

Water Levels and Artesian Pressures in Observation Wells in the United States 1953

Part 2. Southeastern States

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

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UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURVEY

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PREFACE

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CONTENTS

	Page
Introduction, by A. N. Sayre	1
Alabama, by G. W. Swindel, Jr. and D. M. O'Rear	3
Scope of water-level program	3
Precipitation	3
Interpretation of water-level fluctuations	3
Acknowledgments.	8
Well-numbering system	8
Well descriptions and water-level measurements.	8
Florida, by Eugene Derragon and C. B. Sherwood, Jr.	19
Scope of water-level program	19
Precipitation	19
Pumpage	19
Occurrence of ground water	24
Interpretation of water-level fluctuations	24
Acknowledgments.	27
Well-numbering system	27
Well descriptions and water-level measurements	27
Georgia, by Robert L. Wait and Lucy H. Cunningham	112
Scope of water-level program	112
Precipitation	112
Pumpage	112
Interpretation of water-level fluctuations	112
Acknowledgments.	116
Well-numbering system	116
Well descriptions and water-level measurements.	116
Kentucky, by M. I. Rorabaugh and E. A. Bell	129
Scope of water-level program	129
Precipitation	129
Pumpage	129
Interpretation of water-level fluctuations	129
Well-numbering system	141
Well descriptions and water-level measurements.	141
Maryland, by Claire A. Richardson	179
Scope of water-level program	179
Precipitation	179
Interpretation of water-level fluctuations	179
Well-numbering system	182
Well descriptions and water-level measurements.	182
Eastern Shore, by D. H. Boggess.	196
Scope of water-level program	196
Precipitation.	196
Pumpage	196
Interpretation of water-level fluctuations.	196
Well-numbering system	201
Well descriptions and water-level measurements	201
North Carolina, by H. E. LeGrand and Marjorie M. Streicher.	211
Scope of water-level program	211
Interpretation of water-level fluctuations	211
Well-numbering system	211
Well descriptions and water-level measurements.	213
South Carolina, by George E. Siple	222
Scope of water-level program	222
Precipitation	222
Interpretation of water-level fluctuations	222
Well-numbering system	225
Well descriptions and water-level measurements.	225
Tennessee, by J. H. Criner, Jr., and C. R. Lanphere	229
Scope of water-level program	229
Precipitation	229
Pumpage	229
Interpretation of water-level fluctuations	235
Well-numbering system	235
Well descriptions and water-level measurements.	235

	Page
Virginia, by Rodney Hart and Allen Sinnott	260
Scope of water-level program	260
Interpretation of water-level fluctuations	260
Well-numbering system	263
Well descriptions and water level-measurements	263
West Virginia, by G. D. Graeff	267
Scope of water-level program	267
Precipitation	267
Pumpage	267
Interpretation of water-level fluctuations	267
Well-numbering system	270
Well descriptions and water-level measurements	270

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 1953.	2
2. Geologic provinces and location of observation wells in Alabama, 1953.	4
3. Water level in well Bal-1, monthly pumpage at Foley, and precipitation at Robertsedale, Ala., 1950-53.	6
4. Water level in well Dis-2, daily pumpage during each month, and precipitation at Selma, Ala., 1950-53.	7
5. Location of observation wells in northern Florida, 1953.	20
6. Location of observation wells in northeastern Florida, 1953	21
7. Location of observation wells in western Florida, 1953	21
8. Location of observation wells in southern Florida, 1953	22
9. Location of observation wells in eastern Dade County, Fla., 1953	23
10. Average monthly water level in well G-72, Dade County, Fla., 1953	25
11. Average monthly water level in well S-196, Dade County, Fla., 1953	25
12. Average monthly water level in well L-246, Lee County, Fla., 1953	26
13. Average monthly water level in well PB-88, Palm Beach County, Fla., 1953.	26
14. Location of observation wells in northern Georgia, 1953	113
15. Location of observation wells in southwestern Georgia, 1953	114
16. Location of observation wells in southeastern Georgia, 1953	115
17. Physiographic units and location of observation wells in Kentucky, 1953	130
18. Location of observation wells in the Louisville, Ky., area, 1953	131
19. Pumpage, 1937-53, and changes in storage, 1943-53, in the Louisville, Ky., area.	132
20. Water levels in wells representative of various areas in Kentucky, 1953.	133
21. Water-level fluctuations in wells in the Ohio River flood plain, Kentucky, 1953.	135
22. Water level and precipitation in downtown area and in unpumped area south of Louisville, Ky., 1953	136
23. Water level and pumpage in west-central part of Louisville, Ky., area, 1953.	136
24. Water level and pumpage in south distillery area, Louisville, Ky., 1937-53.	137
25. Water level and pumpage in Rubbertown area, southwest of Louisville, Ky., 1942-53	137
26. Contours of water level in Louisville, Ky., area, December 1953	138
27. Changes in water level in the Louisville, Ky., area, 1952-53.	139
28. Changes in water level in the Louisville, Ky., area, 1948-53.	140
29. Location of observation wells in western and central Maryland, 1953.	180
30. Water levels in wells Car-Bf 1 and Mont-Be 1 and precipitation at Westminster, Md., 1949-53	181
31. Location of observation wells on Eastern Shore, Md., 1953	197
32. Water levels in 5 wells and pumpage in the "400-foot" aquifer at Cambridge, Md., 1951-53.	198
33. Water level in well Wi-Ce 13, pumpage, and precipitation at Salisbury, Md., 1947-53.	199
34. Water level in well Wi-Cf 3, average temperature, and precipitation at Salisbury Airport, Md., 1947-53	200
35. Location of observation wells in North Carolina, 1953.	212
36. Location of observation wells in South Carolina, 1953.	223
37. Range of water levels in 1953 and range of water levels during period of record in selected observation wells in South Carolina	224
38. Location of observation wells in western Tennessee, 1953	230
39. Location of observation wells in eastern Tennessee, 1953.	231

Figure 40.	Location of observation wells in Shelby County, Tenn., 1953	Page 232
41.	Water levels in wells in the "500-foot" sand in the Memphis, Tenn., area, 1940-53	233
42.	Water levels in wells in the "1,400-foot" sand in the Memphis, Tenn., area	234
43.	Location of observation wells in Virginia, 1953	261
44.	Water levels in 5 wells in northern Virginia and precipitation at Washington, D. C., 1953.	262
45.	Location of observation wells in West Virginia, 1953	268
46.	Water level in well 4-5-14, Charleston, W. Va., 1953	269
47.	Water level in well 27-3-22, municipal average daily pumpage, and Ohio River stage, Parkersburg, W. Va.	269

WATER LEVELS AND ARTESIAN PRESSURES
IN OBSERVATION WELLS IN THE UNITED STATES
IN 1953

Part 2. SOUTHEASTERN STATES

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 annual 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 1953.

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
1952	1221	1222	1223	1224	1225	1226
1953	1265	1266	1267	1268	1269	1270

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 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 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 according to 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.

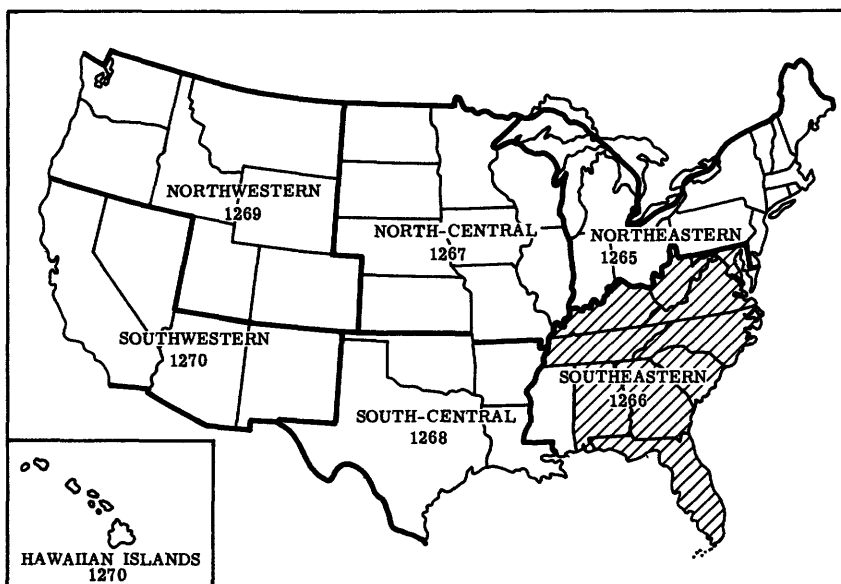


Figure 1. --Outline map of the United States showing areas included in each of the six water supply papers on water levels and artesian pressures in observation wells in 1953. The shaded area indicates the States included in this volume.

Penn Livingston had general charge of the nationwide observation-well program; Verda M. Dougherty assembled and edited the reports.

ALABAMA

By G. W. Swindel, Jr., and D. M. O'Rear

Scope of Water-Level Program

The observation-well program in Alabama, begun in 1940 as a part of ground-water investigations in cooperation with the Geological Survey of Alabama, was continued in 1953 with additional cooperation with the Waterworks Board, city of Montgomery; the city of Huntsville; and the County Board of Revenue, Marengo County. Water-level studies were begun in the ore-mining section of Jefferson County as a phase of a mining hydrology project. Water-level data were collected from 19 wells, of which 13 are equipped with recording gages, 1 is measured weekly, and 5 are measured monthly. Figure 2 shows the location of projects and observation wells in the State. Ground-water data were furnished for 51 municipal, 47 industrial, 63 private, 10 Federal, and 10 State requests during 1953. Detailed ground-water investigations were continued in Jefferson, Madison, Marengo, Tuscaloosa, Baldwin, and Wilcox Counties. Plans were completed for a detailed study in the Sylacauga area, Talladega County. A detailed report on the ground-water studies in Monroe County and the reconnaissance report on the Piedmont area are in course of preparation. In addition, four papers on various phases of the ground-water investigations in Alabama were presented at the annual meeting of the Alabama Academy of Science in March, and will be published in the Journal of the Academy. They are as follows: "Water-level fluctuations in observation wells in Alabama caused by the Kamchatka earthquake on Nov. 4, 1952," by P. E. LaMoreaux; "Correlation of geologic structure with ground-water availability in the Huntsville area, Alabama," by H. T. Downing, Jr.; "Use of a water-level contour map in selecting test-hole sites in the Huntsville area, Alabama," by G. T. Malmberg; and "Construction of a geologic fence diagram for the Monroeville, Ala., project," by J. B. Ivey.

Precipitation

Precipitation, mostly rainfall, is reflected in the fluctuation of water levels in water-table wells within a few days or a few hours in some wells. The most rain falls in the late winter and early spring months, a period of maximum recharge to the ground-water reservoir. Intermittent heavy rains usually fall during July, August, and September, owing to the influence of the Gulf of Mexico. These rains are sometimes torrential and contribute some recharge to the ground-water reservoir, although a large part of the water runs off in streams. Records from the U. S. Weather Bureau show that, except for March and June, rainfall was normal during the first 6 months of 1953. Rainfall was above normal in July and well distributed throughout the State, but during August and November most of the State suffered a severe drought. The most rainfall in 70 years of record fell in December with an average of 10.4 inches for the State, 5.37 inches above normal. Temperatures over 100°F. were recorded in the State during 5 consecutive months, May through September. The lowest temperature, +8°F., was recorded at Scottsboro on December 18. Temperatures ranged from 2.4° below normal to 3.3° above normal throughout the year.

Pumpage

Pumpage records by the Selma Waterworks during 1953 show an average of 2.7 million gallons per day. The water level in the observation well at Selma has declined gradually for the past 5 years. At Foley, Baldwin County, observation well Bal-1 was correlated with pumpage in the wells of the Riviera Utilities Company during 1953. Normal municipal use at Foley averaged 7.8 million gallons per month. Maximum pumpage is during potato-washing season in May and June and ranges from 14 to 15.5 million gallons per month. Total pumpage in the Montgomery area is recorded for each pumping station, but no records are kept for individual wells. During 1953 an average of 5 to 10 mgd was pumped through the Day Street station. The Court Street station pumped an average of 5 mgd. Declining water levels in the area prompted the detailed ground-water study to evaluate the present well fields and to collect data for locating new sources of supply.

Interpretation of Water-Level Fluctuations

Water-level fluctuations can be correlated with recharge or lack of recharge from rainfall withdrawal by pumping, natural flows from springs and flowing wells, barometric influence, surface loading, earth and ocean tides, and occasionally earthquakes. Rainfall is reflected in shallow water-table wells and springs by rising water levels or increased spring flows immediately

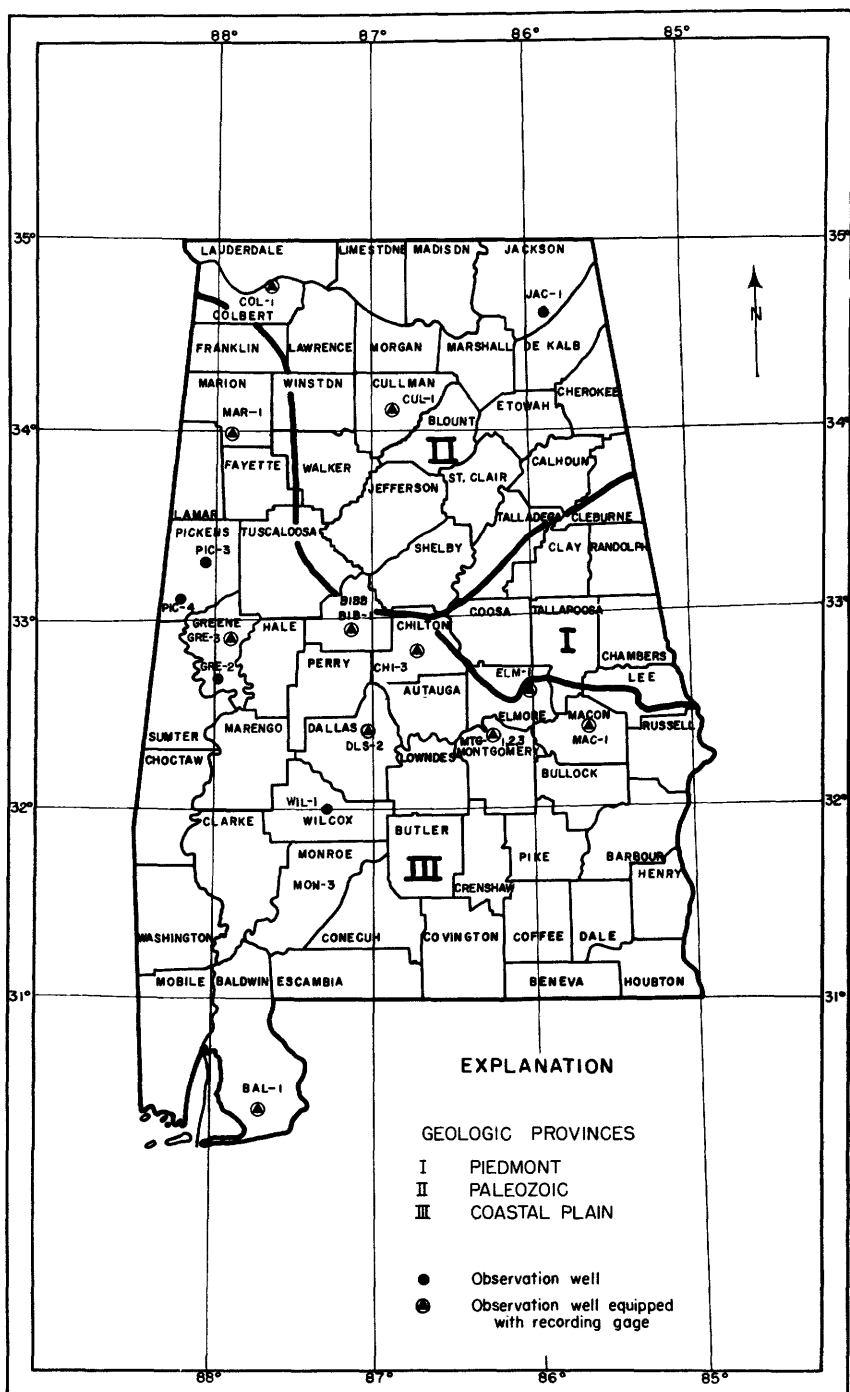


Figure 2. --Geologic provinces and location of observation wells in Alabama, 1953.

following precipitation and by decline in water levels during periods of no rainfall. In deep wells the effect of rainfall on the water level usually lags days or weeks after precipitation. Excessive decline in water level is being experienced in some sections of Alabama because of concentration of wells and the uncontrolled flow of wells in certain artesian basin areas. Many small communities and private well owners using water-table wells suffered water shortages during the drought of August through November 1953. Graphs from recording gages on some artesian nonflowing wells show the barometric influence on water levels. The fluctuations are usually small, rarely exceeding 0.1 foot in amplitude in a daily cycle. In the Guin and Huntsville areas, water-level fluctuations in wells have been correlated with earthquakes. Water levels in these wells of known sensitivity to earthquakes are correlated closely with notices of Preliminary Determination of Epicenter, published by the U. S. Department of Commerce.

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. Wells in the area yield generally less than 10, but rarely more than 50 gpm. Only about 10 percent of the municipalities in the Piedmont area use ground water, but most of the private farm supplies are taken from wells and springs. In some areas, however, large quantities are developed from limestones, marbles, and dolomites. During 1953 a municipal well drilled for the city of Sylacauga in the Sylacauga marble member was pumped 900 gpm. In addition, two industrial wells in Sylacauga have reported yields of over 200 gpm. Water levels in well Elm-1, at Eclectic, fluctuate mainly from recharge and barometric influences. The water level in the well was fairly stable until February when it rose gradually, fluctuating only slightly until May. The level declined until November when the low for the year was recorded, and then rose gradually from November to the end of the year. Slight fluctuations, probably barometric, have an average amplitude of 0.1 foot and complete a cycle every 16 hours.

In northern Alabama, important sources of ground water are the sandstone, limestone, chert, and dolomite formations of Paleozoic age. Ground water occurring in these rocks along bedding planes, joints, fractures, and in solution channels, furnishes 60 percent of the municipal, industrial, and all private water supplies. Col-1 is an index well in the Sheffield-Muscle Shoals area of the Tennessee River drainage basin, an area of rapid industrial expansion requiring large amounts of water. Levels in this well rose to the high for the year in February. The level fluctuated only slightly from nearby pumping and rainfall and declined gradually until the low for the year was recorded in December. Water-level fluctuations in water-table well Cul-1, an index well on the Tennessee River-Warrior River drainage divide, can be correlated with rainfall and seasonal pumping in the area. The water level rose to the high for the year in March, then gradually declined until the low for the year was recorded in November. The water level rose gradually the rest of the year. The water level is influenced by pumping from a well at a nearby cotton oil mill during the late fall and early spring. The water level in water-table well Jac-1, established as an index well by TVA in the Scottsboro area of the Tennessee River drainage basin, can be correlated closely with rainfall. The high water level occurred in late winter and the lows were recorded in late fall. Rainfall and barometric influences are reflected in artesian well Mar-1 at Guin. This well recorded the Kamchatka earthquake in November 1952. The water level rose gradually, fluctuated slightly until the high was recorded in May, then declined until November, after which it rose steadily for the remainder of the year.

In the southern half of Alabama, in the Coastal Plain area, water-bearing sand, gravel, and porous limestone are interbedded with chalk, marl, and impervious limestone. These gently south-dipping water-bearing beds supply water for most municipal, industrial, and all private supplies in the area. Artesian wells, both flowing and nonflowing, are common and are utilized by many farmers, municipalities, and industries. Many of these wells have natural artesian flows and are allowed to flow unchecked whether in use or not. More and more flowing wells are being developed owing to simple construction and ease of operation, resulting in general declines of water level in some of the artesian basins. In addition to the flow of wells, concentrated pumping has caused a general decline in water level in some places. This has been noted in Selma, Montgomery, Mobile, and possibly Dothan. Artesian well Bal-1 is an index well in the municipal well field at Foley. Daily fluctuations from pumpage are recorded, but no fluctuations can be correlated with either daily rainfall or barometric measurements. The greatest withdrawal is during the potato-washing season in May and June. Owing to pumping, the water level fluctuated from the low for the year on May 28 to the high recorded on December 5. A hydrograph (see fig. 3) shows the correlation between pumping and the water level in the well field. Water levels in semiartesian well Bib-1 at Centerville can be correlated closely with rainfall and to some degree with barometric changes. The highest water levels were recorded in February and the lowest in November. Chi-3 at Clanton is an index well near the contact of the sands and gravels of the Coastal Plain with the metamorphic and igneous rocks of the Piedmont area. Rainfall and barometric influences are reflected in the water level in well Chi-3 within 24 hours. High water levels occur in early spring and the lows in late fall.

The water level in artesian well Dis-2 in the city of Selma well field reflects the heavy pumping in that area. A hydrograph (see fig. 4) shows the gradual declining water level in the area and the relationship between water level, pumpage, and precipitation. Pumpage ranges from 1.5 mgd in February to 3.5 mgd in August and September. Owing to changes in the rate of pumping, the water level is the highest in late winter and early spring and lowest in midsummer.

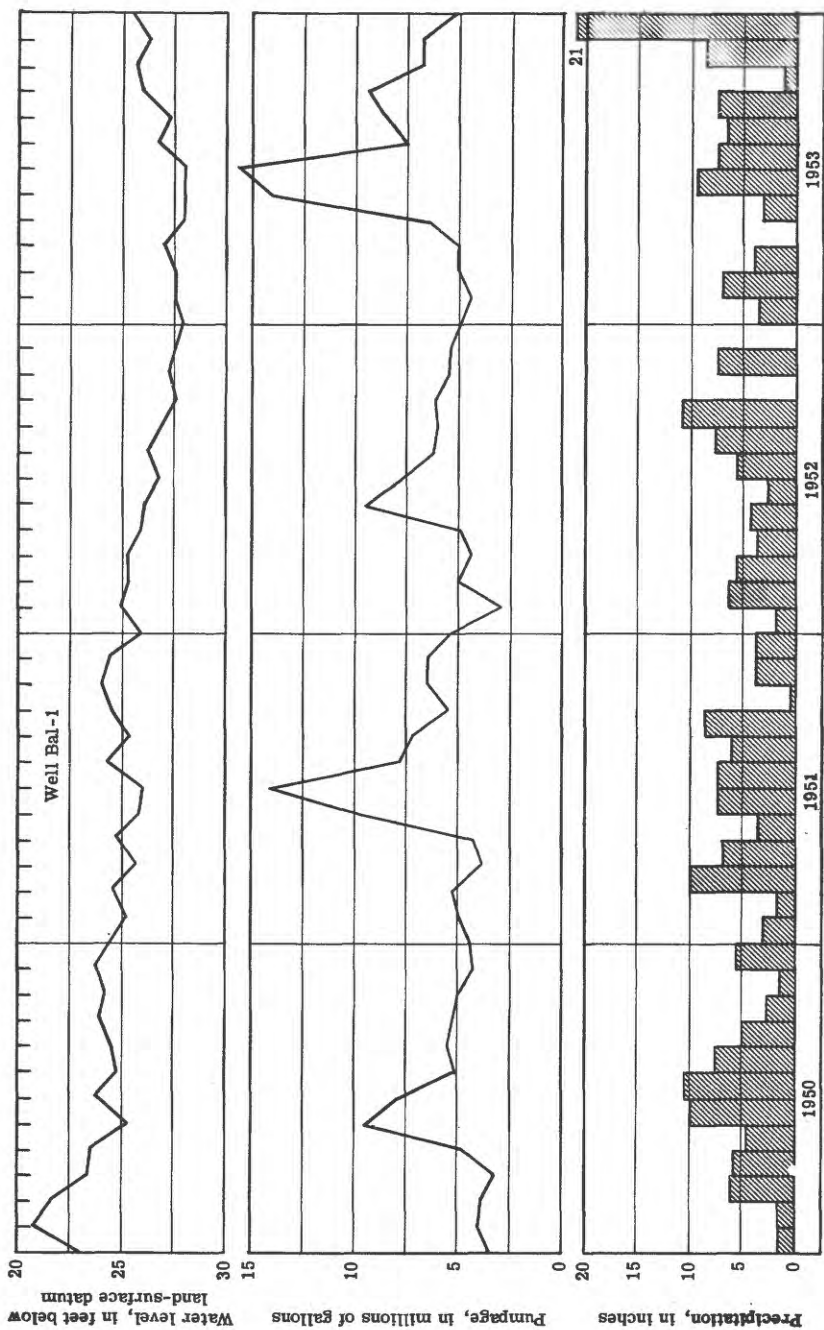


Figure 3.--Water level in well Bal-1, monthly pumpage at Foley, and precipitation at Robertsdale, Ala., 1950-53.

