsd, Dec. 15, 1950. Records available: 1948-51. Jan. 31, 20.28; Feb. 28, 20.29. Measurement discontinued.

TENNESSEE

By C. R. Lanphere, E. M. Cushing, and T. J. Henderson, Jr.

Scope of Water-Level Program

The observation-well program in Tennessee was continued in 1951. The program in Memphis begun in 1940, was carried on in cooperation with the Memphis Light, Gas and Water Division. The programs in west Tennessee, begun in 1947, and in central and east Tennessee, begun in 1949, are a part of the investigation of the ground-water resources of the State and are carried on in cooperation with the Tennessee Department of Conservation, Division of Geology. Measurements were made in 58 wells, 30 of which were equipped with recording gages. (See figs. 29 and 30.)

A ground-water chart, prepared by Robert Schneider and R. R. Blankenship based upon the results of test drilling in west Tennessee during 1949, was published by the Tennessee Division of Geology as Ground-water Investigations Preliminary Chart 1, entitled "Subsurface geologic cross-section from Claybrook, Madison County, to Memphis, Shelby County, Tennessee".

Precipitation

The table below gives the annual precipitation and the departure from normal at Moscow, Brownsville, Milan, and Martin. These stations were selected because they are in the outcrop belt in sands of Tertiary age of west Tennessee.

Precipitation and departure from normal, 1940-51

Year	Moscow		Brownsville		Milan		Martin	
	Total precipitation	Departure from normal	Total precipitation	Departure from normal	Total precipitation	Departure from normal	Total precipitation	Departure from normal
1940	37.98	-14.61	38.32	-11.26	36.87	-12.84	40.77	a-5.80
1941	34.37	-18.22	31.49	-18.09	31.35	-18.36	29.79	a-16.78
1942	48.46	-4.13	44.34	-5.24	46.21	-3.50	41.31	a-5.26
1943	43.29	-9.30	36.43	-13.15	43.13	-6.58	32.94	a-13.63
1944	64.09	11.50	57.76	8.18	57.44	7.73	49.62	a3.05
1945	67.44	14.85	70.74	21.16	69.97	20.26	60.47	13.90
1946	64.54	11.95	65.13	15.15	61.41	11.70	51.48	4.91
1947	50.02	-2.57	49.52	-.06	50.91	1.20	41.27	-5.30
1948	67.95	15.36	60.02	10.44	57.28	7.57	54.28	7.71
1949	62.89	10.30	56.06	6.48	67.15	17.44	56.81	10.24
1950	b67.33	b14.74	65.49	15.91	b68.78	b19.07	68.48	21.91
1951	57.53	4.94	60.11	10.53	73.34	23.63	58.14	11.57

a Computed using 46.57 as the normal precipitation at Martin.

b Record incomplete.

Pumpage

The following table gives the estimated average daily quantities of water pumped from the "500-foot" and "1,400-foot" sands in the Memphis area since 1941:

Year	"500-foot" sand (gallons)	"1,400-foot" sand (gallons)
1941	75,000,000	9,000,000
1942	85,000,000	9,000,000
1943	100,000,000	11,000,000
1944	105,000,000	11,000,000
1945	95,000,000	9,000,000
1946	85,000,000	9,000,000
1947	90,000,000	10,000,000
1948	100,000,000	11,000,000
1949	100,000,000	11,000,000
1950	100,000,000	11,000,000
1951	105,000,000	11,000,000

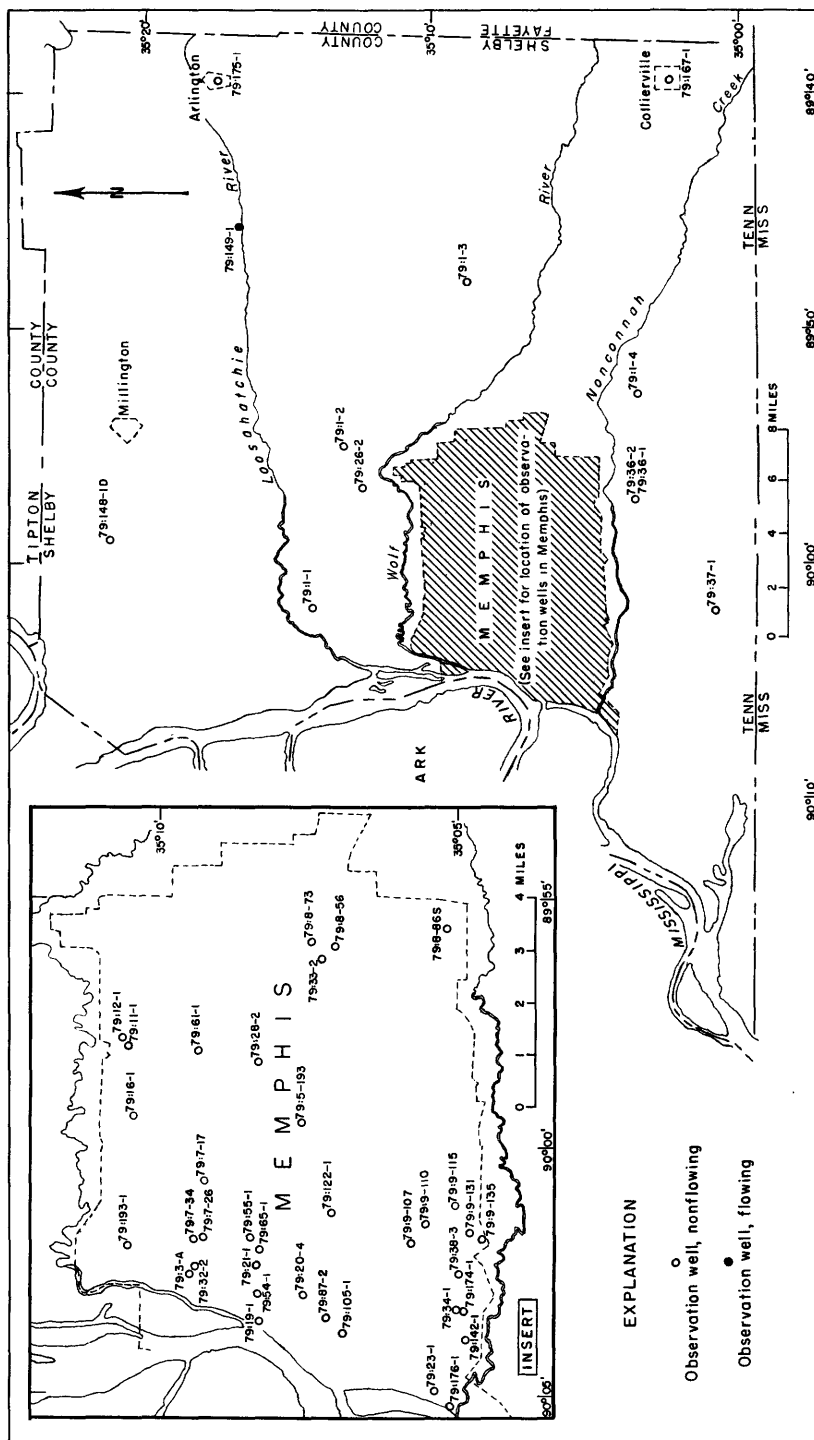


Figure 29. --Location of observation wells in Shelby County, Tennessee, 1951.

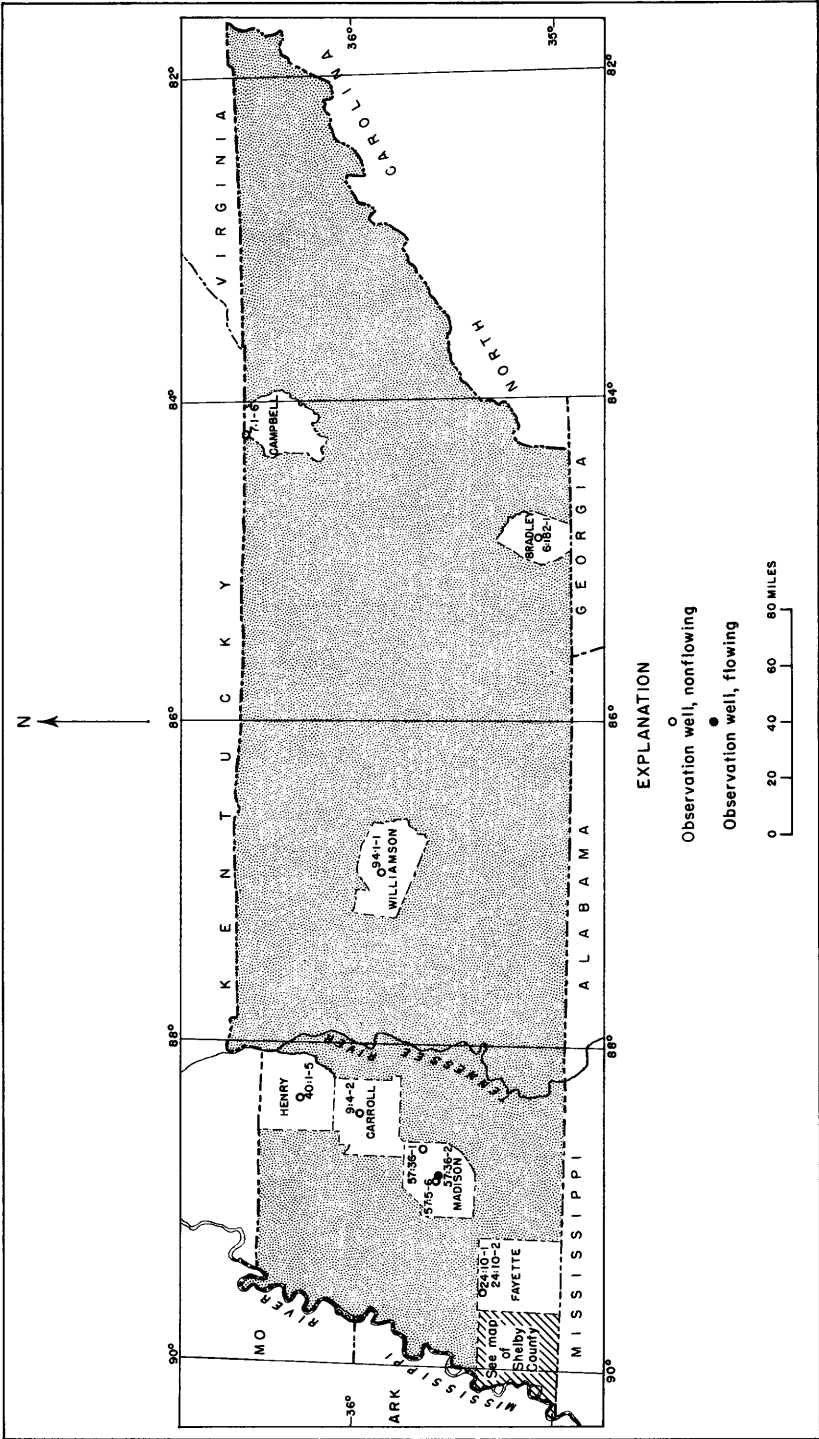


Figure 30.--Location of observation wells in Tennessee, 1951.

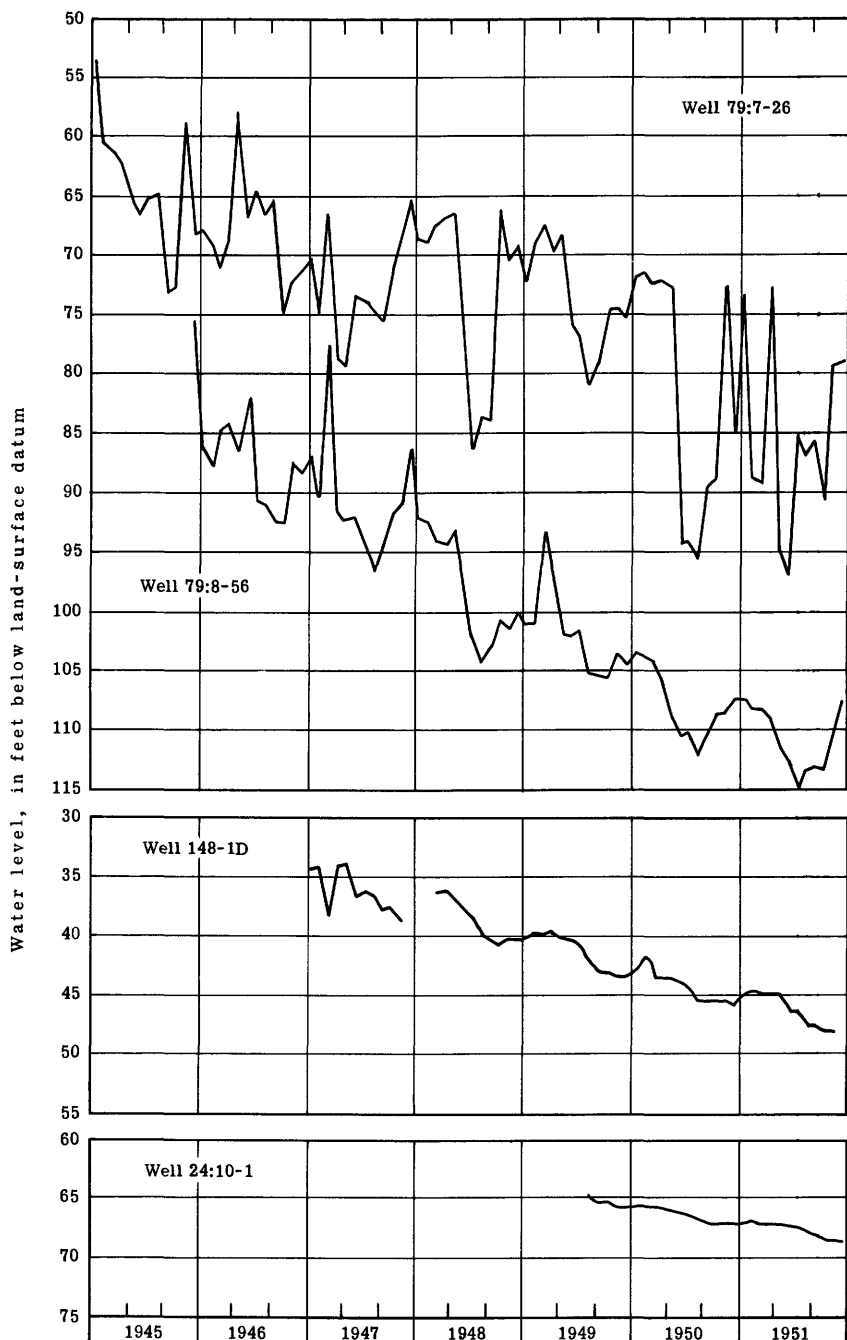


Figure 31. --Fluctuations of water levels in wells screened in the "1,400-foot" sand in the Memphis area, Tennessee, 1945-51.

Listed below is the estimated 1951 daily pumpage for the major municipal users of ground water in west Tennessee. All of these towns except Paris obtain ground-water supplies from sands of Tertiary age. Paris obtains its water supply from sands of Cretaceous age.

Estimated average daily pumpage in towns in west Tennessee, 1951			
Town	Daily pumpage (gallons)	Town	Daily pumpage (gallons)
Brownsville	300,000	Martin	720,000
Covington	620,000	Milan	500,000
Dyersburg	1,300,000	Paris	1,000,000
Frayser	1,200,000	Ripley	300,000
Humboldt	3,000,000	Trenton	700,000
Jackson	2,100,000	Union City	920,000
Memphis	45,800,000		

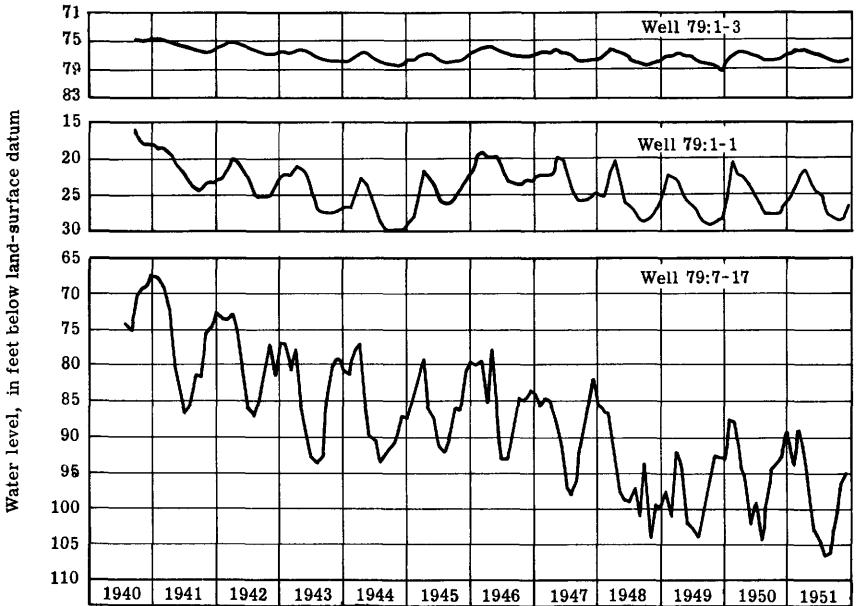


Figure 32.--Fluctuations of water levels in wells screened in the "500-foot" sand in the Memphis area, Tennessee.

Interpretation of Water-Level Fluctuations

Generally, water levels in wells screened in the "500-foot" sand in the Memphis area declined slightly during 1951. The levels ranged from about 13 feet higher to about 11 feet lower than the lowest levels of 1950. Based upon measurements made in 36 wells, the average decline in water level was about 0.3 foot. Figure 32 shows the fluctuations of water levels in three wells screened in the "500-foot" sand. The water levels in well 79:1-1, about 7 miles north of Memphis, and in well 79:1-3, about 14 miles east of Memphis, have small yearly ranges of fluctuations and probably show the effect of all the pumping from the "500-foot" sand within the area. 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 water level in an active well field is extremely large. The water levels in wells screened in the "1,400-foot" sand continued to decline during 1951. Based upon measurements made in four wells, the average lowering was about 2 feet. Figure 31 shows the fluctuations of water levels in four wells screened in the "1,400-foot" sand. Wells 79:7-26 and 79:8-56 are in the Parkway well field and the Sheahan well field, respectively, of the Memphis Light, Gas and Water Division. Well 79:148-1D is about 15 miles north of Memphis and well 24:10-1 is about 30 miles northeast of Memphis. Water levels in observation wells in other parts of west Tennessee also declined during 1951.

Well-Numbering System

Each well number is made up of three items, the first and second of which are separated by a colon, and the second and third by a hyphen. The first item represents the county in which the well is situated; the second is the number assigned the owner or well field; and the third is the number of the well itself. The first item necessitated numbering all the counties in the State in alphabetical order, starting with Anderson County as 1, Bedford County as 2, and so on. To provide for the second item, the owners or the well fields were assigned numbers in consecutive order as the wells were recorded by the Geological Survey. The third item, the number of the well, corresponds to the number assigned the well by the owner. For example, the number 79:7-17 indicates county 79, Shelby County; well field 7, the Parkway field of the Memphis Light, Gas and Water Division; and well 17 in that field, as numbered by the owner. The Auction Avenue well field of the Memphis Light, Gas and Water Division, where the water of about 100 wells flowed through tunnels into the so-called "wet well", is field 3 in Shelby County, and the shafts that were used to inspect the tunnels and drifts of that field, 25 in all, have been lettered to differentiate them from the wells. (See 79:3-A.)

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Bradley County

6:182-1. F. G. Trewhitt. Lat. 35°05'03", long. 84°50'50". Dug unused water-table well, diameter 36 inches, depth 30 feet. Land-surface datum is about 850 feet above msl. Highest water level 7.82 below lsd, Mar. 30, 1951; lowest 20.28 below lsd, Nov. 15, 1950. Records available: 1950-51.

Daily lowest water level from recorder graph *

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	18.89	16.83	12.96	8.29	11.51	h16.05	16.52	.....
2	18.87	15.77	13.03	8.73	11.62	16.12	16.28	h18.42
3	18.79	15.65	13.11	9.19	11.66	16.23	16.16	18.47
4	18.73	15.54	13.24	9.49	11.77	16.35	16.02	18.57
5	18.39	15.59	13.19	9.77	12.15	16.46	15.75	18.64
6	18.43	15.57	12.95	9.90	12.46	16.53	15.93	18.67
7	18.37	15.36	12.76	9.91	12.70	16.63	16.07	18.71
8	18.25	15.25	12.17	8.97	12.84	16.74	16.18	18.77
9	18.28	14.92	12.18	8.92	12.97	16.63	16.33	18.81
10	18.24	14.90	12.14	9.15	13.04	16.43	16.47	18.85
11	18.19	14.87	12.08	9.36	13.24	16.58	16.58	18.90
12	18.18	14.67	11.54	9.37	13.47	16.67	16.71	18.96
13	18.15	14.59	10.77	9.47	13.70	16.43	16.82	19.00
14	18.07	14.59	9.98	9.72	13.80	16.29	16.92	19.06
15	17.77	14.51	9.79	10.02	13.85	16.35	17.01	19.09

6:182-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
16	17.36	14.52	9.72	10.36	13.87	16.45	17.10	19.14
17	17.20	14.53	9.85	10.60	13.88	16.57	17.20	19.18
18	17.15	14.49	10.08	10.71	14.33	16.69	17.29	19.24
19	17.12	14.39	10.12	10.73	14.43	16.76	17.37	19.28
20	17.08	13.90	10.12	10.77	14.54	16.83	17.48	19.32
21	17.17	12.61	9.76	10.88	14.68	h16.88	17.58	19.35
22	17.17	12.64	9.80	10.57	14.75	.....	17.67	h19.39
23	17.07	12.52	9.76	9.95	14.92	.....	17.73	.....
24	16.99	12.59	10.23	9.77	15.09	.....	17.80	.....
25	17.03	12.57	10.43	9.77	h15.18	.....	17.88	.....
26	17.07	12.59	10.72	10.26	.....	.....	h17.95	.....
27	17.00	12.73	10.81	10.55	.....	.....	.....	.....
28	17.05	12.79	10.80	10.72	.....	h17.47	.....	.....
29	17.10		8.12	10.88	.....	17.51	.....	.....
30	17.13		8.07	11.18	.....	17.05	.....	.....
31	17.10		8.12		.....	.....	.....	.....

* No record for September, October, November, and December.

h Tape measurement.

Campbell County

7:1-6. Jellico Water Works. Lat. 36°35', long. 84°04'. Drilled unused well, diameter 12 inches, depth 620 feet. Land-surface datum is about 1,020 feet above msl. Highest water level 70.81 below lsd, Feb. 2, 1950; lowest 87.04 below lsd, Aug. 10, 1949. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.72	76.60	74.69	74.34	74.95	75.80	76.08	76.53	77.03	77.19	77.34	.....
2	76.67	71.85	74.69	74.34	74.94	75.78	76.09	76.53	77.00	77.14	77.08	.....
3	76.56	72.76	74.77	74.27	74.86	75.79	76.09	76.56	76.99	77.19	76.99	.....
4	76.66	73.23	74.78	74.29	.....	75.84	76.06	76.60	77.00	77.24	77.05	h76.13
5	76.65	73.64	74.78	74.37	h74.92	75.85	75.98	76.68	76.97	77.27	77.10	76.11
6	76.55	73.79	74.68	74.38	74.98	75.83	75.89	76.68	76.97	77.27	77.04	76.18
7	76.51	74.17	74.56	74.35	75.04	75.80	75.93	76.62	77.03	77.32	76.83	76.20
8	76.56	74.23	74.56	74.37	75.06	75.82	76.00	76.67	77.07	77.36	76.68	76.14
9	76.58	74.46	74.57	74.40	75.04	75.78	76.02	76.72	77.06	77.36	76.68	73.95
10	76.56	74.60	74.58	74.48	75.03	75.76	76.07	76.76	h77.05	77.36	76.67	73.91
11	76.57	74.60	74.55	74.50	75.06	75.75	76.10	76.79	.....	77.40	76.67	74.03
12	76.57	74.63	74.43	74.43	75.20	75.79	76.12	76.72	.....	77.47	76.66	74.26
13	76.58	74.83	74.29	74.45	75.28	75.79	76.17	76.71	.....	77.49	76.66	74.47
14	76.43	75.01	74.24	74.47	75.34	75.81	76.20	76.72	.....	77.50	76.58	74.47
15	76.11	75.01	74.36	74.60	75.36	75.80	76.25	76.74	.....	77.47	76.58	74.05
16	75.98	74.95	74.47	74.59	75.31	75.79	76.29	76.72	.....	77.47	76.43	.....
17	75.90	74.92	74.49	74.61	75.30	75.87	76.34	76.72	h77.09	77.49	76.43	.....
18	75.85	74.92	74.58	74.59	75.36	75.98	76.36	76.77	77.15	77.49	76.41	h73.76
19	75.91	74.87	74.61	74.64	75.40	76.04	76.36	76.80	77.19	77.49	76.45	73.82
20	75.98	74.63	74.61	74.75	e75.42	76.05	76.47	76.79	77.23	77.50	76.48	73.84
21	76.15	73.90	74.56	74.77	75.44	76.09	76.50	76.81	77.24	77.55	76.49	73.75
22	76.15	73.78	.....	74.84	75.46	76.09	76.55	76.88	77.20	77.56	76.52	73.52
23	76.05	74.02	.....	74.90	75.50	76.18	76.55	76.92	77.26	77.55	76.49	73.52
24	76.06	74.19	.....	74.84	75.54	76.13	76.52	76.94	77.25	77.56	76.46	73.76
25	76.11	74.25	.....	74.89	75.56	76.15	76.42	76.95	77.15	77.59	76.41	73.87
26	76.15	74.40	.....	74.94	75.55	76.10	76.37	76.98	77.11	77.55	76.11	74.19
27	76.14	74.53	.....	74.90	75.51	76.11	76.35	76.98	77.14	77.49	h76.10	74.23
28	76.19	74.55	h74.68	74.88	75.58	76.15	76.41	77.00	77.23	77.50	.....	74.23
29	76.22		74.68	74.84	75.67	76.19	76.42	77.01	77.23	77.50	.....	74.24
30	76.20		74.33	74.91	75.73	76.15	76.46	76.99	77.20	77.50	.....	74.38
31	76.02		74.25		75.79		76.50	76.99		77.50		74.50

e Estimated.

h Tape measurement.