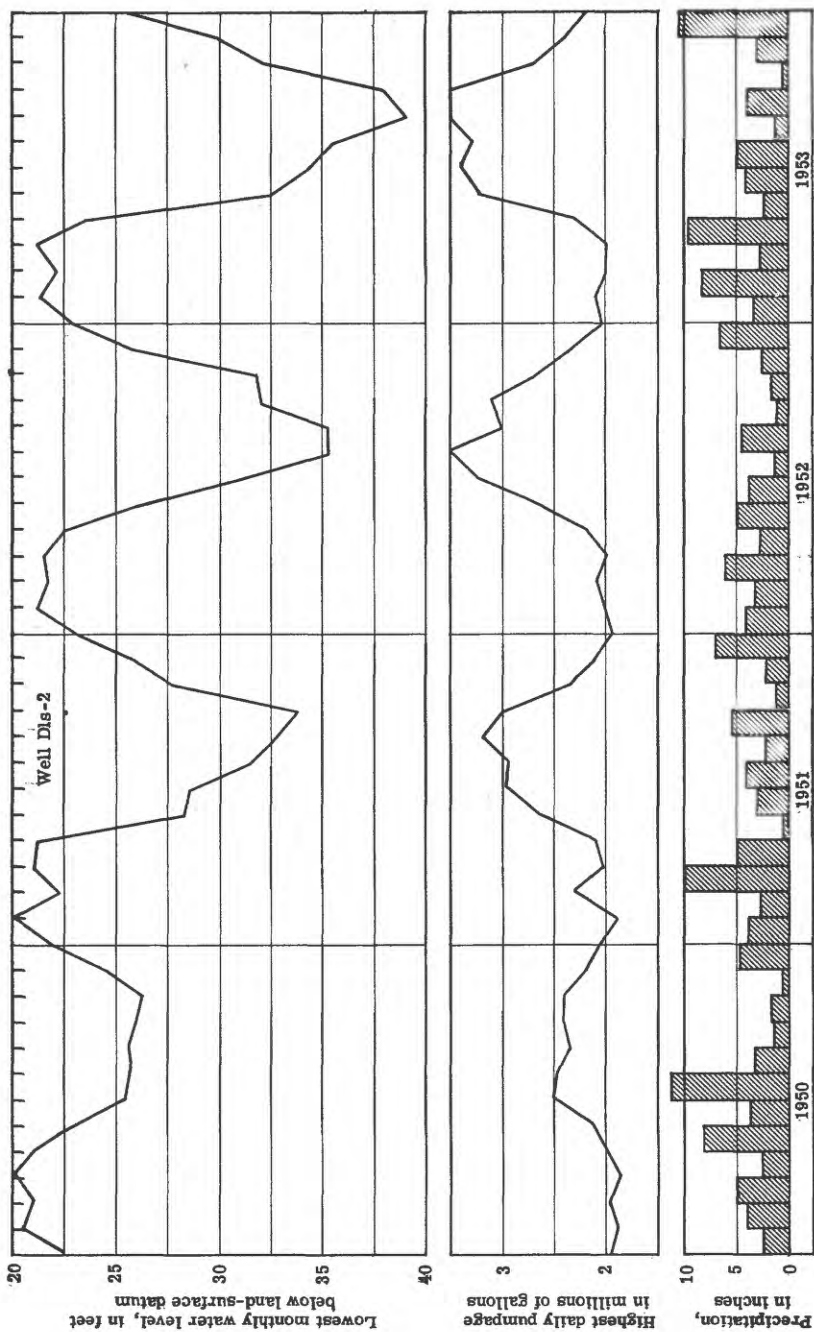


Figure 4. --Water level in well Dls-2, daily pumpage during each month, and monthly precipitation at Selma, Ala., 1950-53.

and early fall. Artesian wells Gre-2 and Gre-3 are index wells in the Tombigbee River artesian basin. Fluctuation of the water levels in both wells is seasonal and ranges from 1.5 feet in Gre-3 to 1.8 feet in Gre-2. Gre-3 is in the city of Eutaw well field but pumping is not observed in the water-level fluctuation. The water level in artesian well Mac-1 at Tuskegee, developed in sands of the Tuscaloosa formation in eastern Alabama, fluctuates mainly from pumping in the area. Seasonal water levels are lowest in late winter and highest in early summer. Pumping is practically continuous in the area, and major fluctuations result from occasional stopping and starting of pumps. Water levels can be correlated closely with rainfall and barometric influence in water-table well Mon-3 at Monroeville. This is an index well in the shallow sand and gravel of Miocene and Pliocene age and limestone of Oligocene and Eocene age. From a low in January water levels rose, fluctuated slightly to a high in July, then declined slowly for the remainder of the year. Artesian wells Mtg-1, Mtg-2, and Mtg-3 are index wells in the heavily pumped well fields at Montgomery. Precipitation causes the seasonal water-level trends in these wells, modified by detailed fluctuations of the water level in response to pumping. Mtg-1, in the old northeast well field, is developed in sands of the Tuscaloosa formation; well Mtg-2, in the west well field, is developed in sands of both the Eutaw and Tuscaloosa formations; and well Mtg-3, in the west well field, is developed in sands of the Eutaw formation. During the spring the water levels in these wells fluctuate only slightly until the latter part of March, then decline gradually until lows are reached the latter part of August. The water level then rises slowly and fluctuates slightly until the end of the year. Semiartesian well Pic-3 in the Reform area has a seasonal water-level fluctuation, the high occurring in late winter and spring and the lows in the summer and early fall. The water level in artesian well Pic-4 in the Aliceville area in the Tombigbee River artesian basin fluctuates seasonally. This well flows during the late fall and spring; however, pumping in nearby wells in the summer for a swimming pool causes a lowering of the water level, and sometimes a cessation of flow. Water levels are measured periodically in artesian well Wil-1 at Camden, an index well developed in sands of the Ripley formation. The high water levels in the Camden well occur during the early spring and late fall, the lows during the summer.

Acknowledgments

Acknowledgment is made of the assistance of Mr. G. W. Cowham, Superintendent of the Waterworks, city of Montgomery, for supplying pumpage data on the Montgomery well fields. Messrs. J. O. Rhodes, Superintendent, Selma Waterworks, and Guy E. McAiley, Superintendent, Riviera Utilities, Foley, compiled pumpage data in addition to their regular duties as gage observers.

Well-Numbering System

Wells are listed numerically within each county. The letters of the prefix are derived from the county names. For instance, well 3 in Monroe County is Mon-3, 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. 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 below lsd, Mar. 31, 1951; lowest 8.43 below lsd, Nov. 25, 1952. Records available: 1948-52. Measurement discontinued.

Baldwin County

Bal-1. City of Foley. In waterworks lot. 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 to 12 inches, depth 146 feet. Land-surface datum is 76.0 feet above msl. Highest water level 16.00 below lsd, Sept. 26, 1949; lowest 28.0 below lsd, May 28-29, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.3	27.5	27.1	26.8	27.6	27.7	26.6	....	26.1	25.2	....	24.1
2	27.3	27.5	....	26.7	26.8	27.95	26.6	....	26.1	25.2	....	24.1
3	27.3	27.5	27.1	....	25.6	27.9	26.65	....	26.0	25.2	25.1	24.1
4	27.3	27.5	27.0	26.7	27.5	27.9	26.6	26.5	26.0	25.2	25.1	25.5
5	27.3	27.5	27.1	....	27.5	27.85	26.6	27.3	26.0	25.0	25.1	24.0
6	....	27.5	27.1	26.7	26.5	27.0	26.7	27.2	25.9	25.1	25.1	24.1
7	....	27.5	....	26.7	26.5	26.8	26.8	26.6	25.9	....	25.1	25.2
8	....	27.6	....	26.7	27.5	27.7	26.8	26.5	25.7	25.1	25.05	25.1
9	....	27.5	27.0	26.7	27.4	27.8	26.8	26.4	25.7	25.1	25.1	25.2
10	....	27.5	26.9	26.7	26.5	27.7	26.8	26.5	25.7	25.3	25.1	25.2

ALABAMA, BIBB COUNTY

9

Ba1-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	27.4	26.9	26.6	26.8	27.1	26.8	26.5	25.7	25.1	25.0	25.0
12	....	27.5	26.9	26.6	27.7	27.5	26.6	26.4	25.7	25.3	25.1	25.0
13	....	27.5	26.9	26.7	27.8	26.8	26.7	26.4	25.6	25.0	25.1	24.9
14	....	27.4	26.9	....	27.8	26.7	26.7	26.4	25.65	25.8	25.1	24.9
15	....	27.5	26.9	....	28.0	26.8	26.7	26.3	25.65	24.95	25.1	24.9
16	....	27.5	26.9	....	27.4	26.8	26.7	26.3	25.7	25.0	25.2	24.6
17	....	27.5	26.8	....	26.7	26.7	26.7	26.2	25.6	25.0	25.2	24.6
18	....	27.4	26.9	....	27.6	26.8	26.7	26.4	25.7	24.9	25.2	24.5
19	26.3	27.3	26.9	....	27.7	27.0	26.6	26.4	25.6	25.0	25.2	24.3
20	27.3	27.3	26.9	27.9	27.8	27.2	26.6	26.4	25.5	24.9	25.2	24.3
21	27.4	27.4	....	27.6	27.8	26.7	26.6	26.4	25.7	24.9	26.3	24.3
22	27.4	27.3	....	27.3	27.8	26.8	26.6	26.3	25.7	24.9	25.2	24.3
23	27.4	27.3	26.8	27.0	27.5	26.8	26.65	26.3	25.7	24.9	25.3	24.3
24	27.5	27.2	26.8	26.9	26.7	26.8	26.6	26.3	25.6	24.9	25.2	24.3
25	27.4	27.2	26.8	27.2	27.7	26.8	26.6	26.2	26.2	24.9	25.2	24.2
26	27.4	27.2	26.8	26.6	27.8	26.7	26.5	26.1	25.6	25.1	25.2	24.1
27	27.4	26.2	26.7	26.7	27.9	26.7	26.5	26.1	25.6	25.1	25.1	24.0
28	27.5	27.2	26.7	27.4	28.0	26.6	26.6	26.1	25.2	25.1	25.2	23.95
29	27.5	....	26.7	27.5	28.0	26.6	26.6	26.1	25.2	....	25.1	....
30	27.5	....	26.8	27.5	27.7	26.6	....	26.0	25.2	....	25.7	....
31	27.5	....	26.8	....	26.8	....	....	26.2	....	....	....	....

Bibb County

Bib-1. Centerville Gin and Cotton Co. 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 below lsd, Mar. 31, 1951; lowest 31.79 below lsd, Sept. 28, 1948. Records available: 1948-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.7	25.1	26.8	25.0	27.8	28.8	....	30.5	30.4	30.9	....
2	27.8	25.5	26.9	25.5	27.4	28.8	....	30.5	30.4	30.9	....
3	28.0	25.6	27.0	25.7	28.0	28.8	....	30.5	30.4	30.9	30.4
4	28.1	25.8	27.0	25.5	28.1	28.9	....	30.5	30.4	30.9	30.1
5	28.1	25.9	27.0	24.8	28.1	29.0	....	30.5	30.4	30.9	29.6
6	28.1	26.0	26.95	24.5	28.2	29.0	....	30.6	30.5	31.0	29.4
7	28.2	26.1	27.0	24.2	28.3	29.1	29.9	30.6	30.5	31.0	29.35
8	28.3	26.3	27.1	24.3	28.4	29.2	29.9	30.6	30.5	31.0	29.35
9	28.3	26.5	27.1	24.8	28.4	29.3	29.9	30.7	30.5	31.0	27.9
10	28.3	26.5	26.7	25.1	28.4	29.3	29.9	30.7	30.5	31.0	27.2
11	28.3	26.6	26.2	25.5	28.4	29.4	30.0	30.7	30.5	31.0	27.2
12	28.3	26.6	25.2	25.7	28.4	29.4	30.0	30.7	30.6	31.0	26.4
13	28.2	25.9	25.4	25.9	28.5	29.5	30.0	30.8	30.6	31.0	26.5
14	28.1	25.9	25.8	26.0	28.5	29.6	30.1	30.8	30.6	31.0	26.7
15	27.2	26.0	26.2	26.0	28.6	29.6	30.1	30.8	30.6	31.0	27.1
16	26.8	26.0	26.4	26.1	28.6	29.4	30.1	30.8	30.7	31.0	27.45
17	27.0	26.0	26.6	26.2	28.7	29.2	30.1	30.9	30.7	31.0	27.7
18	27.1	26.0	26.7	26.3	28.8	29.1	30.1	30.9	30.7	31.0	27.8
19	27.0	25.9	26.8	26.4	28.9	29.1	30.1	30.9	30.7	31.0	27.9
20	25.1	25.8	27.0	26.6	28.9	29.1	30.1	30.4	30.7	30.85	28.1
21	24.2	26.0	27.2	26.7	28.6	28.9	30.1	30.3	30.7	30.8	28.1
22	24.8	26.1	27.3	26.9	28.6	28.6	30.2	30.4	30.7	30.6	28.0
23	24.9	26.0	27.4	27.0	28.7	28.4	30.15	....	30.7	30.3	27.9
24	24.0	26.0	27.3	27.1	28.9	28.6	30.2	30.4	....	30.3	28.0
25	26.0	27.1	27.35	28.9	28.8	30.25	30.4	....	30.4	28.1
26	23.7	26.0	27.2	27.4	28.9	28.9	30.3	30.3	....	30.4	28.2
27	26.85	24.3	26.1	....	27.5	28.9	29.0	30.3	30.2	....	30.5	28.2
28	27.2	24.8	26.25	....	27.6	28.7	29.2	30.3	30.2	....	30.5	28.1
29	27.5	....	26.4	....	27.5	28.6	....	30.3	30.3	30.9	30.5	27.6
30	27.5	....	26.5	25.5	27.6	28.7	....	30.4	30.3	30.9	30.5	27.5
31	27.6	....	26.6	....	27.7	....	....	30.4	....	30.9	....	27.5

Chilton County

Chi-3. U. S. Geol. Survey. Clanton, in waterworks lot. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 22 N., R. 14 E. Drilled observation water-table well in sand and gravel, diameter 4 to 2 inches, depth 34 feet, cased to 34, screen 26-32. Land-surface datum is 571.56 feet above msl. Highest water level 2.38 below lsd, May 8, 1953; lowest 7.30 below lsd, Nov. 16-17, 1952. Records available: 1952-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.72	4.28	....	3.65	2.80	4.15	5.05	....	6.64	6.47	7.09	....
2	4.65	4.26	....	3.70	3.02	4.22	5.07	....	6.65	6.50	7.11	....
3	4.53	4.31	3.12	3.74	3.01	4.29	5.15	....	6.68	6.51	7.11	6.49
4	4.59	4.41	3.13	3.82	2.88	4.35	5.20	....	6.71	6.50	7.06	5.60
5	4.71	4.42	3.19	3.82	2.73	4.39	5.23	....	6.73	6.47	7.10	5.46
6	4.76	4.40	3.21	3.65	2.63	4.43	5.25	....	6.81	6.58	7.12	5.42
7	4.78	4.34	3.29	....	2.55	4.51	5.32	5.88	6.85	6.61	7.14	5.21
8	4.67	4.50	3.40	....	2.38	4.60	5.39	5.91	6.87	6.65	7.15	5.25
9	4.67	4.52	3.40	....	2.54	4.66	5.44	5.98	6.89	6.62	7.14	5.18
10	3.90	4.50	3.38	....	2.69	4.76	5.48	6.02	6.90	....	7.15	4.60
11	4.08	4.39	....	....	2.84	4.69	5.54	6.06	6.90	....	7.15	4.65
12	4.18	4.34	....	....	3.02	4.71	5.56	6.10	6.94	6.76	7.17	4.23
13	4.26	4.35	....	....	3.09	4.75	5.61	6.12	6.94	6.83	7.19	4.24
14	4.35	4.33	....	....	3.19	4.79	5.68	6.18	6.97	6.83	7.19	4.24
15	4.40	3.82	....	....	3.25	4.86	5.70	6.21	6.98	6.83	7.14	4.24
16	4.42	4.04	....	....	3.35	4.86	5.70	6.27	7.03	6.85	7.16	4.24
17	4.39	4.12	....	....	3.32	4.61	5.71	6.28	7.08	6.92	7.18	4.23
18	4.20	4.12	....	....	3.20	4.71	5.74	6.30	7.08	6.94	7.19	4.23
19	4.23	4.05	....	....	3.23	4.79	5.78	6.32	7.08	6.94	7.18	4.23
20	4.20	....	....	....	3.37	4.84	5.78	6.40	6.98	6.94	7.06	4.23
21	4.26	....	....	....	3.46	4.92	5.65	6.43	7.05	6.94	7.03	4.23
22	4.26	....	....	....	3.48	4.92	5.40	6.43	7.06	6.94	6.75	4.23
23	3.83	....	....	....	....	4.96	5.36	6.41	7.06	6.92	6.60	4.23
24	4.12	....	....	....	....	5.01	5.43	6.46	7.03	6.99	6.58	4.23
25	4.14	....	....	....	....	5.09	5.50	6.49	7.03	6.99	6.68	4.23
26	4.14	....	3.47	....	....	5.07	5.50	6.49	6.97	7.00	6.68	4.23
27	4.17	....	....	....	....	4.99	5.50	6.52	6.25	....	6.75	4.23
28	4.27	....	....	....	....	4.99	5.56	6.52	6.34	....	6.75	4.23
29	4.27	....	3.56	....	3.97	5.02	5.58	6.55	6.40	7.04	6.74	4.23
30	4.31	....	3.57	2.71	4.00	5.03	....	6.58	6.45	7.06	6.71	4.23
31	4.27	....	3.59	....	4.08	....	....	6.61	....	7.08	....	4.23

Colbert County

Col-1. U. S. Army, Corps of Engineers. Muscle Shoals. At Monsanto Chlorine-Caustic plant. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 3 S., R. 10 W. Drilled observation semiartesian well in limestone, diameter 8 inches, depth 265 feet. Land-surface datum is 527.8 feet above msl. Highest water level 6.94 below lsd, Feb. 20, 1953; lowest 32.6 below lsd, Dec. 1-2, 1953. Records available: 1953.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.1	8.9	13.1	22.3	21.2	27.7	....	29.2	32.6
2	8.0	9.25	9.2	13.6	22.3	21.55	27.6	....	29.4	32.6
3	8.0	9.4	....	14.0	23.2	21.9	27.6	....	29.5	32.15
4	14.95	7.8	9.5	....	14.3	22.4	22.8	27.8	....	29.7	32.15
5	15.36	8.0	9.55	....	14.8	22.5	23.3	27.4	....	29.85	32.15
6	15.12	8.0	9.4	8.9	14.8	23.0	23.6	27.6	....	30.0	32.1
7	12.60	8.2	8.8	8.95	15.3	23.0	23.8	27.7	....	30.1	31.7
8	12.00	8.35	9.0	9.1	15.7	23.8	23.4	27.9	....	30.2	31.8
9	12.14	8.4	9.1	9.2	16.0	23.7	23.7	28.0	....	30.3	31.7
10	12.15	8.5	8.8	9.35	16.5	24.1	24.45	28.2	....	30.4	30.7
11	17.90	8.6	8.8	9.5	16.5	23.8	24.75	28.1	....	30.5	30.8
12	8.38	8.65	8.4	9.7	17.1	24.0	25.0	28.3	....	30.6	30.5
13	8.21	8.7	8.6	9.85	16.9	24.3	25.1	28.3	....	30.7	30.5
14	8.22	8.5	8.75	9.8	17.1	24.6	25.3	28.5	....	30.8	30.0
15	8.12	8.75	8.95	9.6	18.0	24.9	25.0	28.6	....	30.9	30.0

Col-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	8.35	8.75	9.05	9.5	18.0	24.95	25.1	28.8	....	31.0	30.5
17	8.50	8.8	9.15	9.6	18.9	24.5	25.7	29.1	....	31.1	30.9
18	8.61	8.7	9.3	9.8	19.0	23.95	25.4	28.9	....	31.1	31.1
19	8.65	8.8	9.55	9.8	19.0	24.2	25.5	27.9	....	31.1	31.5
20	7.90	8.9	9.6	10.0	19.0	24.2	25.7	28.1	....	31.1	31.4
21	7.34	9.0	9.75	10.15	19.3	24.2	25.8	28.5	....	31.2	31.6
22	7.51	8.75	10.1	10.35	19.5	22.25	25.9	28.7	....	31.4	31.95
23	7.67	8.0	10.25	10.55	19.8	19.2	26.0	....	....	31.45	32.0
24	7.67	8.2	10.3	10.95	20.3	18.9	26.2	....	....	31.7	31.95
25	7.7	8.5	10.1	11.3	21.1	19.1	26.3	....	....	31.9	31.9
26	7.95	8.6	10.3	11.5	21.3	19.5	26.8	....	....	32.0	31.9
27	8.1	8.6	10.6	11.8	20.8	....	26.9	....	....	32.2	31.95
28	8.2	8.7	10.8	12.1	21.0	....	27.2	....	28.5	32.3	31.8
29	11.0	12.3	21.8	....	27.4	....	28.7	32.4	30.7
30	8.7	12.25	21.6	20.6	27.5	....	28.8	....	30.9
31	8.9	....	12.5	....	20.9	27.6	....	29.0	....	31.0

Cullman County

Cul-1. City of Cullman. Second St. and Third Ave., West. Drilled observation water-table well in sandstone, diameter 8 inches, depth 81 feet, cased to 13. Land-surface datum is 768 feet above msl. Highest water level 18.79 below lsd, Mar. 24, 1952; lowest 26.62 below lsd, Aug. 6, 1952. Records available: 1952-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.3	....	....	18.8	19.25	19.3	19.6	19.5	20.3	....
2	18.2	....	....	18.9	19.3	19.3	19.6	19.55	20.5	20.4
3	19.00	18.0	....	....	18.95	19.3	19.4	19.6	19.6	20.3	20.0
4	19.15	18.4	....	....	19.0	19.4	19.4	19.6	19.5	20.0	20.0
5	19.15	18.5	....	....	19.0	19.4	19.35	19.5	19.45	20.0	19.5
6	19.0	18.5	....	....	19.0	19.3	19.35	19.55	19.7	20.1	19.6
7	19.0	18.65	....	....	19.05	19.3	19.4	19.7	19.75	20.2	19.6
8	19.3	18.7	....	....	19.1	19.4	19.4	19.75	19.75	20.3	19.5
9	19.4	18.6	....	....	19.3	19.5	19.5	19.8	19.6	20.3	19.2
10	19.3	18.6	....	....	19.3	19.4	19.5	19.75	19.6	20.3	19.1
11	19.0	18.6	....	....	19.2	19.45	19.6	19.6	19.65	20.2	19.1
12	18.4	18.6	....	....	19.2	19.4	19.6	19.55	19.85	20.4	18.6
13	18.55	18.5	....	....	19.1	19.4	19.5	19.6	20.0	20.6	19.5
14	18.6	18.6	....	....	19.1	19.5	19.4	19.55	19.9	20.65	19.0
15	18.3	18.8	....	....	19.2	19.5	19.5	19.55	....	20.2	19.05
16	18.6	18.7	....	....	19.25	19.4	19.5	19.6	....	20.5	19.4
17	18.8	18.5	....	....	19.15	19.4	19.4	19.7	....	20.55	19.5
18	18.9	18.6	....	....	19.2	19.4	19.4	19.7	....	20.5	19.5
19	18.75	18.65	....	....	19.3	19.4	19.3	19.5	....	20.3	19.3
20	18.3	18.6	....	....	19.3	19.3	19.4	19.5	....	20.1	19.1
21	18.4	18.7	....	....	19.35	19.2	19.5	19.85	....	20.1	18.9
22	18.5	18.5	....	....	19.2	19.0	19.5	19.85	....	20.0	19.3
23	18.5	18.6	....	....	19.2	19.1	19.4	19.8	....	20.0	19.4
24	18.2	18.8	....	....	19.2	19.2	19.5	19.8	....	19.75	19.4
25	18.05	18.8	....	18.8	19.3	19.2	19.5	19.5	....	20.1	19.3
26	18.2	18.6	....	18.7	19.4	....	19.5	19.15	....	20.2	19.2
27	18.45	18.5	....	18.7	19.3	....	19.55	19.2	....	21.15	19.2
28	18.45	18.5	....	18.8	19.35	....	19.5	19.3	19.8	21.15	18.9
29	18.9	19.4	....	19.5	19.45	20.1	22.2	18.9
30	18.7	19.3	....	19.55	19.5	20.3	....	18.9
31	18.7	....	19.3	19.6	....	20.3	....	19.0

Dallas County

Dls-1. J. W. Pickering. 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 240.8 feet above msl. Highest water level 13.49 below lsd, Feb. 17, 1946; lowest 21.53 below lsd, Nov. 25, 1952. Records available: 1948-52. Measurement discontinued.