Carroll County

9:4-2. City of Huntingdon. Fifth Ave. East. Lat. 36°00', long. 88°26'. Drilled unused artesian well in sand of Ripley formation, reported diameter 8 inches, reported depth 269 feet. Highest water level 0.97 below lsd, Feb. 6, 1951; lowest 6.57 below lsd, June 10, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	1.46	May 1	0.98	Aug. 1	2.51	Nov. 2	2.49
Feb. 6	.97	June 1	1.47	31	2.19	Dec. 6	1.25
28	2.84	July 2	3.84	Sept. 28	1.96	28	1.09
Apr. 2	2.84						

Fayette County

24:10-1. Tennessee Division of Geology and U. S. Geol. Survey. Lat. 35°22'26", long. 89°32'52". Drilled observation artesian well in sand of Wilcox group, diameter 6 to 4 inches, depth 1,025 feet, screen at 1,008-1,025. Land-surface datum is 317.5 feet above msl. Tape measurements from Jan. 3 to Nov. 29. Highest water level 64.89 below lsd, Aug. 31, 1949; lowest 68.52 below lsd, Dec. 26, 1951. Records available: 1949-51.

Jan. 3	67.06	Nov. 29	68.39	Dec. 10	68.43	Dec. 21	68.31
Feb. 6	66.98	30	68.43	11	68.33	22	68.33
28	67.06	Dec. 1	68.40	12	68.30	23	68.37
Apr. 2	67.03	2	68.36	13	68.35	24	68.37
May 1	67.18	3	68.30	14	68.28	25	68.34
June 1	67.43	4	68.23	15	68.48	26	68.52
July 2	67.45	5	68.22	16	68.48	27	68.51
Aug. 1	67.77	6	68.19	17	68.44	28	68.38
31	68.08	7	68.35	18	68.32	29	68.25
Sept. 28	68.38	8	68.36	19	68.32	30	68.21
Nov. 2	68.25	9	68.42	20	68.14	31	68.28

24:10-2. Tennessee Division of Geology and U. S. Geol. Survey. Lat. 35°22'26", long. 89°32'52". Drilled observation artesian well in sand of Claiborne group, diameter 6 to 4 inches, depth 365 feet, screen at 345-365. Land-surface datum is 317.2 feet above msl. Tape measurements from Jan. 3 to Nov. 29. Highest water level 37.37 below lsd, Apr. 2, 1951; lowest 38.97 below lsd, Dec. 1, 1949. Records available: 1949-51.

Jan. 3	37.73	Nov. 2	38.17	Dec. 8	38.32	Dec. 18	38.20
Feb. 6	37.57	29	38.36	9	38.42	19	38.20
28	37.41	30	38.38	10	38.42	20	38.00
Apr. 2	37.37	Dec. 1	38.36	11	38.35	25	.....
May 1	37.39	2	38.31	12	38.22	26	.....
June 1	37.63	3	38.26	13	38.26	27	.....
July 2	37.66	4	38.19	14	38.18	28	h38.23
Aug. 1	37.80	5	38.17	15	38.42	29	38.09
31	37.99	6	38.18	16	38.45	30	37.95
Sept. 28	38.25	7	38.32	17	38.42	31	38.01

h Tape measurement.

Henry County

40:1-5. Paris Board of Public Utilities. Formerly City of Paris. Fentress and West Blythe Sts., Paris. Lat. 36°18', long. 88°20'. Drilled unused artesian well in sand of Ripley formation, diameter 8 inches, depth 425 feet. Land-surface datum is about 510 feet above msl. Highest water level 105.68 below lsd, Mar. 30, 1950; lowest 116.06 below lsd, July 2, 1951. Records available: 1945, 1947-51.

Jan. 3	110.32	May 1	109.37	Aug. 1	110.15	Nov. 2	109.76
Feb. 6	109.67	June 1	111.43	31	111.32	Dec. 5	109.52
28	108.95	July 2	116.06	Sept. 28	110.92	28	106.84
Apr. 2	106.04						

Madison County

57:5-6. City of Jackson. Mobile and Magnolia Sts., Jackson. Lat. 35°36'18", long. 88°48'21". Drilled observation artesian well, diameter 2 inches, depth 149 feet. Land-surface datum is 360.4 feet above msl. Highest water level 25.12 below lsd, June 2, 1949; lowest 61.09 below lsd, Aug. 31, 1951. Records available: 1944-45, 1947-51.

Jan. 3	c54.00	May 1	c55.11	Aug. 1	c58.18	Nov. 2	c58.89
Feb. 7	c51.80	June 1	c55.50	31	c61.09	30	41.69
28	c52.06	July 2	c52.03	Sept. 28	c59.14	Dec. 28	37.97
Apr. 2	49.94						

c Nearby well being pumped.

57:36-1. Tennessee Division of Geology and U. S. Geol. Survey. Lat. 35°42'30", long. 88°32'40". Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 659 feet, screen at 639-659. Land-surface datum is 562.7 feet above msl. Tape measurement from Jan. 3 to Nov. 30. Highest water level 124.61 below lsd, Apr. 2, 1951; lowest 126.57 below lsd, Sept. 30, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	125.26	Nov. 30	125.45	Dec. 11	125.30	Dec. 22	125.20
Feb. 6	124.98	Dec. 1	125.43	12	125.26	23	125.21
28	125.07	2	125.40	13	125.32	24	125.25
Apr. 2	124.61	3	125.38	14	125.28	25	125.22
May 1	124.93	4	125.28	15	125.21	26	125.32
June 1	125.23	5	125.27	16	125.36	27	125.32
July 2	125.17	6	125.26	17	125.36	28	125.28
Aug. 1	125.28	7	125.33	18	125.32	29	125.14
31	125.48	8	125.33	19	125.22	30	125.12
Sept. 28	125.61	9	125.37	20	125.23	31	125.16
Nov. 2	125.48	10	125.37	21	125.09		

57:36-2. Tennessee Division of Geology and U. S. Geol. Survey. Lat. 35°37', long. 88°50'. Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 780 feet, screen at 761-780. Land-surface datum is 352.1 feet above msl. Highest water level 51.5 above lsd, June 30, 1950; lowest 46.0 above lsd, July 9, Oct. 29, Nov. 6, 1951. Records available: 1949-51.

Water level above land-surface datum

Apr. 30	47.0	June 18	46.5	Aug. 6	46.5	Sept. 24	46.5
May 7	46.5	25	47.0	13	46.5	Oct. 1	46.5
14	46.5	July 2	46.5	20	46.5	8	46.5
21	46.5	9	46.0	27	46.5	15	46.5
28	46.5	16	47.0	Sept. 3	46.5	22	46.5
June 4	46.5	23	47.0	10	46.5	29	46.0
11	47.0	30	46.5	17	46.5	Nov. 6	46.0

Shelby County

79:1-1. Memphis Light, Gas and Water Division. Lat. 35°14'35", long. 90°00'52". Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 434 feet. Land-surface datum is 228.7 feet above msl. Highest water level 12.65 below lsd, Sept. 3, 1940; lowest 29.86 below lsd, Oct. 27, 1944. Records available: 1940-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.85	.....	21.47	21.63	20.47	23.75	24.81	24.97	.....	28.19	28.34	26.85
2	25.84	.....	22.39	21.48	20.68	23.87	24.84	25.16	.....	28.14	28.39	26.79
3	25.59	.....	22.24	21.37	20.83	23.95	24.80	25.38	28.18	28.20	28.40	26.69
4	25.57	.....	22.26	21.09	21.18	23.99	24.74	25.64	28.16	28.32	28.44	26.48
5	25.51	h24.17	22.26	20.90	21.44	24.03	24.68	25.82	28.02	28.42	28.40	26.46
6	25.67	24.17	21.20	20.69	21.62	24.08	24.56	25.94	28.01	28.52	28.25	26.46
7	.....	24.26	21.14	20.45	21.66	24.15	24.50	26.10	28.12	28.65	28.23	26.62
8	h25.75	24.26	21.24	20.30	21.67	24.19	24.42	26.36	28.19	28.68	28.27	26.62
9	25.75	24.08	21.29	20.20	21.66	24.21	24.37	26.64	28.22	28.70	28.25	26.56
10	25.71	24.22	21.28	20.15	21.66	24.24	24.34	26.90	28.14	28.73	28.25	26.55
11	25.58	24.22	21.30	20.14	21.77	24.20	24.33	27.11	28.10	28.77	28.23	26.32
12	.....	23.98	21.31	20.22	21.85	24.16	24.36	27.12	28.07	28.86	28.17	26.21
13	.....	23.74	21.28	20.30	21.91	24.21	24.42	27.38	27.99	28.90	27.78	26.23
14	.....	23.73	21.43	20.32	21.95	24.26	24.49	27.47	28.08	28.91	27.95	26.10
15	23.96	23.68	21.55	20.37	21.99	24.27	24.53	27.55	28.11	28.86	27.95	25.83
16	.....	23.55	21.59	20.38	22.04	24.30	24.52	27.64	28.12	28.76	28.05	25.83
17	.....	23.55	21.57	20.34	22.13	24.35	24.50	27.70	28.08	28.74	28.09	25.52
18	.....	23.48	21.67	20.26	22.27	24.36	24.50	27.70	27.99	28.75	28.06	25.48
19	.....	23.39	21.65	20.30	22.36	24.36	24.52	27.71	27.95	28.77	27.89	25.50
20	.....	23.31	21.67	20.34	22.41	24.37	24.58	27.70	27.96	28.74	27.71	25.23
21	.....	23.18	21.67	20.28	22.44	24.42	.....	27.70	27.99	28.75	27.50	25.25
22	h23.95	23.17	21.63	20.17	22.51	24.54	.....	27.76	27.96	28.78	27.36	25.25
23	23.88	23.01	21.49	20.16	22.68	24.66	24.73	27.81	27.99	28.77	27.25	25.28
24	23.90	22.89	21.60	19.95	22.83	24.70	24.77	27.83	27.97	28.86	27.16	25.28
25	.....	22.61	21.60	19.99	22.96	24.71	24.82	.....	27.91	28.90	27.07	25.17
26	.....	22.22	21.58	20.07	23.13	24.62	24.84	.....	27.91	28.92	27.00	24.93
27	.....	21.97	21.45	20.10	23.18	24.70	24.82	h27.76	28.06	28.86	26.99	24.78

79:1-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
28	.....	21.65	21.29	20.25	23.21	24.77	24.73	.....	28.17	28.70	26.96	24.52
29	h23.98		21.49	20.28	23.30	24.84	e24.73	.....	28.21	28.66	26.95	24.27
30	23.97		21.58	20.29	23.46	24.74	24.71	.....	28.22	28.54	26.92	24.15
31	23.82		21.66		23.60	24.79	.....			28.46		24.09

e Estimated. h Tape measurement.

79:1-2. Memphis Light, Gas and Water Division. Lat. 35°13'25", long. 89°53'57".

Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 344 feet.

Land-surface datum is 299.8 feet above msl. Highest water level 63.33 below lsd, Sept. 27, 1940; lowest 79.34 below lsd, Sept. 24, 26, 27, and Oct. 16, 1944. Records available: 1940-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.48	.....	75.09	.....	73.79	74.83	75.76	76.63	77.58	78.16	78.27	77.80
2	76.43	.....	75.07	74.12	73.84	74.90	75.80	76.66	77.66	78.12	78.27	77.73
3	76.15	.....	74.95	74.12	73.84	74.94	75.81	76.67	77.74	78.17	78.28	77.63
4	76.10	.....	74.95	74.16	73.82	74.96	75.82	76.75	77.78	78.24	78.26	77.53
5	76.04	h75.37	h74.84	74.18	73.90	74.96	75.88	76.85	77.80	78.27	78.25	77.45
6	75.91	75.43	.....	74.14	73.98	74.96	75.95	76.88	77.86	.....	78.20	77.43
7	75.94	75.52	.....	74.08	74.02	74.97	75.99	76.88	77.93	.....	78.19	77.54
8	76.00	75.50	.....	74.03	74.04	74.94	75.98	76.92	77.97	78.45	78.21	77.52
9	76.06	75.41	.....	73.99	74.04	74.95	75.99	77.01	77.95	78.45	78.27	.....
10	76.11	75.43	.....	73.98	74.02	74.95	76.02	77.13	77.90	78.44	78.30	h77.39
11	76.16	75.42	.....	73.94	74.09	74.99	76.03	77.13	77.91	78.45	78.30	77.39
12	76.16	75.43	74.62	73.90	74.22	75.06	76.06	77.18	77.91	78.53	78.22	77.34
13	76.14	75.62	74.58	73.88	74.31	75.17	76.10	77.26	77.88	78.59	78.03	77.41
14	75.97	75.66	74.51	73.90	74.43	75.21	76.12	77.32	77.85	78.64	77.96	77.38
15	75.86	75.65	74.54	73.93	74.48	75.23	76.12	77.36	77.86	78.64	77.96	77.41
16	75.81	75.55	74.54	73.94	74.46	75.27	76.14	77.39	77.88	78.63	78.08	77.39
17	75.69	75.55	74.50	73.94	74.40	75.31	76.18	77.37	77.85	78.63	78.11	77.25
18	75.82	75.49	74.50	73.88	74.34	75.39	76.21	77.36	77.87	78.63	78.12	77.15
19	75.81	75.36	74.50	73.84	74.37	75.44	76.23	77.22	77.90	78.65	78.09	77.15
20	75.91	75.31	74.48	73.87	74.38	75.45	76.27	77.18	77.98	78.62	78.06	77.00
21	76.15	75.27	74.47	73.84	74.38	75.47	76.32	77.20	78.01	78.50	78.04	77.12
22	76.14	75.25	74.47	73.76	74.38	75.52	76.35	77.22	e77.99	78.47	78.00	77.12
23	75.95	75.26	74.40	73.76	74.37	75.59	76.41	77.24	.....	.....	77.93	77.12
24	75.95	75.25	74.49	73.71	74.37	75.65	76.31	77.26	h77.95	.....	77.92	77.12
25	75.96	.....	74.48	73.65	74.40	75.68	76.33	77.29	77.96	.....	77.88	77.08
26	75.94	75.09	74.42	73.66	74.50	75.66	76.39	77.29	77.97	.....	77.85	77.14
27	75.82	75.11	74.34	73.66	74.54	75.72	76.41	77.25	78.13	.....	77.85	77.13
28	75.82	75.08	.....	73.67	74.60	75.78	76.41	77.28	78.20	.....	77.81	76.93
29	75.80	.....	.....	73.63	74.67	75.84	76.45	77.35	78.20	78.36	77.86	76.67
30	75.77	.....	.....	73.68	74.74	75.76	76.52	77.45	78.19	78.37	77.86	76.51
31	.....	.....	.....	.....	74.78	.....	76.57	77.49	.....	78.38	.....	76.42

e Estimated.

h Tape measurement.

79:1-3. Memphis Light, Gas and Water Division. Lat. 35°08'59", long. 89°47'59".

Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 384 feet.

Land-surface datum is 330.4 feet above msl. Highest water level 74.08 below lsd, Dec. 27, 1940; lowest 79.53 below lsd, Dec. 5, 1949. Records available: 1940-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.24	.....	76.41	76.26	76.21	76.88	77.01	77.27	77.64	77.86	78.14	.....
2	77.19	.....	76.39	76.31	76.27	76.87	77.04	77.28	77.70	77.82	.....	.....
3	.....	.....	76.38	76.32	76.23	76.86	77.00	77.30	77.73	77.85	.....	h77.76
4	.....	.....	76.46	76.30	76.14	76.84	76.94	77.35	77.74	77.97	.....	.....
5	.....	.....	76.49	76.29	76.25	76.88	76.98	77.37	77.73	78.03	h78.15	.....
6	77.01	76.51	76.47	76.22	76.40	76.85	76.98	77.35	77.74	78.04	78.06	.....
7	76.95	76.72	76.44	76.11	76.45	76.80	76.93	77.31	77.82	e78.11	e78.14	.....
8	76.94	76.72	76.55	76.17	76.44	76.77	76.88	77.34	77.81	78.11	e78.18	.....
9	76.87	76.57	76.62	76.22	76.39	76.78	76.87	77.38	77.76	.....	.....	.....
10	76.79	76.57	76.59	76.26	76.32	76.81	76.89	77.47	77.71	.....	78.15	h77.86
11	76.82	76.49	76.50	76.22	76.41	76.80	76.92	77.48	77.78	.....	78.13	.....
12	76.79	76.35	76.49	76.24	76.49	76.78	76.94	77.50	77.77	.....	78.06	.....
13	76.74	76.44	76.43	76.27	76.57	76.86	76.96	77.51	77.76	.....	77.91	.....
14	76.55	76.30	76.45	76.28	76.61	76.91	76.97	77.51	77.82	.....	78.02	.....
15	76.53	76.30	76.51	76.37	76.65	76.87	76.99	77.50	77.84	78.06	.....	.....

79:1-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	76.58	76.39	76.52	76.46	76.64	76.83	77.02	77.51	77.85	78.10	78.22	.....
17	76.52	76.40	76.45	76.50	76.55	76.87	77.04	77.50	77.82	78.13	78.24	77.51
18	76.42	76.36	76.56	76.42	76.56	76.90	77.05	77.48	77.80	78.13	78.23	77.44
19	76.42	76.28	76.63	76.40	76.58	76.92	77.05	77.48	77.81	78.16	.....	77.44
20	76.65	76.26	76.64	76.48	76.56	76.91	77.09	77.48	77.82	78.10	.....	77.20
21	76.78	76.39	76.60	76.43	76.58	76.94	77.15	77.48	77.84	78.08	.....	77.41
22	76.78	76.45	76.58	76.50	76.56	76.94	77.19	77.51	77.81	78.12	.....	.....
23	76.59	76.47	76.40	76.54	76.60	77.02	77.19	77.55	77.85	78.12	.....	.....
24	76.67	76.43	76.54	76.43	76.60	77.06	77.12	77.53	77.84	78.21	.....	.....
25	76.72	76.35	76.52	76.29	76.61	77.07	77.13	77.51	77.82	78.23	.....	.....
26	76.71	76.27	76.52	76.27	76.64	76.99	77.17	77.50	77.79	78.19	h77.94	.....
27	76.61	76.32	76.43	76.27	76.67	77.01	77.17	77.48	77.91	78.15	.....	77.56
28	76.74	76.30	76.23	76.23	76.68	77.08	77.15	77.51	78.00	78.07	.....	77.47
29	76.83		76.25	76.15	76.72	77.09	77.18	77.56	.....	78.07	.....	77.20
30	76.84		76.34	76.13	76.79	77.00	77.23	77.59	.....	78.08	.....	77.13
31	76.72		76.34		76.82		77.24	77.59		78.10		77.22

e Estimated.

h Tape measurement.

79:1-4. Memphis Light, Gas and Water Division. Lat. 35°03'03", long. 89°51'37".

Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 576 feet. Land-surface datum is 332.4 feet above msl. Highest water level 78.00 below lsd, Dec. 30, 1940; lowest 83.72 below lsd, Nov. 18, 1951. Records available: 1940, 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	82.78	82.54	82.40	82.34	82.62	82.74	83.05	83.23	83.44	83.45	83.55
2	.....	82.93	82.54	82.40	82.38	82.63	82.79	83.07	83.29	83.36	83.53	83.51
3	.....	82.96	82.52	82.44	82.38	82.63	82.78	83.06	83.35	83.27	83.56	83.44
4	.....	82.90	82.51	82.44	82.32	82.63	82.72	83.10	83.38	83.29	83.54	83.33
5	.....	82.78	82.57	82.44	82.31	82.67	82.77	83.12	83.38	83.37	83.56	83.33
6	82.97	82.74	82.57	82.43	82.40	82.67	82.80	83.13	83.39	83.40	83.51	83.31
7	82.97	82.80	82.57	82.33	82.47	82.64	82.80	83.12	83.42	83.50	83.52	83.43
8	83.02	82.88	82.58	82.25	82.48	82.57	82.78	83.07	83.43	83.56	83.57	83.46
9	83.02	82.88	82.65	82.30	82.47	82.53	82.76	83.08	83.42	83.57	83.58	83.62
10	82.97	82.91	82.66	82.33	82.41	82.56	82.78	83.14	83.37	83.55	83.58	83.65
11	82.90	82.91	82.64	82.33	82.36	82.58	82.80	83.17	83.36	83.53	83.57	83.64
12	82.90	82.85	82.59	82.30	82.43	82.57	82.82	83.20	83.37	83.53	83.56	83.51
13	82.89	82.73	82.56	82.33	82.49	82.61	82.85	83.24	83.35	83.53	83.39	83.46
14	82.72	82.81	82.47	82.34	82.56	82.64	82.87	83.25	83.40	.....	83.30	83.46
15	82.76	82.80	82.50	82.38	82.59	82.64	82.88	83.24	83.42	83.50	83.35	83.60
16	82.85	82.74	82.52	82.47	82.59	82.62	82.90	83.23	83.43	83.48	83.55	83.69
17	82.85	82.71	82.51	82.50	82.54	82.59	82.91	83.23	83.43	83.48	83.70	83.69
18	82.78	82.70	82.46	82.50	82.48	82.60	82.91	83.22	83.41	83.49	83.72	83.45
19	82.73	82.60	82.58	82.41	82.47	.....	82.90	83.22	83.39	83.52	83.71	83.42
20	82.76	82.57	82.62	82.44	82.47	.....	82.91	83.22	83.38	83.52	83.70	83.29
21	82.93	82.56	82.62	82.44	82.46	.....	82.93	83.22	83.38	83.44	83.66	83.29
22	82.95	82.65	82.62	82.43	82.46	.....	82.98	83.22	83.37	83.46	83.60	83.41
23	82.91	82.70	82.53	82.54	82.45	.....	83.01	83.25	83.36	83.46	83.53	83.46
24	82.82	82.70	82.54	82.54	82.47	.....	82.99	83.26	83.37	83.54	83.48	83.48
25	82.85	82.68	82.57	82.47	82.47	82.77	82.98	83.25	83.35	83.56	83.48	83.48
26	82.86	82.58	82.58	82.45	82.47	82.75	83.00	83.24	83.34	83.56	83.52	83.52
27	82.81	82.53	82.57	82.44	82.50	82.72	83.00	83.23	83.37	83.55	83.54	83.59
28	82.78	82.53	82.37	82.44	82.50	82.74	82.97	83.19	83.46	83.39	83.55	83.59
29	82.86		82.26	82.42	82.52	82.77	82.98	83.21	83.48	83.43	83.56	83.35
30	82.93		82.36	83.32	82.55	82.75	83.02	83.22	83.47	83.43	83.57	83.17
31	82.93		82.40		82.59		83.03	83.22		83.43		83.16

e Estimated.

79:3-A. Memphis Light, Gas and Water Division. Fifth St. and Sycamore Ave.

Lat. 35°09'24", long. 90°02'33". Unused work shaft connected to artesian wells in sand of Claiborne group, diameter 30 inches, depth 98 feet. Land-surface datum is 229.7 feet above msl. Highest water level 19.09 below lsd Apr. 1, 1933; lowest 69.42 below lsd, Sept. 1, 2, 1951. Records available: 1927-32, 1936-51.

79:3-A--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.8	52.0	49.2	48.8	51.6	58.9	64.6	65.7	69.4	64.1	61.6	58.0
2	53.4	52.5	49.2	48.4	53.0	60.1	63.9	66.3	69.4	64.1	61.7	58.0
3	53.4	52.8	49.4	47.9	54.3	60.9	63.9	66.9	69.0	64.7	61.7	57.5
4	53.9	52.9	49.4	47.5	55.9	60.6	64.0	67.2	67.9	65.2	61.5	57.3
5	54.3	53.1	48.8	47.3	56.7	60.7	63.6	67.2	67.3	65.8	60.9	57.6
6	54.4	53.4	48.5	47.4	56.7	60.8	63.2	66.5	67.8	66.3	60.4	58.2
7	54.4	53.6	48.8	47.5	55.5	61.3	63.2	67.0	68.2	66.4	60.4	58.9
8	53.8	63.6	49.2	47.5	52.5	61.6	63.1	67.7	68.2	66.0	60.4	59.0
9	53.6	53.4	49.3	46.9	52.9	61.8	62.5	68.6	68.2	65.3	60.3	58.9
10	53.5	53.4	49.2	46.7	53.7	61.7	63.1	69.1	67.3	64.9	60.2	57.8
11	53.5	53.0	48.8	47.0	54.4	60.8	63.8	69.3	66.7	64.5	60.1	56.8
12	53.5	52.2	48.2	47.2	54.4	60.5	64.5	69.3	66.7	64.3	59.7	57.1
13	53.4	51.7	47.7	47.3	54.4	61.0	65.0	68.7	67.0	64.2	59.3	57.2
14	52.9	51.9	48.1	47.3	53.5	61.4	65.2	68.8	67.0	64.2	59.4	57.0
15	51.9	51.9	48.2	47.2	54.2	61.7	65.2	69.0	67.0	63.7	59.5	57.0
16	51.6	51.7	48.2	47.0	55.2	61.8	64.5	69.3	66.7	63.4	59.7	56.7
17	51.4	51.5	48.2	47.1	56.0	61.7	64.4	69.4	65.9	63.7	59.8	55.7
18	51.6	51.3	49.0	47.2	56.6	61.0	64.9	69.4	65.3	64.2	59.7	56.1
19	51.8	50.9	47.6	47.6	57.0	61.6	65.4	69.1	65.2	64.4	59.0	56.1
20	51.9	50.6	47.0	47.8	57.0	62.3	66.0	68.1	65.2	64.4	58.2	56.2
21	51.9	50.7	47.4	47.9	56.8	63.0	66.3	68.3	65.4	64.1	58.1	56.5
22	51.4	50.7	47.8	47.8	57.4	63.6	66.4	68.5	65.5	63.5	58.3	56.5
23	50.9	50.6	48.2	47.6	57.6	63.9	66.2	68.6	65.5	63.9	58.2	56.4
24	51.2	50.4	48.4	47.3	57.6	63.9	66.4	68.6	65.8	64.0	58.2	55.8
25	51.5	50.0	48.4	47.8	57.6	63.5	66.6	68.6	64.5	64.0	57.8	55.0
26	51.5	49.7	47.9	48.6	57.6	63.4	66.6	68.6	64.9	63.8	57.2	53.9
27	51.3	49.6	47.4	49.3	57.6	63.8	66.5	67.9	65.4	63.6	57.4	53.0
28	51.3	49.4	47.7	49.9	56.7	64.4	66.1	68.1	65.5	63.2	57.5	52.8
29	51.0		48.0	50.2	56.8	64.7	65.7	68.6	65.5	62.3	57.5	53.0
30	50.8		48.5	50.2	57.5	64.7	65.0	69.0	65.0	61.6	57.8	53.0
31	51.3		48.8		58.1		65.1	69.4		61.6		53.3

79:5-193. Memphis Light, Gas and Water Division. Central Ave. and Tanglewood St.