12 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

Dls-2. City of Selma. In waterworks lot. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 17 N., R. 11 E. Drilled artesian observation well in sand, diameter 6 inches, depth 420 feet. Land-surface datum is 125.26 feet above msl. Highest water level 13.49 below lsd, Feb. 17, 1946; lowest 39.1 below lsd, Aug. 11, 1953. Records available: 1941, 1945-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.8	20.7	....	20.9	22.3	33.6	29.5	34.0	34.7	31.4	27.5	23.8
2	20.6	20.6	18.7	20.9	22.1	33.8	31.1	33.8	36.6	31.3	27.3	23.8
3	20.4	21.9	19.4	21.0	22.1	32.7	30.2	35.4	35.8	30.6	27.7	23.6
4	20.4	22.0	19.4	21.0	21.6	33.0	29.3	35.9	36.7	30.4	27.9	23.3
5	21.4	21.2	....	21.2	21.6	32.9	29.0	36.4	34.0	31.0	27.7	23.0
6	20.8	21.2	....	20.9	....	34.4	33.7	37.0	33.4	30.3	27.5	22.3
7	20.9	21.0	....	21.0	22.6	31.7	35.3	38.2	34.1	30.7	26.7	22.0
8	21.4	20.9	....	21.0	21.8	32.7	35.6	38.3	35.0	30.6	28.0	22.2
9	21.3	20.4	19.8	21.0	21.7	33.6	32.8	37.4	36.5	30.6	25.7	22.2
10	21.2	20.4	20.2	21.0	21.6	31.0	32.3	38.5	36.6	30.3	....	22.8
11	20.5	20.5	20.3	21.0	22.6	31.0	35.2	39.1	....	29.8	....	22.1
12	19.8	21.2	20.3	20.8	22.7	31.0	31.8	....	....	30.3	....	21.9
13	19.6	21.2	20.3	20.8	23.4	32.5	34.6	....	....	30.9	....	21.2
14	19.8	20.8	20.3	20.0	24.0	31.2	33.7	....	36.8	31.2	....	21.3
15	19.8	19.9	20.2	20.1	24.4	31.7	32.4	36.9	36.0	32.3	....	21.3
16	20.0	19.8	20.0	20.0	24.9	30.5	32.2	35.6	37.4	31.5	....	21.3
17	20.2	19.6	20.1	20.3	25.3	32.0	31.5	35.6	38.1	32.3	....	24.5
18	20.2	20.4	20.3	20.6	25.1	34.2	31.5	35.8	37.8	30.8	....	25.4
19	20.8	20.5	20.2	20.8	24.2	33.6	30.4	36.7	....	30.7	....	24.8
20	20.4	20.4	20.8	....	25.2	35.2	29.2	35.4	34.1	31.6	....	24.1
21	20.6	20.6	20.9	22.3	25.2	32.6	29.1	35.6	....	31.2	....	24.4
22	20.8	19.3	20.8	22.6	25.1	33.8	28.9	34.1	31.5	31.2	25.3	24.5
23	21.0	18.9	20.6	22.8	28.5	32.3	28.3	32.9	33.3	31.1	24.4	23.0
24	21.1	18.9	19.9	23.4	26.3	34.3	28.4	33.7	33.3	30.6	24.6	22.5
25	20.9	19.5	20.0	23.4	30.3	34.0	28.7	35.8	31.9	30.2	24.5	22.3
26	20.9	19.2	20.0	22.5	31.4	31.4	28.6	35.0	31.7	30.7	24.2	22.4
27	20.6	19.6	....	22.7	30.9	31.0	30.8	35.7	30.9	29.5	29.9	21.3
28	20.7	18.1	....	22.9	31.6	29.7	30.6	34.2	30.4	29.8	24.1	23.3
29	20.9	....	....	23.0	32.5	28.8	32.9	32.7	29.9	29.2	23.8	22.0
30	21.0	....	21.2	23.0	32.5	30.1	34.3	32.4	30.0	28.2	23.6	21.8
31	21.0	....	20.8	....	31.3	....	33.5	34.8	....	28.2	....	21.8

Elmore County

Elm-1. Town of Eclectic. At rear of High School. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 19 N., R. 20 E. Drilled observation semiartesian well in augen-gneiss, diameter 8 inches, depth 402 feet. Land-surface datum is 557.5 feet above msl. Highest water level 6.96 below lsd, May 10, 1953; lowest 10.39 below lsd, Nov. 30, 1953. Records available: 1953.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.66	8.21	....	7.72	8.31	....	9.73	9.24	9.88	....
2	8.64	8.25	....	7.76	8.33	....	9.73	9.18	9.93	....
3	8.61	8.25	....	7.80	8.40	....	9.73	9.14	9.95	10.30
4	8.60	8.30	....	7.90	8.45	....	9.75	9.10	9.96	10.20
5	8.60	8.30	7.28	7.90	8.50	....	9.78	9.04	9.99	10.18
6	8.57	8.23	7.19	7.96	8.55	....	9.85	9.08	10.03	10.08
7	8.53	8.23	7.12	8.00	8.61	8.85	9.88	9.09	10.06	10.06
8	8.57	8.24	7.07	8.09	8.66	8.94	9.89	9.07	10.08	9.98
9	8.52	8.21	7.10	8.17	8.70	8.91	9.85	9.06	10.09	9.81
10	8.58	8.12	7.12	8.20	8.74	9.01	9.88	9.06	10.10	9.70
11	8.60	8.10	7.13	8.00	8.77	9.04	10.00	9.06	10.11	9.70
12	8.52	8.00	7.15	7.99	8.61	9.08	10.03	9.07	10.14	9.57
13	8.48	8.03	7.15	7.96	8.83	9.11	10.06	9.08	10.16	9.45
14	8.43	7.98	7.13	7.93	8.83	9.15	10.09	9.08	10.17	9.37
15	8.43	7.90	7.13	7.94	8.84	9.18	10.11	9.07	10.10	9.32
16	8.43	7.88	7.12	7.90	8.85	9.21	10.12	9.10	10.20	9.22
17	8.38	7.84	7.13	7.86	8.86	9.21	....	9.13	10.27	9.29
18	9.46	8.39	7.79	7.15	7.88	8.90	9.25	....	9.15	10.32	9.24
19	9.43	8.38	7.76	7.10	7.95	8.97	9.29	....	9.18	10.34	9.20
20	9.34	8.35	7.76	7.10	7.99	9.00	9.33	....	9.21	10.34	9.07
21	9.32	8.35	7.76	7.17	8.08	8.80	9.40	10.28	9.24	10.34	9.07
22	9.25	8.37	7.78	7.22	8.12	8.73	9.45	10.32	9.25	10.29	9.02
23	9.20	8.40	7.79	7.26	8.16	8.73	9.46	....	9.24	10.27	9.02
24	9.05	8.40	7.81	7.30	8.22	8.70	9.49	10.30	9.26	10.25	8.95
25	8.90	....	7.73	7.41	8.27	8.70	9.51	10.27	9.27	10.25	8.91

Elm-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	8.84	8.07	7.77	7.43	8.18	8.66	9.50	10.21	9.26	10.28	8.90
27	8.77	8.08	7.77	7.47	8.25	8.61	9.56	9.68	....	10.34	8.88
28	8.71	8.09	....	7.53	8.27	8.60	9.58	9.54	....	10.35	8.82
29	8.13	....	7.54	8.28	....	9.62	9.42	9.73	10.35	8.83
30	8.16	....	7.63	8.32	....	9.66	9.32	9.80	10.39	8.83
31	8.19	....	7.67	....	....	9.70	....	9.83	....	8.85

Greene County

Gre-2. W. F. Bell. Boligee. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 21 N., R. 1 E. Drilled public-supply artesian flowing well in sand, diameter 3 inches, depth 560 feet. Land-surface datum is 117.13 feet above msl. Highest water level 8.59 above lsd, July 21, 1941; lowest 3.92 above lsd, Nov. 27, 1953. Records available: 1940-42, 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	+4.60	Apr. 27	+4.50	July 29	+4.31	Nov. 27	+3.92
Feb. 27	+4.68	May 28	+4.3	Aug. 27	+4.08	Dec. 29	+5.91
Mar. 27	+4.62	June 25	+4.2	Oct. 31	+4.03		

Gre-3. U. S. Geol. Survey. Eutaw. Roberts St. Drilled observation artesian well in sand, diameter 4 to 2 inches, depth 407 feet, cased to 407, screen 393-405. Land-surface datum is 172.14 feet above msl. Highest water level 35.94 below lsd, Apr. 2, 1953; lowest 37.47 below lsd, Nov. 8-12, 1952. Records available: 1952-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.81	36.52	36.25	35.95	36.09	36.20	36.70	36.61	36.96	37.14	37.36	37.26
2	36.79	36.50	36.23	35.94	36.09	36.23	36.70	36.61	36.97	37.14	37.36	37.25
3	36.77	36.49	36.21	35.95	36.09	36.26	36.70	36.62	36.99	37.15	32.36	37.25
4	36.76	36.48	36.18	35.96	36.09	36.29	36.70	36.63	37.01	37.15	37.36	37.25
5	36.75	36.47	36.16	35.97	36.08	36.33	36.70	36.64	37.03	37.15	37.36	37.24
6	36.74	36.46	36.15	35.97	36.08	36.36	36.70	36.66	37.04	37.16	37.36	37.22
7	36.73	36.45	36.14	35.97	36.08	36.39	36.70	36.68	37.05	37.16	37.36	37.20
8	36.72	36.44	36.13	35.97	36.08	36.43	36.71	36.70	37.06	37.16	37.36	37.17
9	36.71	36.44	36.12	35.98	36.06	36.46	36.71	36.72	37.07	37.16	37.35	37.15
10	36.69	36.44	36.12	35.98	36.05	36.49	36.71	36.73	37.09	37.17	37.35	37.12
11	36.67	36.44	36.11	35.98	36.04	36.52	36.72	36.75	37.10	37.17	37.35	37.10
12	36.66	36.43	36.10	35.99	36.03	36.54	36.72	36.77	37.11	37.17	37.35	37.07
13	36.65	36.43	36.08	35.99	36.02	36.56	36.72	36.79	37.12	37.18	37.35	37.05
14	36.63	36.42	36.06	35.99	36.02	36.59	36.74	36.81	37.13	37.20	37.35	37.02
15	36.62	36.41	36.05	35.99	36.02	36.61	36.76	36.83	37.14	37.21	37.35	36.99
16	36.60	36.40	36.03	36.00	36.02	36.61	36.76	36.84	37.15	37.23	37.35	36.94
17	36.58	36.39	36.02	36.00	36.02	36.62	36.76	36.86	37.17	37.24	37.35	36.93
18	36.57	36.39	36.02	36.01	36.01	36.62	36.76	36.87	37.20	37.25	37.35	36.91
19	....	36.39	36.02	36.02	36.00	36.62	36.76	36.88	37.20	37.27	37.35	36.91
20	....	36.39	36.02	36.03	36.00	36.63	36.75	36.88	37.20	37.28	37.35	36.91
21	....	36.38	36.02	36.04	36.99	36.64	36.73	36.90	37.20	37.30	37.35	36.89
22	....	36.36	36.02	36.06	36.99	36.65	36.71	36.92	37.18	37.31	37.34	36.88
23	....	36.35	35.99	36.07	36.00	36.66	....	36.92	37.18	37.32	37.33	36.86
24	....	36.35	35.98	36.08	36.01	36.67	....	36.92	37.17	....	37.31	36.86
25	....	36.33	35.97	36.09	36.03	36.67	....	36.92	37.17	....	37.30	36.85
26	....	36.30	35.97	36.09	36.04	36.68	....	36.92	37.16	....	37.30	36.85
27	....	36.28	35.97	36.10	36.06	36.69	....	36.93	37.16	....	37.28	36.83
28	....	36.27	35.97	36.10	36.09	36.70	....	36.94	37.15	....	37.28	36.82
29	36.54	....	35.96	36.10	36.12	36.70	36.61	36.94	37.14	....	37.27	36.78
30	36.53	....	35.96	36.10	36.15	36.70	36.61	36.94	37.14	....	37.27	36.77
31	36.52	....	35.95	....	36.17	....	36.61	36.95	....	37.36	....	36.76

Jackson County

Jac-1. Tennessee Valley Authority well 28. 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 below lsd, Feb. 26, 1944; lowest 13.86 below lsd, Nov. 1, 1948. Records available: 1936-41, 1943-53.

14 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

Jac-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.34	Apr. 8	5.88	July 8	10.79	Oct. 12	11.74
8	2.08	15	6.05	15	11.09	19	11.87
16	2.55	22	6.50	24	8.55	26	12.08
25	2.87	May 1	5.82	Aug. 1	9.89	Nov. 2	12.00
Feb. 1	4.17	8	5.90	8	9.30	9	12.04
8	4.30	11	6.52	15	9.63	16	12.10
16	4.08	16	6.48	24	10.13	23	12.15
24	3.08	25	6.79	Sept. 1	10.02	30	12.18
Mar. 2	2.91	June 1	7.50	8	10.18	Dec. 7	10.49
10	2.97	9	7.84	16	10.18	14	7.13
17	3.88	16	7.82	22	8.07	21	6.82
23	4.33	23	9.34	Oct. 1	10.94	28	4.85
Apr. 2	5.50	July 2	10.39				

Macon County

Mac-1. Tuskegee Institute. Drilled observation artesian well in sand, diameter 18 to 8 inches, depth 355 feet. Land-surface datum is 436.47 feet above msl. Highest water level 61.85 below lsd, Sept. 20, 1949; lowest 94.15 below lsd, Jan. 1-2, 1951. Records available: 1948-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.10	77.80	77.35	77.15	75.30	76.90	75.45	75.25	75.45	72.75	.....	75.00
2	78.10	77.80	77.25	77.10	75.75	77.00	75.35	75.25	75.45	73.35	75.15	75.00
3	78.00	77.75	77.30	77.15	76.00	77.05	75.30	75.25	75.45	73.75	75.15	74.95
4	78.05	77.75	77.25	77.20	76.40	77.05	75.35	75.25	75.40	74.05	75.10	74.65
5	78.05	77.75	77.40	77.20	76.50	77.05	75.35	75.25	75.40	74.15	75.05	74.70
6	78.05	77.75	77.45	77.20	76.30	77.00	75.30	75.20	75.45	74.60	75.05	74.65
7	78.00	77.65	77.45	77.00	76.40	77.00	75.30	75.25	75.60	74.70	75.10	74.70
8	77.95	.....	77.45	77.10	76.45	77.10	75.30	75.25	75.60	74.65	75.15	74.70
9	77.75	77.90	77.50	77.10	76.60	77.10	75.30	75.25	75.60	74.65	75.15	74.45
10	77.70	77.90	77.50	77.00	76.70	77.20	74.60	75.35	75.65	74.65	75.15	74.55
11	77.80	77.85	77.45	77.05	76.75	76.70	74.85	75.40	75.60	74.70	75.15	74.55
12	77.95	77.70	77.40	76.95	76.75	76.80	75.10	75.40	75.60	74.70	75.15	74.50
13	78.00	77.70	77.30	77.05	76.85	76.90	75.15	75.40	75.55	74.80	75.15	74.40
14	78.00	77.75	77.25	77.15	76.85	76.90	75.25	75.35	75.55	74.85	75.15	74.40
15	78.00	.....	77.20	77.15	76.85	76.95	75.25	75.35	75.55	74.90	75.10	74.50
16	78.00	.....	77.15	77.15	76.85	77.00	75.30	75.35	75.50	74.90	75.05	74.55
17	77.95	77.70	77.25	77.20	76.85	76.35	75.30	75.40	75.50	74.90	75.05	74.65
18	77.85	77.85	77.15	77.15	76.80	76.45	75.30	75.30	75.55	74.95	74.95	74.70
19	77.80	77.85	76.95	77.10	76.80	76.50	75.25	75.35	75.55	75.00	75.00	74.70
20	77.75	77.75	77.05	77.20	76.80	76.55	75.25	75.35	75.50	75.00	75.00	74.65
21	77.70	77.65	77.10	77.20	76.85	76.60	75.25	75.40	75.55	75.00	75.00	74.50
22	77.75	77.75	77.10	77.25	76.90	76.60	75.20	75.45	75.75	74.95	75.00	74.30
23	77.75	77.80	77.10	77.20	76.90	76.65	75.20	75.45	75.80	74.95	74.95	74.30
24	77.65	77.75	77.05	77.10	76.90	75.75	75.25	75.45	75.80	74.90	74.95	74.45
25	77.80	77.65	77.10	77.05	76.90	75.70	75.25	75.50	75.75	74.90	74.95	74.45
26	77.85	77.45	77.20	77.10	76.90	75.70	75.30	75.50	75.65	74.95	74.90	74.45
27	77.85	77.40	77.20	77.10	76.90	75.65	75.30	75.50	66.75	74.90	74.90	74.40
28	77.85	77.40	77.20	77.10	77.00	75.55	75.30	75.45	56.65	74.90	75.00	74.35
29	77.90		77.25	77.05	77.05	75.55	75.25	75.40	64.00	74.95	75.05	74.25
30	77.90		77.25	68.70	77.00	75.55	75.30	75.40	71.70	74.95	75.00	74.20
31	77.85		77.20		76.95		75.30	75.45		75.05		74.35

Marion County

Mar-1. M. M. Burleson. Guin. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 12 S., R. 13 W. Drilled observation artesian well in sandstone, diameter 6 inches, depth 520 feet, cased to 80. Land-surface datum is 452 feet above msl. Highest water level 6.74 below lsd, Mar. 18, 1952; lowest 11.18 below lsd, Nov. 27, 1953. Records available: 1952-53.

Mar-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.09	....	8.04	....	7.57	7.94	9.08	9.49	10.25	10.63	10.98	11.12
2	9.98	....	8.00	7.63	7.44	8.00	9.12	9.62	10.28	10.64	10.99	11.08
3	10.00	....	7.97	7.69	7.28	8.02	9.19	9.60	10.29	10.67	10.98	11.04
4	9.97	....	7.96	7.73	....	8.04	9.24	9.63	10.34	10.65	10.96	11.10
5	9.96	....	7.97	7.66	....	8.08	9.30	9.62	10.34	10.62	11.01	11.05
6	9.94	9.30	7.90	7.72	7.20	8.13	9.31	9.68	10.37	10.73	11.00	11.15
7	9.94	9.31	7.84	7.75	7.16	8.19	9.34	9.73	10.37	10.74	11.02	11.12
8	9.85	9.36	7.84	7.76	7.22	8.27	9.39	9.74	10.38	10.73	11.03	11.05
9	9.78	9.39	7.84	7.80	7.23	8.37	9.40	9.79	10.39	10.70	11.01	....
10	9.82	9.35	7.77	7.80	7.28	8.43	9.43	9.79	10.38	10.72	11.00	....
11	9.85	9.20	7.78	7.81	7.30	8.44	9.43	9.84	10.57	10.75	11.01	....
12	....	9.15	7.77	7.81	7.36	8.44	9.45	9.86	10.42	10.79	11.04	....
13	....	9.11	7.77	7.72	7.36	8.50	9.45	9.86	10.43	10.81	11.04	....
14	....	9.03	7.73	7.77	7.34	8.54	9.51	9.90	10.44	10.81	11.03	....
15	....	9.00	7.77	7.72	7.28	8.58	9.51	9.94	10.46	10.81	11.02	....
16	....	9.01	7.81	7.71	7.28	8.59	9.51	9.98	10.51	10.84	11.03	....
17	....	9.05	7.76	7.81	7.26	8.63	9.46	10.00	10.55	10.88	11.05	....
18	....	8.97	7.66	7.82	7.27	8.67	9.44	9.98	10.52	10.89	11.06	....
19	....	8.85	7.70	7.81	7.30	8.75	9.46	9.95	10.47	10.89	11.02	....
20	....	8.64	7.65	7.81	7.34	8.80	9.44	10.00	10.60	10.89	11.08	....
21	....	8.64	7.63	7.84	7.35	8.85	9.40	10.06	10.60	10.88	11.05	....
22	....	8.58	7.63	7.84	7.39	8.87	9.33	10.09	10.57	10.86	11.08	....
23	9.34	8.48	7.58	7.80	7.41	8.90	9.37	10.08	10.59	10.89	11.03	....
24	9.37	8.21	7.61	7.90	7.46	8.94	9.40	10.10	10.55	10.90	11.05	....
25	9.25	8.18	7.61	7.96	7.50	8.94	9.44	10.13	10.53	....	11.13	....
26	7.19	8.11	7.61	7.90	7.65	9.01	9.43	10.14	10.51	....	11.11	....
27	9.21	8.09	7.55	7.83	....	9.02	9.42	10.14	10.55	10.90	11.18	....
28	9.20	8.11	7.60	7.61	7.71	9.06	....	10.15	10.57	10.92	....	....
29	9.14	....	....	7.60	7.79	9.10	....	10.18	10.60	10.95	....	10.78
30	9.20	....	....	7.57	7.82	9.10	9.49	10.20	10.62	10.97	....	10.86
31	9.20	....	....	....	7.88	....	9.51	10.24	....	10.97	....	10.86

Monroe County

Mon-3. U. S. Geol. Survey. Monroeville. American Legion Club. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 6 N., R. 7 E. Drilled observation semiartesian well in limestone, diameter 6 inches, depth 128 feet, cased to 88, open hole. Land-surface datum is 408 feet above msl. Highest water level 60.30 below lsd, July 2-13, 1953; lowest 64.71 below lsd, Jan. 24, 1953. Records available: 1953.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.63	64.17	62.67	61.76	60.62	60.32	....	....	....	62.83	63.45
2	64.61	64.12	62.66	61.73	60.60	60.30	....	....	....	62.85	63.46
3	64.61	64.05	62.61	61.70	60.60	60.30	....	....	....	62.85	63.52
4	64.60	63.99	62.59	61.66	60.58	60.30	60.42	....	....	62.85	63.53
5	64.58	63.95	62.56	61.64	60.56	60.30	60.42	....	....	62.89	63.50
6	64.61	63.87	62.53	61.57	60.54	60.30	60.45	....	....	62.92	63.52
7	64.60	63.79	62.51	61.54	60.52	60.30	60.45	....	....	62.95	63.52
8	64.58	63.73	62.47	61.48	60.50	60.30	60.50	....	....	62.97	63.44
9	64.58	63.67	62.42	61.44	60.54	60.30	60.50	....	....	63.98	63.43
10	64.55	63.59	62.46	61.39	61.57	60.30	60.46	....	....	63.00	63.42
11	64.56	63.53	62.40	61.32	60.45	60.30	60.48	....	....	63.02	63.38
12	64.56	63.47	62.36	61.26	60.43	60.30	60.51	....	....	63.05	63.35
13	64.54	63.43	62.32	61.22	60.44	60.30	60.51	....	....	63.06	63.29
14	64.58	63.37	62.29	61.22	60.41	60.33	60.55	....	....	63.07	63.29
15	64.54	63.32	62.25	61.17	60.41	60.33	60.54	....	....	63.09	63.26
16	64.56	63.29	62.21	61.12	60.38	60.36	60.55	....	....	63.13	63.20
17	64.53	63.22	62.21	61.09	60.35	60.36	60.56	....	....	63.15	63.16
18	64.49	63.14	62.16	61.03	60.35	60.36	60.59	....	....	63.16	63.10
19	64.29	63.14	62.10	61.00	60.35	60.37	60.61	....	....	63.20	63.03
20	64.54	63.07	62.07	60.97	60.41	60.37	60.61	....	....	63.22	62.96
21	64.53	63.02	62.03	60.95	60.38	60.38	60.61	....	....	63.23	62.90
22	64.45	63.06	62.01	60.91	60.34	60.39	60.64	....	....	63.26	62.87
23	64.42	62.96	61.95	60.86	60.33	60.39	60.64	....	....	63.26	62.85
24	64.71	64.38	62.93	61.93	60.82	60.32	60.39	60.66	....	....	63.31	62.80
25	64.70	64.36	62.90	61.91	60.80	60.32	60.39	60.68	....	....	63.35	62.72

Mon-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	64.67	64.29	62.86	.....	60.76	63.33	60.39	.....	.....	.....	63.35	62.68
27	64.65	64.29	62.84	61.86	60.73	63.32	60.39	.....	.....	.....	63.40	62.62
28	64.67	64.24	62.79	61.86	60.71	63.33	.....	.....	.....	.....	63.42	62.56
29	64.65		62.77	61.80	60.71	63.33	.....	.....	.....	62.76	63.42	62.52
30	64.63		62.77	61.77	60.67	63.32	.....	.....	.....	62.77	63.45	62.50
31	64.63		62.72		60.65		.....	.....		62.81		62.45