Lat. 35°07'36", long. 89°59'32". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, depth 488 feet. Land-surface datum is 286.7 feet above msl. Highest water level 58.65 below lsd, Apr. 3, 1933; lowest 106.60 below lsd, Aug. 10, 1951. Records available: 1928-51.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	98.1	98.5	96.7	95.9	96.7	101.1	103.3	105.2	106.3	104.8	102.6	100.7
2	h98.01	....	96.7	96.0	97.1	101.1	103.1	105.5	106.3	104.7	102.6	100.6
3	....	....	96.6	96.0	97.0	101.1	103.2	105.5	106.1	103.9	102.4	100.5
4	....	....	96.5	96.1	97.2	....	103.2	105.4	105.7	104.1	102.1	100.7
5	....	....	96.4	96.1	97.4	101.3	102.9	105.4	106.0	104.1	101.9	100.8
6	....	98.8	96.5	95.9	97.3	101.3	102.7	105.1	106.4	104.0	101.8	101.0
7	....	99.2	96.7	95.6	97.2	101.3	102.6	105.5	106.5	104.0	102.0	101.1
8	....	99.3	97.0	95.4	97.3	101.3	102.4	105.8	106.5	103.9	102.1	101.0
9	99.0	99.3	97.1	95.0	97.6	101.3	102.1	106.3	106.2	104.0	102.1	100.9
10	99.1	99.2	97.0	95.1	98.0	101.2	102.5	106.6	105.7	104.0	102.0	100.7
11	99.2	98.8	96.6	95.1	98.3	101.0	103.0	106.5	105.9	104.0	101.6	100.6
12	99.3	98.3	96.4	95.1	98.4	101.2	103.4	106.3	106.0	104.0	101.3	100.7
13	99.2	98.4	96.3	95.1	98.2	101.4	103.9	105.9	106.0	104.0	101.0	100.9
14	98.8	98.5	96.4	95.0	98.0	101.5	103.9	105.5	106.0	103.5	101.2	100.9
15	98.5	98.5	96.6	94.9	97.9	101.4	103.8	105.3	106.0	103.2	101.4	100.6
16	98.5	98.3	96.6	95.0	98.0	101.3	e103.65	105.2	105.7	103.3	101.7	100.6
17	98.6	98.0	96.4	95.1	98.3	101.3	103.9	105.1	105.3	103.5	101.7	100.3
18	98.6	97.5	96.2	95.1	98.4	101.3	104.2	104.6	105.4	103.7	101.6	100.5
19	98.7	96.8	96.2	95.0	98.6	103.0	104.5	104.2	105.4	103.8	101.3	100.5
20	98.7	97.0	96.4	95.1	98.6	102.2	104.6	103.6	105.5	103.6	101.3	100.4
21	98.5	97.2	96.6	95.1	98.8	102.2	104.7	103.7	105.6	103.4	101.4	100.5
22	98.4	97.6	96.6	95.0	99.3	102.1	104.7	104.0	105.4	103.1	101.4	100.5
23	98.4	97.6	96.5	95.2	100.3	102.2	104.8	104.0	105.2	103.3	101.3	100.2
24	98.6	97.6	96.5	95.4	100.7	102.2	105.0	104.0	104.9	103.6	101.3	99.9
25	98.8	97.3	96.4	95.7	100.6	102.2	105.2	103.9	105.1	103.8	101.0	99.3

79:5-193--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	98.8	96.8	96.2	96.0	100.6	102.6	105.4	103.9	105.6	103.8	100.6	98.4
27	98.7	96.8	96.2	96.1	100.5	103.0	105.4	104.2	105.9	103.8	100.7	98.0
28	98.5	96.8	96.2	96.0	100.2	103.3	105.1	104.8	105.9	103.2	100.7	97.6
29	98.2		96.2	96.0	100.5	103.3	.....	105.3	105.8	102.8	100.8	97.1
30	98.4		96.2	96.1	100.6	103.3	.....	105.9	105.2	102.5	100.8	97.2
31	98.3		96.1		101.0		104.8	106.3		102.5		97.5

e Estimated.

h Tape measurement.

79:7-17. Memphis Light, Gas and Water Division. North Parkway and North Garland St. Lat. 35°09'12", long. 90°00'41". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 522 feet, screen at 462-522. Land-surface datum is 249.9 feet above msl. Highest water level 59.9 below lsd, Dec. 26, 1940; lowest 106.5 below lsd, Aug. 10, 1951. Records available: 1940-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	87.6	89.6	84.7	86.5	92.2	98.9	98.7	102.8	106.0	99.7	96.2	95.0
2	87.4	90.0	87.8	84.7	93.0	.....	98.1	103.4	104.6	100.8	96.6	93.9
3	88.1	90.3	88.6	84.8	93.5	.....	98.9	103.7	101.3	101.2	96.6	93.8
4	89.3	92.2	88.6	84.8	94.1	95.0	97.6	104.4	101.6	101.4	95.5	93.0
5	89.4	93.1	85.4	84.0	94.4	94.7	97.5	102.4	103.3	102.0	94.7	94.4
6	89.4	93.7	87.3	83.8	93.7	96.4	97.6	102.3	104.1	101.9	.....	95.0
7	89.3	94.0	88.0	83.8	91.7	96.9	97.6	103.8	104.2	100.5	.....	95.0
8	87.9	94.0	87.5	83.2	91.6	96.8	95.5	105.3	103.5	98.6	95.4	93.7
9	87.4	93.4	87.5	82.9	92.0	97.2	98.3	106.1	103.2	97.9	94.6	93.4
10	88.4	91.6	87.3	83.6	94.6	95.5	100.0	106.5	101.0	98.0	96.0	92.2
11	88.5	88.0	85.9	84.3	95.7	94.8	100.9	106.2	101.3	99.7	94.6	92.7
12	88.6	85.9	83.9	84.3	95.1	95.0	102.5	104.5	102.3	99.3	93.4	92.9
13	88.6	87.5	84.6	84.0	93.5	94.5	103.6	101.8	102.8	100.0	94.6	93.1
14	87.0	87.7	85.1	84.7	93.4	95.1	103.2	102.7	101.9	98.6	93.3	94.1
15	86.5	87.4	85.1	84.4	94.9	95.1	101.9	102.7	.....	98.8	95.5	93.0
16	86.8	86.6	84.8	82.1	96.0	94.6	100.9	102.2	.....	.....	95.3	92.5
17	87.3	86.2	84.7	81.4	96.7	92.8	102.1	101.9	99.9	100.2	93.8	91.2
18	88.4	84.0	.....	81.5	98.0	93.8	103.2	101.2	100.8	101.0	93.6	92.4
19	88.8	84.0	83.3	83.8	98.4	95.3	103.8	.....	100.3	100.6	92.9	92.4
20	88.8	85.0	84.0	83.9	.....	95.4	104.2	99.2	101.4	99.0	93.7	92.2
21	88.2	86.4	85.2	84.5	97.3	97.1	104.4	100.4	101.4	.....	94.5	92.0
22	87.2	86.6	86.7	83.3	97.7	98.3	103.2	99.9	101.4	99.1	94.7	.....
23	88.0	86.7	88.3	83.8	96.9	98.2	103.4	99.5	99.7	99.8	95.7	.....
24	88.3	86.7	87.6	86.4	96.1	95.6	104.0	99.4	99.7	98.6	95.8	90.7
25	88.6	83.8	86.7	88.5	96.1	97.7	104.3	100.2	102.5	99.8	93.2	90.1
26	88.6	83.4	85.5	.....	95.4	101.0	104.0	98.9	102.9	99.0	91.9	88.5
27	88.0	83.1	85.8	90.8	94.4	102.0	102.9	99.5	102.5	98.9	91.5	86.6
28	87.8	84.0	85.1	91.2	99.0	102.7	102.3	101.2	102.0	.....	92.2	86.5
29	87.2		84.8	89.8	95.1	102.7	101.1	102.7	100.4	94.4	92.6	86.7
30	87.9		86.3	91.1	96.2	102.2	101.1	105.1	98.9	96.2	93.4	86.9
31	88.7		86.7		98.0		102.3	105.7		95.6		.....

79:7-26. Memphis Light, Gas and Water Division. North Parkway and North Dunlap St. Lat. 35°09'11", long. 90°01'49". Drilled unused artesian well in sand of Wilcox group, diameter 8 inches, depth 1,387 feet. Land-surface datum is 255.4 feet above msl. Highest water level 48.7 below lsd, Jan. 26, 1945; lowest 96.8 below lsd, June 26, 1951. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.9	70.8	88.4	71.4	69.0	95.8	77.5	84.6	85.1	79.2	76.8	77.0
2	69.8	70.8	87.7	71.6	70.3	94.7	78.0	85.2	81.4	79.2	77.0	75.2
3	69.8	70.8	87.6	71.6	71.1	82.1	78.5	85.5	e78.5	79.1	77.0	74.6
4	70.2	84.4	88.6	71.5	72.2	81.1	78.7	85.8	84.0	80.9	78.2	74.5
5	70.3	84.8	75.9	71.4	72.0	80.7	82.2	80.0	84.3	82.9	78.4	74.3
6	70.3	84.8	75.3	71.3	72.3	80.4	82.6	85.0	82.2	81.6	78.3	74.2
7	70.4	71.8	75.0	71.2	72.8	80.1	.....	85.9	82.3	81.9	78.3	74.2
8	70.3	71.1	74.6	71.2	72.4	80.0	.....	86.4	80.3	81.6	78.3	74.2
9	70.2	70.6	74.7	71.3	72.3	79.8	82.9	86.5	80.0	81.9	78.1	74.3
10	70.0	70.6	74.7	71.4	72.2	79.7	83.0	86.4	80.9	82.0	79.0	74.2

79:7-26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	70.1	....	74.8	71.5	72.2	79.6	83.2	86.4	80.3	81.5	79.0	74.0
12	70.0	74.3	74.8	71.6	72.3	90.3	83.4	82.2	83.1	81.2	78.9	73.7
13	69.8	74.6	74.8	71.8	72.5	90.9	83.8	85.8	83.3	81.1	78.7	73.6
14	69.4	85.5	75.0	71.8	72.6	90.6	81.0	86.1	80.8	81.0	75.7	73.6
15	69.2	85.9	75.1	71.9	72.7	91.4	....	86.0	80.7	80.3	75.2	73.8
16	69.2	86.4	75.1	72.0	72.5	91.2	81.2	82.9	80.7	80.4	77.7	73.8
17	69.0	....	75.0	71.9	72.4	90.8	82.5	82.2	80.3	79.8	78.1	78.1
18	68.6	....	75.1	71.8	77.7	94.9	82.8	80.6	80.4	79.4	78.3	78.7
19	68.6	86.7	75.1	71.9	78.2	94.9	83.3	78.8	80.4	80.6	78.1	77.3
20	69.1	86.8	75.1	71.9	78.8	....	83.4	82.1	80.5	79.4	75.6	77.1
21	69.4	86.8	74.9	71.1	81.0	....	83.3	82.4	80.6	79.3	75.2	....
22	69.4	86.8	74.9	70.8	82.2	....	83.4	80.0	80.7	79.4	75.1	74.2
23	69.6	87.0	74.7	70.8	80.1	....	84.6	78.3	....	....	75.0	76.4
24	69.9	87.5	71.7	70.0	80.2	....	84.9	78.4	81.4	90.3	75.2	77.7
25	70.1	87.8	71.1	69.3	81.3	94.2	84.3	79.0	81.5	89.7	75.1	77.7
26	70.1	87.9	71.0	69.1	80.8	96.8	81.7	78.0	80.9	89.3	76.8	77.4
27	70.1	88.0	70.8	69.0	81.1	83.0	78.3	82.4	80.5	89.2	77.0	77.3
28	70.4	88.4	70.7	68.7	93.9	82.2	79.6	83.3	78.3	77.6	77.1	76.7
29	70.5	....	71.1	68.6	94.3	78.7	....	83.8	78.1	77.2	77.1	76.0
30	70.5	....	71.3	68.6	94.3	77.9	83.5	84.4	77.8	76.9	77.1	76.1
31	70.4	....	71.3	....	94.0	....	84.3	84.9	....	76.4	....	76.5

e Estimated.

79:7-34. Memphis Light, Gas and Water Division. Leath and Dunlap Sts. Lat. 35°09'22", long. 90°01'51". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 472 feet. Land-surface datum is 256.7 feet above msl. Highest water level 82.9 below lsd, Mar. 18, 1946; lowest 127.5 below lsd, Aug. 14, 1951. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	93.9	100.1	96.9	98.2	100.8	120.8	112.5	123.0	127.4	109.8	110.1	104.1
2	96.4	100.3	97.8	95.2	101.9	120.8	114.0	124.3	119.9	111.3	110.7	100.4
3	98.0	100.6	97.8	95.3	105.7	113.7	115.8	124.6	108.4	111.9	110.3	99.2
4	99.6	103.9	95.4	95.2	106.8	110.1	115.6	124.4	121.4	114.7	107.4	100.1
5	99.6	104.7	93.9	96.2	106.6	110.0	113.3	112.4	121.7	119.5	108.4	100.4
6	99.0	105.4	95.9	97.0	102.8	111.6	113.3	122.1	120.4	118.6	109.4	100.9
7	97.7	103.6	96.2	96.9	102.8	111.6	112.6	124.6	120.4	118.6	108.4	101.4
8	97.3	103.0	96.9	95.1	102.2	110.9	108.8	125.8	115.1	114.8	107.4	101.1
9	98.0	102.7	96.7	94.9	108.3	111.0	115.8	126.8	112.5	115.1	107.1	98.6
10	97.9	101.4	95.4	96.0	109.9	106.7	118.0	127.2	113.0	113.8	107.0	99.3
11	97.4	98.8	92.4	96.7	110.7	107.6	118.8	126.7	111.6	112.6	106.7	100.0
12	97.4	99.4	93.8	95.4	104.6	110.1	122.1	112.8	116.9	112.9	106.5	100.5
13	97.0	101.0	95.1	94.9	100.0	....	122.1	126.0	116.8	113.0	106.5	100.5
14	92.6	101.2	95.7	94.5	107.2	....	118.9	127.5	113.0	112.9	103.6	100.1
15	94.6	98.6	95.9	94.0	109.7	....	110.9	127.4	112.2	111.6	106.0	98.9
16	95.2	97.3	95.7	95.1	110.9	....	116.3	123.8	109.8	113.0	107.6	98.3
17	97.5	97.3	95.5	96.2	111.7	....	119.3	123.7	110.4	113.9	107.4	103.6
18	98.3	97.5	94.7	96.7	113.5	115.8	120.2	123.1	110.7	114.5	106.2	104.8
19	98.6	97.9	92.2	97.6	113.4	116.5	121.0	111.3	109.4	116.3	99.4	102.5
20	98.4	98.2	94.7	97.7	109.9	118.6	123.5	123.9	110.8	114.9	100.4	102.2
21	94.2	98.4	97.2	97.6	113.9	121.0	123.5	125.6	110.9	113.0	101.6	99.9
22	95.4	98.1	96.9	96.8	114.8	121.7	123.1	120.4	110.7	113.8	101.6	99.8
23	97.7	98.1	97.5	96.4	110.8	121.6	123.8	117.7	108.8	115.3	101.2	98.4
24	96.5	97.5	97.4	96.4	108.7	115.4	124.5	121.4	107.2	115.2	101.2	97.6
25	96.9	97.6	96.0	97.8	108.2	117.7	124.5	121.6	109.1	111.9	97.0	96.5
26	95.7	h97.96	96.2	98.8	107.6	119.2	120.8	117.4	111.1	111.6	101.1	93.1
27	96.0	....	97.5	99.9	106.0	118.0	....	123.8	111.6	111.4	102.1	93.1
28	94.4	97.0	97.4	100.6	107.0	118.6	....	125.4	108.5	101.8	101.4	95.2
29	95.1	....	98.5	100.5	110.0	117.2	....	126.3	107.0	102.0	102.8	95.2
30	96.4	....	99.7	99.3	113.0	116.6	120.9	127.1	104.4	104.3	104.1	95.4
31	99.0	....	99.7	....	114.8	....	122.5	127.5	....	104.8	....	97.5

h Tape measurement.

79:8-56. Memphis Light, Gas and Water Division. Normal St. and Central Ave. Lat. 35°07'01", long. 89°56'02". Drilled unused artesian well in sand of Wilcox group, diameter 8 inches, depth 1,370 feet. Land-surface datum is 284.2 feet above msl. Highest water level 72.0 below lsd, June 7, 1946; lowest 114.6 below lsd, July 5, 1951. Records available: 1945-51.

79:8-56--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	105.7	107.2	108.0	107.6	108.6	110.6	112.1	112.3	112.3	112.8	109.3	102.6
2	105.7	107.3	105.6	107.8	108.7	110.5	112.0	112.3	112.6	112.5	109.7	102.2
3	105.9	.....	.....	107.8	108.5	110.6	113.9	112.8	112.8	112.3	107.8	101.8
4	106.4	.....	.....	107.7	108.5	111.2	114.4	113.2	112.9	112.5	106.9	102.5
5	106.6	.....	.....	107.5	108.7	111.3	114.6	113.1	113.0	112.7	106.8	102.5
6	106.7	106.7	h104.14	107.3	108.8	111.4	112.7	113.1	112.5	112.8	102.4	102.5
7	106.8	107.0	105.3	106.9	109.0	111.3	112.7	113.1	113.3	113.3	102.8	102.7
8	106.9	107.0	.....	106.7	109.1	111.3	112.5	113.0	113.4	113.4	102.8	102.8
9	106.8	107.1	.....	107.1	108.9	111.3	112.4	113.0	113.4	113.4	103.7	102.8
10	106.9	107.1	.....	107.2	108.8	111.2	112.3	113.2	113.2	113.4	102.9	102.8
11	107.0	107.1	.....	107.0	109.2	111.2	112.3	113.5	113.3	113.5	102.6	102.6
12	106.9	107.1	.....	107.3	.....	111.3	112.4	113.5	113.1	113.4	102.2	102.4
13	106.5	107.2	h108.00	107.4	.....	111.4	112.4	113.3	113.0	113.3	101.7	102.5
14	105.8	107.2	108.0	107.5	.....	111.4	112.4	112.2	113.1	113.2	101.1	102.7
15	105.7	106.8	106.0	107.4	109.6	111.2	112.4	111.5	113.2	113.1	101.1	102.8
16	105.7	107.0	.....	107.6	109.6	111.2	112.3	110.6	113.2	113.0	100.7	102.8
17	105.4	107.0	.....	107.7	109.5	111.0	112.2	110.0	113.2	112.9	100.9	102.8
18	105.2	106.8	.....	107.6	109.3	110.9	112.1	109.5	113.3	112.9	100.9	105.8
19	105.1	106.4	.....	107.5	109.4	110.9	112.0	108.9	113.4	112.9	101.0	106.2
20	105.7	106.7	104.6	107.6	109.5	110.8	112.8	108.4	113.4	113.0	102.7	106.5
21	106.0	107.2	106.8	107.6	109.6	110.7	112.5	108.0	113.2	113.0	103.1	107.0
22	105.9	107.3	107.0	107.8	109.7	111.2	111.9	107.8	.....	112.9	103.2	107.1
23	103.7	107.4	107.4	108.8	109.4	111.4	112.2	107.7	.....	112.9	103.0	107.2
24	103.8	107.4	.....	108.7	109.4	111.5	111.8	107.7	.....	113.2	102.1	107.2
25	106.0	107.5	.....	108.8	109.5	111.5	112.3	108.4	112.6	113.3	101.9	106.5
26	106.4	107.5	.....	108.9	110.1	111.4	112.4	109.1	112.8	113.3	102.5	105.3
27	106.5	107.6	107.1	e108.9G	110.4	112.1	112.4	109.7	112.8	113.2	102.7	104.6
28	106.8	107.7	106.9	108.8	110.6	112.4	112.3	111.6	112.9	112.8	102.8	103.8
29	107.0	.....	107.8	108.7	110.1	112.4	112.3	112.2	113.0	112.8	102.7	103.2
30	107.0	.....	107.9	108.8	110.0	112.3	112.4	113.1	113.0	112.7	102.6	103.6
31	106.9	.....	107.9	.....	110.4	.....	112.2	113.4	.....	111.2	.....	103.8

h Tape measurement. e Estimated.

79:8-73. Memphis Light, Gas and Water Division. Normal St. and Central Ave.

Lat. 35°07'27", long. 89°55'56". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 499 feet, screen at 438-499. Land-surface datum is about 302.7 feet above msl. Highest water level 95.8 below lsd, Mar. 8, 1946; lowest 138.4 below lsd, Mar. 15, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	116.8	116.8	118.8	117.3	114.8	123.5	125.0	126.2	126.7	125.7	122.0	121.4
2	116.1	117.1	118.8	117.4	114.9	123.9	125.0	126.2	126.8	125.6	121.6	121.3
3	116.2	.....	118.9	117.7	114.9	124.0	124.9	126.2	126.8	125.6	121.5	121.6
4	116.5	.....	119.0	117.7	114.8	123.9	123.6	126.2	126.6	125.4	121.2	118.8
5	116.5	.....	119.0	117.8	115.0	123.9	124.3	126.3	126.8	125.4	121.8	120.4
6	116.5	116.5	118.6	117.8	115.0	123.8	124.7	126.2	126.7	125.5	121.7	120.6
7	116.7	117.0	118.5	117.6	115.1	123.8	124.8	126.1	126.9	125.8	122.6	120.3
8	116.7	117.7	118.7	117.7	115.2	123.8	124.8	126.2	126.9	125.9	122.8	120.4
9	h116.54	117.7	117.3	117.8	115.0	123.9	124.7	126.4	126.1	125.8	122.3	120.7
10	116.6	117.0	116.4	118.0	114.9	123.9	125.0	126.5	125.8	125.8	122.0	121.5
11	116.6	116.8	116.3	117.9	115.1	123.9	125.0	126.6	125.9	125.7	122.0	121.2
12	116.6	117.1	117.0	118.4	115.1	123.9	125.1	126.7	125.7	125.7	121.9	121.4
13	116.5	118.7	117.0	117.4	115.1	124.0	125.2	126.6	125.9	125.6	121.9	122.0
14	116.2	119.0	118.9	117.3	115.1	124.0	125.3	126.4	125.9	125.6	122.0	122.2
15	116.2	119.0	119.0	117.3	115.3	124.1	125.3	126.3	125.9	125.5	122.0	122.4
16	116.4	118.7	.....	117.3	115.3	124.1	125.2	126.1	125.7	125.4	122.4	122.0
17	116.3	118.7	119.0	115.8	115.4	124.0	125.3	126.2	125.7	125.5	122.5	120.0
18	116.1	118.5	119.4	115.0	115.2	124.1	125.4	126.0	125.6	125.5	122.3	119.4
19	116.0	118.3	119.9	114.8	115.2	124.2	125.4	125.9	125.3	125.9	.....	119.5
20	.....	118.6	h119.04	114.8	115.3	124.2	126.0	125.6	125.4	125.9	121.2	119.3
21	.....	118.9	119.2	114.8	115.3	124.3	126.3	125.5	125.3	.....	121.3	119.5
22	.....	119.1	117.3	114.7	120.4	124.3	126.4	125.6	125.3	.....	121.1	117.8
23	h116.47	119.1	116.8	114.8	122.3	124.3	126.6	125.7	125.4	125.5	121.0	117.7
24	116.8	118.8	116.0	114.8	122.5	124.4	126.6	125.8	125.2	125.7	121.1	119.0
25	116.9	118.6	115.9	114.7	122.6	124.5	126.1	125.7	125.2	125.7	121.1	118.4

79:8-73--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	116.7	118.4	117.6	115.3	122.4	124.6	126.5	125.8	125.4	125.6	121.1	118.8
27	116.3	118.3	117.7	115.6	122.4	124.8	126.6	125.8	125.8	124.1	121.2	118.7
28	116.4	118.2	117.4	115.1	122.9	124.8	126.5	126.1	126.0	123.8	121.4	119.5
29	116.5		117.4	114.9	123.1	125.0	126.5	126.5	126.0	123.8	121.5	119.5
30	116.6		117.4	114.8	123.1	125.0	126.5	127.0	125.9	124.1	121.5	119.3
31	116.4		117.5		122.9		126.0	127.1		124.3		120.0

h Tape measurement.

79:8-86S. Memphis Light, Gas and Water Division. Willow Rd. and Getwell St.

Lat. 35°05'15", long. 89°55'36". Drilled observation water-table well in terrace deposits, diameter 6 inches, depth 91 feet. Land-surface datum is about 260 feet above msl. Highest water level 21.28 below lsd, Apr. 2, 1950; lowest 32.01 below lsd, Dec. 23, 1951. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.01	.....	27.06	28.18	.....	29.04	30.01	30.20	30.88	31.40
2	26.92	26.47	27.09	28.28	28.18	29.28	30.00	30.32	30.87	31.40
3	26.97	26.47	26.99	28.04	27.95	29.14	30.05	30.47	30.86	31.37
4	27.11	26.48	27.01	27.53	28.21	29.18	.....	30.56	30.95	31.53
5	h27.15	26.78	26.46	27.05	27.53	.....	29.15	.....	.....	30.83	31.47
6	26.83	26.32	27.39	27.32	.....	29.06	30.04	.....	30.99	31.66
7	26.65	26.32	27.00	27.45	.....	29.15	.....	.....	31.03	31.83
8	26.72	.....	27.10	27.69	.....	29.25	.....	30.45	31.05	31.76
9	h27.45	.....	26.78	26.31	27.14	27.76	h28.02	29.36	30.20	30.50	31.01	31.86
10	26.62	26.39	27.26	27.58	.....	29.47	30.16	30.51	31.02	31.61
11	26.51	26.43	27.41	27.43	.....	29.47	30.15	30.53	31.03	31.45
12	h26.94	26.72	26.39	27.50	27.59	.....	29.48	30.18	30.59	30.93	31.66
13	27.46	26.49	26.36	27.53	27.72	.....	29.31	30.28	30.61	31.08	31.88
14	27.53	26.65	26.56	27.52	27.78	.....	29.40	30.23	30.75	31.24	31.83
15	27.39	26.71	26.59	27.60	27.79	.....	29.43	30.17	30.60	.....	31.98
16	27.23	.....	26.57	27.54	27.80	28.49	29.53	30.12	30.52	31.47	31.77
17	h27.14	27.23	.....	26.65	27.58	27.26	28.79	29.50	30.25	30.60	31.46	31.41
18	27.23	.....	26.79	27.69	27.38	28.87	29.65	30.17	30.59	31.33	31.67
19	h26.93	h26.35	26.82	27.75	.....	28.91	29.36	30.24	30.65	31.29	31.67
20	26.85	27.79	.....	28.78	29.44	30.24	30.50	31.29	31.58
21	26.94	27.88	.....	28.84	29.62	30.31	.....	31.29	32.00
22	h27.04	.....	.....	.....	28.04	.....	28.92	29.64	30.61	30.62	31.29	31.97
23	26.77	e28.01	.....	29.02	29.57	30.32	30.73	31.30	32.01
24	26.76	27.51	.....	28.88	29.53	30.20	30.79	31.32	31.67
25	26.77	27.62	28.11	28.91	29.81	30.27	30.67	31.19	31.66
26	26.83	h26.27	26.77	27.51	28.11	28.92	29.77	30.39	30.87	31.35	32.00
27	26.94	.....	26.77	27.49	28.25	29.02	29.58	30.50	30.57	31.42	31.79
28	26.86	.....	26.68	27.60	28.45	28.84	29.71	30.54	30.71	31.49	31.47
29	27.87	28.02	28.87	29.95	.....	30.61	31.41	31.39
30	26.75	27.95	.....	28.93	29.81	.....	30.70	31.42	31.55
31	27.86	.....	29.01	29.82	.....	30.82	.....	31.67

h Tape measurement.

e Estimated.

79:9-107. Memphis Light, Gas and Water Division. Woodland Ave. and Marjorie St.

Lat. 35°05'49", long. 90°01'55". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 338 feet, screen at 328-338. Land-surface datum is 256.2 feet above msl. Highest water level 59.40 below lsd, Feb. 27, 1950; lowest 79.02 below lsd, Nov. 16, 1950. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	66.13	65.17	63.12	64.42	68.86	.....	.....	75.11	70.96	.....	68.96
2	.....	66.34	65.20	e62.80	64.46	68.80	h68.35	.....	73.37	71.44	.....	68.84
3	.....	66.34	65.10	.....	64.88	67.67	.....	.....	72.26	71.76	.....	67.78
4	.....	65.95	63.80	.....	65.06	67.84	.....	.....	74.86	72.27	.....	68.80
5	.....	65.29	63.28	.....	65.06	69.05	h67.83	.....	75.55	72.51	h68.70	69.10
6	68.32	65.87	63.78	.....	64.62	68.90	.....	73.94	76.40	72.51	.....	69.37
7	67.67	66.40	64.00	.....	65.75	68.67	.....	75.10	.....	72.27	.....	69.75
8	h67.15	66.51	64.37	.....	65.73	68.89	.....	e74.26	.....	72.25	.....	69.75
9	67.35	66.66	64.48	62.29	66.37	68.72	h66.84	.....	.....	72.34	.....	69.12
10	67.73	66.68	64.46	63.04	66.74	68.00	.....	.....	73.95	72.44	.....	68.18

79:9-107--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	68.12	65.50	63.22	63.34	66.89	68.44	.....	.....	73.31	72.57	.....	68.42
12	67.74	64.98	62.80	63.31	66.88	69.32	.....	.....	75.51	72.48	.....	68.86
13	67.63	65.72	63.40	63.31	66.04	69.06	.....	h72.06	.....	72.27	.....	68.94
14	66.49	65.99	63.76	63.20	65.30	88.72	.....	.....	.....	71.67	.....	68.74
15	66.00	65.97	64.00	62.07	65.83	.....	.....	.....	.....	70.77	.....	68.73
16	67.03	85.92	64.05	61.92	66.18	.....	69.92	.....	.....	71.38	h69.93	68.42
17	68.09	66.09	64.01	62.44	68.94	.....	70.32	.....	73.26	71.76	69.83	67.02
18	68.99	65.39	62.74	62.73	71.30	.....	71.04	.....	74.75	72.13	69.09	.....
19	70.17	64.48	h62.18	62.90	72.03	.....	71.62	.....	73.62	72.32	68.40	.....
20	70.38	65.15	.....	63.13	72.02	.....	73.80	h71.86	73.21	72.30	68.90	.....
21	69.21	65.40	.....	63.13	72.68	.....	72.07	.....	73.21	71.70	69.14	h87.41
22	h65.78	65.75	e64.28	62.10	73.12	.....	71.56	.....	73.08	70.45	69.14	.....
23	.....	65.87	64.32	61.88	71.68	.....	72.44	.....	72.50	.....	68.04	.....
24	.....	65.61	64.30	62.53	.....	.....	72.52	.....	72.10	.....	67.64	.....
25	.....	64.83	61.28	62.96	.....	.....	73.36	.....	72.02	.....	67.46	.....
26	.....	64.10	62.84	83.46	.....	.....	73.50	.....	73.09	.....	67.43	.....
27	.....	64.60	62.46	63.44	.....	.....	73.00	h71.44	73.02	.....	68.06	66.02
28	.....	64.79	63.96	63.36	66.86	.....	72.60	.....	72.99	.....	69.62	66.02
29	h65.12	.....	64.18	62.96	67.60	h68.48	71.34	.....	72.98	h70.55	70.26	65.92
30	65.92	.....	64.24	63.49	68.19	.....	73.75	75.43	72.07	.....	69.27	65.42
31	65.92	.....	64.24	.....	68.63	.....	76.06	77.14	.....	.....	.....	64.60

e Estimated.

h Tape measurement.

79:9-110. Memphis Light, Gas and Water Division. Dunn Ave. and Mississippi Blvd.
 Lat. 35°05'34", long. 90°01'34". Drilled observation artesian well in sand of Claiborne group,
 diameter 4 inches, depth 330 feet, screen at 321-330. Land-surface datum is 246.6 feet above
 msl. Highest water level 46.30 below lsd, Feb. 20, 1950; lowest 62.7 below lsd, Dec. 6, 1950.
 Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	52.34	51.62	50.47	49.16	50.08	53.35	54.37	.....	59.34	56.31	55.82	57.65
2	.....	51.71	50.49	48.84	50.34	53.35	55.72	.....	58.27	56.40	55.83	55.55
3	52.59	51.71	50.46	49.14	50.54	52.89	54.54	.....	57.50	56.60	55.84	54.97
4	52.95	.....	49.86	49.30	50.70	52.46	53.78	58.25	59.61	56.92	55.59	57.63
5	53.13	50.84	49.22	49.32	50.76	.....	53.63	57.48	58.53	57.08	54.89	57.95
6	53.13	51.21	49.53	49.32	.....	.....	53.32	59.28	60.28	57.08	54.88	55.87
7	52.94	51.64	49.70	49.10	51.05	.....	53.15	60.32	60.41	56.89	55.09	57.48
8	52.35	51.78	49.96	48.63	.....	.....	52.97	59.58	59.52	56.77	55.24	56.18
9	52.57	51.91	50.05	48.34	.....	.....	53.10	58.27	58.30	56.87	55.31	54.39
10	52.75	51.93	50.04	48.76	.....	.....	53.60	60.08	58.26	56.97	55.32	56.33
11	52.91	51.38	49.48	48.94	.....	h52.34	53.99	58.79	57.92	57.03	55.16	.....
12	52.91	50.77	48.91	48.92	.....	.....	58.47	58.26	59.59	57.03	54.50	.....
13	52.90	51.24	48.22	48.82	.....	.....	59.50	59.16	59.80	57.01	54.21	.....
14	52.09	51.47	49.44	48.76	50.81	.....	e56.97	80.33	60.27	56.69	54.49	.....
15	51.64	51.47	49.60	48.26	51.06	.....	e56.50	61.22	59.20	56.06	54.68	.....
16	52.03	51.47	49.61	47.92	.....	.....	56.59	59.26	58.21	56.24	55.05	.....
17	52.35	51.48	49.57	48.22	52.06	.....	55.22	60.74	58.05	56.51	55.08	57.37
18	52.76	51.14	48.87	48.40	53.47	h54.60	56.88	58.94	58.97	56.77	54.72	58.05
19	53.18	50.40	48.74	48.52	54.14	.....	57.63	58.10	58.21	56.85	54.07	56.06
20	53.29	50.70	49.24	48.66	54.22	.....	59.32	60.22	57.78	56.85	54.34	56.25
21	53.17	50.92	49.64	48.66	54.76	.....	e58.06	60.75	57.77	56.54	54.50	57.41
22	52.09	51.10	49.76	48.16	55.09	.....	e57.93	61.58	57.72	55.92	54.51	53.90
23	51.89	51.20	49.83	47.84	54.19	.....	57.52	61.51	57.34	56.41	54.00	53.26
24	52.44	51.13	49.83	48.18	53.72	.....	58.15	62.10	58.22	56.72	53.67	52.57
25	53.03	50.62	49.42	48.57	53.48	53.82	58.82	59.20	56.87	56.89	53.41	51.95
28	52.89	49.89	48.84	49.09	53.33	54.29	59.34	57.55	59.61	56.99	53.20	53.73
27	52.48	50.15	49.10	49.27	52.82	54.62	57.91	61.07	57.98	56.99	53.59	51.92
28	52.05	50.27	49.37	49.23	52.22	54.87	57.12	58.29	57.67	56.45	54.08	51.92
29	51.34	.....	49.60	48.84	52.50	54.98	56.35	61.64	57.67	55.95	54.40	51.74
30	51.50	.....	49.66	49.67	52.84	54.90	57.88	60.76	57.11	55.82	56.42	51.40
31	51.50	.....	49.66	.....	53.20	.....	e61.20	61.68	.....	55.82	.....	e50.85

e Estimated.

h Tape measurement.

79:9-115. Memphis Light, Gas and Water Division. Mallory Ave. and Bellevue Blvd. Lat. 35°05'10", long. 90°01'08". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 310 feet, screen at 300-310. Land-surface datum is 253.1 feet above msl. Highest water level 50.90 below lsd, Feb. 20, 1950; lowest 73.40 below lsd, Aug. 15, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.22	55.48	55.24	53.14	54.20	56.69	.....	.....	.....	60.05	.....	58.68
2	55.78	55.51	55.26	52.78	54.41	56.70	h57.54	.....	.....	.....	.....	58.01
3	56.05	55.51	55.24	52.99	54.58	56.48	.....	.....	h60.85	.....	.....	57.49
4	56.55	55.31	54.89	53.15	54.74	56.14	.....	.....	.....	.....	.....	58.67
5	56.67	54.91	53.39	53.19	54.86	.....	.....	.....	.....	.....	h58.59	58.99
6	56.67	54.87	53.48	53.18	54.79	.....	.....	h60.13	.....	60.40	58.59	58.39
7	56.60	55.36	53.60	53.06	54.65	.....	.....	.....	.....	60.30	58.76	59.01
8	56.25	55.48	53.84	52.76	.....	.....	.....	71.47	.....	60.20	58.87	59.02
9	56.27	55.60	53.92	52.49	.....	.....	56.72	61.37	.....	e60.28	58.93	58.10
10	56.40	55.82	53.90	52.80	.....	.....	57.08	72.10	h60.79	60.36	58.93	58.19
11	56.55	55.29	53.54	52.92	.....	h56.07	57.44	61.84	.....	60.40	58.83	57.68
12	56.57	54.74	53.14	52.90	.....	.....	.....	61.34	.....	60.41	58.33	59.03
13	56.54	55.07	53.16	52.78	.....	.....	.....	71.11	.....	60.26	57.94	59.20
14	55.81	55.28	53.34	52.72	54.62	.....	.....	72.42	.....	59.88	58.16	.....
15	55.62	55.30	53.46	52.43	54.74	.....	.....	73.40	.....	59.63	58.30	.....
16	55.80	55.30	53.50	52.09	54.80	.....	58.61	.....	.....	.....	58.73	.....
17	55.96	55.30	53.44	52.26	55.22	.....	.....	.....	69.16	.....	58.75	58.36
18	56.14	55.10	52.98	52.39	56.10	65.25	.....	.....	69.90	.....	58.57	59.00
19	56.34	54.58	52.74	52.50	56.70	61.27	.....	.....	.....	.....	58.10	58.37
20	56.50	54.56	53.13	52.60	56.84	58.34	.....	h60.43	.....	.....	.....	.....
21	56.49	54.75	53.47	52.62	57.22	57.94	.....	.....	61.11	.....	58.22	58.46
22	55.97	54.87	53.54	52.30	57.53	57.90	.....	.....	61.04	h59.42	58.28	57.70
23	55.67	54.95	53.64	52.08	57.24	57.92	59.47	.....	e60.77	.....	58.05	57.20
24	55.92	54.90	53.66	52.21	56.94	57.83	.....	.....	60.25	.....	57.64	56.63
25	56.25	54.53	53.44	52.57	56.82	h57.32	.....	.....	.....	.....	57.46	56.10
26	56.26	54.86	53.02	53.02	56.67	.....	.....	.....	.....	.....	57.19	56.02
27	56.13	54.98	52.97	53.20	56.30	.....	.....	h60.03	.....	.....	57.44	55.94
28	55.87	55.10	53.22	53.13	55.87	.....	60.28	.....	.....	h59.47	57.74	55.95
29	55.34	.....	53.38	53.09	55.97	.....	59.65	.....	.....	.....	57.98	55.77
30	55.39	.....	53.45	53.99	56.22	.....	59.20	.....	.....	.....	58.58	55.51
31	55.38	.....	53.45	.....	56.52	.....	.....	63.37	.....	.....	.....	55.10

e Estimated.

h Tape measurement.

79:9-131. Memphis Light, Gas and Water Division. Rutgers Ave. and Vassar St. Lat. 35°04'47", long. 90°01'47". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 312 feet, screen at 292-312. Land-surface datum is 272.5 feet above msl. Highest water level 71.91 below lsd, Feb. 20, 1950; lowest 90.51 below lsd, Dec. 7, 1950. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	78.85	.....	.....	.....	80.37	85.82	87.03	83.39	83.68	82.07
2	.....	.....	78.92	76.14	.....	.....	80.24	86.57	84.40	83.92	83.89	81.83
3	.....	.....	77.70	76.80	.....	.....	79.91	86.57	e83.28	84.18	83.90	80.77
4	.....	.....	75.90	77.02	.....	80.02	79.62	85.96	85.25	84.72	83.25	81.81
5	.....	78.54	76.78	77.06	.....	.....	79.26	84.66	86.09	84.99	81.27	82.12
6	81.26	78.92	77.40	76.90	.....	.....	78.98	85.96	88.25	84.88	82.88	82.43
7	80.25	.....	77.27	76.52	77.55	.....	78.72	.....	88.28	84.25	83.00	82.68
8	80.11	.....	.....	75.21	.....	.....	78.40	86.43	87.77	84.35	83.40	82.68
9	80.72	.....	.....	h74.37	.....	.....	h78.28	85.43	84.62	84.65	83.46	81.82
10	.....	.....	.....	.....	.....	79.70	.....	86.43	85.35	84.96	83.40	81.41
11	.....	.....	.....	.....	.....	78.43	.....	85.88	85.79	.....	82.57	81.73
12	.....	h77.58	76.22	.....	.....	.....	.....	84.94	87.48	.....	81.52	81.92
13	.....	.....	.....	.....	80.25	.....	.....	84.70	87.64	.....	82.08	82.04
14	.....	.....	.....	.....	h77.27	.....	.....	86.54	88.08	.....	82.36	82.00
15	79.49	.....	.....	.....	.....	.....	.....	87.62	87.04	83.16	82.65	81.99
16	80.27	.....	.....	75.19	.....	.....	82.05	86.86	e85.27	83.94	82.95	81.51
17	80.60	.....	.....	75.75	.....	.....	82.44	86.04	85.03	84.45	82.92	80.40
18	80.80	.....	.....	76.10	.....	83.00	83.34	.....	86.75	84.73	81.44	81.20
19	81.35	77.71	76.25	76.14	.....	82.47	83.98	.....	86.16	84.85	81.50	81.23
20	81.54	78.50	76.90	76.32	.....	82.30	84.90	84.92	85.92	.....	82.18	81.02

79:9-131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	80.40	78.76	77.50	76.32	84.23	82.13	84.21	85.96	85.70	.....	82.53	81.37
22	79.20	79.35	77.78	74.53	84.72	82.15	83.43	86.38	85.43	83.34	82.34	81.20
23	79.79	79.36	77.72	74.92	.....	82.15	83.72	.....	84.70	84.29	80.20	80.07
24	80.22	78.94	77.49	.....	.....	81.53	84.70	.....	84.23	84.69	79.87	78.63
25	81.02	77.71	76.88	.....	.....	81.02	85.59	.....	84.63	84.94	79.60	77.88
26	80.96	h76.80	75.90	.....	.....	81.88	86.10	.....	86.22	85.10	80.47	79.05
27	80.47	78.00	76.81	.....	.....	82.22	85.22	85.03	85.56	84.95	81.27	79.57
28	79.43	78.27	.....	74.60	h78.49	82.66	84.72	85.28	85.50	83.70	81.76	79.72
29	78.82	.....	.....	.....	.....	82.50	82.91	86.95	85.21	83.02	82.35	79.68
30	79.39	.....	.....	h76.83	.....	82.18	84.22	86.74	.....	83.64	82.25	78.74
31	.....	.....	.....	.....	.....	.....	85.84	87.50	.....	83.70	.....	77.46

e Estimated.

h Tape measurement.

79:9-135. Memphis Light, Gas and Water Division. Alcy Rd. and Benton St.

Lat. 35°04'32", long. 90°01'47". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 265 feet, screen at 255-265. Land-surface datum is 234.5 feet above msl. Highest water level 32.25 below lsd, Feb. 20, 1950; lowest 48.26 below lsd, Dec. 7, 1950. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.40	.....	38.20	35.94	36.55	40.38	.....	44.53	45.98	42.88	43.10	.....
2	.....	.....	38.20	35.76	36.74	40.34	h39.55	45.00	44.18	43.29	43.24	.....
3	.....	.....	37.30	36.30	37.10	38.99	.....	45.04	43.17	43:53	43.26	40.34
4	.....	.....	35.95	36.52	37.18	39.40	.....	44.80	44.27	43.95	42.78	41.18
5	.....	h37.66	36.47	36.54	37.18	40.61	.....	43.96	45.02	44.18	41.76	41.51
6	.....	.....	36.99	36.53	36.67	40.48	38.92	44.51	46.23	44.17	42.32	41.77
7	.....	.....	37.13	36.33	36.94	40.32	38.60	45.58	46.49	43.67	42.47	41.99
8	39.68	.....	37.38	35.33	38.01	40.38	38.46	45.40	e46.40	43.64	42.74	41.98
9	40.18	.....	37.56	35.38	38.66	40.37	39.61	44.94	.....	.....	42.84	41.36
10	40.34	.....	37.54	36.02	39.07	39.47	40.22	45.00	h42.95	.....	.....	40.94
11	40.46	.....	36.20	36.45	39.09	39.87	40.59	44.91	44.92	.....	.....	41.24
12	40.46	37.80	35.96	36.45	39.07	41.05	42.07	44.24	45.88	.....	.....	41.50
13	40.37	38.46	36.58	36.33	38.10	40.93	42.10	43.94	45.98	.....	.....	.....
14	.....	38.80	36.93	36.29	37.44	40.46	42.11	45.10	46.32	.....	.....	.....
15	39.12	38.80	37.08	35.31	37.89	40.67	41.51	45.94	46.08	42.72	.....	.....
16	39.78	38.74	37.13	34.94	38.22	41.27	41.40	45.80	.....	43.35	42.38	.....
17	39.97	.....	37.00	35.38	38.69	41.50	41.72	45.79	44.20	43.72	42.38	40.04
18	40.12	.....	35.44	35.65	40.25	41.99	42.38	45.70	45.27	43.99	41.37	40.69
19	40.52	37.42	35.84	35.72	41.15	41.74	42.90	44.72	45.19	44.13	40.53	40.72
20	40.66	38.07	36.44	35.92	41.23	41.58	43.41	44.12	45.02	44.10	41.35	40.72
21	.....	38.27	36.98	35.93	42.12	41.58	43.35	44.90	44.94	.....	41.36	40.86
22	38.84	38.61	37.24	34.94	42.61	41.65	42.71	45.21	44.66	42.84	41.36	40.86
23	39.35	38.75	37.24	34.76	41.96	41.60	42.68	45.18	44.11	43.60	40.42	40.20
24	39.63	38.29	37.24	35.52	40.93	41.05	43.39	45.66	43.50	43.94	39.98	39.18
25	40.19	37.18	36.24	35.94	40.55	40.46	43.98	45.59	43.87	44.18	.....	38.40
26	40.19	37.10	35.64	36.64	40.22	41.10	44.50	43.60	44.82	.....	h39.34	38.56
27	39.98	37.59	36.36	36.82	39.16	41.41	44.47	44.03	44.80	.....	.....	39.40
28	39.20	38.04	36.76	36.94	38.61	41.79	44.04	44.47	44.63	.....	.....	39.40
29	h38.00	.....	37.08	36.27	39.28	41.78	42.88	45.44	.....	42.64	.....	39.34
30	39.31	.....	37.17	36.15	39.78	.....	43.18	45.53	.....	43.04	.....	38.78
31	.....	.....	37.14	.....	40.18	.....	44.45	46.06	.....	43.06	.....	37.81

e Estimated.

h Tape measurement.

79:11-1. Forest Products Chemical Co. Chelsea Ave. and Fairfax St. Lat. 35°10'24", long. 89°58'02". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 440 feet. Land-surface datum is about 245 feet above msl. Highest water level 52.5 below lsd, Oct. 21, 1946; lowest 86.4 below lsd, Aug. 26, 1949. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.2	78.0	76.5	76.5	76.0	76.0	80.6	83.9	84.6	84.9	84.0	81.9
2	77.1	78.7	76.6	76.1	76.0	75.8	78.1	83.5	.....	84.6	84.0	81.5
3	76.1	78.8	76.3	76.3	76.3	76.0	80.6	83.3	81.2	84.8	83.2	81.6
4	77.7	78.6	76.4	76.1	76.2	.....	80.3	83.0	82.9	85.1	82.4	81.6
5	79.0	78.5	76.7	75.3	75.1	78.4	.....	81.5	83.9	85.5	.....	81.9

79:11-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	79.1	78.5	76.3	75.2	75.5	78.7	....	84.3	85.0	84.5	82.9	81.6
7	....	78.9	75.2	74.2	75.5	77.9	....	84.2	84.2	83.8	83.2	81.0
8	....	78.5	76.0	75.2	76.8	79.7	....	84.3	83.0	84.9	83.2	80.9
9	h77.88	78.6	76.9	74.7	77.0	78.4	....	85.4	81.6	85.5	83.3	80.6
10	79.8	78.8	76.6	74.2	77.0	76.2	79.4	85.3	84.2	85.6	82.2	81.6
11	80.0	78.6	76.1	74.3	77.6	75.7	80.2	85.8	84.8	85.4	80.7	80.2
12	80.1	77.3	76.8	74.9	76.5	h75.33	80.5	84.7	84.7	85.2	80.5	81.9
13	79.0	77.2	76.7	75.6	74.7	....	80.7	83.8	84.6	84.7	82.1	81.0
14	79.3	77.1	77.2	74.3	74.3	....	79.6	82.0	85.2	82.9	82.7	79.9
15	78.2	78.2	77.3	74.2	73.9	....	78.8	82.1	84.0	82.7	82.6	80.0
16	77.9	77.7	76.5	73.7	74.0	....	....	81.4	81.4	84.1	81.8	81.6
17	78.6	76.5	75.6	74.1	73.5	....	79.5	81.6	83.8	84.0	81.5	e80.9
18	78.5	75.7	75.4	73.6	73.6	....	80.3	81.6	84.0	83.5	81.5	h78.80
19	78.9	75.1	75.5	74.9	73.5	80.1	80.5	80.6	85.0	84.3	81.9	81.0
20	77.6	76.0	74.7	75.1	73.6	80.0	80.6	80.6	85.0	84.4	81.9	81.1
21	....	75.9	75.6	74.4	76.1	78.8	79.9	80.3	85.1	84.3	82.7	81.7
22	....	76.4	75.6	73.2	77.5	....	80.2	81.0	85.6	84.4	81.4	80.4
23	h76.84	76.0	75.6	74.2	76.9	....	82.1	80.1	83.3	84.4	81.2	81.4
24	77.4	76.8	74.9	74.6	78.1	....	82.6	80.7	83.5	84.9	82.0	79.6
25	78.5	77.1	74.5	74.7	77.5	....	83.6	82.4	84.8	85.0	80.3	77.5
26	....	76.3	75.1	74.3	77.4	h79.93	84.1	81.3	84.8	85.1	81.5	75.7
27	....	76.4	75.5	75.7	75.6	80.8	84.4	83.1	86.0	83.1	80.7	75.5
28	....	76.1	76.0	75.0	75.6	81.2	82.8	83.7	85.2	81.8	81.8	75.2
29	....	....	76.0	75.1	75.1	81.6	81.9	84.8	85.3	83.3	82.1	76.8
30	78.1	....	77.0	75.7	75.3	81.8	83.9	85.4	83.9	82.6	81.7	78.0
31	78.4	....	75.5	....	75.6	....	83.5	86.2	....	83.8	....	78.2

e Estimated. h Tape measurement.