Montgomery County

Mtg-1. City of Montgomery well 15A. 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 102.9 below lsd, Mar. 14, 1951; lowest 142.7 below lsd, Aug. 13, 1953. Records available: 1940-41, 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	113.2	113.2	110.2	112.7	115.9	128.4	124.7	127.0	125.1	120.8	123.8	116.8
2	111.7	112.9	110.8	113.1	.....	132.3	124.4	126.2	126.3	120.9	123.1	117.8
8	112.9	112.7	110.9	114.4	.....	134.1	124.4	127.5	129.3	120.4	123.1	118.3
4	112.8	112.4	110.9	115.0	115.6	135.1	124.2	129.7	131.5	120.1	122.6	119.7
5	113.0	113.1	111.6	114.0	115.9	135.2	123.1	134.0	129.5	.....	121.7	118.8
6	113.8	113.3	111.8	113.6	115.4	131.2	126.0	137.0	127.1	121.1	121.6	118.0
7	114.9	113.1	111.5	113.9	114.4	128.3	128.5	139.0	124.4	121.4	122.1	115.7
8	115.5	112.7	111.1	114.2	114.4	127.2	129.7	140.4	128.7	121.7	122.1	117.1
9	114.4	113.4	111.6	114.7	112.7	129.7	130.9	140.4	128.8	121.7	121.7	117.2
10	114.2	114.1	111.8	113.9	115.7	130.3	132.0	137.1	131.5	121.0	120.8	117.4
11	113.7	113.9	111.5	113.3	116.3	130.3	129.7	140.1	132.1	120.2	121.6	117.8
12	.....	112.9	111.7	113.1	116.9	127.7	127.1	141.6	132.9	120.8	122.0	117.5
13	.....	112.5	111.9	112.3	117.2	126.2	127.9	142.7	132.9	121.4	122.2	113.9
14	.....	112.4	112.0	112.3	117.5	125.0	130.0	.....	132.3	124.9	122.3	115.9
15	113.3	111.3	111.5	112.4	117.65	126.6	130.0	.....	133.3	127.9	121.6	116.0
16	113.3	109.5	111.6	112.2	117.5	127.7	128.0	.....	133.0	129.7	121.6	117.2
17	113.8	110.8	112.5	112.4	117.65	125.3	126.6	.....	.....	131.2	122.0	117.9
18	113.4	112.3	112.0	112.5	117.8	124.2	126.1	.....	136.2	131.2	122.1	118.7
19	112.6	112.9	113.0	112.5	.....	124.1	125.8	.....	136.7	127.8	122.0	118.8
20	112.8	112.0	113.4	111.3	117.8	124.0	124.7	.....	134.0	.....	121.0	118.1
21	113.4	112.1	112.7	111.5	118.0	124.0	124.2	.....	130.4	.....	118.2	116.7
22	113.6	111.7	111.9	114.5	118.1	127.0	124.4	.....	129.4	127.4	117.4	117.2
23	113.6	111.3	112.2	115.7	116.3	129.0	124.4	.....	128.6	126.8	116.0	117.0
24	113.2	111.1	112.6	116.1	118.7	130.2	124.0	127.6	128.0	126.0	117.0	117.3
25	112.8	110.5	112.3	116.9	118.9	130.4	124.0	127.6	124.0	124.3	116.7	116.6
26	113.1	109.7	111.7	117.0	119.0	128.0	124.4	127.3	120.1	124.0	116.0	114.5
27	113.4	110.0	111.3	114.4	.....	126.5	124.5	127.1	118.7	124.1	114.7	112.0
28	113.3	110.3	111.1	115.2	.....	124.9	124.5	126.6	117.9	124.2	113.4	113.0
29	113.0		110.9	115.7	.....	124.7	124.5	126.5	117.2	124.2	113.9	114.0
30	113.8		111.9	115.6	.....	124.7	126.0	126.5	119.6	124.2	115.4	114.6
31	113.8		112.8	.....	.....	.....	126.7	125.0	.....	124.2	.....	115.0

Mtg-2. City of Montgomery well 37. 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 of Eutaw and Tuscaloosa formations, diameter 18 inches, depth 680 feet. Land-surface datum is 161.5 feet above msl. Highest water level 67.1 below lsd, Apr. 27, 1952; lowest 110.4 below lsd, Sept. 19, 1953. Records available: 1951-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	77.2	75.2	77.4	69.5	97.1	103.3	104.2	105.6	100.1	99.8	90.8
2	78.1	76.2	74.2	77.5	69.0	97.8	103.3	103.8	106.9	98.8	101.1	91.1
3	78.7	75.9	74.9	76.9	68.5	98.7	102.9	103.4	107.6	97.9	102.2	90.7
4	78.2	76.4	75.9	77.4	68.1	99.3	102.4	104.5	108.1	97.7	103.2	89.9
5	78.0	77.2	76.2	77.0	67.5	100.0	101.9	105.2	108.3	97.2	104.2	90.5
6	79.2	.....	76.2	75.7	.....	100.0	102.4	105.9	106.3	96.7	104.9	89.7
7	80.2	.....	76.2	75.8	.....	98.8	103.7	106.4	103.1	96.3	105.6	86.4
8	80.8	.....	75.3	76.5	.....	98.1	104.7	106.8	104.1	95.5	106.0	89.1
9	80.3	76.7	74.6	77.1	.....	99.7	105.4	107.5	106.2	94.8	106.2	89.3
10	79.3	77.2	74.9	77.8	.....	100.6	105.7	107.1	107.6	93.9	104.8	89.1

Mtg-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	78.1	77.3	75.5	77.7	....	101.3	105.8	107.3	108.0	93.2	102.1	89.2
12	78.4	77.2	75.5	77.7	....	101.2	105.6	107.5	104.5	92.0	102.1	89.4
13	78.3	77.5	75.5	77.1	....	101.9	104.7	108.8	105.0	92.3	101.3	88.6
14	78.6	77.4	76.2	77.7	....	100.9	105.5	108.8	107.9	88.0	100.9	87.8
15	78.5	77.4	75.6	78.0	....	100.7	106.0	109.4	109.1	81.8	100.2	87.8
16	78.6	76.3	74.8	78.7	....	101.5	105.4	109.5	109.7	78.1	99.6	88.2
17	78.3	76.7	75.8	79.8	....	102.5	104.3	109.5	109.9	75.6	99.6	87.6
18	77.5	76.7	76.2	80.4	....	103.3	103.6	109.7	110.2	73.8	99.6	86.8
19	76.6	76.2	77.0	79.5	84.3	104.1	102.5	109.9	110.4	72.3	99.1	86.2
20	76.1	76.2	77.1	78.9	84.3	104.7	101.0	109.4	109.4	....	97.7	85.8
21	76.4	75.5	77.1	79.9	84.9	105.0	100.6	108.8	107.1	....	97.0	85.4
22	86.9	75.3	76.0	80.9	85.6	104.5	100.1	106.8	106.4	81.7	95.8	85.5
23	....	74.5	75.0	82.0	87.0	104.4	99.0	104.2	104.7	85.3	95.4	85.2
24	....	74.5	75.0	82.6	88.2	104.9	100.1	106.1	104.3	87.6	94.4	85.1
25	....	74.7	76.0	83.0	89.1	105.2	101.2	107.2	102.4	88.7	94.0	84.9
26	....	74.6	76.9	81.0	90.7	105.2	100.9	108.0	100.7	89.9	93.8	84.4
27	....	75.3	76.8	81.0	92.3	104.3	99.0	107.8	100.1	90.7	93.4	84.1
28	....	75.3	75.6	80.9	93.7	102.9	99.0	106.9	101.1	90.7	92.7	83.9
29	....	....	75.2	78.0	94.9	102.9	100.4	105.9	101.1	92.4	91.8	83.4
30	77.3	....	75.3	70.2	95.8	103.2	102.2	104.4	100.5	94.9	91.0	83.0
31	77.8	....	77.0	....	96.6	....	103.4	105.6	....	97.7	....	83.3

Mtg-3. U. S. Geol. Survey. Montgomery. Lomax School on old Hayneville Road. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 16 N., R. 17 E. Drilled artesian well in sand of Eutaw formation, diameter 6 to 4 inches, depth 271 feet, cased to 271, screen 210-215, 220-225, 265-270. Land-surface datum is 167.2 feet above msl. Highest water level 18.15 below lsd, May 11, 1953; lowest 28.19 below lsd, Sept. 19, 1953. Records available: 1952-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.16	21.92	19.46	19.58	19.23	23.45	24.90	25.78	26.54	25.34	25.35	24.09
2	24.07	21.77	19.28	19.62	18.65	23.74	24.98	25.82	26.82	25.12	25.46	24.89
3	24.05	21.64	19.18	19.64	18.50	24.13	24.99	25.72	27.10	24.99	25.57	24.81
4	24.03	21.70	19.31	19.70	18.56	24.42	24.94	25.88	27.47	24.88	25.64	24.43
5	24.02	21.74	19.39	19.70	18.75	24.58	24.81	26.12	27.57	24.66	25.73	23.98
6	24.13	21.81	19.40	19.46	18.79	24.58	24.81	26.42	27.38	24.59	25.80	23.61
7	24.18	21.85	19.40	19.36	18.70	24.44	25.08	26.76	26.75	24.59	25.85	23.51
8	24.24	21.81	19.33	19.31	18.43	24.16	25.33	27.00	26.50	24.55	25.86	23.26
9	24.12	21.81	19.28	19.29	18.32	24.35	25.53	27.14	26.81	20.32	25.90	23.06
10	24.00	21.83	19.25	19.31	18.28	24.50	25.68	27.12	27.05	24.21	25.97	23.03
11	23.80	21.83	19.30	19.30	18.15	24.44	25.70	27.13	27.19	24.13	26.04	22.97
12	23.71	21.86	19.34	19.10	18.45	24.45	25.66	27.21	27.26	24.01	26.13	22.84
13	23.66	21.88	19.30	18.90	18.85	24.49	25.33	27.28	27.32	24.15	26.19	22.63
14	23.63	21.87	19.21	18.76	19.15	24.49	25.70	27.41	27.36	24.15	26.19	22.32
15	23.60	21.69	19.12	18.66	19.43	24.31	25.72	27.52	27.45	24.07	26.18	22.17
16	23.55	21.51	19.03	18.77	19.68	24.45	25.69	27.53	27.70	23.87	26.19	22.13
17	23.54	21.44	18.92	18.95	19.81	24.59	25.60	27.40	28.00	23.70	26.21	22.18
18	23.38	21.42	19.03	18.98	19.85	24.76	25.46	27.32	28.17	23.57	26.28	22.18
19	23.21	21.26	19.12	18.98	19.95	24.92	25.21	27.24	28.19	....	26.30	22.16
20	23.10	21.10	19.15	19.00	19.95	25.04	25.01	27.24	27.85	....	26.19	22.08
21	23.15	21.10	19.16	19.15	....	25.07	24.98	27.20	27.24	....	26.19	21.92
22	23.15	20.93	19.15	19.28	....	25.06	....	....	27.81	23.65	25.85	21.92
23	23.13	20.72	19.04	19.43	....	25.15	....	....	26.89	23.90	25.61	21.92
24	23.22	20.41	19.10	19.65	....	25.25	24.67	26.12	26.80	24.38	25.60	21.88
25	....	....	19.21	....	21.15	25.33	24.93	26.37	26.60	24.57	25.71	21.58
26	....	....	19.22	....	21.55	25.38	24.93	26.65	26.28	24.67	25.71	21.35
27	21.76	19.81	19.24	....	22.03	25.29	24.74	26.85	25.32	24.87	25.55	21.14
28	21.77	19.59	19.24	19.59	22.48	25.05	24.77	26.86	25.47	24.89	25.34	21.01
29	21.81	....	19.26	19.72	22.82	24.74	25.00	26.79	25.47	24.87	25.17	20.84
30	21.81	....	19.28	19.63	23.06	24.87	25.34	26.69	25.45	25.03	25.00	20.76
31	21.93	....	19.46	....	23.29	....	25.60	26.41	....	25.09	....	20.76

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 1.96 below lsd, Mar. 26, 1952; lowest 6.51 below lsd, Aug. 29, 1952. Records available: 1948-52. Measurement discontinued.

Pic-3. Reform Gin Co. Drilled observation artesian well in sand, diameter 4 to 2 inches, depth 78 feet. Land-surface datum is 229.73 feet above msl. Highest water level 3.21 below lsd, Apr. 20, 1948; lowest 6.46 below lsd, Nov. 5, 1948. Records available: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 27	3.69	May 28	4.94	July 29	5.38	Sept. 22	5.80
Mar. 27	4.02	June 25	5.62	Aug. 27	6.16	Dec. 29	4.17
May 6	4.17						

Pic-4. Dr. S. R. Parker. Aliceville Internment Camp. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 22 S., R. 2 W. Drilled artesian well in sand, diameter 12 to 8 inches, depth 377 feet, cased to 377, screen 280-305, 350-375. Land-surface datum is 158 feet above msl. Highest water level 4.72 above lsd, June 25, 1953; lowest 0.33 above lsd, Aug. 27, 1953. Records available: 1952-53.

Feb. 27	+2.22	May 28	+4.02	July 29	+2.72	Sept. 22	+0.48
Mar. 27	+1.66	June 25	+4.72	Aug. 27	+ .33	Dec. 29	+1.15
May 6	+1.77						

Wilcox County

Wil-1. City of Camden. At rear of old pumphouse. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 12 N., R. 8 E. Drilled observation artesian well in sand, diameter 4 inches, depth 400 feet. Land-surface datum is 165.0 feet above msl. Highest water level 68.10 below lsd, Apr. 27, 1953; lowest 120.12 below lsd, Aug. 4, 1953. Records available: 1953. Mar. 26, 68.74; Apr. 27, 68.10; May 28, 102.86; June 25, 114.85; Aug. 4, 120.12; Aug. 26, 106.00

FLORIDA

By Eugene Derragon and C. B. Sherwood, Jr.

Scope of Water-Level Program

The observation-well program in Florida is part of a cooperative investigation which was begun in some sections of the State as early as 1930. During 1953 these investigations were conducted in cooperation with the Florida Geological Survey; with Dade, Hillsborough, Manatee, Pinellas, Polk, and Seminole Counties; and with the cities of Daytona Beach, Fort Lauderdale, Miami, Miami Beach, Naples, Pensacola, and Sanford. At the close of 1953 the program included 190 wells, 108 of which were equipped with recording gages. See figures 5 to 9. During 1953 a report of an investigation in Pinellas County was completed for publication and a report on the Foley area of Taylor County was prepared and approved by the Director for release to the open file.

Precipitation

According to the summary of the U. S. Weather Bureau, 1953 was the second wettest year in Florida since records were begun in 1891. The statewide average of 68.2 inches was 14.7 inches above the normal. Precipitation was slightly above normal in the northern half of the peninsula during January and February. During March, precipitation was a little below normal, but rainfall in April was the heaviest since 1933. The driest May since 1941 was reported on a statewide basis, but during the remainder of the year, precipitation was generally above normal at most stations. Precipitation, statewide, was the highest in December since 1940, averaging more than twice the normal amount in the northern and middle sections of the State. Climatic conditions appeared particularly favorable for recharging the Floridan aquifer during the months of April, August, and December, and moderate recharge doubtless occurred in most of the recharge area during the months of June, September, and October.

Total precipitation and departures from normal for selected stations in the State are given in the following table:

Precipitation at selected stations in Florida, 1953

Station	Total precipitation (inches)	Departure from normal
Everglades, Collier County	e62.0	10.61
Fort Myers, Lee County	58.1	+4.8
Homestead, Dade County	64.0	+1.4
Miami, Dade County	71.3	+24.1
Fort Lauderdale, Broward County	e74.8	....
West Palm Beach, Palm Beach County	72.2	+8.6
Loxahatchee, Palm Beach County	80.6	....
Clearwater, Pinellas County	64.0	+10.7
Orlando, Orange County	65.9	+14.6
Palatka, Putnam County	64.4	+12.7
Jacksonville, Duval County	67.8	+15.7
Tallahassee, Leon County	61.0	+4.3
Pensacola, Escambia County	90.4	+28.8

e Estimated.

Pumpage

The average daily pumpage from the city of Miami well fields during 1953 was 59.9 million gallons, 5.3 million gallons of which were obtained from the new southwest well field near well G551. The heaviest pumpage occurred during March when the daily average was 74.8 million gallons. The average yearly water level for well S68 in the Miami Springs well field was 0.9 foot lower than that for well S19, on the outer edge of the field, which indicates the depth and areal extent of the cone of depression caused by pumping. Two cones of depression of about equal size are formed in this well field. Well G3 is within one cone and well S68 is near the center of the other.

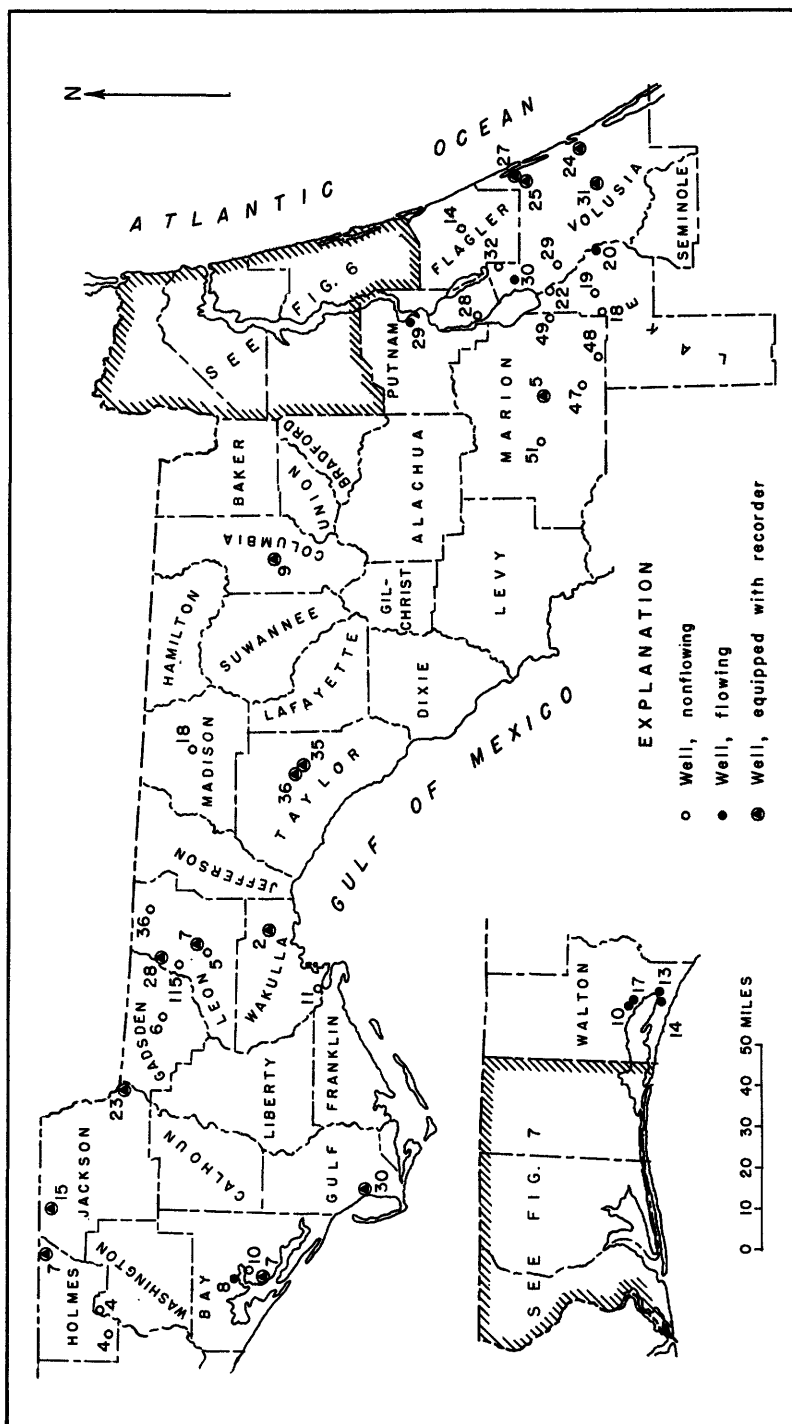


Figure 5. --Location of observation wells in northern Florida, 1953.

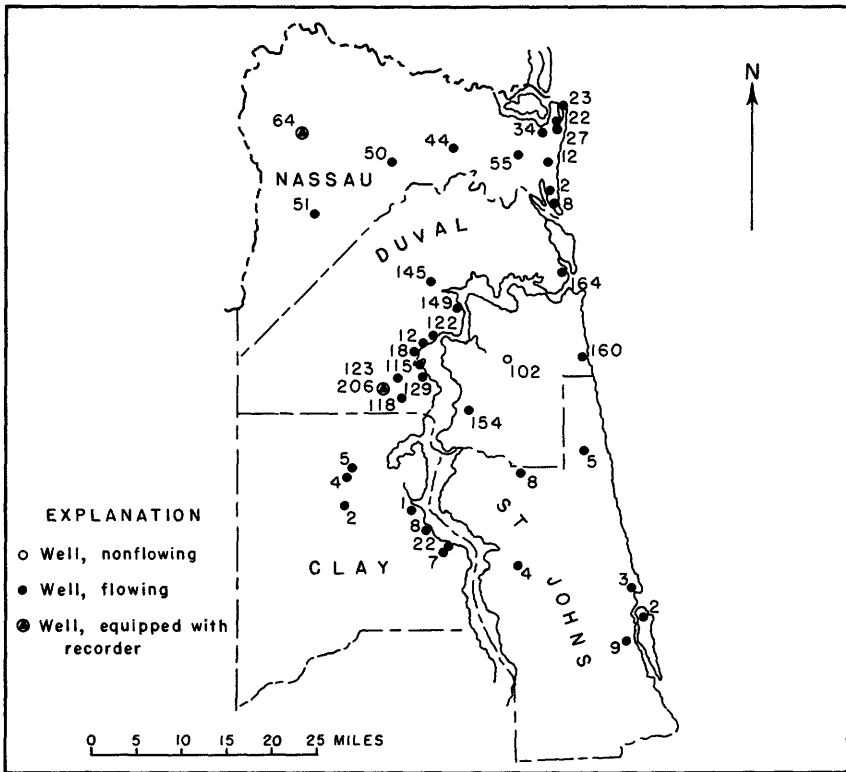


Figure 6. --Location of observation wells in northeastern Florida, 1953.

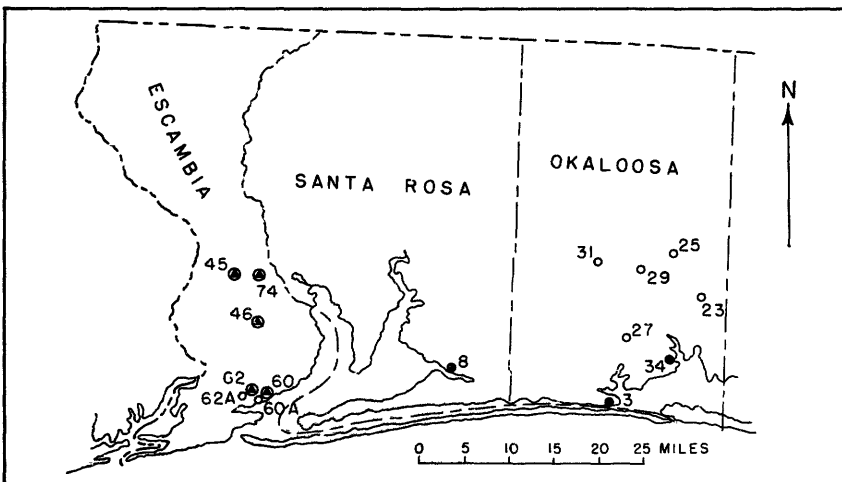


Figure 7. --Location of observation wells in western Florida, 1953.

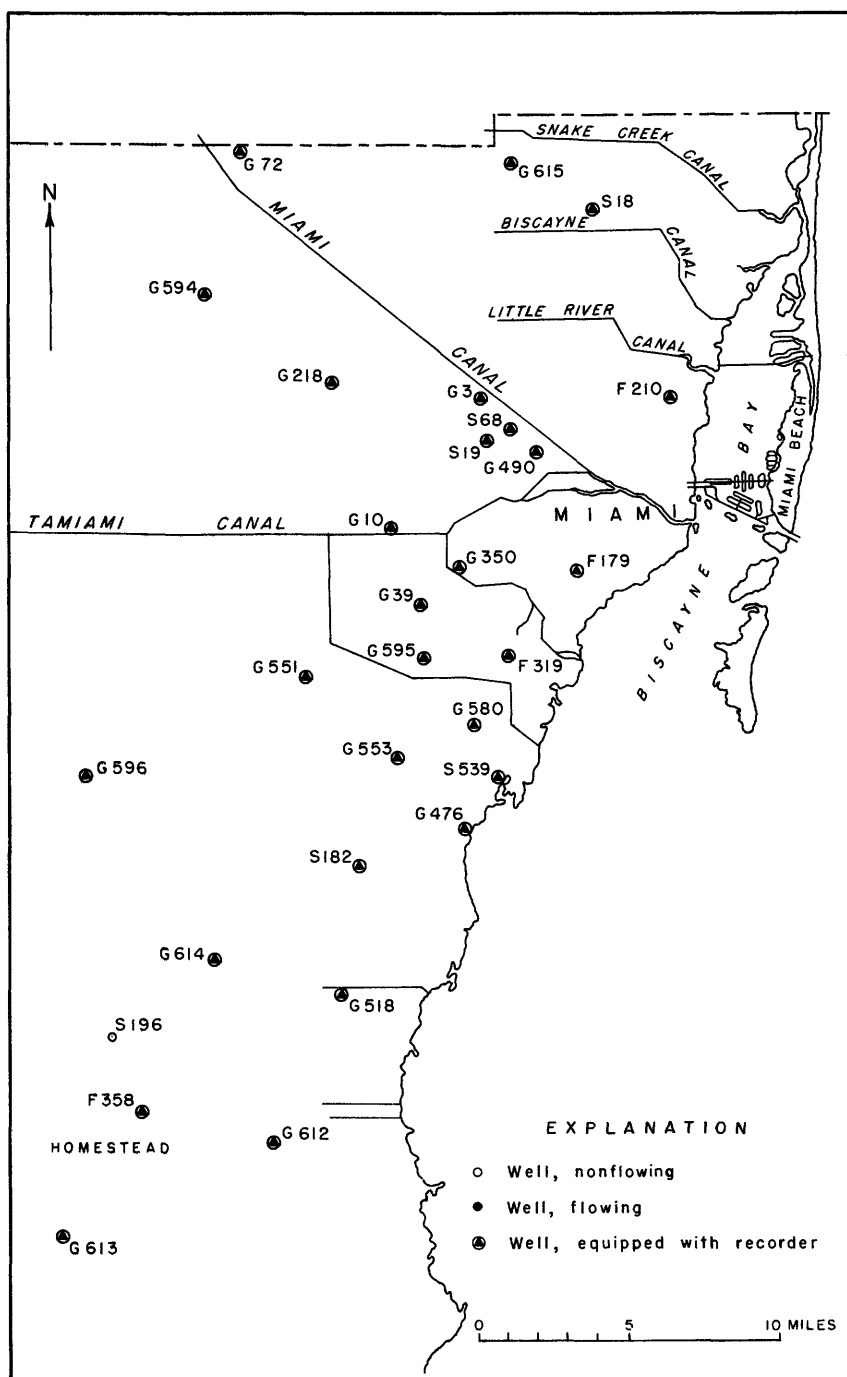


Figure 9. --Location of observation wells in eastern Dade County, Fla., 1953.