79:12-1. Cudahy Packing Co. Chelsea Ave. and Carpenter St. Lat. 35°10'35", long. 89°57'55". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 438 feet. Land-surface datum is about 240 feet above msl. Highest water level 52.76 below lsd, Apr. 10, 1944; lowest 81.20 below lsd, Oct. 24, 1950. Records available: 1944, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7, 1944	57.58	Mar. 20, 1944	57.13	Apr. 17, 1944	56.35	May 8, 1944	55.91
15	58.42	27	57.17	25	56.48	15	57.14
22	59.15	Apr. 3	57.20	May 1	57.02	22	58.88
Mar. 1	58.23	10	52.76				

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2, 1951	68.35	Apr. 10, 1951	66.91	July 10, 1951	70.59	Oct. 9, 1951	75.35
16	69.77	17	66.24	17	70.30	16	74.83
23	69.09	24	66.38	24	72.52	23	75.42
30	68.96	May 1	67.34	31	73.76	30	73.65
Feb. 6	69.92	8	68.70	Aug. 7	74.29	Nov. 6	72.79
13	69.67	15	66.98	14	74.82	13	71.64
20	67.66	22	66.97	21	72.25	20	73.17
27	67.84	29	68.10	28	75.27	27	72.98
Mar. 6	67.75	June 5	69.18	Sept. 4	74.21	Dec. 4	73.48
13	67.98	12	68.69	11	73.55	11	72.52
20	67.45	19	71.42	18	74.35	18	72.00
27	67.32	26	71.50	25	75.11	28	68.35
Apr. 4	66.88	July 3	72.63	Oct. 2	75.31		

79:16-1. Layne and Bowler, Inc. Chelsea Ave. and University St. Lat. 35°10'21", long. 89°59'27". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 465 feet. Land-surface datum is about 240 feet above msl. Highest water level 54.57 below lsd, May 13, 1946; lowest 79.69 below lsd, Nov. 7, 1950. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	68.65	Apr. 17	64.85	Oct. 9	76.27	Nov. 20	72.67
9	70.71	24	65.18	16	75.38	27	72.10
23	69.18	May 1	67.66	23	75.45	Dec. 4	71.77
Feb. 13	69.28	8	68.08	30	74.27	11	72.23
Mar. 27	66.69	15	68.34	Nov. 6	74.12	18	71.79
Apr. 4	66.60	22	69.90	13	72.42	28	66.00
10	65.77	29	69.53				

79:19-1. Oliver Finnie Co. Vance Ave. and South Front St. Lat. 35°08'19", long. 90°03'30". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 500 feet. Land-surface datum is about 280 feet above msl. Highest water level 91.12 below lsd, May 9, 1944; lowest 121.20 below lsd, Aug. 14, 1951. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	105.73	Apr. 11	99.42	July 10	115.41	Oct. 9	113.27
10	104.04	18	100.04	17	117.19	16	114.79
16	103.03	25	103.04	24	117.90	23	115.10
24	103.29	May 2	109.01	31	116.64	30	110.37
Feb. 7	105.44	9	108.98	Aug. 7	119.49	Nov. 6	108.07
14	104.19	16	112.75	14	121.20	13	106.88
21	104.17	23	115.22	21	118.69	20	106.93
28	101.49	31	113.94	28	120.19	27	106.26
Mar. 7	101.29	June 5	114.04	Sept. 4	117.32	Dec. 4	106.01
14	97.99	12	112.79	11	117.46	11	105.69
21	102.05	19	113.89	18	116.83	18	104.87
28	101.36	26	115.93	25	116.16	28	100.79
Apr. 4	101.17	July 3	116.49	Oct. 2	116.69		

79:20-4. Tennessee Valley Authority. Formerly Memphis Generating Co. Fourth St. and E. H. Crump Blvd. Lat. 35°07'31", long. 90°03'01". Drilled unused artesian well in sand of Claiborne group, diameter 16 inches, reported depth 501 feet. Land-surface datum is about 280 feet above msl. Highest water level 84.66 below lsd, Jan. 6, 1941; lowest 118.37 below lsd, Aug. 7, 1951. Records available: 1940-51.

Jan. 16	101.86	Apr. 18	100.49	July 17	114.83	Oct. 9	113.86
24	99.90	25	99.79	24	115.07	16	113.84
31	102.28	May 2	103.98	31	112.93	23	114.79
Feb. 7	104.82	9	105.54	Aug. 7	118.37	30	111.98
14	102.11	16	108.50	14	118.28	Nov. 6	108.56
21	105.87	23	112.99	21	116.93	13	109.36
28	101.75	31	111.75	28	116.58	20	106.12
Mar. 7	103.49	June 5	111.73	Sept. 4	116.26	27	105.23
14	99.71	12	111.86	11	116.72	Dec. 4	105.17
21	100.56	19	110.73	18	114.64	11	103.35
28	101.13	26	114.17	25	115.40	18	105.65
Apr. 4	101.01	July 3	113.79	Oct. 2	114.73	28	101.20
11	100.75	10	113.79				

79:21-1. Memphis Publishing Co. South Orleans St. and Beale Ave. Lat. 35°08'20", long. 90°02'21". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, reported depth 395 feet. Land-surface datum is about 255 feet above msl. Highest water level 85.8 below lsd, Feb. 13, 1950; lowest 114.9 below lsd, Aug. 10, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	95.8	95.9	93.9	92.9	99.1	107.8	106.4	111.2	114.1	105.6	102.2	99.2
2	96.1	96.0	94.1	92.9	100.0	107.7	107.4	112.2	112.6	107.6	102.7	98.3
3	96.9	96.1	93.9	92.9	100.9	106.0	108.5	112.8	108.5	108.4	101.8	98.2
4	97.7	95.5	92.5	92.9	102.2	105.1	106.8	112.1	109.6	109.1	100.6	98.8
5	98.1	97.7	....	92.9	101.2	104.9	106.8	110.4	111.4	110.2	100.4	99.0
6	97.4	98.5	93.5	92.8	99.6	105.1	107.5	110.3	112.0	109.8	100.8	99.6
7	95.8	98.4	94.4	92.3	97.8	105.7	106.7	112.6	112.3	108.5	100.8	100.6
8	95.9	98.1	94.2	90.9	98.8	105.8	104.8	113.6	110.6	106.4	100.7	99.3
9	96.1	97.8	93.8	90.4	100.6	105.2	106.4	114.5	109.0	105.5	101.1	97.7
10	96.5	96.9	92.8	91.6	102.1	....	108.3	114.9	108.8	105.9	100.5	97.0
11	96.6	95.0	91.2	92.1	102.5	....	109.2	114.0	109.6	105.8	99.6	97.7
12	96.4	95.0	91.4	92.4	101.1	104.3	110.0	111.8	110.3	106.5	99.5	97.9
13	95.2	96.6	92.3	92.2	99.6	105.1	110.7	111.8	110.7	106.2	100.7	97.9
14	93.7	96.5	92.7	91.5	100.5	105.6	109.5	113.7	110.0	104.9	101.2	97.7
15	94.1	95.9	93.1	90.5	102.7	105.6	107.7	114.1	108.9	105.7	100.9	97.0
16	94.4	95.6	93.3	91.2	104.1	104.6	107.4	113.7	107.2	106.8	100.6	96.5
17	95.0	94.9	92.7	92.0	104.7	102.8	109.5	113.4	107.0	107.4	100.4	96.2
18	95.4	93.8	91.5	93.0	105.6	104.8	110.3	112.1	107.9	108.1	99.2	97.7
19	96.1	94.9	91.9	93.8	105.2	106.7	111.0	109.8	107.8	107.4	98.3	97.8
20	95.7	94.7	92.4	94.5	103.6	107.5	111.4	110.6	108.3	105.9	98.3	97.4
21	94.2	95.9	93.2	93.7	105.5	108.4	111.3	112.5	109.0	104.7	99.1	97.4
22	94.4	95.9	93.5	92.2	107.0	109.4	109.9	112.2	108.1	106.3	98.4	96.6
23	95.3	95.7	93.8	91.9	106.2	108.6	110.6	111.7	106.4	107.4	99.2	95.5
24	95.8	94.4	94.0	92.8	105.8	106.9	111.8	111.7	106.0	106.2	98.7	95.2
25	96.1	93.3	92.7	94.6	105.7	107.0	112.3	111.4	107.7	105.8	97.2	94.4

79:21-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	95.6	94.4	92.8	96.2	104.7	108.5	112.0	110.3	108.7	106.1	97.6	93.1
27	95.2	94.4	93.5	97.0	103.2	109.2	110.8	110.7	109.2	105.1	98.4	93.0
28	94.0	94.3	93.7	97.3	103.1	109.8	109.4	112.4	108.3	102.7	98.5	93.1
29	94.4		93.7	96.2	104.8	109.7	107.8	113.5	106.4	101.4	98.7	93.0
30	95.0		94.3	97.8	105.8	108.4	108.4	114.1	104.4	102.3	99.3	92.0
31	95.2		93.7		106.8		110.3	114.6		102.2		93.6

79:23-1. Memphis Park Commission. Riverside Park. Lat. 35°05'24", long. 90°04'50". Drilled industrial artesian well in sand of Claiborne group, diameter 8 inches, depth 300 feet. Land-surface datum is about 285 feet above msl. Highest water level 88.51 below lsd, Apr. 10, 1945; lowest 116.99 below lsd, Nov. 7, 1950. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	103.83	Mar. 28	94.74	July 24	100.68	Oct. 30	102.65
10	103.16	Apr. 4	94.65	Aug. 7	102.61	Nov. 6	101.85
16	98.09	18	93.77	14	103.64	13	99.55
24	97.86	25	93.68	21	102.58	20	100.43
Feb. 7	97.14	May 2	94.89	28	103.64	27	99.90
14	95.12	June 12	99.73	Sept. 4	103.45	Dec. 4	99.75
Mar. 7	94.39	July 3	102.90	Oct. 9	103.48	11	99.70
14	94.25	10	99.44	16	102.25	18	103.74
21	94.56	17	100.14	23	103.52	28	97.95

79:26-2. Lee R. Holcomb. Lat. 35°17'45", long. 89°55'38". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 340 feet. Land-surface datum is about 295 feet above msl. Highest water level 72.59 below lsd, July 14, 1947; lowest 85.63 below lsd, Dec. 10, 1951. Records available: 1944-51.

Jan. 8	81.08	Apr. 16	78.75	July 9	81.42	Sept. 24	83.39
15	81.24	23	78.56	16	81.57	Oct. 1	83.82
22	81.27	30	78.61	23	81.69	8	84.05
Feb. 12	80.96	May 7	79.04	30	81.75	15	84.28
19	80.50	14	79.44	Aug. 6	81.88	22	84.25
26	80.17	21	79.36	13	82.39	29	84.03
Mar. 5	80.02	28	79.79	20	82.64	Nov. 5	84.01
12	79.63	June 4	79.99	27	82.69	19	83.66
19	80.56	11	80.34	Sept. 3	83.00	26	83.60
26	79.26	18	80.80	10	83.00	Dec. 10	85.63
Apr. 2	78.88	26	80.09	17	83.38	27	77.71
9	78.60	July 2	80.82				

79:28-2. Virginia-Carolina Chemical Co. Poplar Ave. and Collins St. Lat. 35°08'20", long. 89°58'20". Drilled unused water-table well in terrace deposits, diameter 6 inches, depth 97 feet. Land-surface datum is about 280 feet above msl. Highest water level 37.40 below lsd, June 9, 1947; lowest 47.87 below lsd, Feb. 20, 1945. Records available: 1944-51.

Jan. 2	40.73	Apr. 4	38.90	July 10	38.89	Oct. 9	41.34
15	40.77	10	38.98	17	38.88	16	41.48
16	40.78	17	39.00	24	39.07	23	41.58
23	39.92	24	38.60	31	38.89	30	40.80
30	40.44	May 1	39.05	Aug. 7	39.12	Nov. 6	40.73
Feb. 6	39.68	8	38.64	14	39.34	13	40.84
13	39.51	15	38.84	21	39.45	20	42.15
20	39.30	29	38.77	28	38.01	27	41.65
27	39.71	June 5	38.72	Sept. 4	40.95	Dec. 4	41.41
Mar. 6	39.56	12	39.75	11	41.12	11	41.96
13	39.30	19	39.83	18	41.09	18	42.09
20	39.52	26	38.87	25	41.16	28	41.65
27	39.15	July 3	38.96	Oct. 2	41.13		

79:32-2. Memphis Light, Gas and Water Division. Formerly Southern United Ice Co. Auction Ave. and North Seventh St. Lat. 35°09'20", long. 90°02'29". Drilled unused artesian well in sand of Claiborne group, diameter 10 inches, depth 396 feet. Land-surface datum is 229.6 feet above msl. Highest water level 51.17 below lsd, Feb. 27, 1950; lowest 76.30 below lsd, Aug. 13, 1951. Records available: 1949-51. Measurement discontinued.

Jan. 8	63.00	Feb. 19	61.88	Apr. 2	58.64	May 14	64.17
15	60.78	26	60.80	9	58.41	21	70.58
22	60.63	Mar. 5	57.82	16	56.95	28	66.86
29	61.18	12	57.44	23	56.42	June 4	68.43
Feb. 5	65.92	19	57.11	30	62.24	11	67.08
12	60.68	26	57.63	May 7	62.89	18	68.34

79:32-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 25	71.13	July 30	72.27	Sept. 3	75.01	Oct. 1	70.19
July 2	71.89	Aug. 6	74.21	10	73.33	8	72.08
9	70.10	13	76.30	17	71.34	15	71.89
16	71.32	20	75.16	24	70.34	22	70.67
23	75.12	27	75.14				

79:33-2. Memphis State College. Norriswood Ave. and Patterson St. Lat. 35°07'12", long. 89°56'20". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 460 feet. Land-surface datum is about 300 feet above msl. Highest water level 84.75 below lsd, Aug. 26, 1947; lowest 122.85 below lsd, Sept. 4, 1951. Records available: 1944-47, 1949-51.

Jan. 2	109.61	Apr. 10	114.60	July 10	120.34	Oct. 9	121.48
9	116.24	17	113.84	17	120.83	16	121.31
16	116.01	24	113.53	24	122.38	23	121.09
23	116.29	May 1	113.92	31	122.09	30	119.89
Feb. 6	115.27	8	114.19	Aug. 7	122.31	Nov. 6	118.97
13	116.24	15	114.50	14	122.57	13	117.09
20	115.33	22	114.75	21	121.81	20	119.98
27	114.98	29	117.27	28	122.28	27	119.56
Mar. 6	115.73	June 5	119.14	Sept. 4	122.85	Dec. 4	120.77
13	115.19	12	118.07	11	120.00	11	121.24
20	116.13	19	119.46	18	121.28	18	116.95
27	113.69	26	119.92	25	120.99	28	116.90
Apr. 4	113.50	July 3	119.90	Oct. 2	121.35		

79:34-1. Victory Iron and Metal Co. Formerly H. Blockman & Co. Mallory Ave. and South Third St. Lat. 35°05'10", long. 90°03'13". Drilled unused artesian well in sand of Claiborne group, diameter 4 inches, reported depth 350 feet. Land-surface datum is about 230 feet above msl. Highest water level 34.01 below lsd, Feb. 21, 1950; lowest 48.09 below lsd, Sept. 9, 1949. Records available: 1944-47, 1949-51.

Jan. 3	43.46	Mar. 21	38.10	June 5	42.92	Oct. 23	46.89
10	43.15	28	38.10	12	43.06	30	46.96
16	42.19	Apr. 4	37.89	19	43.03	Nov. 6	46.65
24	41.64	11	37.37	26	44.40	13	44.13
31	41.60	18	37.08	July 3	44.16	20	44.57
Feb. 7	41.15	25	37.43	10	42.65	27	43.90
14	40.23	May 2	38.02	17	43.07	Dec. 4	44.05
21	39.98	9	39.74	24	45.21	11	44.04
28	39.26	16	40.54	Sept. 25	47.09	18	43.83
Mar. 7	38.29	23	43.03	Oct. 9	47.42	28	41.63
14	38.00	31	42.88	16	46.87		

79:36-1. Oakville Memorial Sanatorium. Getwell Rd. and U. S. Highway 78, Oakville. Lat. 35°03'25", long. 89°56'20". Drilled institutional artesian well in sand of Claiborne group, diameter 12 inches, depth 502 feet. Land-surface datum is about 285 feet above msl. Highest water level 58.87 below lsd, Nov. 29, 1948; lowest 70.80 below lsd, Aug. 31, 1948. Records available: 1944-51.

Jan. 11	65.22	Apr. 12	63.98	July 2	c65.44	Sept. 17	66.91
17	c65.05	19	64.07	9	c65.59	Oct. 1	66.77
25	c65.04	26	c64.12	16	c65.98	8	c67.14
Feb. 8	c65.24	May 3	64.21	30	c66.37	15	66.89
15	c65.18	10	c64.38	Aug. 6	c66.57	29	66.57
22	c64.88	31	64.95	13	c66.94	Nov. 5	67.21
Mar. 1	c63.55	June 4	c65.30	20	66.77	19	c66.95
8	c64.44	11	64.72	27	66.68	26	69.20
15	c64.29	18	64.72	Sept. 3	c67.39	Dec. 10	66.63
29	c64.00	25	c65.47	10	c67.29	17	66.60
Apr. 5	c64.19						

c Nearby well being pumped.

79:37-1. Whitehaven High School. McClure St. and U. S. Highway 51, Whitehaven. Lat. 35°00'55", long. 90°01'32". Drilled unused water-table well in terrace deposits, diameter 2 inches, depth 61 feet. Land-surface datum is about 300 feet above msl. Highest water level 32.90 below lsd, Apr. 11, 1950; lowest 46.69 below lsd, Dec. 19, 1944. Records available: 1944-51.

79:37-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	41.07	Apr. 4	34.34	July 3	37.47	Oct. 2	40.86
10	40.67	11	34.06	10	37.36	9	41.06
16	41.02	18	34.00	17	37.83	16	41.58
24	39.40	25	34.14	24	38.06	23	41.42
31	39.32	May 2	34.16	31	38.42	30	41.57
Feb. 7	38.34	9	37.37	Aug. 7	38.72	Nov. 6	41.74
14	37.69	16	34.84	14	39.03	13	38.46
21	36.74	23	35.15	21	39.38	20	42.03
28	35.92	31	35.63	28	39.68	27	37.47
Mar. 7	35.40	June 5	36.20	Sept. 4	39.98	Dec. 4	40.80
14	35.03	12	36.54	11	39.99	11	42.22
21	34.84	19	36.84	18	40.50	18	42.20
28	34.62	26	37.13	25	40.69	28	41.93

79:38-3. American Finishing Co. Lauderdale St. and Bodley Ave. Lat. 35°05'02", long. 90°02'36". Drilled unused artesian well in sand of Claiborne group, diameter 12 inches, reported depth 430 feet. Land-surface datum is about 240 feet above msl. Highest water level 66.7 below lsd, Feb. 28, 1949; lowest 98.0 below lsd, Dec. 7, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.0	85.8	87.8	76.7	80.8	87.5	80.4	90.2	89.5	84.0	87.2	85.3
2	91.5	87.3	87.8	77.8	81.6	84.7	79.5	91.3	85.2	87.0	88.0	82.2
3	92.9	85.8	85.0	82.5	83.5	79.2	78.9	91.3	83.1	87.5	87.8	82.8
4	....	85.6	77.3	82.5	81.6	81.1	78.2	90.1	87.8	89.2	84.3	85.7
5	....	84.9	78.3	82.7	80.4	83.8	78.4	87.2	91.0	89.4	84.2	87.7
6	....	85.8	80.7	81.5	77.3	83.6	77.8	87.2	93.4	88.4	86.6	89.4
7	....	88.1	81.6	79.5	78.9	83.3	78.0	89.0	93.8	85.0	86.7	89.5
8	....	88.1	81.9	75.8	....	83.2	77.3	89.0	93.4	87.0	88.4	88.5
9	....	88.4	82.4	79.0	h81.54	82.6	82.1	88.2	85.3	88.1	88.3	84.4
10	89.0	88.2	81.8	80.2	81.7	80.3	83.3	87.7	88.6	89.2	87.9	87.1
11	89.0	79.9	76.3	81.9	81.9	81.1	83.4	87.7	90.7	88.9	85.0	88.1
12	88.8	83.6	79.9	83.0	81.8	85.6	84.3	86.6	92.3	89.0	81.7	87.8
13	87.9	86.0	83.2	82.2	79.6	85.2	87.4	86.7	91.6	87.7	85.7	87.5
14	86.2	86.7	84.4	80.4	79.4	85.4	85.4	90.2	81.5	84.6	86.2	88.4
15	86.1	86.5	84.7	75.2	81.7	85.7	82.5	92.0	91.0	84.0	86.1	87.4
16	88.6	86.2	84.6	76.9	83.2	84.4	86.4	91.2	86.3	87.4	87.3	84.1
17	88.8	83.7	81.9	79.6	84.1	82.5	87.3	91.3	86.5	89.6	86.8	83.0
18	88.7	80.2	75.9	81.8	84.3	83.6	89.5	91.4	80.5	89.8	82.2	84.9
19	89.7	78.8	77.6	80.6	84.5	85.8	90.5	86.8	91.2	90.0	83.6	87.3
20	90.2	80.4	81.6	81.0	83.8	86.6	90.1	87.5	91.6	88.6	86.2	86.4
21	82.6	80.5	84.9	80.1	87.3	89.1	87.6	90.0	90.2	84.8	87.1	86.0
22	83.5	81.4	85.9	74.8	....	89.2	84.9	89.7	89.3	85.4	85.4	84.7
23	86.8	81.6	84.8	76.2	87.2	87.2	88.0	88.3	85.6	89.3	80.2	....
24	88.7	80.3	81.8	80.4	87.1	83.3	90.5	90.3	86.9	89.6	79.9	....
25	90.1	79.1	76.2	80.4	85.4	....	89.3	89.7	88.7	89.7	79.6	....
26	90.0	81.3	77.8	80.4	84.5	87.8	87.6	84.3	89.7	90.0	81.2	....
27	89.2	....	83.0	79.0	80.0	88.4	88.5	87.0	88.8	89.2	84.3	....
28	84.1	85.1	84.7	78.6	80.0	89.6	87.9	87.6	89.9	85.7	84.4	83.0
29	84.0	....	85.0	77.3	83.5	87.6	84.1	88.6	87.7	85.1	85.6	82.4
30	86.5	....	84.1	77.1	86.6	85.8	88.0	88.9	85.2	86.3	85.5	79.0
31	85.4	....	83.0	....	87.5	....	90.6	89.5	....	87.4	....	77.7

h Tape measurement.

79:38-4. American Finishing Co. McMillan St. and Bodley Ave. Lat. 35°05'02", long. 90°02'25". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 415 feet. Land-surface datum is about 270 feet above msl. Highest water level 54.53 below lsd, Feb. 26, 1946; lowest 78.81 below lsd, Dec. 27, 1950. Records available: 1944-48, 1950-51. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	70.59	Feb. 28	65.57	Apr. 18	64.20	May 31	68.50
10	68.38	Mar. 7	66.02	28	63.22	June 5	66.10
16	74.56	14	63.33	May 2	64.05	12	67.76
24	67.46	21	64.66	9	69.00	19	66.72
Feb. 7	67.80	28	64.80	16	65.93	26	68.23
14	67.49	Apr. 4	64.47	23	70.07	July 3	65.12
21	67.04	11	63.93				

79:54-1. Jasper Transfer & Storage Co. Beale Ave. and Hernando St. Lat. 35°08'21", long. 90°02'59". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 187 feet. Land-surface datum is about 250 feet above msl. Highest water level 62.81 below lsd, Jan. 22, 1946; lowest 98.38 below lsd, Nov. 28, 1950. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	76.56	Mar. 21	72.07	Sept. 4	90.12	Oct. 30	81.01
10	75.66	28	74.47	11	91.59	Nov. 6	79.25
16	74.14	Apr. 4	74.26	18	88.51	20	79.84
24	74.94	July 24	92.03	25	89.68	27	79.21
Feb. 7	77.00	31	90.23	Oct. 2	89.51	Dec. 4	79.03
28	73.49	Aug. 7	92.96	9	84.58	11	76.53
Mar. 7	74.17	14	94.06	16	87.02	18	75.92
14	70.70	21	95.60	23	88.10	28	71.92

79:55-1. Baptist Memorial Hospital. Monroe Ave. and East St. Lat. 35°08'28", long. 90°01'50". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 490 feet. Land-surface datum is about 275 feet above msl. Highest water level 75.42 below lsd, Jan. 30, 1951; lowest 103.27 below lsd, Sept. 11, 1951. Records available: 1949-51.

Jan. 2	91.13	Apr. 4	87.09	July 3	96.90	Sept. 25	100.64
9	91.66	10	87.16	10	98.20	Oct. 2	100.07
16	89.64	17	87.29	17	98.85	9	101.77
23	89.70	24	87.55	24	99.74	16	100.66
30	75.42	May 1	89.28	31	100.37	23	100.79
Feb. 6	76.29	8	89.85	Aug. 7	100.98	30	97.51
13	78.97	15	91.08	14	101.86	Nov. 6	94.00
20	90.48	22	92.77	21	102.41	13	91.71
27	90.42	29	93.29	28	102.74	20	94.60
Mar. 6	88.49	June 5	94.97	Sept. 4	103.13	27	94.05
13	86.28	12	95.59	11	103.27	Dec. 4	93.94
20	87.79	19	95.78	18	102.05	28	89.09
27	87.92	26	96.82				

79:61-1. Pershing Avenue Corp. Formerly Firestone Tire and Rubber Co. Pershing Ave. and Scott St. Lat. 35°09'15", long. 89°58'07". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, reported depth 365 feet. Land-surface datum is about 255 feet above msl. Highest water level 60.82 below lsd, Oct. 21, 1946; lowest 103.27 below lsd, Dec. 19, 1950. Records available: 1944-51.