Occurrence of Ground Water

The source of water for most cities, industries, farms, citrus groves, and rural homes in Florida north of Lake Okeechobee is from a highly productive and extensive aquifer consisting of the Ocala limestone and associated limestones and dolomites of Eocene, Oligocene, and Miocene ages. This aquifer is referred to as the Floridan aquifer after a name suggested by Garald G. Parker of the U. S. Geological Survey. Over most of this area, the Floridan aquifer is overlain by a thick section of younger deposits, including relatively impermeable beds which confine the water under artesian pressure. The water in the aquifer is under sufficient pressure to rise above the land surface over roughly one-half the area of the State, including a band about 20 miles wide along the east coast, all of the area south of Lake Okeechobee, the Kissimmee River valley, and other areas. Water from the Floridan aquifer is too highly mineralized for most uses in a narrow area along the east coast, from St. Augustine south, and in southern Florida south of the vicinity of Lake Okeechobee. In these areas and in Escambia and Santa Rosa Counties, where the Floridan aquifer is either absent or occurs at relatively great depth beneath the surface, the principal source of water is shallow deposits generally less than 200 feet thick. These deposits are composed of limestone, sand, shelly sand, and coquina, and range in age from late Miocene to Pleistocene. Among the aquifers developed in these deposits 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.

Interpretation of Water-Level Fluctuations

Water-level and artesian-pressure changes in the Floridan aquifer depend principally upon the amount of recharge entering the aquifer and upon withdrawals from wells and natural discharge. The Floridan aquifer is recharged throughout a large area beginning in southern Polk County and extending northward through Marion and Alachua Counties. This area expands to the north where it includes most of the area in northern Florida adjacent to southern Georgia and southeastern Alabama. Extremely favorable recharge conditions over most of the recharge area during August and September produced some of the highest water levels in the recharge areas during September and October that have been recorded. The water level in Pasco County well 13 was the highest on September 18 since records were begun in 1936, and the water level in Putnam County well 29 also stood at the highest point since measurements were started in 1936. The highest water levels for the period of record also occurred in some wells in Hillsborough and Polk Counties during early October. The water level in Jackson County well 23 was the highest on May 8 since measurements were started in 1950. Water levels in a large number of observation wells reached the lowest stage on record during the months of May and June. This was especially prominent in the northeastern part of the State where water-level records showed a decline resulting from increased withdrawal of ground water by cities and industries. Water levels were also at record-breaking lows at some time during the year, usually during May, June, or early July in some areas remote from heavy pumping. These lows must be attributable to either local weather anomalies, or to regional lowering of water levels caused by large increases in the amount of ground water used in certain sections of the State. Among the areas in which record low water levels occurred during the latter part of May were Duval, Nassau, Clay, Polk, and St. Johns Counties.

Water levels in wells in western Florida were generally higher at the end of 1953 than at the end of 1952, except in Okaloosa and Gadsden Counties where moderate declines occurred. Net rises in water levels ranged from a fraction of a foot in Walton County to as much as 11.1 feet in Jackson County. The large rise of water levels in Jackson County was due mostly to heavy precipitation during December, which was about 11 inches above normal, or a total of 16 inches. Net declines in Okaloosa County ranged from 0.3 foot to as much as 1.3 feet for the year, probably as a result of increased withdrawals at the military installations in the areas in which the observation wells are situated. The water level in Gadsden County well 6 declined 3.2 feet during the year, as a result of increased pumping by the city of Quincy. Water levels in wells in Leon County fluctuated considerably during the year, as a result of changing pumping requirements. At the end of the year, water levels were generally higher than at the beginning of the year, because of the above-normal precipitation in this and surrounding areas. The water level in Escambia County well 45 continued its progressive decline, in response to the pumping in the nearby well field of the St. Regis Paper Co. However, due to the above-normal precipitation and consequent increase in recharge, the decline was at a reduced rate. The water level in this well has declined more than 34 feet since records began in 1940. The water level in Gulf County well 30 rose over 14 feet during the year, owing to the cessation of heavy pumping from the St. Joe Paper Co. well field in nearby Port St. Joe. The company is believed to be now using surface sources for most of its water needs.

After the dry weather in May and June, water levels in wells in the northern half of the peninsula generally rose, as a result of the above-normal precipitation in the recharge areas, and also to some extent to the reduced demands of municipalities. Net rises in the northeastern part of the State were generally 1 to 2 feet, but water levels in the Fernandina area of Nassau County generally declined, owing primarily to increased ground-water utilization of municipalities and industries in the Fernandina area. The maximum declines recorded during the year at Fernandina were 14.6 feet in Nassau County well 22, and 15.8 feet in well 34. The water

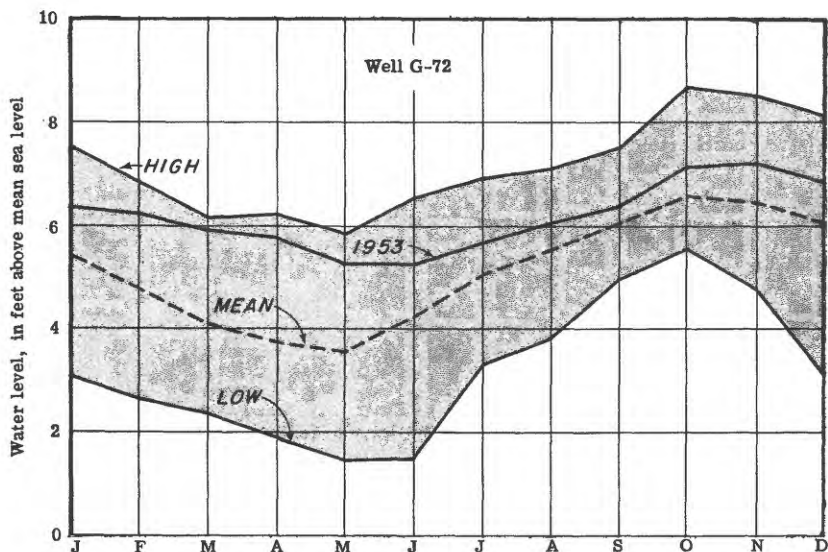


Figure 10. --Average monthly water level in well G-72, Dade County, Fla., 1953.

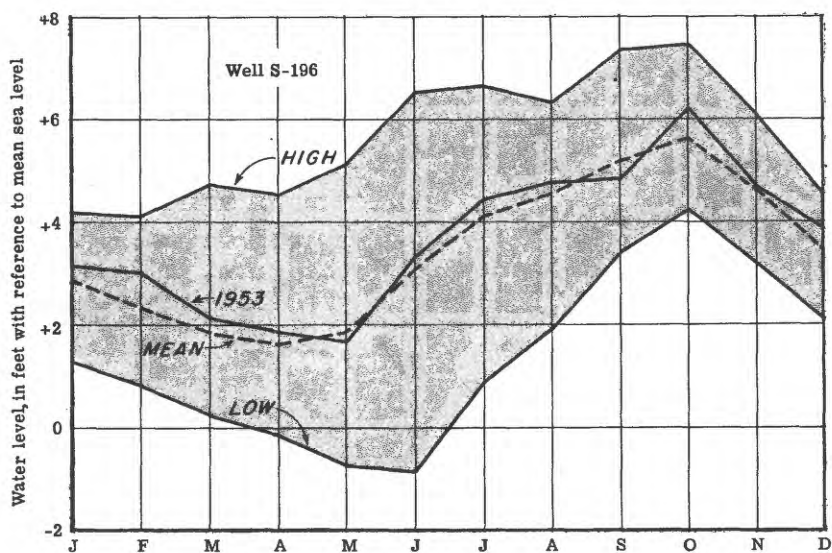


Figure 11. --Average monthly water level in well S-196, Dade County, Fla., 1953.

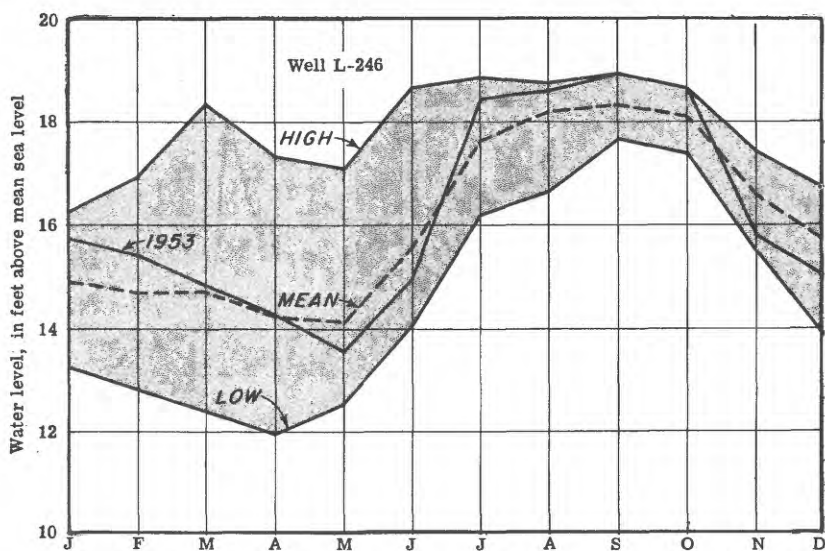


Figure 12. --Average monthly water level in well L-246, Lee County, Fla., 1953.

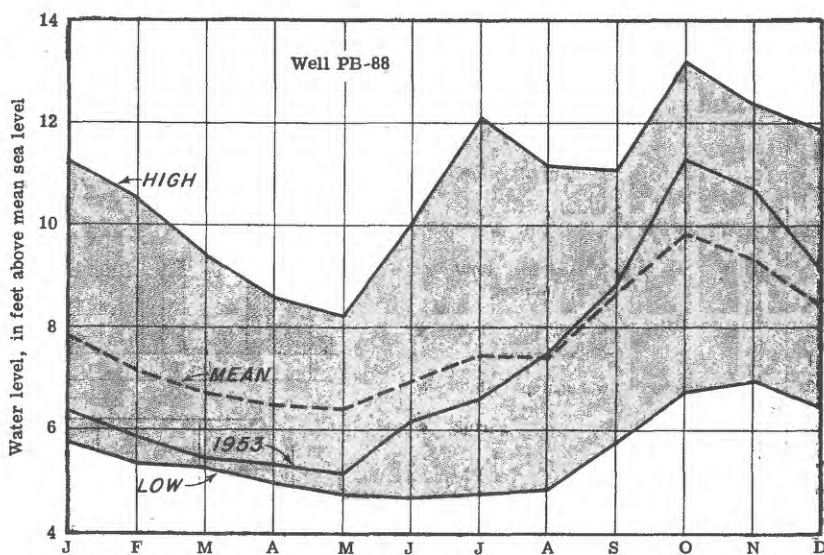


Figure 13. --Average monthly water level in well PB-88, Palm Beach County, Fla., 1953.

level in these wells stood at the lowest level at the end of the year since records began in 1939. Elsewhere in Nassau County, water levels declined varying amounts, with a few small net rises recorded in areas fairly remote from pumping. The water level in Orange County well 47 responds quickly to local rainfall. The level in this well rose 8.7 feet during the year, reflecting the 14.6 inches of excess precipitation reported for the year. The larger part of this rise occurred in November and December, during which rainfall totaled about 5 inches above normal, and evaporation and transpiration losses were probably at a minimum. Water levels in the central and northern parts of the Florida peninsula generally rose in response to the increased precipitation in the recharge areas, with average net rises of 2 feet or more recorded in Taylor, Clay, Marion, Lake, Citrus, Orange, Pasco, and Hillsborough Counties. Lesser net rises in water levels were recorded for wells in Wakulla, Duval, Saint Johns, Flagler, Volusia, Brevard, and Pinellas Counties. The general statewide net rise in water levels for the year can be attributed to the above-normal precipitation reported for the year at practically all weather stations in the State. Water-table fluctuations in south Florida and in the Kissimmee Valley area are closely related to rainfall. The distribution of rainfall during the year will vary both in time and amount, but generally the highest precipitation occurs from June through October and correspondingly this is usually the period of high water levels. Average ground-water levels in south Florida in 1953 ranged from about normal to 1.7 feet above normal, except in coastal areas of Palm Beach County where water levels were a few tenths of a foot below the average for the period of record. The greatest gains occurred west of the coastal ridge along the lower east coast, and in the southern Kissimmee Valley, where water levels were the highest of record in some wells. As compared to 1952, the average water levels in 1953 were generally higher except in a few localized areas. Figures 10, 11, 12, and 13 show graphically the maximum, the minimum, and the mean average monthly water levels for the period of record before 1953 and the average monthly water levels for 1953 in selected wells in southern Florida.

Acknowledgments

The water-level measurements for Leon County well 5 were furnished by the city of Tallahassee. Measurements for well S196, in Homestead, were made by personnel of the University of Florida Sub-Tropical Experiment Station.

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, respectively. 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.

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. Andrew. Drilled unused artesian well in Floridan aquifer, diameter 3 inches, depth 356 feet. Land-surface datum is 26.3 feet above msl. Highest water level 41.76 below lsd, Mar. 22, 1948; lowest 60.76 below lsd, July 14, 1952. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	50.56	Mar. 23	55.04	July 28	59.58	Oct. 19	56.86
30	55.64	May 13	56.57	Sept. 9	57.80	Dec. 1	56.56
Feb. 10	55.27	June 15	56.97				

8. St. Joe Paper 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 1.05 above lsd, Nov. 18, 1952. Records available: 1947-53.

Feb. 9	+1.70	May 12	+1.39	July 27	+1.30	Oct. 19	+1.62
Mar. 24	+1.65	June 16	+1.35	Sept. 8	+1.55	Nov. 30	+1.75

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 9.38 below lsd, July 15, 1952. Records available: 1946-53. Mar. 23, 7.22; May 12, 7.63; June 16, 8.16; Sept. 8, 7.06; Oct. 19, 7.41; Nov. 30, 6.80.

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 24.4 above lsd, Mar. 23, 1953. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	+26.8	May 15	+26.8	Aug. 7	+26.0	Nov. 2	+27.6
Feb. 13	+25.8	June 22	+24.7	Sept. 18	+26.8	Dec. 11	+29.1
Mar. 23	+24.4						

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 85. Land-surface datum is 23 feet above msl. Highest water level 28.7 above lsd, May 12, 1947; lowest 24.0 above lsd, June 2, 1952, June 22, 1953. Records available: 1946-53.

Jan. 12	+25.4	May 15	+24.8	Aug. 6	+25.0	Nov. 2	+26.6
Feb. 13	+25.7	June 22	+24.0	Sept. 19	+26.4	Dec. 11	+26.7
Mar. 23	+26.3						

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 125. 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: 1946-53.

Jan. 15	+3.93	May 13	+3.80	Aug. 5	+3.40	Nov. 4	+5.50
Feb. 11	+4.00	June 24	b+1.85	Sept. 16	+4.84	Dec. 9	+5.30
Mar. 26	+3.95						

b Pumped recently.

148. W. F. 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: 1946-53.

Jan. 13	+11.1	May 14	+10.9	Aug. 6	+10.7	Nov. 3	+11.5
Feb. 12	+11.6	June 23	+10.3	Sept. 16	+12.3	Dec. 11	+11.8
Mar. 25	+10.8						

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, 1949-53.

Jan. 14	+14.7	Mar. 25	+14.2	June 23	b+12.7	Nov. 3	+15.9
Feb. 11	+15.0	May 13	+14.9	Sept. 16	+15.4	Dec. 10	+15.7

b Pumped recently.

Broward County

F291. City of Hollywood. South 20th Ave. and Dewey St. 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 0.16 above msl, July 2, 1952. Records available: 1939-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.95	1.97	1.61	0.82	0.72	0.79	2.73	2.44	2.28	3.94	3.70	3.03
2	1.92	1.95	1.58	.80	.70	.79	2.64	2.36	2.30	4.58	3.64	2.97
3	1.90	2.07	1.55	.84	.68	.77	2.54	2.28	2.26	4.85	3.58	2.92
4	1.86	2.08	1.51	.87	.64	.86	2.45	2.20	2.23	5.16	3.56	2.88
5	1.81	2.05	1.47	.81	.60	1.14	2.38	2.15	2.19	5.12	3.61	3.11

F291--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	1.78	2.02	1.43	.78	.58	1.18	2.28	2.23	2.15	4.98	3.52	3.05
7	1.74	2.32	1.40	.76	.84	1.17	2.20	2.19	2.22	4.90	3.49	2.97
8	2.00	2.59	1.37	.75	1.38	1.11	2.13	2.12	2.23	5.08	3.45	2.89
9	2.32	2.65	1.32	.74	1.63	1.05	2.06	2.07	2.21	4.94	3.41	2.85
10	2.47	2.64	1.28	.72	1.72	1.00	1.97	2.01	2.27	4.84	3.37	2.80
11	2.50	2.58	1.25	.70	1.72	.94	2.42	1.95	2.36	4.71	3.80	2.76
12	2.49	2.51	1.22	.70	1.69	.87	2.49	1.90	2.42	4.61	3.96	2.74
13	2.44	2.42	1.20	.77	1.62	1.14	2.57	1.86	2.47	4.67	3.98	2.72
14	2.37	2.37	1.17	.74	1.55	1.60	2.59	1.85	2.46	4.60	3.95	2.70
15	2.33	2.32	1.15	.90	1.49	2.17	2.54	1.84	2.45	4.50	3.88	2.66
16	2.27	2.26	1.13	1.17	1.42	2.30	2.46	1.85	2.43	4.40	3.83	2.62
17	2.23	2.19	1.11	1.17	1.35	2.24	2.55	1.85	2.55	4.46	3.75	2.57
18	2.18	2.12	1.08	1.16	1.28	2.13	2.46	1.83	2.74	4.68	3.70	2.53
19	2.13	2.06	1.06	1.10	1.23	2.20	2.36	1.79	3.18	4.63	3.64	2.49
20	2.08	1.99	1.03	1.06	1.21	2.22	2.27	1.74	3.50	4.52	3.57	2.47
21	2.03	1.95	1.02	1.00	1.14	2.25	2.20	1.72	3.79	4.42	3.51	2.44
22	1.98	1.90	1.01	.94	1.09	2.24	2.16	1.69	3.88	4.34	3.44	2.41
23	1.97	1.84	1.01	.87	1.03	2.22	2.69	1.67	3.91	4.25	3.39	2.48
24	2.01	1.80	1.00	.81	.97	2.15	2.80	1.65	3.81	4.17	3.33	2.49
25	1.95	1.77	.97	.78	.92	2.16	2.80	1.63	3.74	4.09	3.28	2.44
26	1.89	1.72	.95	.88	.88	2.44	2.72	1.60	3.68	4.01	3.23	2.40
27	1.86	1.68	.93	.84	.84	2.72	2.66	1.58	4.00	4.08	3.18	2.37
28	1.83	1.65	.90	.79	e. 82	2.84	2.62	1.78	4.07	3.98	3.13	2.34
29	1.70		.89	.78	.83	2.84	2.67	2.06	4.10	3.91	3.09	2.33
30	1.93		.87	.75	.81	2.81	2.59	2.13	4.00	3.84	3.08	2.29
31	1.97		.85		.80		2.52	2.13		3.78		2.26

e Estimated.

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. Land-surface datum is 15.63 feet above msl. Highest water level 11.49 above msl, Oct. 12, 1947; lowest 0.39 below msl, July 2, 1952. Records available: 1946-52. No measurement made in 1953.

G561. U. S. Geol. Survey. Southeast Fourth Ave. and 20th 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. Land-surface datum is 8.15 feet above msl. Highest water level 7.40 above msl, Oct. 5, 1948; lowest 0.05 above msl, July 2, 1952. Records available: 1948-53.

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	1.79	0.98	0.58	0.42	0.67	1.78	2.12	3.72	3.14	3.10	2.17
2	1.43	1.71	.97	.56	.38	.68	1.68	2.02	3.35	4.10	2.99	2.12
3	1.41	1.77	.96	.63	.35	.70	1.59	1.92	3.14	4.53	2.90	2.07
4	1.36	1.68	.93	.64	.32	.79	1.52	1.84	2.95	4.88	3.02	2.02
5	1.32	1.60	.89	.60	.28	.98	1.47	1.81	2.80	4.53	3.07	2.34
6	1.26	1.57	.86	.59	.25	1.05	1.39	1.86	2.70	4.33	2.91	2.28
7	1.20	1.97	.81	.56	1.00	1.07	1.32	1.82	2.66	4.99	2.87	2.18
8	1.16	2.13	.78	.56	2.08	.97	1.27	1.75	2.76	4.64	2.80	2.11
9	2.23	2.07	.73	.54	2.23	.93	1.21	1.69	2.60	4.40	2.76	2.06
10	2.30	1.98	.69	.56	2.10	.87	1.18	1.64	2.54	4.19	2.72	2.02
11	2.17	1.87	.68	.60	1.94	.79	2.53	1.57	2.50	4.00	3.10	2.00
12	2.00	1.78	.67	.62	1.79	.75	2.57	1.50	3.01	3.88	3.33	1.98
13	1.88	1.71	.68	.68	1.67	1.02	2.43	1.47	2.94	4.43	3.34	1.97
14	1.81	1.69	.69	.60	1.57	1.07	2.38	1.58	2.82	4.17	3.23	1.96
15	1.77	1.61	.70	.55	1.46	1.24	2.24	1.48	2.72	4.02	3.11	1.91
16	1.71	1.55	.71	.79	1.38	1.41	2.13	1.87	2.63	3.85	3.03	1.87
17	1.68	1.47	.72	.76	1.26	1.44	2.08	1.95	2.57	4.50	2.96	1.82
18	1.59	1.40	.74	.73	1.17	1.42	2.00	1.88	3.29	4.84	2.92	1.77
19	1.56	1.33	.73	.61	1.08	1.58	1.88	1.80	3.35	4.29	2.84	1.74
20	1.49	1.27	.72	.52	1.03	1.62	1.82	1.72	3.36	4.10	e2.78	1.72
21	1.42	1.24	.70	.48	.94	1.62	1.89	1.69	3.47	3.96	e2.71	1.70
22	1.36	1.19	.72	.44	.89	1.55	1.77	1.63	3.54	3.84	e2.65	1.66
23	1.42	1.15	.71	.40	.83	1.50	3.00	1.58	3.45	3.74	e2.60	2.03
24	1.37	1.12	.72	.34	.75	1.44	2.86	1.55	3.30	3.66	e2.54	2.11
25	1.29	1.08	.66	.33	.73	1.41	2.70	1.55	3.20	3.54	e2.47	2.13

G561--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.24	1.03	.63	.54	.69	1.67	2.52	1.57	3.10	3.45	e2.41	2.07
27	1.23	1.01	.61	.50	.70	1.90	2.40	1.78	3.53	3.68	e2.34	2.02
28	1.20	.99	.60	.46	.67	1.98	2.30	3.54	3.61	e3.54	e2.28	1.92
29	1.75		.59	.44	.68	1.93	2.45	4.17	3.43	3.39	e2.22	1.89
30	1.83		.58	.44	.66	1.87	2.32	3.60	3.26	3.30.	2.23	1.83
31	1.85		.59		.67		2.22	3.43		3.22		1.77

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 0.45 above msl, July 2, 1952. Records available: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.14	3.17	2.60	e1.53	1.47	1.29	e2.52	2.58	3.45	5.00	5.93	4.06
2	3.11	3.19	2.54	e1.49	1.41	1.31	2.47	2.45	3.36	5.34	5.79	4.03
3	3.09	3.20	2.50	1.48	1.36	1.25	2.45	2.36	3.34	6.27	5.57	3.94
4	3.05	3.18	2.41	1.42	1.26	1.38	2.37	2.28	3.26	6.48	5.62	3.88
5	2.98	3.22	2.39	1.38	e1.18	1.53	2.33	2.37	3.16	6.56	5.55	3.91
6	2.95	2.89	e2.33	1.32	e1.10	1.60	2.26	2.34	3.13	6.26	5.48	3.90
7	2.90	3.50	2.31	e1.28	1.30	1.73	e2.20	2.45	3.33	6.85	5.39	3.86
8	3.19	4.04	2.24	1.30	1.61	e1.64	e2.14	2.38	3.49	6.86	5.31	3.75
9	3.87	4.01	2.20	e1.20	2.02	e1.53	e2.09	2.33	3.51	6.86	5.25	3.70
10	4.06	3.87	2.15	1.09	2.19	1.42	e2.04	2.22	3.52	6.75	5.17	3.68
11	4.09	3.81	2.16	1.15	2.25	e1.32	2.06	2.13	3.51	6.46	e5.08	3.63
12	4.03	3.65	2.10	1.26	2.26	1.42	2.10	2.04	3.48	6.30	e5.46	3.60
13	3.95	3.60	2.07	1.36	2.16	1.45	2.23	2.01	3.55	6.92	e5.35	3.59
14	e3.92	3.52	e2.01	1.30	e2.06	1.52	2.37	1.96	3.59	6.74	e5.26	3.51
15	e3.86	3.46	e1.95	1.35	1.95	1.54	2.43	2.04	3.64	6.60	e5.16	3.52
16	e3.80	3.42	1.86	1.44	1.88	1.54	2.40	2.10	3.67	6.33	e5.06	3.45
17	e3.74	3.31	e1.83	1.40	1.81	e1.34	2.42	2.07	4.31	7.12	e4.96	3.42
18	e3.68	3.23	1.80	1.50	1.73	1.39	2.47	2.12	4.49	7.54	e4.86	3.39
19	e3.62	3.19	e1.77	1.55	1.46	1.53	2.38	2.01	4.54	7.49	e4.76	3.36
20	e3.55	3.10	e1.73	1.57	1.50	1.59	e2.26	1.97	4.59	7.48	e4.66	3.28
21	e3.49	e3.03	e1.69	1.50	1.60	1.56	2.16	1.91	4.72	7.42	e4.56	3.32
22	e3.43	e2.97	1.87	1.44	e1.48	e1.48	2.34	1.89	4.78	7.02	e4.47	3.27
23	e3.37	2.90	1.74	e1.37	1.39	e1.40	2.69	1.96	4.74	6.78	e4.37	3.34
24	e3.31	2.88	1.80	1.28	1.31	1.64	2.88	1.96	4.69	6.63	e4.27	3.51
25	3.28	2.79	1.73	1.22	e1.23	1.92	2.99	1.92	4.63	6.49	e4.18	3.61
26	3.17	2.75	1.70	1.52	e1.16	2.32	2.95	1.88	4.70	6.29	e4.08	3.66
27	3.10	2.73	e1.63	1.56	e1.08	2.52	2.93	1.86	5.00	6.93	e3.98	3.63
28	3.01	2.68	e1.59	1.57	e1.00	2.56	2.88	2.60	5.20	6.51	e3.88	3.50
29	3.01		e1.56	1.56	e1.30	e2.57	2.92	3.34	4.77	6.35	e3.78	3.48
30	3.04		e1.60	e1.54	1.29	....	2.79	3.41	5.18	6.20	4.09	3.35
31	3.13		e1.56		1.25		2.69	3.43		6.07		3.27

e Estimated.

G617. U. S. Geol. Survey. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 50 S., R. 40 E. Drilled observation water-table well in sandstone of Biscayne aquifer, diameter 6 inches, depth 29 feet, cased to 28. Land-surface datum is 6.0 feet above msl. Highest water level 6.58 above msl, Oct. 18, 1953; lowest 2.80 above msl, May 25-27, 1951. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.30	4.87	4.12	3.85	3.89	3.43	5.33	5.57	4.82	5.20	5.66	4.38
2	4.30	4.80	4.08	3.76	3.80	4.88	5.43	4.95	4.60	5.96	5.50	4.36
3	4.33	5.68	4.03	3.74	3.72	4.85	5.13	4.75	4.51	6.31	5.35	4.34
4	4.30	5.17	4.02	3.83	3.65	4.90	5.00	4.60	4.38	6.39	5.27	4.35
5	4.32	5.00	4.00	3.75	3.60	5.07	4.88	4.51	4.27	6.00	5.81	4.63
6	4.29	4.85	3.97	3.71	3.55	4.75	4.74	4.98	4.18	5.83	5.22	4.58
7	4.27	5.73	3.94	3.68	3.53	4.52	4.65	4.80	4.30	5.78	5.09	4.52
8	4.95	6.23	3.92	3.66	3.91	4.36	5.12	4.64	4.38	6.41	5.00	4.48
9	5.97	5.60	3.88	3.71	4.08	4.27	4.75	4.57	4.40	6.43	4.95	4.48
10	5.58	5.38	3.86	3.73	4.10	4.18	4.62	4.45	4.43	5.96	4.90	4.48

G617--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	5.34	5.22	3.86	3.73	4.04	4.10	4.68	4.34	4.27	5.75	4.87	4.46
12	5.16	5.08	3.86	3.70	....	4.05	4.78	4.24	4.47	5.58	5.65	4.43
13	5.07	4.98	3.90	3.73	....	4.03	5.05	4.16	4.41	5.42	5.30	4.41
14	4.95	4.88	3.92	3.74	....	4.05	4.83	4.09	4.35	6.20	5.18	4.68
15	4.87	5.00	3.90	3.70	....	4.01	4.61	4.07	4.46	5.43	5.03	4.53
16	4.81	4.77	3.90	3.94	....	3.97	4.45	4.07	4.37	5.25	5.05	4.50
17	4.73	4.65	3.88	4.02	....	3.93	4.39	4.02	5.03	6.15	4.87	4.47
18	4.68	4.57	3.88	4.02	....	3.89	4.49	3.98	5.20	6.58	4.78	4.45
19	4.65	4.48	3.86	4.10	....	3.85	4.33	3.93	4.97	6.45	4.97	4.43
20	4.86	4.41	3.84	4.08	....	4.57	4.20	3.87	4.82	6.36	4.74	4.43
21	4.78	4.35	3.80	4.00	....	4.85	4.10	3.85	4.77	6.19	4.65	4.58
22	4.70	4.31	3.80	3.94	....	5.57	5.81	3.87	4.93	6.00	4.60	4.61
23	4.62	4.48	3.92	3.85	....	5.16	6.49	3.90	4.77	5.85	4.55	5.56
24	4.94	4.40	4.11	3.77	....	4.86	6.12	4.09	4.70	5.79	4.50	6.25
25	4.72	4.28	4.11	3.72	....	4.75	5.91	4.15	4.60	5.66	4.65	5.76
26	4.67	4.20	4.05	3.70	....	6.22	5.35	4.09	4.65	5.52	4.43	5.44
27	4.60	4.18	4.01	4.06	....	3.39	6.54	6.01	4.00	5.03	5.58	4.41
28	4.57	4.15	3.96	4.06	3.40	6.15	6.43	4.05	5.75	6.35	4.40	5.15
29	4.52		3.90	4.04	3.39	5.76	5.86	4.63	5.43	6.14	4.40	5.02
30	5.18		3.86	4.00	3.39	5.54	5.40	4.68	5.27	5.95	4.39	4.92
31	5.02		3.85		3.40		5.76	4.67		5.80		4.83

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: 1935-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	5.04	Apr. 8	5.67	Aug. 13	4.68	Oct. 13	1.08
Feb. 25	5.69	May 22	4.62	Sept. 22	2.28	Dec. 1	.98

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: 1935-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	16.02	Apr. 8	17.13	Aug. 13	17.52	Oct. 27	12.76
Feb. 25	16.65	May 21	16.38	Sept. 22	14.25	Nov. 23	13.03

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 32.7 above lsd, Dec. 16, 1953. Records available: 1934, 1940, 1942, 1944-53. Feb. 6, +37.7; Apr. 1, +36.9; May 28, +35.7; July 15, +31.1, pumped recently; Nov. 3, +34.3; Dec. 16, +32.7.

2. Mrs. M. A. Chauker. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 5 S., R. 24 E. Middleburg. Drilled domestic artesian well in Floridan aquifer, diameter 3 inches, reported depth 498 feet, cased to 300. Land-surface datum is 27.72 feet above msl. Highest water level 48.1 above lsd, Apr. 30, 1948; lowest 34.6 above lsd, May 28, 1953. Records available: 1934, 1940-42, 1944-53. Feb. 6, +38.1; Apr. 1, +37.5; May 28, +34.6; July 15, +38.3; Sept. 10, +40.0; Nov. 3, +35.8; Dec. 16, +40.1.

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 31.3 above lsd, July 15, 1953. Records available: 1940-42, 1944-53. Feb. 6, +34.5; Apr. 1, +32.4; May 28, +32.5; July 15, +31.3; Sept. 10, +33.0; Nov. 3, +35.3; Dec. 16, +35.8.

5. John Huntley. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 4 S., R. 25 E. Drilled domestic artesian well in 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. 26, 1944; lowest 27.3 above lsd, May 28, 1953. Records available: 1940-41, 1944-53. Feb. 6, +29.4; Apr. 1, +28.4; May 28, +27.3; July 15, +26.5, pumped recently; Sept. 10, +28.5; Nov. 3, +29.7; Dec. 16, +30.6.

7. U. S. Navy. Auxiliary airbase, about 2.5 miles southeast of Green Cove Springs. 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 11.8 above lsd, May 28, 1953. Records available: 1940-42, 1946-47, 1949-53. Feb. 6, +16.5; Apr. 1, +17.1; May 28, +11.8; July 15, +14.1; Sept. 10, +15.4; Nov. 3, +16.0; Dec. 16, +19.2.

8. St. Elmo Hotel. North of St. Elmo Hotel in 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 15.2 above lsd, July 16, 1952. Records available: 1934-35, 1940-42, 1944-53. Feb. 6, +19.3; Apr. 1, +18.7; May 28, +18.6; July 15, +19.1; Sept. 10, +16.8; Nov. 3, +20.8; Dec. 16, +20.5.

22. U. S. Navy. Auxiliary airbase, about 2.5 miles southeast of 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 11.5 above lsd, May 28, 1953. Records available: 1946-53. Apr. 1, +15.5; May 28, +11.5; July 15, +14.3; Sept. 10, +15.0; Nov. 3, +15.5; Dec. 16, +18.9.

Collier County

C130. U. S. Geol. Survey. North Fourth Ave. and Second St., Naples. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 50 S., R. 25 E. Drilled observation water-table well in limestone of Tamiami formation, diameter 6 inches, depth 71 feet, cased to 69. Land-surface datum is 5.39 feet above msl. Water level affected by tides in the Gulf of Mexico. Highest water level 4.95 above lsd, Oct. 9, 1953; lowest 1.25 above lsd, May 26, 1953. Records available: 1952-53.

Daily highest water level above msl from recorder graph, 1952

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	2.72	2.20	3.05	3.15	2.68
2	....	2.74	2.32	3.05	3.15	2.59
3	....	2.72	2.23	3.05	3.10	2.65
4	....	2.63	2.21	3.05	3.04	2.60
5	....	2.65	2.17	3.08	2.98	2.52
6	....	....	2.19	3.97	2.99	2.60
7	....	....	2.28	4.00	2.93	2.58
8	....	2.55	2.40	4.18	2.84	2.60
9	2.42	2.51	2.39	4.11	2.80	2.52
10	2.38	2.47	2.40	4.00	2.85	2.57
11	2.35	2.45	2.42	3.80	2.78	2.57
12	2.31	2.39	2.58	3.67	2.73	2.46
13	2.28	2.34	2.67	3.61	2.74	2.55
14	2.57	2.30	2.60	3.55	2.75	2.75
15	2.68	2.50	2.54	3.51	2.75	2.69
16	2.60	2.56	2.48	3.47	2.73	2.58
17	2.59	2.68	2.49	3.40	2.72	2.60
18	2.55	2.62	3.10	3.52	2.67	2.60
19	2.47	2.55	3.35	3.70	2.74	2.43
20	2.46	2.47	3.55	3.96	2.95	2.50
21	2.40	2.39	3.57	3.95	3.08	2.50
22	2.33	2.36	3.48	3.60	2.97	2.55
23	2.28	2.38	3.39	3.57	2.85	2.40
24	2.23	2.39	3.30	3.48	2.75	2.33
25	2.22	2.38	3.20	3.30	2.68	2.35
26	2.30	2.29	3.13	3.25	2.66	2.35
27	2.32	2.27	3.04	3.22	2.70	2.29
28	2.57	2.23	3.13	3.19	2.70	2.37
29	2.69	2.27	3.03	3.15	2.66	2.37
30	2.67	2.29	2.94	3.07	2.69	2.38
31	2.71	2.27		3.12		2.39

C130--Continued.

Daily lowest water level above msl from recorder graph, 1952

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	2.41	1.54	2.68	2.75	2.15
2	....	2.40	1.80	2.86	2.82	2.10
3	....	2.37	1.79	2.85	2.41	1.97
4	....	2.33	1.53	2.79	2.50	1.98
5	....	2.34	1.72	2.78	2.52	2.07
6	....	....	1.72	2.90	2.38	2.10
7	....	2.33	2.03	3.70	2.29	2.25
8	....	2.23	2.03	3.87	2.26	2.20
9	2.19	2.20	1.90	3.98	2.45	2.03
10	2.18	2.21	2.02	3.75	2.13	2.14
11	2.17	1.68	2.02	3.58	2.32	2.29
12	2.11	1.90	2.30	3.52	2.19	2.21
13	2.16	1.94	2.43	3.45	2.20	2.21
14	2.23	1.40	2.40	3.36	2.05	2.43
15	2.40	2.21	2.22	3.30	2.23	2.32
16	2.23	2.36	2.08	3.22	2.39	2.20
17	2.36	2.45	2.14	3.22	2.12	2.00
18	2.10	2.30	2.39	3.25	2.04	2.03
19	2.17	2.25	3.06	3.37	2.19	2.00
20	2.18	2.09	3.29	3.70	2.41	1.97
21	2.08	1.92	3.37	3.51	2.72	2.05
22	1.94	1.82	3.26	3.35	2.62	1.92
23	1.80	2.05	3.13	3.29	2.50	1.91
24	1.76	2.15	2.97	3.21	2.22	1.95
25	1.79	1.63	2.72	3.00	2.13	2.13
26	2.08	1.60	2.70	2.97	2.15	1.82
27	2.17	1.50	2.73	2.85	2.26	1.94
28	2.15	1.70	2.81	2.72	2.12	1.92
29	2.50	1.39	2.63	2.86	2.23	1.75
30	2.37	1.42	2.50	2.75	2.31	1.82
31	2.40	1.59		2.68		2.00

Daily highest water level above msl from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.40	2.50	2.17	2.63	2.95	2.24	2.75	3.49	4.55	3.90	3.31	2.80
2	2.59	2.82	2.32	2.62	2.88	2.28	2.88	3.40	4.14	3.76	3.28	2.79
3	2.67	2.90	2.15	3.33	2.80	2.37	2.82	3.34	3.97	3.75	3.25	2.90
4	2.60	2.87	2.18	3.23	2.76	2.48	2.75	3.30	3.97	3.62	3.29	2.94
5	2.54	2.73	2.14	3.03	2.70	2.62	3.07	3.80	3.95	3.58	3.32	2.94
6	2.40	2.63	2.09	3.00	2.67	2.62	3.17	3.80	3.87	3.57	3.35	2.95
7	2.32	2.63	2.07	3.02	3.07	2.60	3.05	3.95	3.75	3.49	3.23	2.98
8	2.28	2.76	1.97	2.87	3.12	2.58	2.95	3.87	3.72	4.32	3.15	2.90
9	2.68	2.62	1.92	2.75	3.00	2.49	2.92	3.65	3.69	4.95	3.23	2.90
10	2.76	2.59	1.91	2.73	2.92	2.39	2.83	3.59	3.76	4.48	3.17	2.85
11	2.75	2.54	1.93	2.80	2.85	2.33	2.95	3.55	3.72	4.09	3.22	3.04
12	2.65	2.59	1.93	2.88	2.72	2.28	3.03	3.49	3.88	3.90	3.23	2.90
13	2.54	2.60	2.00	3.41	2.64	2.24	2.94	3.27	3.98	3.76	3.19	2.86
14	2.52	2.56	2.06	3.38	2.58	2.19	2.86	3.18	3.94	3.72	3.15	3.22
15	2.41	2.64	2.07	3.14	2.57	2.23	3.35	3.68	4.04	3.63	3.10	3.02
16	2.37	2.65	2.15	3.73	2.55	2.12	3.50	3.74	3.85	3.58	3.12	2.90
17	2.32	2.63	1.97	3.49	2.55	2.09	3.67	3.65	4.58	3.58	3.02	2.85
18	2.37	2.35	1.90	3.30	2.50	2.10	3.74	3.39	4.34	4.20	3.02	2.73
19	2.43	2.30	1.89	3.21	2.46	2.60	3.60	3.35	4.25	4.26	3.08	2.64
20	2.32	2.33	1.86	3.13	2.43	2.55	3.51	3.68	4.05	4.03	3.08	2.87
21	2.39	2.31	1.89	2.95	2.41	2.55	3.52	3.60	4.45	3.95	3.12	2.88
22	2.36	2.30	3.52	2.87	2.37	2.43	3.40	3.55	4.50	3.87	3.13	2.77
23	2.36	2.30	3.45	2.85	2.33	2.40	3.31	3.55	4.40	3.80	3.13	3.00
24	2.93	2.18	3.37	2.79	2.33	2.57	3.35	3.59	3.99	3.78	3.10	3.08
25	2.93	2.18	3.25	2.79	2.27	2.90	3.78	3.72	3.98	3.78	3.35	3.08
26	2.73	2.17	3.12	3.38	2.22	2.99	4.00	4.12	4.14	3.72	3.31	2.97
27	2.68	2.16	2.93	3.38	2.18	2.98	3.75	4.15	4.23	3.60	3.08	2.85
28	2.68	2.19	2.91	3.19	2.18	3.04	3.57	4.19	4.30	3.55	2.98	2.83
29	2.59		2.93	3.10	2.13	2.89	3.90	4.26	3.89	3.57	2.90	2.73
30	2.43		2.82	3.05	2.02	2.81	3.84	4.07	3.90	3.38	2.87	2.66
31	2.45		2.69		2.13		3.63	4.43		3.33		2.66

C130--Continued.

Daily lowest water level above msl from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.13	2.22	1.89	2.25	2.55	1.81	2.51	3.24	4.12	3.58	3.12	2.13
2	2.01	2.35	1.67	2.15	2.55	1.90	2.68	3.17	3.82	3.48	2.97	1.98
3	2.47	2.73	1.76	2.38	2.61	2.17	2.47	3.12	3.79	3.46	2.85	2.20
4	2.29	2.59	1.75	2.95	2.24	2.20	2.44	2.95	3.71	3.42	2.69	2.33
5	2.05	2.38	1.82	2.89	2.22	2.41	2.35	3.25	3.73	3.30	2.90	2.30
6	2.02	2.32	1.67	2.77	2.10	2.37	2.85	3.52	3.60	3.30	2.88	2.58
7	1.95	2.26	1.68	2.73	2.48	2.30	2.72	3.62	3.53	3.27	2.87	2.40
8	1.85	2.58	1.64	2.50	2.85	2.23	2.62	3.53	3.53	3.32	2.92	2.10
9	2.13	2.27	1.38	2.43	2.67	2.03	2.62	3.45	3.53	4.32	2.76	2.20
10	2.61	2.12	1.40	2.12	2.60	1.91	2.55	3.40	3.55	4.02	2.92	2.68
11	2.52	2.08	1.43	2.20	2.22	1.74	2.72	3.34	3.55	3.82	2.98	2.58
12	2.37	2.03	1.47	2.41	1.95	1.68	2.78	3.16	3.58	3.61	2.65	2.46
13	2.07	2.15	1.60	2.77	1.96	1.75	2.63	3.04	3.78	3.40	2.73	2.50
14	2.00	1.88	1.42	2.87	1.95	1.87	2.65	2.86	3.45	3.44	2.75	3.00
15	1.98	2.44	1.52	2.85	2.05	1.40	2.70	2.71	3.81	3.38	2.70	2.74
16	1.97	2.33	1.41	2.92	2.32	1.56	3.20	3.48	3.61	3.30	2.51	2.63
17	1.95	2.13	1.34	3.20	2.32	1.43	3.36	3.32	3.72	3.26	2.54	2.40
18	2.03	2.00	1.46	3.05	1.87	1.37	3.53	3.15	4.11	3.47	2.40	2.28
19	1.93	1.97	1.38	3.07	1.83	1.95	3.39	3.09	3.94	3.93	2.60	2.22
20	1.95	1.92	1.42	2.90	1.83	2.30	3.22	3.20	3.80	3.85	2.45	2.20
21	2.12	1.97	1.55	2.65	1.73	2.17	3.17	3.36	3.88	3.75	2.55	2.27
22	1.99	1.92	2.83	2.60	1.54	1.90	3.15	3.20	4.20	3.55	2.77	2.30
23	2.00	1.71	3.30	2.19	1.55	2.18	2.99	3.30	3.90	3.54	2.47	2.38
24	2.36	1.59	3.21	2.41	1.90	2.20	3.03	3.32	3.75	3.54	2.45	2.83
25	2.52	1.67	2.94	2.34	1.39	2.57	2.99	3.39	3.75	3.45	3.10	2.88
26	2.40	1.67	2.68	2.70	1.25	2.70	3.67	3.46	3.83	3.37	2.96	2.71
27	2.33	1.61	2.58	3.03	1.27	2.82	3.43	3.89	3.79	3.28	2.56	2.68
28	2.21	1.81	2.50	2.84	1.42	2.71	3.33	3.80	3.88	3.12	2.52	2.40
29	2.10		2.35	2.76	1.37	2.59	3.29	3.97	3.60	3.25	2.62	2.49
30	2.15		2.25	2.62	1.72	2.56	3.55	3.77	3.49	3.13	2.30	2.45
31	2.18		2.35		1.86		3.40	3.82		3.13		2.35

C131. U. S. Geol. Survey. On Florida Highway 846, 8 miles east of Immokalee. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 47 S., R. 30 E. Drilled observation water-table well in limestone of Tamiami formation, diameter 6 inches, depth 54 feet, cased to 22. Land-surface datum is 26.60 feet above msl. Highest water level 26.72 above lsd, Oct. 9, 1953; lowest 22.33 above lsd, June 2, 1953. Records available: 1952-53.