Jan. 2	85.20	May 1	85.63	July 17	89.76	Oct. 16	91.86
9	87.20	8	84.53	24	90.54	23	91.88
16	86.74	15	85.67	31	90.95	30	90.11
23	82.09	22	86.00	Aug. 7	91.21	Nov. 6	91.59
30	87.43	29	86.96	14	79.27	13	88.50
Feb. 6	87.34	June 5	87.62	21	76.23	20	89.84
13	87.04	12	87.71	28	90.46	Dec. 4	89.46
20	82.92	19	88.54	Sept. 11	92.53	11	88.69
Apr. 10	83.03	26	88.83	18	92.96	18	88.80
17	83.36	July 3	89.79	25	92.36	28	83.04
24	84.20	10	88.77	Oct. 2	91.72		

79:65-1. Clover Farm Dairy. Beale Ave. and Manassas St. Lat. 35°08'20", long. 90°02'05". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 501 feet. Land-surface datum is about 270 feet above msl. Highest water level 94.8 below lsd, May 26, 1947; lowest 134.9 below lsd, Aug. 10, 1951. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	117.4	115.6	114.2	119.8	128.3	.....	131.5	134.2	125.8	.....	120.3
2	h116.89	117.4	115.7	114.7	120.7	.....	.....	132.5	130.5	127.7	.....	118.6
3	117.6	115.4	114.7	121.4	.....	128.9	133.0	127.8	128.6	.....	119.2
4	117.8	113.7	114.7	120.8	.....	126.8	132.3	129.5	129.2	.....	120.0
5	119.4	113.8	113.6	.....	125.6	127.1	127.4	131.4	130.4	.....	120.1
6	120.4	114.9	113.5	115.8	125.7	.....	e130.3	132.0	129.7	h121.13	120.5
7	120.3	115.8	.....	.....	126.3	.....	e133.3	132.2	.....	.....	121.3
8	119.8	116.0	.....	119.8	126.3	124.4	133.8	130.8	.....	.....	120.3
9	h117.29	119.6	115.7	.....	121.4	125.7	.....	134.5	126.4	126.6	.....	118.4
10	118.5	114.4	113.2	.....	121.5	128.7	134.9	128.8	126.6	.....	118.4

79:65-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	.....	112.2	114.0	.....	124.0	129.7	134.1	129.6	126.4	.....	118.9
12	.....	.....	.....	114.2	.....	125.0	.....	130.0	130.4	126.8	.....	119.2
13	.....	118.2	114.0	113.8	.....	125.8	.....	132.1	131.0	126.2	121.4	119.2
14	.....	118.3	114.5	113.0	.....	126.2	.....	133.8	130.2	.....	121.8	118.8
15	.....	117.6	114.8	109.4	123.3	126.3	.....	134.3	129.0	.....	121.7	.....
16	116.0	117.2	114.9	112.8	124.7	125.1	.....	133.6	126.4	125.87	121.8	.....
17	116.6	.....	114.3	113.8	125.4	122.6	129.8	133.4	127.2	.....	121.5	.....
18	117.0	.....	112.9	114.4	126.3	125.2	130.8	132.2	127.27	.....	117.9	119.0
19	117.6	.....	113.6	115.1	125.7	127.1	131.4	127.6	.....	.....	115.6	119.1
20	117.2	116.8	114.0	115.6	124.5	127.9	131.8	130.7	.....	.....	119.6	118.6
21	115.4	117.4	115.0	114.6	126.2	.....	131.4	132.6	.....	.....	120.4	118.5
22	115.8	117.4	115.2	111.2	127.7	.....	128.8	132.2	.....	.....	119.2	117.7
23	116.8	117.2	115.6	113.5	127.0	.....	130.9	131.6	.....	126.86	120.4	115.9
24	117.4	115.8	115.6	113.81	126.5	.....	132.0	131.4	.....	.....	119.8	116.0
25	117.7	114.5	114.0	.....	126.1	.....	132.6	131.1	127.8	.....	115.5	112.6
26	117.2	116.0	114.6	.....	.....	129.0	132.2	127.9	129.0	.....	118.6	114.2
27	116.6	115.8	115.3	.....	.....	.....	131.0	130.6	129.4	.....	119.6	114.2
28	115.2	115.7	115.6	.....	.....	.....	129.6	132.4	128.6	.....	119.7	114.1
29	115.8	.....	115.5	.....	125.2	.....	.....	133.5	126.8	.....	119.9	114.2
30	116.6	.....	116.1	.....	126.5	129.0	.....	134.2	122.8	122.25	120.4	110.7
31	116.8	.....	115.1	.....	127.4	.....	130.4	134.7	.....	.....	.....	114.7

e Estimated.

h Tape measurement.

79:87-2. Illinois Central Railroad. Gilbert Ave. and Barton St. Lat. 35°07'16", long. 90°03'22". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 500 feet. Land-surface datum is about 270 feet above msl. Highest water level 67.32 below lsd, Jan. 18, 1949; lowest 105.46 below lsd, Aug. 14, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	90.16	Apr. 4	85.02	July 3	98.76	Oct. 2	97.48
10	91.36	11	82.35	10	93.73	9	98.78
16	88.76	18	85.26	17	94.66	16	98.35
24	88.72	25	86.65	24	103.73	23	100.51
31	88.29	May 2	91.58	31	97.13	30	97.29
Feb. 7	87.58	9	92.37	Aug. 7	101.93	Nov. 6	95.17
14	88.65	16	93.48	14	105.46	13	95.65
21	87.49	23	98.67	21	103.38	20	96.00
28	84.47	31	96.37	28	100.53	27	95.15
Mar. 7	87.40	June 5	96.23	Sept. 4	103.83	Dec. 4	93.13
14	88.51	12	94.94	11	101.81	11	94.00
21	86.30	19	98.11	18	101.36	18	92.18
28	85.20	26	98.33	25	100.19	28	89.46

79:105-1. Memphis Light, Gas and Water Division. Kansas St. and McLemore Ave. Lat. 35°06'56", long. 90°03'50". Drilled unused artesian well in sand of Claiborne group, reported diameter 8 inches, reported depth 267 feet. Land-surface datum is about 292 feet above msl. Highest water level 99.66 below lsd, Jan. 22, 1946; lowest 121.79 below lsd, Aug. 14, 1951. Records available: 1944-51.

1931. RECORDS AVAILABLE, 1944-51.											
Jan.	3	112.08	Apr.	4	106.24	July	3	117.40	Oct.	2	118.14
	10	110.54		11	105.50		10	116.02		9	117.77
	16	109.72		18	105.55		17	117.24		16	117.28
	24	109.54		25	105.45		24	118.06		23	119.49
	31	108.93	May	2	108.17		31	118.40		30	115.79
Feb.	7	109.80		9	109.30	Aug.	7	120.55	Nov.	6	113.64
	14	108.92		16	111.37		14	121.79		13	113.56
	21	108.90		23	114.17		21	120.92		20	112.95
	28	107.08		31	114.52		28	119.80		27	111.49
Mar.	7	106.52	June	5	115.13	Sept.	4	120.16	Dec.	4	112.08
	14	105.50		12	114.44		11	120.84		11	113.27
	21	106.38		19	115.07		18	118.59		18	110.80
	28	106.76		26	117.54		25	117.93		28	108.75

79:122-1. Reed Bros. Dairy. Beechwood Ave. and Bellevue Blvd. Lat. 35°07'07", long. 90°01'28". Drilled unused artesian well in sand of Claiborne group, diameter 8 to 6 inches, reported depth 285 feet. Land-surface datum is about 310 feet above msl. Highest water level 116.45 below lsd, May 6, 1947; lowest 139.69 below lsd, Aug. 18, 1948. Records available: 1946-51.

79:122-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	123.87	Apr. 4	122.10	July 2	129.04	Oct. 1	130.27
9	124.63	10	120.38	9	127.71	8	130.73
16	123.67	17	119.94	16	129.54	15	129.55
23	123.78	24	120.00	23	130.05	22	128.61
30	123.79	May 1	121.56	30	130.59	29	125.48
Feb. 6	124.01	8	122.26	Aug. 6	131.60	Nov. 5	127.75
13	123.47	15	123.30	13	132.39	19	123.22
20	122.49	22	126.50	20	131.30	26	122.65
27	122.21	29	125.82	27	130.95	Dec. 3	125.05
Mar. 6	121.11	June 4	125.44	Sept. 3	133.03	10	125.40
13	121.23	11	124.88	10	133.41	17	124.12
20	121.41	18	125.64	17	130.64	27	122.81
27	121.51	25	125.86	24	130.20		

79:142-1. Welsh Lumber Co. Florida St. and Bodley Ave. Lat. 35°04'57", long. 90°03'49". Drilled unused artesian well in sand of Claiborne group, diameter 4 inches, reported depth 485 feet. Land-surface datum is about 220 feet above msl. Highest water level 20.67 below lsd, Feb. 21, 1950; lowest 37.81 below lsd, Sept. 28, 1948. Records available: 1946-51.

Jan. 3	30.60	Apr. 11	25.81	July 10	30.11	Oct. 9	34.50
10	30.09	18	24.25	17	31.25	16	33.83
16	29.08	25	25.64	24	32.15	23	34.22
24	28.65	May 2	25.59	31	32.35	30	34.19
Feb. 7	28.21	9	27.00	Aug. 7	33.67	Nov. 6	33.69
14	27.12	16	27.82	14	34.51	13	33.59
21	27.34	23	30.20	21	34.55	20	31.60
28	26.20	31	30.32	28	34.56	27	31.00
Mar. 7	25.43	June 5	30.32	Sept. 4	34.20	Dec. 4	30.80
14	25.12	12	30.31	11	34.93	11	30.94
21	25.39	19	30.59	18	34.58	18	29.70
28	25.54	26	31.52	25	33.99	28	28.92
Apr. 4	25.33	July 3	30.94	Oct. 2	33.80		

79:148-1D. T. D. Ervin. Formerly Hamilton Co. Inc. Sloanville. Lat. 35°21'10", long. 89°57'02". Drilled unused artesian well in sand of Wilcox group, diameter 24 to 16 inches, depth 1,558 feet. Land-surface datum is 264.2 feet above msl. Highest water level 33.20 below lsd, Apr. 21, 1947; lowest 47.8 below lsd, Nov. 2, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.7	44.3	44.0	44.5	44.5	....	46.0	46.2	46.8	47.3	47.7	....
2	44.7	44.4	43.9	44.6	44.6	....	46.1	46.3	46.9	47.2	47.8	....
3	44.6	44.4	43.8	44.6	44.5	....	46.0	46.3	46.9	47.2	47.8	....
4	44.8	....	43.9	44.6	44.4	45.8	46.0	46.4	46.9	47.4	47.8	....
5	44.8	44.19	43.9	44.6	44.6	45.9	46.0	46.5	46.9	47.4	47.8	....
6	44.7	44.2	43.9	44.5	44.7	45.8	46.0	46.5	46.9	47.5	47.7	....
7	44.8	44.4	43.9	44.3	....	45.8	46.0	46.6	47.0	47.6	47.7	....
8	44.7	44.5	44.0	44.3	....	45.8	45.9	46.6	47.0	47.7	47.8	....
9	44.7	44.4	44.1	44.3	....	45.8	45.9	46.8	47.0	47.7	47.8	....
10	44.6	44.4	44.1	44.3	....	45.8	46.0	46.9	46.9	47.7	47.7	....
11	44.6	44.3	44.0	44.2	....	45.8	46.0	47.0	47.0	47.7	47.7	....
12	44.5	44.2	44.0	44.2	....	45.8	46.0	47.1	47.0	47.8	47.6	....
13	44.4	44.3	44.0	44.3	....	45.9	46.0	47.2	47.0	47.8	47.4	....
14	44.2	44.3	44.1	44.3	....	46.0	46.0	47.2	47.1	47.8	....	....
15	44.3	44.3	44.2	44.4	....	45.9	46.0	47.2	47.1	47.8	....	....
16	44.3	44.2	44.2	44.5	....	45.9	46.0	47.3	47.1	47.7	....	....
17	44.2	44.2	44.1	44.5	....	45.9	46.1	47.2	47.1	47.8	....	....
18	44.0	44.1	44.4	44.4	....	45.9	46.1	47.2	47.1	47.8	....	....
19	44.0	44.1	44.4	44.5	....	45.9	46.0	47.2	47.1	47.8	....	....
20	44.2	44.0	44.5	44.6	....	45.9	46.1	47.2	47.1	47.8	....	....
21	44.2	44.2	44.5	44.5	....	45.9	46.1	47.2	47.1	47.7	....	....
22	44.2	44.3	44.5	44.6	....	46.0	46.1	47.2	47.1	47.8	....	....
23	44.0	44.3	44.5	44.7	....	46.0	46.1	47.2	47.2	47.8	....	....
24	43.8	44.2	44.6	44.6	....	46.1	46.1	47.2	47.2	47.8	....	....
25	43.8	44.1	44.6	44.5	....	46.1	46.1	47.1	47.1	47.7	....	....

79:148-1D--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	43.7	44.0	44.6	44.5	....	46.0	46.2	47.0	47.1	47.7	....	....
27	43.9	44.0	44.7	44.5	....	46.1	46.1	47.0	47.2	47.8	....	....
28	44.1	44.0	44.7	44.5	....	46.1	46.1	46.9	47.4	47.8	....	....
29	44.2		44.7	44.4	....	46.1	46.1	46.9	47.4	47.8	....	....
30	44.2		44.6	44.4	....	46.0	46.2	46.9	47.3	47.7	....	....
31	44.1		44.5		....		46.2	46.9		47.7	....	....

h Tape measurement.

79:149-1. Hugh O. Cobb. Near Brunswick. Lat. 35°17'03", long. 89°45'48". Drilled domestic artesian well in sand of Claiborne group, diameter 3 inches, depth 214 feet. Land-surface datum is about 250 feet above msl. Lowest water level 0.64 above lsd, July 11, 1944. Records available: 1944-47, 1949-51.

Water level above land-surface datum

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	5.96	Apr. 26	6.62	July 18	5.88	Oct. 10	4.60
Feb. 15	6.14	May 10	6.50	Aug. 2	5.69	Oct. 26	4.37
Mar. 1	3.94	24	6.39	15	5.41	Nov. 7	5.03
15	4.20	June 6	6.19	29	5.24	21	5.72
29	6.95	20	6.27	Sept. 26	4.90	Dec. 19	5.27
Apr. 2	6.66	July 4	6.42				

79:167-1. City of Collierville. Main St., Collierville. Lat. 35°02'34", long. 89°39'50". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, depth 240 feet. Land-surface datum is about 390 feet above msl. Highest water level 96.92 below lsd, May 24, 1951; lowest 102.00 below lsd, Oct. 27, 1948. Records available: 1944-51.

Jan. 4	99.10	Apr. 12	96.93	July 4	98.19	Sept. 26	97.83
17	98.28	26	97.34	18	98.55	Oct. 10	97.22
Feb. 15	98.22	May 10	98.24	Aug. 2	98.59	26	97.25
Mar. 1	98.68	24	96.92	15	98.28	Nov. 7	98.36
15	97.16	June 6	98.50	29	98.70	21	99.61
29	99.29	20	98.33	Sept. 12	98.29	Dec. 19	96.99

79:174-1. J. O. Goshorn Co. Bodley Ave. and Third St. Lat. 35°05'02", long. 90°03'15". Drilled unused water-table well in terrace deposits, diameter 4 inches, depth 58 feet. Land-surface datum is about 225 feet above msl. Highest water level 17.66 below lsd, Apr. 18, 1950; lowest 26.04 below lsd, Oct. 21, 1947. Records available: 1946-51.

Jan. 3	20.33	Apr. 4	18.03	July 10	20.76	Oct. 9	23.95
10	21.09	11	19.73	17	20.99	16	24.10
16	20.36	18	18.70	24	20.98	23	24.41
24	20.30	25	19.76	31	20.97	30	23.77
31	20.24	May 2	19.80	Aug. 7	22.08	Nov. 6	22.69
Feb. 7	19.91	9	19.33	14	22.49	13	20.54
14	19.66	16	20.84	21	22.60	20	23.08
21	19.26	23	21.21	28	22.97	27	22.85
28	19.79	31	21.78	Sept. 4	23.30	Dec. 4	22.61
Mar. 7	19.40	June 5	21.59	11	23.48	11	19.69
14	19.77	19	21.47	18	23.39	18	20.62
21	19.18	26	21.69	25	24.38	28	20.64
28	18.18	July 3	20.76	Oct. 2	23.67		

79:175-1. C. W. Bond. Chester Street, Arlington. Lat. 35°17'27", long. 89°39'35". Drilled unused artesian well in sand of Claiborne group, diameter 2 inches, depth 200 feet. Highest water level 58.77 below lsd, Feb. 16, 1950; lowest 66.31 below lsd, Oct. 13, 1948. Records available: 1945-51.

Jan. 4	59.14	Apr. 12	59.40	July 4	59.44	Sept. 26	60.54
17	58.73	26	59.10	18	60.06	Oct. 10	60.74
Feb. 15	59.37	May 10	59.67	Aug. 2	60.17	26	60.70
Mar. 1	59.51	24	59.81	15	60.34	Nov. 7	60.58
15	59.70	June 6	57.94	29	60.38	21	60.70
29	59.25	20	59.94	Sept. 12	60.48	Dec. 19	59.67

79:176-1. Gulf Refining Co. Mallory Ave. and Fisher St. Lat. 35°05'08", long. 90°05'02". Drilled unused artesian well in sand of Claiborne group, diameter 6 to 4 inches, depth 390 feet. Land-surface datum is about 230 feet above msl. Highest water level 33.98 below lsd, Feb. 21, 1950. Records available: 1947-51.

79:176-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	44.68	Feb. 21	41.33	Apr. 4	38.97	Nov. 27	45.87
16	42.97	28	38.97	11	39.07	Dec. 4	45.97
24	42.65	Mar. 7	38.99	18	37.96	11	44.87
31	42.61	14	38.88	25	38.38	18	43.71
Feb. 7	41.42	21	39.19	Nov. 20	46.46	28	42.94
14	38.78	28	39.36				

79:193-1. National Cylinder Gas Co. Tully St. and Sexton Ave. Lat. 35°10'28", long. 90°02'01". Drilled unused artesian well in sand of Claiborne group, diameter 8 inches, depth 338 feet. Land-surface datum is about 230 feet above msl. Highest water level 68.3 below lsd, Apr. 8, 1951; lowest 95.2 below lsd, Aug. 10, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.1	83.1	77.0	75.9	79.8	87.7	86.7	91.6	93.5	85.8	86.6	83.0
2	77.3	83.6	78.9	....	81.1	87.2	88.0	92.2	92.8	88.2	85.4	82.3
3	79.6	83.9	77.6	....	82.3	85.0	89.1	92.2	89.4	88.3	85.4	80.3
4	82.3	83.9	73.9	74.1	83.0	84.6	87.6	92.2	88.6	88.8	82.0	83.2
5	82.8	84.4	....	74.3	82.1	85.5	85.8	90.9	92.0	90.4	83.0	82.8
6	81.7	83.2	75.9	75.2	78.0	86.7	86.9	90.8	92.8	90.2	84.5	82.7
7	79.0	83.7	78.0	75.2	....	87.2	87.3	92.7	91.8	90.2	83.4	82.8
8	81.6	84.6	77.3	71.0	79.3	86.6	84.4	93.9	89.4	86.7	83.4	83.8
9	81.9	83.2	78.5	72.1	80.6	86.6	86.9	94.7	89.4	88.5	83.4	81.4
10	82.0	82.9	77.0	74.0	81.8	83.5	88.2	95.2	88.0	87.1	84.5	81.4
11	82.3	78.8	73.7	74.9	83.1	83.5	89.6	94.8	88.4	86.7	83.2	82.1
12	82.3	80.5	74.6	74.7	82.1	84.9	90.1	92.8	90.6	86.5	82.0	83.7
13	80.7	81.8	75.4	75.8	77.6	86.2	90.6	92.4	90.1	87.6	82.0	83.5
14	76.5	82.1	76.4	74.5	....	87.0	90.0	93.3	89.7	86.2	83.0	84.8
15	77.6	82.2	76.3	72.2	h81.45	86.7	88.6	94.1	90.2	84.3	82.8	83.8
16	79.4	81.1	75.9	73.9	83.1	86.7	88.1	94.4	88.4	84.4	83.1	82.8
17	79.9	80.4	76.5	76.2	83.8	83.4	89.8	94.3	87.4	85.8	83.0	81.0
18	81.7	77.2	74.3	76.2	84.8	85.1	90.2	93.5	88.2	87.6	82.3	83.2
19	82.0	78.9	....	76.6	84.4	87.3	91.3	89.9	88.7	87.8	82.7	82.6
20	80.4	79.6	h74.70	77.1	81.9	87.9	92.0	91.2	88.4	86.4	81.0	82.6
21	76.1	....	....	....	....	88.2	92.0	92.8	88.5	85.0	82.5	82.8
22	78.5	....	....	e73.0	86.1	89.4	90.3	93.2	89.5	85.5	82.6	83.9
23	79.0	....	....	74.6	86.8	88.1	91.5	93.0	87.9	87.6	81.5	80.0
24	79.6	....	....	h76.19	86.1	85.3	92.2	93.1	86.8	86.5	81.6	....
25	80.2	....	....	....	85.4	86.8	91.6	92.6	88.9	86.0	79.0	....
26	80.4	....	....	....	83.1	88.8	....	90.9	88.3	85.6	80.8	....
27	78.5	h76.55	75.5	....	....	89.3	....	90.7	88.7	86.1	81.6	77.4
28	76.5	76.4	76.2	....	....	90.2	....	91.9	88.9	83.4	81.6	78.8
29	77.6	....	77.9	....	84.4	90.5	....	92.6	89.3	83.1	81.6	80.0
30	80.9	....	78.1	....	83.5	90.4	88.7	93.0	87.3	84.9	84.2	79.2
31	82.1	....	77.8	....	86.0	....	90.4	93.3	....	85.4	....	79.5

h Tape measurement.
e Estimated.

Williamson County

94:1-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Franklin. Lat. 35°55'02", long. 86°54'11". Drilled observation artesian well in Knox dolomite, diameter 6 inches, depth 1,160 feet. Land-surface datum is about 725 feet above msl. Highest water level 84.95 below lsd, Oct. 2, 1951; lowest 114.81 below lsd, Jan. 31, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	h85.63	Nov. 30	h85.14	Dec. 14	85.00	Dec. 23	85.06
Mar. 1	h85.51	Dec. 5	84.71	15	85.24	24	85.06
Apr. 6	h85.35	6	84.80	16	85.26	25	84.99
May 1	h85.44	7	85.01	17	84.97	26	85.13
June 1	h85.51	8	85.01	18	85.02	27	85.14
July 2	h85.27	9	85.17	19	84.92	28	85.08
Aug. 2	h85.18	10	85.20	20	84.79	29	85.04
31	h85.09	11	85.09	21	84.95	30	85.03
Oct. 2	h84.95	12	84.87	22	84.97	31	85.02
Nov. 2	h85.01	13	84.98				

h Tape measurement.

VIRGINIA

By Allen Sinnott and Rodney Hart

Scope of Water-Level Program

The two programs of water-level measurements, begun in June 1928 in cooperation with the State Geological Survey, were continued in 1951. In eastern Virginia, measurements were made in nine wells, two of which are equipped with recording gages, and in northern Virginia month-end tape measurements were made in six wells. (See fig. 33.)

Bulletin 68 of the Virginia Geological Survey, "Chemical character of ground water in the Coastal Plain of Virginia," by D. J. Cederstrom, was published in February. The following reports are in course of preparation:

Public and industrial ground-water supplies of the Roanoke area, Virginia, by Bruce F. Latta.

Geology and ground-water resources of the York-James peninsula, Virginia, by D. J. Cederstrom.

Geology and ground-water resources of the Eastern Shore peninsula, Virginia, by Allen Sinnott.

Other reports in preparation include a study of the geology and ground-water resources of the Coastal Plain in northeastern Virginia, by Allen Sinnott; quantitative ground-water studies in the Franklin area, southeastern Virginia, by Allen Sinnott; and a report on fluoride in ground water in the Coastal Plain of Virginia, by Allen Sinnott and George W. Whetstone.

Interpretation of Water-Level Fluctuations

Northern Virginia. -- 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 1951, as shown by 50 years of record of the U. S. Weather Bureau and which are representative of the precipitation in the northern part of Virginia, are given in the table below.

Precipitation was only 0.31 inch above normal in 1951 as compared with 4.23 inches above normal precipitation in 1950. This decrease in precipitation is reflected in a noticeable net decline in water levels in all of the northern Virginia observation wells.

Precipitation at Washington, D. C.

Month	Recorded precipitation	Normal precipitation	Departure from normal	Accumulated departure from normal
January	2.42	3.55	-1.13	-1.13
February	2.57	3.27	-.70	-1.83
March	3.17	3.75	-.58	-2.41
April	3.93	3.27	+.66	-1.75
May	3.23	3.70	-.47	-2.22
June	9.28	4.13	+5.15	+2.93
July	2.50	4.71	-2.21	+.72
August	2.02	4.01	-1.99	-1.27
September	1.91	3.24	-1.33	-2.60
October	1.66	2.84	-1.18	-3.78
November	5.01	2.37	+2.64	-1.14
December	4.77	3.32	+1.45	+.31
Year	42.47	42.16	+.31	+.31

The following table shows the water level in feet below land-surface datum for each well at the beginning and end of 1951, the highest and lowest levels recorded during the year, the range in level, and the net change for the year.

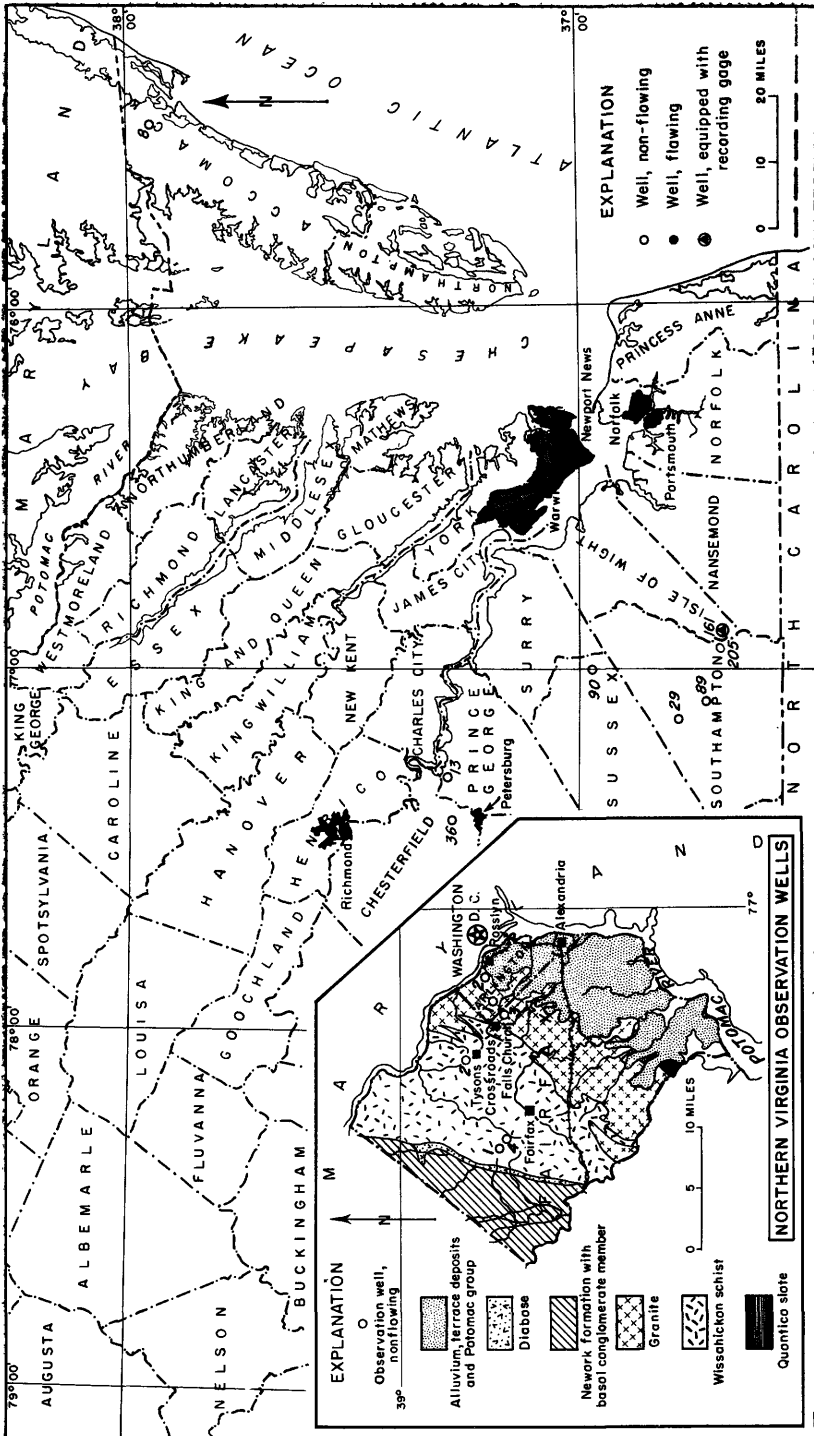


Figure 33. -- Location of observation wells in northeastern and southeastern Virginia, 1951.

Water levels in six observation wells in northern Virginia

Well	Jan. 1, 1951	Jan. 2, 1952	Net change	Highest	Lowest	Range in level
Ross	20.90	22.95	-2.05	19.13	23.62	4.49
Halls Hill	22.39	25.90	-3.51	19.97	26.60	6.63
Jefferson	21.50	23.50	-2.00	19.39	26.00	6.61
Bell	1.59	2.47	-.88	.65	6.23	5.58
Swart	1.04	1.14	-.10	.77	1.91	1.14
Bacon	13.66	16.20	-2.54	12.22	17.48	5.26

As indicated by this summary, the greatest decline in water level occurred in the Halls Hill well (Arlington County well 1) where the water level was 3.51 feet lower at the end of the year than at the beginning. The greatest range in fluctuation of water level also occurred in this well, where the difference between the highest and lowest stages recorded during the year was 6.63 feet. The average net decline for the four deepest wells, the Bacon, Halls Hill, Jefferson, and Ross wells, was -2.53 feet which indicates a noticeable decrease in ground-water storage since December 1950. The highest water levels recorded during 1951 occurred near the end of April in the Ross and Halls Hill wells in Arlington County and the Bell and Swart wells in Fairfax County. The highest water levels recorded in the remaining three wells were near the end of March. With the exception of the Bell, Jefferson, and Swart wells, the lowest water levels for the year 1951 were recorded at the end of November. The lowest stages in the Bell and Jefferson wells occurred in September and October when both wells went dry. The Swart well reached its lowest stage for the year around October 1.

Eastern Virginia. --The observation-well program in eastern Virginia was continued in 1951 in cooperation with the State Geological Survey. Measurements were made in nine wells, two of which are equipped with recording gages.

The water level in the observation well at Chincoteague Naval Aviation Ordnance test station in Accomack County continued to decline, reaching a new record low of 29.86 on September 10. The level recovered slightly during the last quarter of the year, and at year's end it was less than half a foot below the year-end level for 1950.

There was little change in water level in well 36, in Chesterfield County, the total fluctuation being about 2 feet. At the end of the year the water level was a few hundredths of a foot above the 1950 year-end water level. The rainfall at Richmond was 3.76 inches below normal during the year. Rainfall of more than $2\frac{1}{2}$ inches above normal in November was apparently reflected in a rise of about 1 foot in the water level in well 36 by the end of the year.

The water level in well 161 in Isle of Wight County at the pulp mill in East Franklin continued its decline, which began in October 1950, in response to the pumping of an additional large-yield well at the mill which was put into operation at that time. A new record low level was reached in September, about 12 feet below the September level of 1950. There was a slight recovery owing to a partial shut-down during the holiday season.

The water level in well 13, at the Old Dominion Water Corporation in Hopewell, Prince George County, showed substantially the same pattern of fluctuation as in 1950. It is uncertain when artificial recharge (in order to store cold water underground for reuse during the summer) was carried on at the nearby Solvay Process plant; probably this was done intermittently from January to March. The summer pumping season at this plant began early in May, lowering the water level more than 13 feet during May and June. The water level began to rise again in mid-November, at the end of the summer pumping season, and reached a new record high level of 21.16 feet on December 21, probably in response to a short period of thaw and rainfall following a light snow which occurred during the preceding 10 days.

The water level in well 29, at Sebrell, Southampton County, declined nearly 3 feet below the 1950 level. The level in well 89 at Courtland also showed a decline of about 3 feet. Measurements in well 205 showed a decline in water level of 4 feet below the lowest measurement for 1950. All three wells in Southampton County showed record low levels during the year, which are attributed to the additional large-yield industrial well at Franklin which began pumping in the latter part of 1950.

Through September, the water level in well 90, at Wakefield, in Sussex County, was somewhat higher than during 1950, but in October the effect of the new large-yield industrial well at Franklin apparently was first felt, and the water level declined about 3 feet. A new record low of 75.60 feet was reached on December 16. At the end of the year, the level stood at more than 2 feet below the 1950 year-end level.

In mid-January, Fort Eustis began purchasing nearly all its water from the city of Newport News, and the shutting-down of its wells caused a rise of more than 2 feet in the artesian head in well 15 (Milstead 1). The artesian head averaged more than 5½ feet above land surface for the remainder of the year, with a fluctuation of about 1 foot.

Well-Numbering System

Wells are numbered consecutively within each county.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Accomack County

8. U. S. Naval Auxiliary Air Station well B-8. Near Chincoteague. Lat. 37°56', long. 75°28'. Drilled unused water-table well in sands of Columbia group, diameter 8 inches, depth 60 feet. Land-surface datum is 34.10 feet above msl. Highest water level 24.44 below lsd, Sept. 7, 1949; lowest 29.86 below lsd, Sept. 10, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	28.26	Apr. 2	28.71	July 2	28.75	Oct. 1	29.21
8	28.17	9	28.96	9	28.95	8	29.12
15	28.35	16	28.85	16	29.84	15	29.08
22	28.20	23	28.96	23	28.99	22	29.02
29	28.93	30	28.90	30	29.00	29	29.15
Feb. 5	28.46	May 7	28.95	Aug. 6	29.17	Nov. 5	29.15
12	28.42	14	28.71	13	29.08	13	28.94
19	28.46	21	28.66	20	29.00	19	29.10
26	28.61	28	28.65	27	28.96	26	28.68
Mar. 5	28.95	June 4	28.75	Sept. 4	29.84	Dec. 3	29.00
12	28.83	11	28.71	10	29.86	10	28.70
19	28.21	18	28.74	17	29.20	17	28.80
26	28.42	25	28.66	24	29.15	26	28.65

Arlington County

1. Halls Hill well. On Lee Highway, at Langston School. Records available: 1932-51.

Jan. 2	22.39	Mar. 30	20.39	June 29	20.77	Oct. 1	24.84
Feb. 1	22.29	Apr. 30	19.97	Aug. 1	22.01	31	26.02
27	21.00	June 1	21.04	31	23.42	Nov. 30	26.60

2. Ross well. 1918 North Wayne St., Rosslyn. Records available: 1928-51.

Jan. 2	20.90	Mar. 30	19.18	June 29	19.47	Oct. 1	22.68
Feb. 1	21.04	Apr. 30	19.13	Aug. 1	20.87	31	23.30
27	19.80	June 1	20.30	31	21.83	Nov. 30	23.62

Chesterfield County

36. Pilcher well. John M. Ashby. At Matoaka Manor, 3 miles north of Petersburg on U. S. Highway 1. Lat. 37°17', long. 77°25'. Drilled unused water-table well in Petersburg granite, diameter 6 inches, depth 139 feet. Land-surface datum is about 57.30 feet above msl. Highest water level 12.48 below lsd, July 29, 1945; lowest 19.09 below lsd, Jan. 14, 1942. Records available: 1939-51.

Feb. 5	16.38	Apr. 28	15.19	July 27	16.41	Nov. 5	17.26
28	16.20	June 1	15.68	Sept. 4	16.54	Dec. 5	16.76
Mar. 28	15.37	26	15.97	Oct. 5	17.09	26	16.25

Fairfax County

1. Bacon. About 2 miles west of Fairfax, at Fair Acres farm, on U. S. Highway 50. Records available: 1932-51.

Jan. 2	13.66	Mar. 30	12.22	June 29	12.86	Oct. 1	16.66
Feb. 1	13.69	Apr. 30	12.41	Aug. 1	14.29	31	17.36
27	12.79	June 1	13.66	31	15.58	Nov. 30	17.48

2. Bell. At Ash Grove, about 1 mile northwest of Tysons Crossroads, on State Highway 7 (Leesburg Pike). Drilled well, diameter 2 inches, depth 9 feet, casing 2-inch galvanized pipe. Records available: 1932-51.

2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	1.59	Mar. 30	0.68	June 29	1.71	Oct. 1	(f)
Feb. 1	1.09	Apr. 30	.65	Aug. 1	4.32	31	(f)
27	.74	June 1	2.63	31	(f)	Nov. 30	5.80

f Dry.

3. Jefferson School. In Falls Church, near southeast corner of Jefferson School. Records available: 1938-51.

Jan. 2	21.50	Mar. 30	19.39	June 29	21.67	Oct. 1	26.00
Feb. 1	21.49	Apr. 30	20.44	Aug. 1	23.80	31	(f)
27	20.60	June 1	21.80	31	25.29	Nov. 30	25.47

f Dry.

4. Swart. On Swart farm, about 1.5 miles west of Fairfax, on U. S. Highway 50 at Difficult Run. Records available: 1932-51.

Jan. 2	1.04	Mar. 30	0.79	June 29	1.04	Oct. 1	1.91
Feb. 1	.96	Apr. 30	.77	Aug. 1	1.25	31	1.75
27	.80	June 1	1.22	31	1.52	Nov. 30	1.40

Isle of Wight County

161. Camp Manufacturing Co. Lat. 36°40', long. 76°55'. Drilled observation artesian well in sands of Potomac group, diameter 6 to 4 inches, depth 605 feet. Land-surface datum is 14.80 feet above msl. Highest water level 7.10 above lsd, Nov. 27, 1941; lowest 32.85 below lsd, Sept. 17, 1951. Records available: 1941-51.

Jan. 1	27.69	Apr. 9	29.87	July 9	31.85	Oct. 8	32.20
8	28.13	16	29.94	16	32.42	15	32.20
15	28.41	23	30.34	23	32.55	22	32.22
22	28.81	30	30.58	30	32.57	29	32.17
29	29.10	May 7	30.44	Aug. 6	32.73	Nov. 5	32.00
Feb. 5	29.48	14	30.70	13	32.48	12	32.10
12	29.74	21	30.77	20	32.68	19	32.12
19	29.77	28	31.20	27	32.78	26	32.16
26	29.41	June 4	31.50	Sept. 3	32.68	Dec. 3	32.26
Mar. 5	29.68	11	31.67	10	32.70	10	32.22
12	29.90	18	31.50	17	32.85	17	32.48
19	29.90	25	31.95	24	32.51	24	30.22
26	29.58	July 2	32.25	Oct. 1	32.45	31	30.85
Apr. 2	29.50						

Prince George County

13. Old Dominion Water Corp. In Hopewell. Lat. 37°18', long. 77°16'. Drilled unused artesian well in sands of Potomac group, diameter 6 inches, reported depth 300 feet. Land-surface datum is 50.26 feet above msl. Highest water level 21.16 below lsd, Dec. 21, 1951; lowest 56.95 below lsd, Aug. 14, 1943. Records available: 1939-51.

Jan. 5	36.68	Apr. 6	35.86	July 6	49.46	Oct. 5	46.75
12	36.53	13	34.96	13	49.46	12	46.96
19	36.44	20	35.96	20	49.34	19	48.76
26	36.33	27	36.11	28	49.54	26	48.96
Feb. 2	36.30	May 4	35.71	Aug. 4	47.71	Nov. 9	47.41
9	36.34	11	40.11	11	46.60	16	42.64
16	36.36	16	44.96	18	49.33	24	40.51
24	35.87	25	46.71	24	49.46	30	39.06
Mar. 2	36.02	June 2	48.16	31	49.25	Dec. 7	37.96
9	35.46	8	48.61	Sept. 7	49.16	14	37.76
16	34.96	15	48.84	15	49.16	21	21.16
23	35.76	22	49.08	21	49.26	26	36.96
30	35.66	29	49.16	28	49.06		

Southampton County

29. Virginian Railway. At Seabell. Lat. 36°47', long. 77°08'. Drilled unused artesian well in sand and gravel of pre-Miocene age, diameter 10 inches, depth 344 feet. Land-surface datum is 58.4 feet above msl. Highest water level 15 below lsd, 1907; lowest 34.77 below lsd, Dec. 5, 1951. Records available: 1907, 1938, 1940-46, 1948-51.

29--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	32.02	Apr. 28	32.64	July 27	33.57	Nov. 5	34.75
28	32.19	June 1	33.00	Sept. 4	33.50	Dec. 5	34.77
Mar. 28	32.26	28	30.26	Oct. 5	34.44	26	34.66

89. Southampton County Courthouse. At Courtland. Lat. $36^{\circ}43'$, long. $77^{\circ}04'$. Jetted unused artesian well in sand of pre-Miocene age, diameter 2 inches, depth 125 feet. Land-surface datum is about 29 feet above msl. Highest water level 2.76 below lsd, Feb. 6, 1942; lowest 14.80 below lsd, June 28, 1951. Records available: 1942-46, 1949-51. Feb. 5, 11.45; Feb. 28, 11.80; Mar. 28, 12.10; June 1, 12.94; June 28, 14.80; Sept. 4, 14.25; Dec. 26, 13.70.

205. Town of Franklin. Fifth Avenue and Middle Street. Lat. $36^{\circ}41'$, long. $76^{\circ}55'$. Jetted observation artesian well in sands of Potomac group, diameter 4 inches, depth 354 feet, cased to 335, screen at 335-354. Land-surface datum is 21.24 feet above msl. Highest water level 14.5 below lsd, June 25, 1942; lowest 45.5 below lsd, July 28, 1951. Records available: 1942-51.

Jan. 6	40.5	Apr. 7	40.5	July 7	43.5	Oct. 6	44.0
13	40.5	14	41.5	14	43.5	13	44.5
20	39.5	21	40.5	21	43.0	20	43.5
27	39.5	28	42.0	28	45.5	27	42.5
Feb. 3	41.5	May 5	42.5	Aug. 4	43.5	Nov. 3	42.5
10	42.0	12	41.5	11	44.0	10	42.5
17	40.5	19	44.5	18	43.5	17	43.5
24	40.5	26	41.3	25	43.5	24	43.5
Mar. 3	40.5	June 2	44.5	Sept. 1	43.5	Dec. 1	43.5
10	40.5	9	42.5	8	43.5	8	42.5
17	40.0	16	43.5	15	44.5	15	42.5
24	40.0	23	42.5	22	43.5	22	43.0
31	40.0	30	43.5	29	44.5	29	43.0

Sussex County

90. Jeb S. White well. In Wakefield. Lat. $36^{\circ}58'$, long. $76^{\circ}59'$. Drilled unused artesian well in sand and gravel of Potomac group, diameter 3 inches, depth 225 feet. Land-surface datum is 100.7 feet above msl. Highest water level 63.55 below lsd, Apr. 16, 1940; lowest 75.60 below lsd, Dec. 16, 1951. Records available: 1938, 1940-51.

Jan. 6	72.12	Apr. 9	71.11	July 16	71.12	Oct. 15	73.99
8	72.80	16	72.02	23	71.12	23	74.22
15	72.13	23	71.12	30	71.12	29	73.10
22	72.12	30	71.14	Aug. 6	71.13	Nov. 5	74.13
Feb. 7	72.13	May 7	71.43	13	71.11	12	74.00
12	72.29	14	71.23	20	71.17	19	74.52
19	72.12	21	71.10	27	71.12	27	74.60
26	72.14	June 5	71.60	Sept. 3	71.11	Dec. 3	74.59
Mar. 5	72.09	12	71.14	10	71.09	10	74.24
14	72.27	18	71.13	17	71.10	16	75.60
19	72.29	July 2	71.13	24	71.09	27	74.36
26	71.13	9	71.16	Oct. 1	72.34	31	74.55
Apr. 2	72.16						

Warwick County

15. Milstead 1. Department of the Army, at Fort Eustis. Lat. $37^{\circ}09'$, long. $76^{\circ}35'$. Drilled unused artesian well in sand of Pamunkey group, diameter 10 to 8 inches, depth 367 feet. Land-surface datum is 4.5 feet above msl. Highest water level 7.93 above lsd, Apr. 17, 1941; lowest 5.87 below lsd, Oct. 27, 1942. Records available: 1941-51.

Water level above land-surface datum.

Jan. 2	3.67	Mar. 7	5.70	May 11	5.90	July 13	5.60
10	1.52	14	5.88	18	5.75	20	5.84
16	2.38	23	5.56	25	6.00	27	5.45
23	4.27	30	5.75	June 1	5.78	Aug. 3	5.87
31	5.00	Apr. 6	5.60	8	5.91	10	5.85
Feb. 7	5.37	13	5.73	15	5.91	17	5.55
14	4.98	20	5.53	22	5.65	24	5.60
21	5.53	27	5.65	29	5.58	31	5.67
28	5.50	May 4	5.85	July 6	5.42	Sept. 28	5.62

15--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 5	6.30	Nov. 2	5.70	Nov. 26	5.65	Dec. 14	5.38
12	6.00	9	5.63	30	5.85	21	5.39
19	5.70	16	5.85	Dec. 7	5.52		

WEST VIRGINIA

By R. C. Smith

Scope of Water-Level Program

The observation-well program, begun in 1941 in cooperation with the West Virginia Geological and Economic Survey, was continued in 1951. Data from 11 wells, 3 of which are equipped with recording gages, are published in this report. The publication of data for observation wells for which measurements have been published in previous annual water-level reports and for which no measurements appear in this report has been discontinued in the annual water-level reports. They may be published in project reports or special reports from time to time. Figure 34 shows the location of the observation wells in West Virginia.

Precipitation

The average precipitation over the State in 1951 was 46.33 inches, about 8 inches less than the average for 1950. During the first half of the year precipitation was normal or above normal for each month. June was the wettest month of the year with an average rainfall of 6.55 inches, about 2 inches above normal. Although the average precipitation for the year was about normal, a severe drought occurred during the third and a part of the fourth quarter of the year. Dry weather began in the northeast panhandle section of the State during early July and spread southward during late July. By the end of August, all sections of the State were affected. Rainfall in September averaged about normal, but there was no relief from the drought as most of the rain occurred in scattered thunder showers which did little but replace some of the soil moisture depleted during July and August. Precipitation in October averaged about 48 percent of normal, and early in the month small creeks and springs began to fail in some places. Wells on the top of hills began to go dry as the ground water seeped from the hillsides. Wells in the valleys or on broad upland areas at some distance from the area of natural discharge of the water-bearing formation were for the most part not seriously affected by the drought. In November the drought was broken. The precipitation averaged 150 to 200 percent above normal and above-normal precipitation continued in December.

Pumpage

Throughout most of West Virginia the use of ground water is limited to small quantities pumped by a great many users. There are only a few relatively heavily pumped areas in the State. In the Charleston business district an average of 500,000 gallons a day is pumped throughout the year from several small wells. During the summer additional wells are pumped for air conditioning, and for that period the average pumpage in the area is about 1 million gallons a day. Well 40-5-14 is in the center of the area. Figure 35 is a graph of the water level in this well during 1951 and shows the seasonal decline of the water level caused by the increased pumping. The areas in West Virginia of largest withdrawals of ground water are along the Ohio River. Near Follansbee, in Brooke County, two companies together pumped an average of 12 million gallons a day in 1951; in Marshall County about 3 million gallons a day were pumped for use by seven companies; and at Parkersburg, in Wood County, the city pumped an average of 4,430,000 gallons a day. In such areas the ground water is obtained by induced infiltration from the river through the alluvial deposits adjacent to the river. At these and other similar areas along the Ohio River, the fluctuations of water level in the alluvium adjacent to the river are in response mainly to changes in the level of the river rather than to changes in the rate of pumping as long as that rate does not exceed the rate of infiltration from the river. Figure 36 shows a graph of the fluctuation of the water level in well 27-3-22, at Parkersburg, during 1951, and, for comparison, it also shows the weekly pumpage from the city well field, and the changes in river level near the well field. The observation well is situated within the city well field, but the pumping units are between it and the river. Land-surface datum at well 27-3-22 is about 25 feet above the normal pool stage of the river. Pool stage is about at the river level, as shown in the graph in figure 36, that occurred in August 1951.

Interpretation of Water-Level Fluctuations

Wells 11-3-8, in Masontown, 11-3-14 at Reedsville, and 40-3-1 in Nitro are all in rural areas, and pumpage in the vicinity of each well is confined to small quantities withdrawn from domestic wells. Well 9-6-45, in Morgantown, is in an unpumped area, and well 42-4-1, in

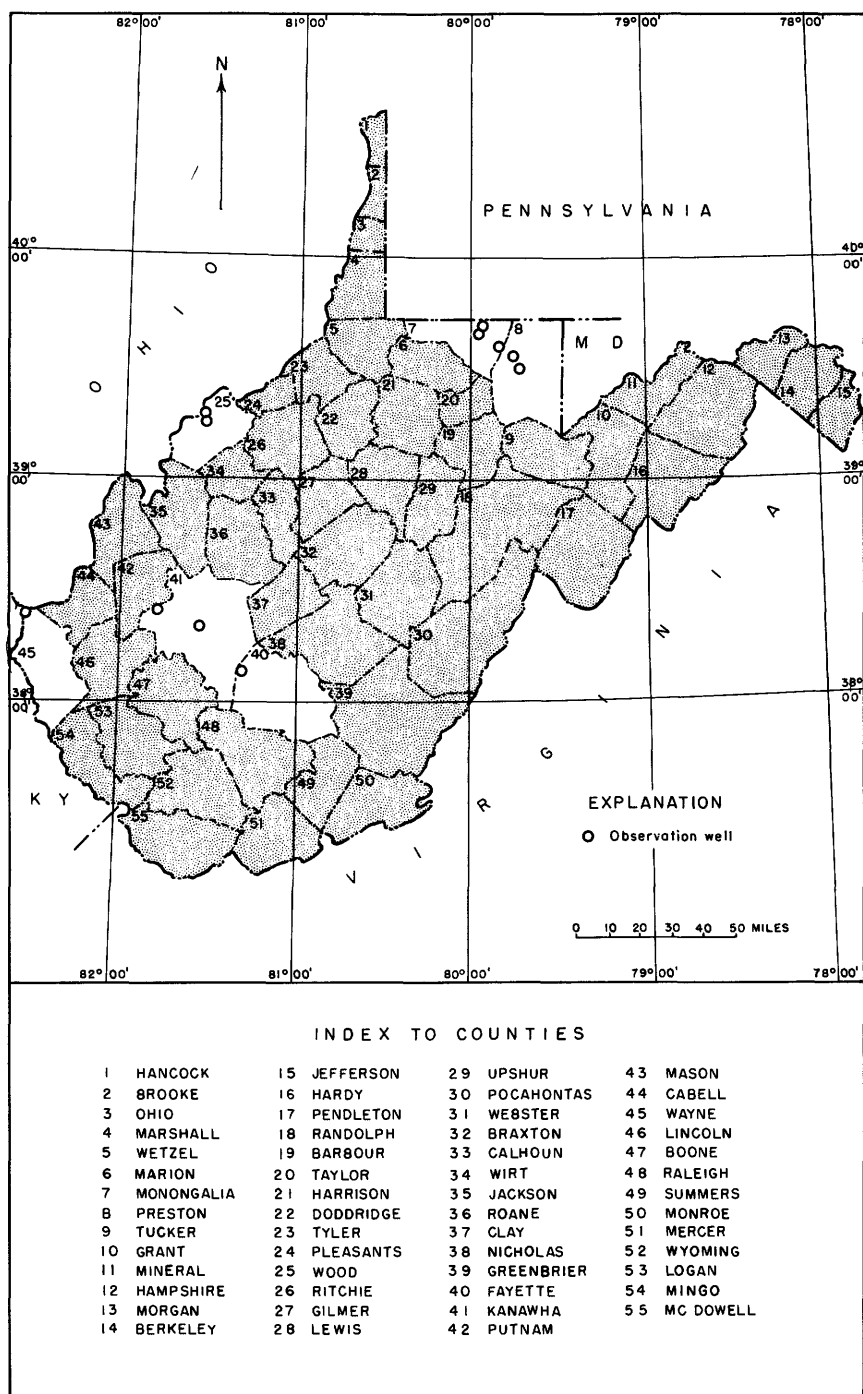


Figure 34.--Location of observation wells in West Virginia, 1951.