Daily highest water level above msl from recorder graph, 1952

Day	July	Aug.	Sept.	Oct.	Dec.	Day	July	Aug.	Sept.	Oct.	Dec.
1	23.60	24.09	25.45	.....	17	.....	24.70	24.60	26.05	24.45
2	23.76	24.05	25.38	24.88	18	.....	24.60	25.55	26.36	24.50
3	23.78	24.12	25.40	24.90	19	.....	24.50	25.70	26.28	24.55
4	23.67	23.98	25.43	24.97	20	.....	24.57	25.75	26.37	24.50
5	23.58	23.90	25.62	24.85	21	.....	24.60	25.60	26.33	24.45
6	24.00	23.96	25.70	24.66	22	.....	24.37	25.73	26.25	24.45
7	24.03	24.12	25.81	24.75	23	.....	24.32	25.50	26.20	24.38
8	24.66	24.16	25.90	24.63	24	.....	24.22	25.73	26.30	24.40
9	24.46	24.03	25.80	24.75	25	.....	24.46	25.45	26.20	24.25
10	24.76	24.03	25.68	24.73	26	.....	24.25	25.38	26.15	24.19
11	24.98	24.05	25.70	24.36	27	.....	24.35	25.65	26.17	24.21
12	24.68	24.63	25.65	24.55	28	.....	24.25	25.49	.....	24.30
13	24.53	24.40	25.78	24.59	29	.....	23.22	23.96	25.35	.....
14	24.51	24.75	25.84	25.03	30	.....	23.48	23.92	25.40	.....
15	24.58	24.73	25.77	24.64	31	.....	23.58	24.06	.....	.....
16	25.00	24.44	26.09	24.67						24.80

Daily highest water level above msl from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.75	24.70	23.95	23.05	23.37	22.35	25.47	25.02	26.08	26.51	26.11	25.28
2	24.53	25.63	23.93	23.03	23.30	22.33	25.37	24.84	26.00	26.52	26.07	25.24
3	24.18	25.45	23.90	23.33	23.22	22.55	25.30	24.76	26.30	26.49	26.03	25.22
4	24.75	25.25	23.87	23.33	23.14	22.88	25.18	25.58	26.25	26.45	25.00	25.25
5	24.65	25.12	23.83	23.17	23.07	24.65	25.49	25.46	26.21	26.42	25.99	25.38

C131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	24.55	25.02	23.80	23.09	23.01	24.83	25.28	25.31	26.25	26.39	25.94	25.20
7	24.49	24.95	23.76	23.10	23.06	24.51	25.11	25.26	26.37	26.49	25.90	25.15
8	24.47	25.19	23.70	23.05	23.08	24.28	25.05	25.09	26.32	26.58	25.88	25.14
9	25.30	24.78	23.63	23.03	22.93	24.10	25.02	24.98	26.28	26.72	25.85	25.11
10	25.03	24.77	23.56	22.92	22.87	24.06	24.94	25.82	26.24	26.67	25.91	25.13
11	24.90	24.69	23.45	22.87	22.80	23.93	24.88	25.69	26.22	26.65	25.85	25.08
12	24.76	24.67	24.09	22.84	22.75	25.24	24.75	25.50	26.17	26.63	25.80	25.03
13	24.65	24.56	24.52	24.49	22.68	24.92	24.67	25.35	26.16	26.62	25.75	25.40
14	24.58	24.53	24.30	24.22	22.67	24.58	24.65	25.23	26.14	26.68	25.72	25.65
15	24.53	24.90	24.15	24.10	22.62	24.50	24.60	25.61	26.29	26.62	25.68	25.20
16	24.50	24.52	24.02	24.72	22.59	24.35	25.11	25.59	26.24	26.58	25.65	25.10
17	24.45	24.46	23.90	24.20	22.55	24.56	24.85	25.36	26.45	26.55	25.60	25.00
18	24.35	24.40	23.80	24.02	22.50	25.03	24.72	25.64	26.40	26.59	25.56	24.94
19	24.72	24.35	23.74	23.93	22.47	24.57	24.89	25.57	26.38	26.54	25.57	24.92
20	24.63	24.33	23.68	23.83	22.59	24.40	24.67	25.45	26.35	26.49	25.53	24.95
21	25.22	24.32	23.80	23.74	22.80	25.24	24.57	25.69	26.40	26.44	25.50	24.97
22	24.88	24.35	23.93	23.67	22.84	24.85	25.05	25.57	26.52	26.39	25.47	24.93
23	24.75	24.27	23.71	23.60	22.70	25.43	25.48	25.81	26.55	26.34	25.46	25.73
24	25.62	24.22	23.50	23.52	22.60	25.17	25.63	25.70	26.49	26.30	25.40	25.59
25	25.14	24.15	23.57	23.46	22.54	25.56	25.40	25.60	26.45	26.26	25.83	25.47
26	25.00	24.08	23.48	23.47	22.47	25.91	25.27	25.75	26.48	26.22	25.57	25.30
27	24.95	24.04	23.44	23.72	22.42	26.00	25.50	25.59	26.50	26.35	25.48	25.20
28	24.89	24.00	23.40	23.58	22.54	25.85	25.30	25.98	26.48	26.33	25.41	25.15
29	24.81		23.33	23.53	22.47	25.70	25.52	26.12	26.54	26.25	25.38	25.18
30	24.78		23.25	23.46	22.42	25.57	25.28	26.05	26.55	26.19	25.30	25.24
31	24.75		23.23		22.37		25.20	26.22		26.15		25.11

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, 1943; lowest 93.04 below lsd, Mar. 8, 1953. Records available: 1948-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	92.45	92.57	92.73	.....	.....	92.43	92.66	92.82	92.63	91.87	90.83	90.29
2	92.31	92.52	92.75	.....	.....	92.47	92.84	92.65	91.84	90.63	90.83	90.29
3	92.27	92.48	92.78	.....	.....	92.54	.....	92.86	92.57	91.80	90.80	90.19
4	92.40	92.53	92.72	.....	.....	92.55	.....	92.83	92.52	91.69	90.67	90.13
5	92.45	92.64	92.90	.....	.....	92.55	.....	92.75	92.43	91.55	90.46	90.15
6	92.57	92.58	93.00	.....	.....	92.55	.....	92.74	92.38	91.55	90.53	90.05
7	92.59	92.47	92.94	.....	.....	92.54	.....	92.82	92.44	91.64	90.57	90.17
8	92.48	92.62	92.90	.....	.....	92.57	.....	92.81	92.52	91.64	90.57	90.15
9	92.10	92.82	93.00	.....	.....	92.62	.....	92.77	92.47	91.48	90.50	90.06
10	92.19	92.83	92.95	.....	.....	92.63	.....	92.90	92.43	91.45	90.50	90.05
11	92.33	92.71	92.88	.....	.....	92.57	.....	92.86	92.41	91.47	90.50	90.02
12	92.50	92.52	92.89	.....	.....	92.58	.....	92.85	92.37	91.48	90.50	89.98
13	92.60	92.62	92.87	.....	.....	92.53	.....	92.81	92.32	91.53	90.51	89.83
14	92.60	92.58	92.84	.....	.....	92.55	92.71	92.82	92.30	91.52	90.50	89.82
15	92.60	92.53	92.83	.....	.....	92.47	92.78	92.84	92.25	91.44	90.42	90.14
16	92.60	92.71	92.86	.....	.....	92.53	92.79	92.82	92.19	91.36	90.37	90.10
17	92.58	92.82	92.84	.....	.....	92.48	92.77	92.82	92.19	91.37	90.37	90.17
18	92.50	92.93	92.76	.....	.....	92.41	92.75	92.82	92.22	91.37	90.37	90.22
19	92.45	92.86	92.75	.....	.....	92.50	92.75	92.78	92.13	91.31	90.33	90.14
20	92.47	92.76	92.83	.....	.....	92.55	92.78	92.76	92.02	91.25	90.25	89.97
21	92.40	92.80	92.80	.....	.....	92.57	92.79	92.78	92.07	91.17	90.25	89.80
22	92.53	92.92	92.78	.....	.....	92.58	92.76	92.80	92.19	91.10	90.20	89.85
23	92.42	92.95	92.77	.....	.....	92.60	92.72	92.75	92.24	91.00	90.14	89.83
24	92.36	92.84	92.78	.....	.....	92.58	92.73	92.76	92.20	90.87	90.12	89.95
25	92.62	92.75	92.83	.....	.....	92.60	92.76	92.77	92.09	90.89	90.08	89.80
26	92.73	92.72	92.90	.....	.....	92.63	92.75	92.74	91.81	90.93	90.20	89.77
27	92.69	92.74	92.87	.....	.....	92.65	92.76	92.73	91.70	90.87	90.26	89.75
28	92.60	92.75	92.80	.....	.....	92.68	92.76	92.64	91.80	90.75	90.32	89.66
29	92.65		92.87	.....	.....	92.73	92.80	92.60	91.85	90.78	90.37	89.63
30	92.65		.....	.....	92.55	92.73	92.86	92.60	91.80	90.82	90.31	89.60
31	92.59		.....	.....	92.48		92.87	92.58		90.84		89.72

Dade County

F179. City of Miami. Southwest 24th Terrace and 32d 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. 9-11, 24-25, 1945. Records available: 1939-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.56	e1.89	1.44	1.33	1.67	1.76	2.28	e2.32	2.38	4.12	3.25	2.12
2	1.50	e1.99	1.45	1.33	1.62	1.79	2.21	e2.25	2.34	4.10	3.15	2.09
3	1.47	2.11	1.45	1.33	1.55	1.82	2.15	2.19	2.29	4.32	3.07	2.08
4	1.44	2.16	1.46	1.32	1.51	1.88	2.11	2.13	2.26	5.07	3.00	2.08
5	1.42	2.16	1.43	1.30	1.48	1.99	2.05	2.08	2.26	5.11	2.97	2.07
6	1.39	2.12	1.39	1.32	1.46	2.01	1.98	2.13	2.27	4.85	2.89	2.04
7	1.36	2.09	1.37	1.33	1.49	2.00	1.93	2.10	2.29	6.49	2.82	2.00
8	1.43	2.35	1.33	1.35	1.76	1.98	1.89	2.07	2.26	6.24	2.77	1.98
9	1.67	2.35	1.28	1.37	1.85	1.93	1.84	2.03	2.23	6.00	2.75	1.95
10	1.73	2.31	1.31	1.40	1.90	1.89	1.77	2.00	2.20	5.67	2.74	1.96
11	1.71	2.28	1.34	1.43	1.91	1.83	1.85	1.99	2.24	5.36	2.73	1.96
12	1.65	2.19	1.36	1.46	1.91	1.77	1.88	1.97	2.24	5.09	2.94	1.96
13	1.62	2.13	1.36	1.48	1.88	1.73	1.89	2.01	2.25	4.79	2.98	1.94
14	1.61	2.07	1.36	1.45	1.83	2.01	1.90	1.96	2.27	4.74	2.99	1.93
15	1.60	2.03	1.36	1.43	1.80	1.99	1.89	1.94	2.27	4.55	3.02	1.87
16	1.58	1.97	1.37	1.70	1.76	1.97	1.85	1.90	2.27	4.75	3.04	e1.81
17	1.58	1.92	1.37	1.71	1.71	1.95	1.83	1.92	2.30	4.53	3.03	e1.77
18	1.59	1.84	1.38	1.67	1.65	1.92	1.82	1.91	3.63	4.39	2.99	1.73
19	1.57	1.81	1.38	1.59	1.62	1.92	1.79	1.90	3.72	4.26	2.93	1.69
20	1.54	1.79	1.37	1.50	1.59	1.89	1.75	1.89	3.68	4.14	2.86	1.67
21	1.53	1.74	1.36	e1.46	1.60	2.60	1.73	1.87	3.60	4.03	2.82	1.69
22	1.51	1.67	1.41	e1.41	1.60	2.65	1.95	1.85	3.51	3.95	2.74	1.74
23	1.50	1.59	1.44	e1.37	1.57	2.61	2.15	1.84	4.16	3.86	2.66	1.80
24	1.53	1.54	1.47	1.33	1.54	2.51	2.22	1.85	4.37	3.79	2.60	1.84
25	1.48	1.51	1.46	1.32	1.52	2.47	2.23	1.89	4.30	3.67	2.54	1.82
26	1.45	1.48	1.42	1.59	1.50	2.40	2.24	1.91	4.19	3.58	2.46	1.80
27	1.43	1.46	1.37	1.62	1.47	2.41	2.31	1.92	4.06	3.53	2.37	1.78
28	1.43		1.36	e1.63	1.45	2.41	2.38	2.20	4.70	3.88	2.28	1.75
29	1.43		1.34	e1.64	1.47	2.36	2.42	2.39	4.46	3.61	2.22	1.77
30	1.69		1.34	e1.66	1.58	2.33	2.44	2.41	4.27	3.49	2.16	1.76
31	e1.78		1.34		1.73		e2.39	2.40		3.35		1.72

e Estimated.

F210. City of Miami. Northwest 62d 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 0.24 above msl, Mar. 10-11, 1945. Records available: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.26	1.90	0.95	0.85	1.06	1.16	2.60	1.90	2.14	e3.98	3.14	1.95
2	1.24	1.88	1.00	.84	1.01	1.19	2.47	1.83	2.12	e4.60	3.05	1.90
3	1.23	1.96	.99	.85	.95	1.23	2.35	1.76	2.09	e5.10	2.95	1.88
4	1.19	1.97	1.02	.83	.93	1.30	2.25	1.69	2.05	e5.77	2.87	1.84
5	1.17	1.90	.97	.82	.90	1.35	2.15	1.74	2.02	e5.71	2.79	1.86
6	1.14	1.85	1.00	.85	.92	1.35	2.07	1.76	1.98	e5.45	2.70	1.80
7	1.12	1.81	1.11	.86	.90	1.33	1.98	1.67	1.99	e5.20	2.62	1.77
8	1.33	1.90	1.15	.85	1.45	1.30	1.90	1.63	1.95	e5.45	2.59	1.74
9	1.67	1.81	1.10	.85	1.48	1.25	1.82	1.60	1.95	e5.28	2.53	1.72
10	1.78	1.77	1.09	.87	1.45	1.20	1.74	1.59	1.92	e5.08	2.50	1.69
11	1.76	1.73	1.02	.89	1.42	1.15	1.98	1.55	1.93	e4.87	2.48	1.67
12	1.70	1.68	1.02	.92	1.40	1.10	2.02	1.53	1.96	4.68	2.97	1.65
13	1.64	1.63	1.02	.96	1.35	1.22	1.93	1.50	1.96	4.50	3.05	1.63
14	1.57	1.58	1.00	.92	1.30	1.30	2.05	1.52	1.97	4.54	3.09	1.61
15	1.52	1.54	1.00	.90	1.25	1.34	2.06	1.46	1.96	4.34	3.05	1.57
16	1.48	1.49	1.00	1.44	1.21	1.35	2.02	1.43	1.95	4.18	3.02	1.54
17	1.45	1.44	1.00	1.45	1.16	1.38	1.96	1.44	1.99	4.07	3.00	1.51
18	1.42	1.39	1.00	1.38	1.12	1.39	1.90	1.45	2.82	4.72	2.92	1.46
19	1.40	1.35	.98	1.30	1.10	1.66	1.83	1.52	3.05	4.67	2.85	1.42
20	1.37	1.32	1.00	1.20	1.07	1.83	1.77	1.42	4.44	4.50	2.77	1.40

F210--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	1.35	1.27	1.00	1.13	1.20	2.43	1.72	1.40	4.66	4.34	2.69	1.40
22	1.32	1.22	.97	1.08	1.22	2.66	1.90	1.40	4.52	4.20	2.62	1.40
23	1.30	1.17	.96	1.03	1.18	2.57	2.10	1.38	....	4.07	2.53	1.57
24	1.35	1.13	.86	1.00	1.15	2.45	2.18	1.41	....	3.95	2.45	1.70
25	1.29	1.07	.99	.96	1.12	2.42	2.20	1.43	....	3.81	2.38	1.73
26	1.25	.95	.95	1.11	1.08	2.35	2.19	1.41	....	3.68	2.30	1.66
27	1.23	.92	.90	1.14	1.10	2.57	2.15	1.40	....	3.78	2.22	1.62
28	1.22	.98	.88	1.09	1.00	2.77	2.11	1.65	4.39	3.63	2.15	1.60
29	1.20		.86	1.09	.96	2.82	2.12	2.00	4.25	3.50	2.08	1.58
30	1.75		.85	1.12	1.07	2.72	2.06	2.09	e4.10	3.37	2.00	1.57
31	1.88		.85		1.12		1.98	2.12		3.26		1.51

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. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 17 feet, cased to 13. Land-surface datum is 11.12 feet above msl. Previously reported dug well replaced at same location Mar. 1, 1953. Highest water level 8.86 above msl, Oct. 11, 1947; lowest 0.47 above msl, May 19, 1945. Records available: 1940-53.

Daily highest water level above msl from recorder graph*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.96	2.06	2.41	2.31	2.83	5.01	3.83	2.84
2	1.95	2.10	2.33	2.27	2.83	5.24	3.75	2.81
3	1.93	2.12	2.26	2.22	2.81	5.28	3.68	2.80
4	1.93	2.16	2.19	2.17	2.81	6.39	3.62	2.78
5	1.93	2.28	2.12	2.14	2.81	6.05	3.60	2.76
6	1.92	2.33	2.06	2.13	2.80	5.77	3.57	2.74
7	1.92	2.34	2.01	2.12	2.85	5.62	3.52	2.70
8	1.98	2.32	2.00	2.10	2.84	6.44	3.48	2.67
9	1.99	2.28	1.99	2.09	2.81	6.07	3.47	2.65
10	2.01	2.24	1.97	2.09	2.78	5.82	3.45	2.63
11	2.02	2.20	2.04	2.09	2.85	5.59	3.44	2.61
12	2.03	2.15	2.07	2.08	2.85	5.40	3.53	2.56
13	2.03	2.12	2.09	2.07	2.87	5.23	3.57	2.51
14	2.01	2.09	2.08	2.05	2.86	5.08	3.60	2.46
15	1.99	2.06	2.02	2.03	2.86	4.92	3.62	2.41
16	1.97	2.03	1.96	2.00	2.84	4.96	3.63	2.35
17	1.94	2.00	1.94	2.26	3.44	4.80	3.62	2.29
18	1.92	1.98	1.92	2.34	4.50	4.72	3.58	2.23
19	1.89	2.07	1.88	2.36	4.88	4.62	3.54	2.18
20	1.98	2.09	1.83	2.40	4.67	4.53	3.48	2.16
21	2.03	2.14	1.79	2.43	4.50	4.44	3.44	2.16
22	2.04	2.15	1.99	2.44	4.32	4.37	3.39	2.17
23	2.04	2.13	2.08	2.44	6.39	4.28	3.33	2.33
24	2.02	2.11	2.13	2.44	5.98	4.21	3.28	2.38
25	1.99	2.24	2.16	2.46	5.68	4.14	3.27	2.40
26	1.96	2.31	2.19	2.47	5.38	4.06	3.14	2.39
27	2.03	1.93	2.37	2.25	2.45	5.19	4.03	3.07	2.37
28	2.05	1.90	2.48	2.29	2.58	5.85	4.25	3.01	2.34
29	2.02	1.88	2.52	2.33	2.71	5.46	4.12	2.95	2.33
30	2.00	1.98	2.48	2.35	2.77	5.17	4.02	2.89	2.30
31		2.02		2.35	2.81		3.92		2.27

* No record for January, February, and March.

F358. Town of Homestead. Northwest Sixth St. and Second 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: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e2.12	2.49	2.00	1.18	1.67	1.22	4.36	4.31	4.53	4.77	4.12	3.42
2	e2.14	2.49	1.96	1.15	e1.55	1.88	4.27	4.14	4.31	5.68	4.06	3.39
3	e2.12	2.54	1.93	1.10	e1.52	2.00	4.13	4.04	4.26	5.75	4.01	3.35
4	e2.10	2.50	1.91	1.08	e1.49	2.20	4.02	3.93	4.20	6.13	3.96	3.32
5	e2.08	2.46	1.89	1.05	e1.46	2.55	3.92	3.88	4.11	5.71	3.91	3.31

F358--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	e2.06	2.41	1.86	1.01	e1.42	2.58	3.97	4.00	4.04	6.57	3.85	3.28
7	e2.24	2.67	1.84	.98	e1.40	2.52	3.81	3.97	4.17	7.35	3.80	3.26
8	2.40	2.86	1.80	.93	1.36	2.45	3.74	3.90	4.14	6.48	3.76	3.23
9	2.81	2.88	1.77	.90	1.31	2.37	3.69	3.85	4.07	6.93	3.73	3.20
10	3.08	2.81	1.73	.85	1.34	2.30	3.63	3.78	4.00	6.29	3.72	e3.19
11	3.14	2.75	1.70	.83	1.28	2.23	3.68	3.74	3.98	6.11	3.94	e3.18
12	3.16	2.68	1.71	.80	1.23	2.16	3.62	3.68	4.05	5.94	3.99	e3.16
13	3.11	2.64	e1.74	.84	1.18	2.12	3.58	3.65	4.02	5.78	4.03	e3.15
14	3.04	2.60	e1.71	.90	1.13	2.41	3.57	3.67	4.03	5.63	4.10	e3.13
15	3.08	2.57	e1.68	.89	1.07	2.42	3.59	4.44	4.05	5.60	4.11	e3.12
16	2.91	2.53	e1.65	1.49	1.03	3.07	3.63	4.45	4.02	5.40	4.07	e3.10
17	2.86	2.46	e1.62	1.63	.98	3.03	3.65	4.53	3.99	5.30	4.02	e3.09
18	2.81	2.41	e1.60	1.68	.92	2.97	3.62	4.50	4.07	5.21	3.96	e3.07
19	2.77	2.36	e1.57	1.70	.87	2.92	3.57	4.44	4.20	5.16	e3.91	e3.06
20	2.71	2.30	1.52	1.68	.82	3.12	3.53	4.35	4.23	5.10	e3.86	e3.04
21	2.70	2.26	1.48	1.64	1.62	e4.02	3.49	4.25	4.28	5.01	e3.81	e3.03
22	2.66	2.22	1.46	1.60	1.60	e4.22	3.49	4.19	4.33	4.94	e3.76	e3.01
23	2.61	2.19	1.43	1.56	1.53	e4.35	3.78	4.10	4.34	4.86	e3.70	e3.00
24	2.76	2.16	1.48	1.50	1.41	e4.52	3.85	4.04	4.35	4.77	e3.67	e2.98
25	2.75	2.12	1.43	1.46	1.31	e4.62	3.95	3.97	....	4.68	e3.62	e2.97
26	2.71	2.08	1.38	1.62	1.21	4.80	3.92	3.90	....	4.60	e3.58	e2.95
27	2.66	2.04	1.37	1.69	1.13	....	4.04	3.84	....	4.56	e3.54	e2.94
28	2.62	2.02	1.34	1.71	1.04	....	4.10	3.81	4.90	4.44	e3.50	2.93
29	2.57		1.31	1.69	1.00	4.66	4.12	4.43	4.87	4.36	e3.47	2.91
30	2.55		1.26		.97	4.52	4.19	4.40	4.82	4.28	....	2.89
31	2.53		1.22		1.17		4.21	4.33		4.20		2.87

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-tight well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 9 feet, cased to 8. 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: 1940-53. 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	+0.73	+0.91	+0.25	-0.53	-0.07	+0.84	+0.42	+0.31	+0.85	+2.47	+2.60	+1.86
2	.72	.99	+ .06	.57	- .11	.80	.19	.25	.80	2.54	2.49	1.72
3	.66	1.05	+ .01	.56	- .02	.84	.14	.15	.74	2.83	2.45	1.71
4	.75	1.08	- .03	.55	+ .02	.98	+ .01	+ .04	.60	3.04	2.30	1.76
5	.66	1.04	.10	.56	.01	.88	- .10	- .01	.60	3.42	2.30	1.76
6	.66	.95	.15	.60	.02	.62	.30	+ .31	.53	3.28	2.42	1.90
7	.66	.85	.23	.59	.04	.66	.32	.14	.49	3.19	2.26	1.66
8	.74	.84	.27	.60	.25	.58	.42	.11	.64	3.72	2.23	1.55
9	.90	.89	.30	.60	.47	.53	.50	.07	.63	3.57	2.25	1.48
10	1.23	.91	.31	.61	.56	.54	.57	.05	.63	3.45	2.25	1.44
11	1.33	.82	.30	.61	.52	.53	.57	.03	.82	3.25	2.24	1.35
12	1.27	.76	.26	.55	.43	.44	.56	.01	.87	3.14	2.26	1.31
13	1.29	.73	.25	.55	.39	.47	.50	+ .08	1.06	3.04	2.70	1.28
14	1.06	.69	.27	.32	.40	.59	.22	- .02	1.14	2.97	2.83	1.28
15	.90	.69	.32	.35	.36	.59	.17	- .10	1.09	2.94	2.83	1.28
16	....	.92	.34	- .35	.33	.59	.27	- .10	1.13	2.89	2.74	1.25
17	....	.71	.36	+ .20	.33	.72	.17	+ .27	1.13	2.96	2.67	1.16
18	....	.54	.38	.09	.35	.43	.15	.19	1.75	3.12	2.58	1.12
19	....	.43	.41	.14	.30	.36	.34	.11	1.92	3.37	2.60	1.10
20	....	.37	.45	.22	.27	.35	.31	.17	1.91	3.14	2.40	1.17
21	....	.30	.48	.24	.42	.37	.46	.05	2.03	3.11	2.39	1.16
22	....	.37	.43	.18	.59	.32	.47	.11	2.21	3.00	2.41	1.08
23	.53	.28	.14	+ .01	.59	.31	- .26	.21	2.38	2.93	2.16	1.03
24	.50	.20	.06	- .07	.68	.37	+ .22	.29	2.38	2.78	2.06	1.17
25	.48	.11	.24	.14	.66	.37	.49	.29	2.27	2.67	2.06	1.23

G3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+0.50	+0.08	-0.34	-0.06	+0.60	+0.38	+0.32	+0.22	+2.21	+2.71	+2.03	+1.17
27	.47	.05	.35	.10	.57	.38	.63	.24	2.21	2.78	1.94	1.11
28	.44	.05	.31	.12	.59	...	.57	.24	2.43	2.98	2.11	1.10
29	.43		.34	.11	.73	...	.80	.66	2.70	2.88	1.91	1.12
30	.43		.41	.03	.86	.95	.73	.72	2.56	2.70	1.91	1.06
31	.57		.49		.95		.51	.83		2.67		1.04