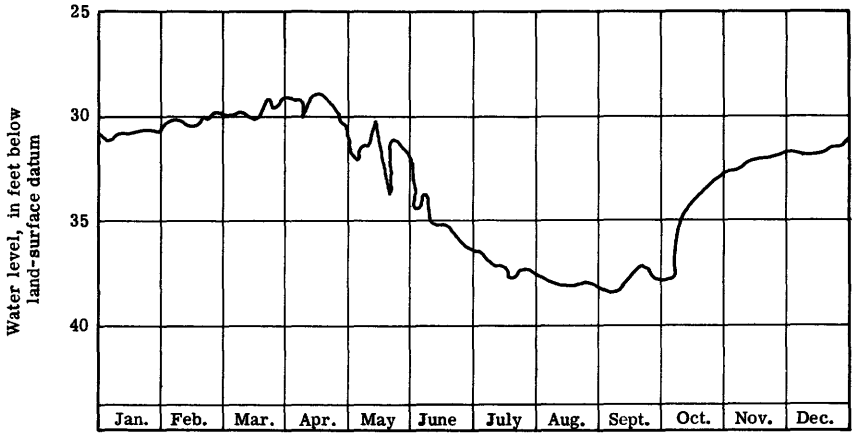


Figure 35. --Effect on the water level in well 40-5-14 in 1951 produced by nearby pumping for air conditioning.

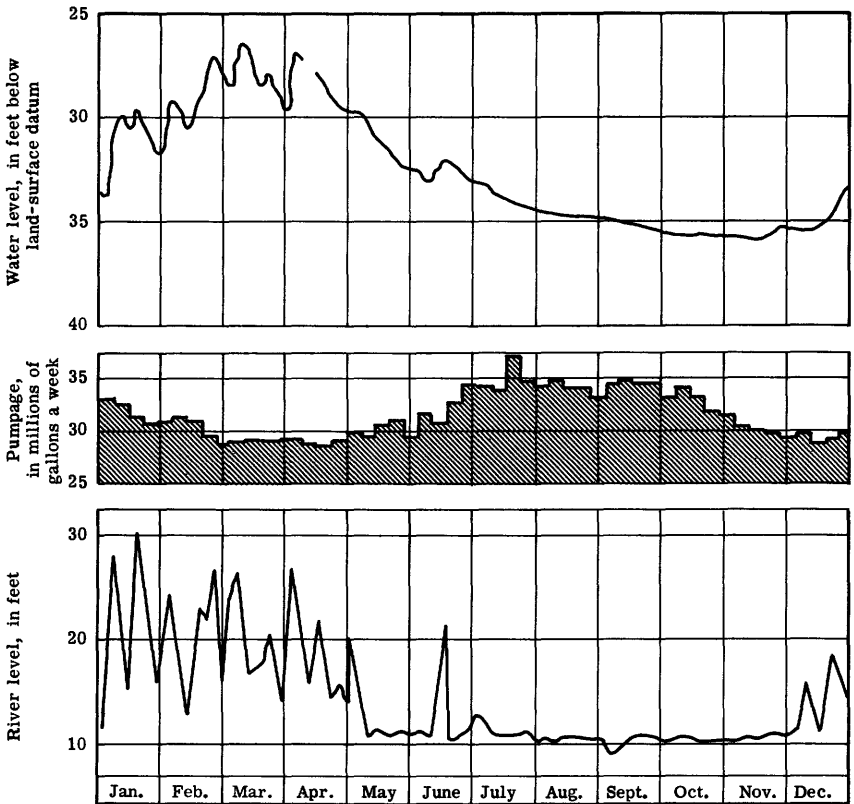


Figure 36. --Water level in well 27-3-22 in 1951, pumpage at the Parkersburg well field, and the stage of the Ohio River.

Montgomery, is about half a mile from wells pumped only during the summer months. The fluctuations of water levels in all five wells are primarily in response to variations in local precipitation. Generally, water levels in these wells were as high during the first half of 1951 as they were during the same period in 1950. During the dry period in July, August, September, and October water levels in the five wells declined, but in four of the wells the decline was only slightly more than the usual seasonal decline in water levels at these same wells during previous years. Well 9-6-46 is on a terrace of the Monongahela River, about 100 feet from the edge of the terrace, and the bottom of the well is about 100 feet above the river. The other wells are in fairly level valleys. During the dry period the water in storage in the aquifer supplying well 9-6-46 was lost through the terrace face, and because there was little or no rainfall to replace the water lost, the aquifer became dry. The well became obstructed in October and measurements were suspended temporarily. Consequently, it was not possible to determine just when the water level again rose in the aquifer. In the other four wells the water levels rose in November and at the close of the year had risen about to the level of the beginning of the year. The water level in well 9-6-27, in Morgantown, has been rising almost continuously since 1945 in response to a decrease in nearby pumping. Near the end of each year since 1945 it has reached a new high of record. However, the rate of rise is decreasing, and during 1951 the net rise was about 3 feet less than the net rise in 1950. The water level in well 50-1-5 at Kenova fluctuates in response to changes in the level of the nearby Ohio River.

Well-Numbering System

Observation wells in West Virginia are assigned three-part numbers indicating their location by county and magisterial district. For this purpose the counties have been numbered consecutively in a general southward direction, beginning with Hancock County, which is at the northernmost tip of the State; the magisterial districts within each county are numbered consecutively according to the same plan; then the wells within the district are numbered consecutively as they are surveyed. Thus, the number 9-6-27, assigned to a well in Morgantown, indicates that it is well 27 in district 6 (Morgan District) of county number 9 (Monongalia County).

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Fayette County

42-4-1. Baldwin Supply Co. 407 Fourth Ave., Montgomery. Lat. 38°10'57", long. 81°19'47". Drilled unused artesian well in Pottsville formation, diameter 6 inches, depth 95 feet. Land-surface datum is about 600 feet above msl. Highest water level 21.76 below lsd, Feb. 6, 1950; lowest 33.84 below lsd, July 26, 1948. Records available: 1942-51.

Jan. 2	22.75	Apr. 2	22.21	July 9	23.54	Oct. 15	24.26
8	22.90	9	22.67	16	26.20	22	23.34
15	22.47	16	22.65	23	26.60	29	24.72
22	22.37	23	22.98	30	25.48	Nov. 5	24.68
29	22.72	30	22.48	Aug. 6	26.00	12	23.75
Feb. 5	22.34	May 7	22.45	13	25.95	19	25.06
12	22.09	14	23.07	21	26.06	26	24.05
19	23.49	21	23.22	27	24.88	Dec. 3	24.40
26	22.07	June 4	25.02	Sept. 4	25.42	10	24.08
Mar. 5	22.75	11	23.30	10	24.98	17	25.25
12	22.66	18	22.84	17	24.57	24	23.62
19	22.22	25	25.47	24	24.39	31	23.76
26	22.86	July 2	26.80	Oct. 1	23.86		

Kanawha County

40-3-1. L. T. Smith. 40th St., Nitro. Lat. 38°25'40", long. 81°49'6". Dug unused water-table well in alluvium of Pleistocene age, diameter 24 inches, depth 17 feet, lined to 17 feet with tile. Land-surface datum is about 625 feet above msl. Highest water level 1.23 below lsd, Jan. 28, 1950; lowest 13.92 below lsd, Aug. 15, 1944. Records available: 1942-51.

Jan. 4	4.29	Apr. 6	2.38	July 12	7.01	Oct. 13	10.31
10	3.62	13	4.27	20	8.98	22	11.09
22	2.61	20	5.48	30	8.49	29	10.67
30	1.53	May 12	8.00	Aug. 7	8.89	Nov. 6	7.23
Feb. 15	3.29	24	6.27	13	9.90	13	7.59
21	1.44	30	4.39	Sept. 3	5.81	21	5.35
28	4.01	June 8	2.22	12	8.54	29	4.09
Mar. 8	4.29	16	3.04	18	5.99	Dec. 11	2.26
16	1.66	July 2	5.52	26	7.69	19	4.01
23	4.16	5	5.99	Oct. 6	9.66	31	2.19
30	2.21						

40-5-14. Coyle & Richardson Department Store. Dickinson and Lee Sts., Charleston. Lat. 38°20'53", long. 81°37'53". Drilled unused artesian well in Pottsville formation, diameter 8 inches, depth 208 feet, cased to 42 feet. Land-surface datum is about 575 feet above msl. Highest water level 28.82 below lsd, Apr. 15, 1951; lowest 43.44 below lsd, Sept. 6, 1945. Records available: 1941-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.96	30.33	30.18	29.24	31.66	34.34	34.49	37.02	38.45	34.91	32.65	31.67
2	30.94	29.94	30.17	29.18	31.87	34.54	36.26	37.70	36.46	35.18	32.58	31.71
3	30.86	29.72	30.07	29.29	33.26	32.81	36.51	37.72	36.56	35.93	32.40	31.74
4	31.14	39.76	30.05	29.31	32.19	34.68	34.73	37.92	38.23	36.06	32.41	31.67
5	31.09	30.12	30.17	29.39	31.55	33.86	35.12	35.74	38.13	37.75	32.58	31.77
6	30.99	30.12	30.17	29.39	31.26	33.84	34.93	37.78	38.24	37.87	32.50	31.72
7	30.88	30.28	30.16	29.36	30.66	33.73	36.34	37.73	38.50	35.30	32.37	31.80
8	30.96	30.28	30.07	29.29	31.26	34.64	34.51	37.12	36.80	34.97	32.43	31.80
9	30.96	30.29	30.12	30.19	31.19	35.27	36.35	38.07	35.70	34.06	32.43	31.56
10	30.91	30.29	30.12	29.55	31.28	33.50	36.79	38.24	37.65	33.91	32.22	31.60
11	30.91	30.22	29.99	29.21	31.45	35.03	36.36	38.13	37.96	33.76	32.13	31.57
12	30.96	30.24	29.86	29.14	30.70	34.98	37.10	35.80	38.28	33.81	32.07	31.61
13	30.95	30.38	29.84	29.10	30.21	33.79	37.00	37.89	38.17	33.78	32.06	31.77
14	30.78	30.50	29.91	29.00	31.44	33.70	37.20	38.07	37.98	34.25	31.99	31.76
15	30.65	30.44	29.97	28.91	31.57	34.62	34.95	37.36	37.36	34.24	31.96	31.71
16	30.75	30.30	30.09	29.20	31.49	35.03	36.73	38.14	35.94	33.60	31.95	31.71
17	30.69	30.20	30.21	29.29	33.06	33.17	37.14	38.29	35.71	33.54	31.93	31.56
18	30.62	30.16	30.21	29.29	33.58	35.47	36.61	38.10	35.77	33.54	31.98	31.56
19	30.67	30.15	29.96	29.38	33.82	35.48	37.11	36.05	35.27	33.58	31.98	31.55
20	30.66	30.15	29.58	29.55	32.07	35.80	37.21	37.83	34.86	33.56	31.91	31.46
21	30.68	30.24	29.25	29.55	32.59	35.94	37.29	38.12	37.22	33.43	31.87	31.46
22	30.73	30.21	29.28	29.39	32.28	36.09	35.51	37.37	36.00	33.47	31.77	31.44
23	30.62	29.88	29.35	29.56	32.40	36.22	37.20	38.11	35.64	33.47	31.88	31.20
24	30.69	29.84	29.61	29.80	32.52	34.15	37.26	38.09	35.54	33.56	31.86	31.18
25	30.69	29.78	29.61	30.39	32.54	36.17	37.77	37.79	35.25	33.57	31.86	31.15
26	30.69	29.86	29.71	30.48	32.63	36.38	37.63	36.01	35.26	33.52	31.81	31.40
27	30.64	30.07	29.68	30.45	31.62	36.11	37.60	37.61	37.81	33.05	31.80	31.40
28	30.64	30.10	29.68	30.31	32.23	36.51	37.68	38.12	35.85	.....	31.67	31.38
29	30.76		29.60	30.26	32.28	36.57	35.41	37.69	35.31	32.68	31.65	31.20
30	30.75		29.20	31.34	32.13	36.45	37.37	38.05	34.82	32.69	31.65	31.16
31	30.60		29.17		32.86		37.69	38.13		32.68		31.20

Monongalia County

9-6-27. T. J. Johnson. Foundry St., Morgantown. Lat. 39°37'37", long. 79°57'29". Drilled unused artesian well in sandstone of Pottsville formation, diameter 10 inches, depth 875 feet, cased to 425. Land-surface datum is about 840 feet above msl. Highest water level 88.42 below lsd, Dec. 26, 1951; lowest 166.41 below lsd, Sept. 10, 1945. Records available: 1941-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	90.59	Apr. 17	90.23	July 13	89.20	Oct. 16	89.04
Mar. 2	91.60	May 4	90.84	Aug. 17	89.88	Nov. 20	89.94
Apr. 9	88.79	June 19	90.44	Sept. 21	90.44	Dec. 26	88.42

9-6-45. Deckers Creek Sand Co. At Greer. Lat. 39°34'11", long. 79°50'23". Drilled unused artesian well in sandstone of Pocono formation, diameter 8 inches, depth 105 feet, cased to 48 feet. Land-surface datum is about 1,460 feet above msl. Highest water level 9.42 below lsd, Jan. 30, 1950; lowest 32.67 below lsd, Sept. 16, 1946. Records available: 1941-45, 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	10.26	Apr. 17	11.00	July 13	11.15	Oct. 16	11.18
Mar. 2	11.00	May 4	10.36	Aug. 17	11.55	Nov. 20	10.61
Apr. 9	11.03	June 19	10.75	Sept. 21	11.16	Dec. 26	9.63

9-6-46. W. L. Madire. 132 Prairie St., Morgantown. Lat. 39°37'32", long. 79°57'35". Dug unused water-table well in alluvium of Pleistocene age, diameter 30 inches, depth 16 feet, lined to 16 feet with stone. Land-surface datum is about 900 feet above msl. Highest water level 2.10 below lsd, Jan. 20, 1947; lowest Dry Aug. 17 and Sept. 21, 1951. Records available: 1943-45, 1947-51. Measurement discontinued.

9-6-46--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	4.23	Apr. 17	3.87	June 19	8.92	Aug. 17	(f)
Mar. 2	5.45	May 4	5.50	July 13	6.80	Sept. 21	(f)
Apr. 9	5.05						

f Dry.

Preston County

11-3-8. G. E. Lemmons. East Depot St., Masontown. Lat. 39°33'6", long. 79°47'43". Drilled domestic artesian well in sandstone of Pottsville formation, diameter 8 inches, depth 785 feet. Land-surface datum is about 1,770 feet above msl. Highest water level 7.70 below lsd, Mar. 14, 1947; lowest 22.43 below lsd, Oct. 25, 1949. Records available: 1942-51.

Jan. 10	15.89	Apr. 17	15.20	July 13	17.14	Oct. 18	20.28
Mar. 2	17.08	May 4	15.59	Aug. 17	19.84	Nov. 20	20.10
Apr. 9	15.96	June 19	16.82	Sept. 21	20.42	Dec. 26	14.84

11-3-14. Belfort Corp. At Reedsville. Lat. 39°30'22", long. 79°48'27". Drilled unused artesian well in sandstone of Conemaugh formation, diameter 4 inches, depth 17 feet. Land-surface datum is about 1,700 feet above msl. Highest water level 0.74 above lsd, Feb. 19, 1943; lowest 1.07 below lsd, Oct. 5, 1949. Records available: 1942-43, 1945-46, 1949-51.

Jan. 10	+0.03	May 4	+0.11	Sept. 21	-0.14	Nov. 20	-0.42
Mar. 2	+.02	June 19	+.23	Oct. 16	-.17	Dec. 26	-.55
Apr. 17	+.40	Aug. 17	-.19				

Wayne County

50-1-5. Ashland Oil & Refining Co. In Kenova. Lat. 38°24'24", long. 82°35'27". Drilled unused water-table well in gravel, diameter 6 inches, depth 73 feet. Land-surface datum is about 548 feet above msl. Highest water level 23.93 below lsd, Feb. 9, 1951; lowest 43.12 below lsd, Jan. 2, 1948. Records available: 1942-46, 1948-51.

Jan. 5	35.54	Apr. 6	27.22	June 29	35.14	Oct. 12	41.04
12	31.91	13	26.58	July 6	35.50	19	41.22
18	29.45	20	27.58	13	36.27	26	41.35
26	32.20	27	28.25	20	36.85	Nov. 2	41.52
Feb. 2	28.35	May 5	27.02	27	37.35	9	41.62
9	23.93	11	30.52	Aug. 3	37.79	16	41.66
16	25.81	18	30.12	10	38.29	23	41.77
23	26.77	25	29.97	Sept. 8	39.57	30	41.72
Mar. 2	28.72	June 1	30.79	14	40.30	Dec. 7	41.70
9	35.95	8	32.32	21	40.52	15	41.56
23	25.97	15	33.54	28	40.66	21	30.81
30	26.66	22	34.47	Oct. 5	40.87	28	37.27

Wood County

27-3-20. City of Parkersburg. In city well field in Parkersburg. Lat. 39°17'15", long. 81°33'37". Drilled unused water-table well in gravel, diameter 36 to 18 inches, depth 57 feet. screen at 47-57. Land-surface datum is about 603 feet above msl. Highest water level 17.15 below lsd, Mar. 7, 1945; lowest 43.43 below lsd, Dec. 1, 1947. Records available: 1943-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.02	.....	33.40	34.32	35.38	38.15	38.22	40.04	40.14	40.92	40.82	40.18
2	40.06	.....	33.56	33.14	34.77	38.06	38.19	40.05	40.17	40.97	40.75	40.25
3	40.07	.....	33.73	32.40	34.77	37.90	38.40	40.12	40.21	41.00	40.72	40.28
4	39.51	34.57	33.35	32.13	35.03	37.85	38.50	40.13	40.29	41.01	40.74	40.32
5	39.22	35.10	33.06	32.36	35.32	38.35	38.56	40.14	40.30	41.00	40.76	40.36
6	37.40	35.46	32.50	32.50	35.56	38.54	38.77	40.13	40.39	40.88	40.75	40.39
7	35.70	36.45	31.89	32.86	35.90	38.66	38.94	40.16	40.42	40.90	40.73	40.37
8	34.76	35.61	31.43	33.21	36.20	38.84	38.99	40.19	40.43	40.85	40.77	40.32
9	34.49	35.77	31.51	33.51	36.37	38.88	39.15	40.21	40.46	40.74	40.77	40.04
10	34.77	36.08	31.66	33.87	36.55	38.36	39.26	40.22	40.47	40.56	40.78	39.80
11	35.31	36.37	31.93	33.97	36.67	38.04	39.36	40.21	40.47	40.47	40.80	39.60
12	35.62	36.42	32.31	33.95	36.73	38.02	39.45	40.22	40.48	40.45	40.81	39.42
13	35.90	36.33	32.58	33.91	36.79	38.21	39.50	40.24	40.51	40.41	40.81	39.26
14	35.94	36.11	32.83	33.88	36.91	38.16	39.57	40.27	40.54	40.37	40.85	39.26
15	35.97	35.51	33.15	33.46	37.16	37.88	39.61	40.27	40.57	40.27	40.77	38.45

27-3-20--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	36.00	34.85	33.72	33.13	37.21	36.43	39.67	40.24	40.58	40.26	40.71	38.47
17	35.47	34.31	33.83	33.02	37.34	35.70	39.70	40.27	40.60	40.48	40.72	38.36
18	35.48	34.27	33.95	33.16	37.47	35.84	39.73	40.23	40.63	40.47	40.68	38.63
19	35.77	34.08	34.01	33.77	37.57	36.10	39.77	40.28	40.67	40.87	40.67	38.74
20	36.09	34.06	33.90	34.09	37.67	37.08	39.77	40.29	40.70	40.88	40.66	38.82
21	36.27	33.59	33.59	34.30	37.80	37.32	39.83	40.33	40.69	40.78	40.70	38.72
22	36.25	33.57	33.47	34.94	37.91	37.60	39.84	40.33	40.71	40.76	40.98	38.38
23	36.12	33.06	33.21	35.03	38.03	37.74	39.85	40.34	40.73	40.75	41.03	38.06
24	36.47	32.50	33.20	34.95	38.06	37.89	39.89	40.22	40.74	40.72	40.91	37.80
25	36.70	32.08	33.97	34.87	38.15	37.94	39.92	40.11	40.77	40.24	40.81	37.64
26	36.93	32.25	34.13	34.98	38.22	38.07	39.82	40.08	40.78	40.10	40.34	37.59
27	37.44	32.71	34.36	35.06	38.29	38.19	39.95	40.09	40.84	40.29	40.10	37.53
28	37.50	32.90	34.63	35.27	38.39	38.29	39.99	40.11	40.86	40.74	39.87	37.64
29	37.75		34.80	35.51	38.45	38.30	39.97	40.11	40.88	40.81	39.82	37.81
30	37.98		34.84	35.56	38.44	38.25	40.00	40.10	40.90	40.81	40.07	38.41
31	36.87		34.73		38.34		40.01	40.12		40.82		37.90

27-3-22. City of Parkersburg. In city well field in Parkersburg. Lat. 39°17'12", long. 81°33'32". Drilled unused water-table well in gravel, diameter 5 inches, depth 55 feet, cased to 55 feet. Land-surface datum is about 601 feet above msl. Highest water level 24.84 below lsd, June 5, 1946; lowest 37.75 below lsd, Feb. 12, 1948. Records available: 1943-44, 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.57	30.64	28.21	29.74	29.87	32.61	33.09	34.46	34.88	35.50	35.75	35.22
2	33.62	30.69	28.41	28.16	29.44	32.57	33.06	34.48	34.89	35.52	35.76	35.28
3	33.64	29.91	28.52	27.22	29.16	32.57	33.08	34.51	34.93	35.55	35.78	35.32
4	33.65	29.00	28.53	26.93	29.40	32.56	33.14	34.56	34.94	35.58	35.83	35.36
5	33.40	29.48	28.15	27.05	29.67	32.65	33.23	34.59	34.96	35.60	35.84	35.40
6	32.09	29.65	27.48	27.12	29.88	32.83	33.29	34.60	34.99	35.61	35.85	35.44
7	31.02	30.46	26.82	27.29	30.11	32.96	33.44	34.61	35.04	35.60	35.83	35.46
8	30.37	30.33	26.53	.....	30.41	33.09	33.45	34.63	35.06	35.62	35.86	35.48
9	30.08	30.04	26.43	.....	30.58	33.16	33.54	34.68	35.09	35.63	35.87	35.43
10	29.95	30.30	26.51	.....	30.73	33.09	33.62	34.71	35.10	35.63	35.88	35.33
11	30.38	30.71	26.68	.....	30.87	32.95	33.70	34.72	35.13	35.63	35.88	35.09
12	30.50	30.78	26.99	.....	30.94	32.85	33.76	34.74	35.13	35.64	35.88	34.90
13	30.63	30.78	27.42	.....	31.03	32.78	33.82	34.76	35.14	35.66	35.88	34.77
14	30.64	30.59	27.74	.....	31.09	32.81	33.87	34.77	35.16	35.66	35.90	34.72
15	30.65	30.12	27.96	.....	31.23	32.74	33.93	34.78	35.21	35.66	35.91	34.51
16	30.51	29.47	28.26	27.86	31.31	32.12	33.98	34.79	35.22	35.67	35.90	34.42
17	29.95	29.09	28.41	27.67	31.40	32.47	34.03	34.81	35.23	35.66	35.88	34.26
18	29.51	28.99	28.43	27.73	31.57	31.39	34.07	34.84	35.25	35.68	35.88	34.13
19	30.03	28.78	28.54	28.15	31.62	31.36	34.11	34.85	35.27	35.69	35.87	34.21
20	30.15	28.76	28.55	28.57	31.73	31.81	34.15	34.87	35.31	35.69	35.86	34.21
21	30.60	28.56	28.26	28.71	31.85	32.20	34.21	34.89	35.32	35.70	35.86	34.24
22	30.60	28.57	27.99	29.05	31.94	32.40	34.22	34.92	35.32	35.71	35.86	34.24
23	30.42	28.10	27.81	29.40	32.06	32.56	34.25	34.93	35.36	35.71	35.86	33.89
24	30.61	27.63	28.14	29.40	32.15	32.67	34.27	34.93	35.36	35.74	35.88	33.59
25	30.85	27.17	28.35	29.27	32.22	32.78	34.31	34.91	35.39	35.70	35.83	33.40
26	31.03	27.15	28.60	29.35	32.27	32.86	34.32	34.86	35.40	35.44	35.57	33.33
27	31.35	27.60	28.71	29.41	32.37	32.95	34.32	34.84	35.42	35.42	35.45	33.33
28	31.58	27.84	28.93	29.51	32.42	33.05	34.31	34.85	35.46	35.51	35.23	33.24
29	31.75		29.10	29.72	32.57	33.09	34.37	34.86	35.48	35.59	35.11	33.16
30	31.79		29.26	29.87	32.59	33.09	34.41	34.87	35.48	35.64	35.09	33.31
31	31.27		29.26		32.61		34.42	34.87		35.70		33.34