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. 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 20-21, 1945. Records available: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.66	4.86	3.47	3.11	3.12	3.06	3.39	3.98	4.82	5.60	5.24	4.71
2	3.66	4.70	3.45	3.09	3.03	2.97	3.26	3.86	4.40	5.57	5.20	4.68
3	3.78	4.96	3.43	3.17	2.95	2.94	3.15	3.76	4.28	5.79	5.14	4.65
4	3.59	4.50	3.41	3.11	2.89	3.04	3.06	3.68	4.14	5.90	5.11	4.63
5	3.56	4.35	3.39	3.14	2.88	3.61	2.99	3.81	4.04	5.81	5.56	4.86
6	3.54	4.22	3.34	3.13	2.85	3.17	2.96	4.22	3.96	5.72	5.34	4.62
7	3.52	4.29	3.32	3.12	2.95	2.97	2.91	4.32	4.32	6.32	5.26	4.56
8	4.67	4.70	3.30	3.10	3.13	2.90	2.87	3.77	4.20	6.22	5.20	4.63
9	5.11	4.24	3.35	3.26	3.14	2.96	2.81	3.73	4.19	6.16	5.15	4.51
10	4.70	4.12	3.39	3.18	3.08	2.88	2.80	3.68	4.00	6.09	5.11	4.47
11	4.54	4.05	3.41	3.14	3.02	2.83	2.91	3.67	5.21	6.02	5.10	4.44
12	4.39	4.00	3.46	3.09	2.92	2.78	2.98	3.62	4.65	5.96	5.47	4.40
13	4.29	3.96	3.48	3.16	2.89	3.07	3.23	3.59	4.48	5.89	5.35	4.37
14	4.19	3.92	3.47	3.10	2.87	2.76	3.24	3.78	4.36	5.83	5.30	4.66
15	4.13	4.07	3.43	3.05	2.85	2.73	3.33	4.00	4.52	5.76	5.25	4.32
16	4.15	3.88	3.42	4.49	2.83	2.77	3.27	3.88	4.14	5.74	5.22	4.28
17	4.04	3.84	3.40	3.83	2.80	2.71	3.19	4.42	5.20	5.71	5.18	4.24
18	4.00	3.78	3.38	3.60	2.78	2.89	3.16	4.73	5.43	5.68	5.16	4.18
19	3.96	3.74	3.36	3.41	2.74	2.96	3.07	4.10	5.20	5.73	5.12	4.15
20	3.91	3.77	3.34	3.26	3.06	3.06	2.98	4.64	5.47	5.68	5.07	4.14
21	3.89	3.68	3.26	3.14	3.31	3.40	2.90	4.16	5.52	5.60	5.04	4.24
22	3.86	3.68	3.64	3.02	2.92	3.42	3.80	4.07	5.26	5.54	5.01	4.18
23	3.82	3.65	3.54	2.92	2.83	3.22	4.62	4.09	5.96	5.48	4.98	4.79
24	4.14	3.61	3.67	2.85	2.76	3.08	4.39	4.56	5.78	5.43	4.94	4.52
25	3.90	3.58	3.50	2.81	2.80	3.71	4.21	4.20	5.65	5.37	5.18	4.40
26	3.84	3.55	3.40	4.38	2.78	3.46	4.43	4.10	5.53	5.31	4.90	4.27
27	3.80	3.52	3.34	3.77	2.75	3.97	5.02	3.98	5.40	5.67	4.83	4.21
28	3.78	3.50	3.26	3.55	2.76	4.07	4.71	4.48	5.69	5.54	4.78	4.19
29	3.75		3.20	3.39	2.72	3.74	4.52	5.02	5.46	5.44	4.76	4.16
30	4.28		3.16	3.25	3.17	3.55	4.31	4.70	5.33	5.36	4.73	4.13
31	5.24		3.13		3.09		4.13	4.58		5.30		4.07

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. 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, 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.77	4.49	4.06	3.25	4.24	3.31	e4.40	4.67	5.27	7.00	6.62	5.48
2	3.76	4.65	4.02	3.22	4.17	3.31	e4.35	4.63	5.28	7.11	6.52	5.44
3	3.78	4.85	3.97	3.20	4.08	3.32	4.32	4.59	5.25	7.49	6.44	5.39
4	3.76	4.90	3.93	3.17	4.00	3.33	4.26	4.54	5.20	7.91	6.36	5.35
5	3.75	4.91	3.89	3.16	3.92	3.56	4.18	4.76	5.15	7.96	6.58	5.36
6	3.73	4.88	3.85	3.13	3.84	3.62	4.14	4.79	5.10	7.65	6.50	5.34
7	3.72	4.87	3.82	3.10	3.78	3.64	4.05	4.80	5.08	...	6.41	5.31
8	3.88	4.99	3.78	3.09	3.86	3.63	3.97	4.77	5.15	8.68	6.33	5.28
9	4.19	5.02	3.73	3.08	3.83	3.61	3.89	4.74	5.10	8.57	6.25	5.25
10	4.38	5.00	3.69	3.07	3.79	3.60	3.81	4.68	5.06	8.44	6.18	5.21
11	4.48	4.97	3.66	3.06	3.76	3.56	3.79	4.62	5.05	8.28	6.14	5.19
12	4.51	4.93	3.62	3.06	3.72	3.51	3.77	4.56	5.06	8.12	6.30	5.16
13	4.52	4.87	3.58	3.06	3.68	3.48	3.76	4.51	5.07	7.95	6.31	5.13
14	4.51	4.82	3.56	3.04	3.63	3.44	3.94	4.45	5.08	7.81	6.28	5.15
15	4.50	4.78	3.53	3.03	3.59	3.41	3.97	4.42	5.14	e7.73	6.22	5.09

G39--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	4.46	4.73	3.50	3.33	3.54	3.37	3.95	4.39	5.16	7.66	6.17	5.05
17	4.42	4.66	3.47	3.37	3.50	3.33	3.95	4.49	5.19	7.59	6.10	5.01
18	4.40	4.60	3.43	3.44	3.45	3.52	3.93	4.54	6.58	7.53	6.06	4.95
19	4.36	4.54	3.41	3.47	3.40	3.52	3.91	4.56	6.38	7.45	6.00	4.90
20	4.31	4.50	3.38	3.48	3.36	3.53	3.88	4.65	6.34	7.35	5.95	4.86
21	4.28	4.45	3.35	3.49	3.65	3.64	3.83	4.68	6.30	7.23	5.91	4.85
22	4.25	4.41	3.33	3.47	3.59	3.77	4.00	4.70	7.25	7.12	5.87	4.82
23	4.21	4.36	3.32	3.44	3.54	3.80	4.09	4.69	7.49	6.99	5.83	4.78
24	4.20	4.31	3.36	3.40	3.49	3.79	4.16	4.71	7.49	6.88	5.78	5.04
25	4.18	4.27	3.36	3.35	3.42	3.94	4.23	4.73	7.29	6.78	5.75	5.06
26	4.16	4.23	3.36	4.16	3.37	3.95	4.27	4.74	7.15	6.68	5.70	5.02
27	4.14	4.16	3.35	4.26	3.32	4.17	4.42	4.71	7.08	7.13	5.65	4.98
28	4.11	4.12	3.34	4.31	3.28	4.39	4.57	4.72	7.34	7.15	5.60	4.93
29	4.09		3.32	4.33	3.23	4.45	4.66	4.92	7.21	6.98	5.57	4.87
30	4.18		3.30	4.29	3.21	4.47	4.69	5.12	7.08	6.86	5.53	4.83
31	4.35		3.27		3.31		4.69	5.18		6.73		4.77

e Estimated.

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. 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: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.39	6.31	6.11	5.81	5.63	4.67	5.69	5.89	6.21	6.72	7.32	7.01
2	6.38	6.29	6.10	5.80	5.61	4.78	5.69	5.89	6.21	6.83	7.29	7.00
3	6.37	6.33	6.09	5.80	5.59	4.99	5.70	5.92	6.21	6.90	7.28	6.99
4	6.36	6.32	6.08	5.79	5.57	5.15	5.69	5.96	6.21	6.93	7.27	6.97
5	6.34	6.30	6.07	5.78	5.55	5.28	5.67	5.95	6.21	6.91	7.30	7.00
6	6.33	6.29	6.04	5.76	5.52	5.30	5.67	5.98	6.20	6.92	7.27	6.97
7	6.32	6.37	6.03	5.75	5.50	5.29	5.66	5.98	6.21	6.96	7.26	6.96
8	6.31	6.42	6.02	5.75	5.49	5.23	5.74	5.98	6.25	6.98	7.24	6.96
9	6.44	6.38	6.00	5.76	5.48	5.17	5.72	5.98	6.25	7.01	7.22	6.96
10	6.43	6.37	5.99	5.74	5.46	5.12	5.69	5.97	6.26	7.03	7.21	6.92
11	6.43	6.34	5.98	5.73	5.43	5.05	5.66	5.96	6.28	7.03	7.20	6.89
12	6.41	6.33	5.98	5.71	5.41	4.98	5.65	e5.96	6.27	7.02	7.26	6.86
13	6.39	6.31	5.97	5.74	5.38	4.96	5.67	e5.95	6.27	7.03	7.24	6.85
14	6.38	6.29	5.96	5.73	5.34	4.94	5.66	e5.95	6.29	7.09	7.25	6.85
15	6.37	6.28	5.95	5.72	5.30	5.22	5.65	e6.00	6.29	7.10	7.23	6.86
16	6.36	6.28	5.92	5.66	5.25	5.28	5.64	e6.00	6.30	7.09	7.22	6.84
17	6.35	6.26	5.91	5.82	5.20	5.29	5.62	6.00	6.36	7.18	7.21	6.83
18	6.34	6.25	5.90	5.80	5.14	5.25	5.60	6.01	6.40	7.32	7.20	6.79
19	6.34	6.23	5.88	5.78	5.09	5.20	5.58	6.01	6.41	7.33	7.19	6.77
20	6.34	6.22	5.87	5.76	5.07	5.26	5.55	6.03	6.42	7.33	7.17	6.76
21	6.33	6.21	5.86	5.75	5.15	5.35	5.53	6.04	6.45	7.32	7.16	6.74
22	6.32	6.20	5.94	5.73	5.12	5.37	5.53	6.06	6.51	7.31	7.15	6.73
23	6.31	6.19	5.89	5.71	5.06	5.37	5.69	6.07	6.51	7.29	7.11	6.72
24	6.32	6.18	5.90	5.70	4.99	5.38	5.69	6.09	6.51	7.28	7.09	6.73
25	6.31	6.17	5.89	5.67	4.93	5.41	5.70	6.10	6.51	7.26	7.10	6.73
26	6.30	6.15	5.87	5.71	4.83	5.64	5.70	6.10	6.51	7.25	7.09	6.71
27	6.29	6.14	5.86	5.70	4.74	5.68	5.73	6.11	6.54	7.42	7.08	6.70
28	6.28	6.13	5.84	5.69	4.79	5.70	5.76	6.12	6.65	7.39	7.07	6.69
29	6.27		5.83	5.66	4.72	5.72	5.84	6.18	6.67	7.37	7.05	6.68
30	6.32		5.83	5.64	4.70	5.71	5.84	e6.20	6.67	7.36	7.03	6.68
31	6.32		5.82		4.69		5.86	6.22		7.34		6.67

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. 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: 1945-53.

G218--Continued.

Daily highest water level above msl from recorder graph											
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. Dec.
1	5.62	e5.60	e5.50	....	4.37	3.86	5.15	5.66	....	....	6.09
2	5.61	e5.68	e5.48	....	4.26	3.95	5.10	5.67	....	....	6.07
3	5.61	5.75	e5.46	....	4.19	3.83	5.05	5.64	....	....	6.37 6.05
4	5.58	5.75	e5.46	....	4.09	3.97	4.96	5.60	....	....	6.35 6.04
5	5.58	5.75	e5.44	....	4.00	4.40	4.88	5.60	....	....	6.35 6.05
6	5.58	5.73	e5.42	....	3.93	4.27	4.86	5.59	....	....	6.33 6.05
7	5.58	5.73	e5.40	....	3.90	4.15	4.86	5.57	....	....	6.32 6.03
8	5.67	5.77	e5.37	....	4.08	4.02	4.80	5.54	....	....	6.32 6.02
9	5.77	5.77	e5.34	....	4.17	3.91	4.72	5.52	....	....	6.31 6.01
10	5.78	e5.77	e5.31	....	4.08	3.80	4.67	5.50	....	....	6.30 6.00
11	5.78	e5.77	e5.28	....	4.00	3.70	4.60	5.48	....	....	6.30 5.98
12	5.78	e5.76	e5.25	....	3.90	3.62	4.60	5.45	....	....	6.29 5.97
13	5.77	e5.76	e5.23	4.21	3.83	3.53	4.58	5.42	....	....	6.28 5.95
14	5.76	e5.75	e5.21	4.12	3.76	3.87	4.55	5.36	....	....	6.28 5.95
15	5.75	e5.75	e5.20	4.05	3.71	3.78	4.90	5.34	5.75	....	6.27 5.93
16	5.73	e5.74	e5.18	4.89	3.67	4.35	4.88	5.30	5.77	....	6.27 5.91
17	5.72	e5.73	e5.16	4.83	3.63	4.28	4.91	5.25	6.18	....	6.26 5.90
18	5.68	e5.72	e5.13	4.83	3.57	4.19	4.90	5.17	6.24	....	6.25 5.87
19	5.68	e5.70	e5.10	4.83	3.53	4.25	4.84	5.13	6.24	....	6.25 5.86
20	5.68	e5.68	e5.08	4.81	4.10	4.17	4.78	5.12	....	....	6.26 5.86
21	5.67	e5.66	e5.06	4.78	4.11	4.48	4.72	5.11	....	....	6.24 5.86
22	5.65	e5.64	e5.35	4.71	4.02	4.50	4.63	5.10	....	....	6.22 5.86
23	5.65	e5.62	e5.33	4.62	3.89	4.43	4.55	5.10	....	....	6.21 5.85
24	5.66	e5.60	e5.32	4.53	3.80	4.34	4.66	5.09	....	....	6.20 5.91
25	5.65	e5.58	e5.30	4.44	3.70	4.56	4.81	5.08	....	....	6.18 5.92
26	5.65	e5.55	e5.28	4.79	3.60	5.08	5.08	5.07	....	....	6.17 5.92
27	5.65	5.52	e5.26	4.70	3.57	5.11	5.28	5.07	....	....	6.15 5.88
28	5.65	5.52	e5.24	4.61	3.50	5.13	5.59	....	....	....	6.13 5.85
29	5.64	....	....	4.53	3.46	5.15	5.61	....	....	....	6.11 5.86
30	5.63	....	....	4.42	3.62	5.17	5.70	....	....	....	6.10 5.86
31	e5.61	....	....	....	3.94	....	5.65	....	....	....	5.85

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. 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 20-23, 1945. Records available: 1944-53.

Daily highest water level above msl from recorder graph											
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. Dec.
1	....	3.54	2.62	2.44	2.65	2.89	2.51	2.63	2.97	e4.25	4.38 e3.77
2	2.63	3.44	2.61	2.52	2.66	2.70	2.43	2.58	2.92	4.48	4.33 e3.75
3	2.67	3.56	2.59	2.59	2.61	2.68	2.39	2.51	2.81	....	4.29 e3.74
4	2.63	3.45	2.58	2.52	2.58	2.77	2.34	2.45	2.69	....	4.25 3.73
5	2.60	3.36	2.53	2.61	2.71	2.67	2.29	2.41	2.63	4.99	4.38 3.63
6	2.68	3.28	2.51	2.64	2.75	....	2.28	2.57	2.60	4.84	4.33 3.59
7	2.56	3.24	2.54	2.65	2.67	....	2.44	2.58	2.57	6.38	4.28 3.47
8	2.80	3.40	2.54	2.66	2.79	....	2.45	2.55	2.75	5.77	4.26 3.41
9	3.33	3.35	2.68	2.72	2.90	....	2.43	2.51	2.88	5.65	4.28 3.36
10	3.41	3.27	2.77	2.74	2.93	....	2.41	2.50	2.66	5.46	4.23 3.30
11	3.31	3.20	2.80	2.73	2.92	....	2.43	2.48	2.95	5.28	4.21 3.31
12	3.22	3.15	2.82	2.71	2.87	2.82	2.45	2.45	3.04	5.15	4.55 3.27
13	3.16	3.09	2.83	2.70	2.87	2.77	2.36	2.42	3.00	5.03	4.50 3.24
14	3.10	3.05	2.82	2.72	2.88	2.73	2.29	2.40	2.98	4.97	4.47 3.27
15	3.06	3.03	2.80	2.68	2.88	2.77	2.59	2.38	2.97	4.86	4.43 3.17
16	3.04	3.01	2.79	2.98	2.87	2.80	2.45	2.36	3.05	4.92	4.41 3.11
17	3.03	2.99	2.77	2.81	2.85	2.77	2.40	2.41	3.69	4.84	4.38 3.07
18	3.00	2.94	2.75	2.65	2.81	2.87	2.35	2.48	5.01	4.81	4.34 3.02
19	2.96	2.90	2.71	2.53	2.78	2.92	2.30	2.49	4.33	4.87	4.28 3.00
20	2.94	2.86	2.68	2.43	2.76	2.80	2.24	2.76	4.19	4.78	4.23 2.98
21	2.99	2.83	2.65	2.38	2.97	2.70	2.19	2.81	....	4.75	4.18 2.98
22	2.89	2.78	2.62	2.32	2.80	2.64	2.16	2.75	....	4.71	4.14 2.98
23	2.88	2.75	2.72	2.27	2.78	2.57	2.47	e2.73	....	4.66	4.05 2.96
24	2.94	2.73	2.78	2.21	2.74	2.51	2.61	e2.70	....	4.61	4.01 3.15
25	2.91	2.71	2.74	2.26	2.81	2.79	2.63	e2.68	4.80	4.56	3.99 3.09

42 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

G350--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	2.85	2.70	2.68	3.04	2.80	2.58	2.63	e2.66	4.60	4.48	3.93	3.03
27	2.83	2.64	2.59	3.07	2.78	2.68	2.84	2.65	e4.42	5.01	3.89	2.98
28	2.82	2.63	2.52	2.89	2.77	2.77	2.95	2.68	e4.85	4.75	3.86	2.96
29	2.80		2.47	2.78	2.74	2.71	2.87	2.91	e4.65	4.60	3.80	2.95
30	2.78		2.44	2.70	2.77	e2.60	2.79	2.96	e4.45	4.50	e3.79	2.87
31	3.52		2.45		2.86		2.71	2.95		4.43		2.81

e Estimated.

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. Land-surface datum is 12.15 feet above msl. Highest water level 6.55 above msl, Sept. 24, 1948; lowest 0.18 above msl, June 29, 1950. Records available: 1947-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.15	1.23	1.14	0.98	1.16	1.50	1.55	1.84	1.90	2.75	2.75	1.68
2	1.04	1.22	1.14	1.00	1.03	1.53	1.45	1.77	1.82	3.02	2.69	1.78
3	1.09	1.26	1.15	1.00	.89	1.60	1.43	1.73	1.95	3.29	2.64	1.92
4	.98	1.26	1.11	.95	.94	1.68	1.39	1.58	2.05	3.72	2.69	1.90
5	.94	1.21	1.00	.94	.99	1.68	1.32	1.60	2.15	3.75	2.70	1.75
6	.95	1.18	.93	1.05	.98	1.58	1.33	1.67	2.19	3.79	2.63	1.69
7	.94	1.18	.92	1.07	1.00	1.54	1.31	1.63	2.08	4.02	2.58	1.63
8	e.86	1.13	.80	.98	1.09	1.48	1.32	1.55	2.00	4.33	2.58	1.63
9	e.94	1.23	.92	1.03	1.13	1.39	1.22	1.65	2.04	4.28	2.70	1.72
10	e.96	1.32	1.07	1.12	1.18	1.30	1.22	1.69	2.05	3.86	2.73	1.74
11	e.87	1.30	1.15	1.22	1.30	1.20	1.36	1.75	1.96	3.77	2.70	1.79
12	e.86	1.23	1.13	1.30	1.33	1.14	1.31	1.75	2.07	3.80	2.83	1.78
13	e1.06	1.21	1.16	1.21	1.28	1.16	1.36	1.69	2.13	3.74	2.87	1.70
14	e1.12	1.33	1.18	1.15	1.20	1.15	1.38	1.64	2.09	3.59	2.95	1.65
15	e1.22	1.32	1.27	1.17	1.16	1.12	1.38	1.60	2.10	3.47	3.01	1.44
16	1.22	1.19	1.25	1.18	1.08	1.14	1.30	1.58	2.09	3.36	2.95	1.40
17	1.30	1.20	1.24	1.09	1.08	1.15	1.36	1.62	2.11	3.43	2.85	1.35
18	1.30	1.13	1.29	1.03	1.02	1.13	1.40	1.66	2.14	3.48	2.75	1.31
19	1.19	1.20	1.23	.80	1.06	1.16	1.33	1.72	2.15	3.46	2.66	1.40
20	1.13	1.22	1.11	.62	.98	1.18	1.27	1.75	2.20	3.45	2.63	1.46
21	1.14	1.08	1.11	.66	1.06	1.23	1.30	1.79	2.19	3.50	2.54	1.50
22	1.05	.84	1.17	.73	1.07	1.25	1.39	1.77	2.22	3.52	2.45	1.55
23	1.20	.79	1.08	.79	1.10	1.27	1.37	1.85	2.75	3.55	2.30	1.52
24	1.16	.85	1.04	.72	1.11	1.32	1.60	1.99	2.95	3.48	2.15	1.49
25	.99	.94	.90	.82	1.07	1.36	1.90	2.06	3.05	3.40	2.09	1.43
26	.97	.98	.84	.88	1.07	1.32	2.03	2.09	3.10	3.29	1.95	1.39
27	1.08	.91	.85	.97	.99	1.47	2.10	2.05	2.86	3.17	1.76	1.40
28	1.09	.97	.87	1.08	1.08	1.63	2.15	2.00	2.62	3.13	1.70	1.50
29	1.06		.99	1.20	1.50	1.65	2.17	2.00	2.62	3.05	1.69	1.50
30	1.11		1.03	1.19	1.59	1.64	2.18	1.95	2.70	2.82	1.63	1.38
31	1.26		1.02		1.55		2.04	1.90		2.76		1.31

e Estimated.

Daily lowest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.69	0.85	0.66	0.56	0.64	1.15	1.11	1.49	1.65	2.65	2.55	1.39
2	.67	.84	.75	.64	.48	1.15	1.07	1.44	1.62	2.75	2.45	1.49
3	.64	.88	.77	.56	.51	1.25	1.10	1.37	1.69	2.94	2.41	1.56
4	.59	.92	.70	.60	.60	1.37	.98	1.26	1.81	3.22	2.40	1.63
5	.49	.90	.56	.61	.58	1.29	.97	1.30	1.93	3.57	2.42	1.45
6	.66	.89	.56	.76	.63	1.20	.97	1.37	1.94	3.49	2.34	1.38
7	.64	.86	.48	.62	.63	1.13	.93	1.28	1.81	3.56	2.26	1.32
8	e.66	.80	.50	.68	.65	1.07	.88	1.24	1.76	4.02	2.24	1.31
9	e.70	.80	.58	e.64	.74	.93	.78	1.32	1.79	3.86	2.37	1.40
10	e.57	.97	.74	e.72	.75	.86	.80	1.38	1.80	3.61	2.43	1.40
11	e.47	.99	.81	.77	.84	.75	1.00	1.45	1.70	3.52	2.38	1.50
12	e.50	.85	.76	.88	.87	.70	.88	1.43	1.85	3.55	2.52	1.40
13	e.68	.77	.75	.68	.82	.78	1.02	1.39	1.88	3.46	2.57	1.40
14	e.75	.78	.75	.65	.74	.74	1.06	1.38	1.87	3.38	2.61	1.34
15	e.75	.75	.80	.67	.68	.77	.99	1.34	1.88	3.26	2.72	1.17

G476--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.81	.71	.73	.72	.66	.83	.98	1.33	1.88	3.21	2.63	1.14
17	.85	.72	.78	.66	.66	.86	1.11	1.35	1.87	3.27	2.54	1.07
18	.83	.70	.83	.51	.66	.82	1.10	1.48	1.89	3.28	2.39	.99
19	.74	.85	.77	.28	.69	.86	1.04	1.46	1.90	3.17	2.31	.96
20	.75	.80	.71	.30	.68	.86	1.00	1.49	1.92	3.12	2.25	1.10
21	.71	.56	.81	.41	.78	.96	1.01	1.51	1.88	3.13	2.14	1.16
22	.72	.48	.79	.46	.80	.91	e1.08	1.45	1.85	3.10	2.06	1.20
23	.80	.48	.77	.44	.71	.95	e1.03	1.54	2.23	3.11	1.90	1.16
24	.66	.49	.64	.38	.77	.96	1.14	1.63	2.60	3.05	1.81	1.15
25	.58	.52	.51	.42	.66	.99	1.45	1.70	2.70	2.99	1.73	1.15
26	.60	.64	.50	.49	.62	.94	1.66	1.73	2.70	2.90	1.63	1.13
27	.68	.54	.46	.54	.55	1.05	1.72	1.77	2.49	2.82	1.51	1.08
28	.76	.55	.50	.62	.61	1.25	1.77	1.67	2.34	2.85	1.46	1.22
29	.69		.56	.77	.92	1.29	1.80	1.73	2.45	2.70	1.43	1.19
30	.66		.65	.77	1.25	1.22	1.75	1.67	2.56	2.62	1.42	1.15
31	.81		.59		1.14		1.62	1.65		2.55		1.05

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. 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: 1947-53. 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	1.17	1.61	1.03	....	1.23	1.55	1.37	1.38	1.73	2.65	2.42	1.73
2	1.15	1.56	1.06	....	1.15	1.58	1.31	1.30	1.53	2.97	2.37	1.76
3	1.19	1.65	1.05	0.89	1.10	1.59	1.31	1.25	1.57	3.16	2.32	1.87
4	1.09	1.61	1.06	.85	1.07	1.67	1.30	1.16	1.61	3.70	2.34	1.83
5	1.06	1.48	.99	.80	1.06	1.70	1.22	1.59	1.67	3.43	2.40	1.75
6	1.03	1.44	.86	.89	1.08	1.64	1.20	1.67	1.70	3.24	2.36	1.71
7	1.00	1.41	.83	.94	1.09	1.55	1.18	1.51	1.75	....	2.29	1.66
8	1.38	1.53	.73	.93	1.28	1.48	1.16	1.36	1.61	....	2.35	1.66
9	1.69	1.37	.74	.94	1.27	1.49	1.08	1.32	1.70	2.58	2.43	1.73
10	1.64	1.37	.85	1.02	1.25	1.44	1.03	1.32	1.66	2.32	2.43	1.75
11	1.46	1.34	.99	1.07	1.29	1.38	1.26	1.30	2.06	2.15	2.51	1.77
12	1.30	1.32	.97	1.12	1.33	1.32	1.26	1.28	2.10	2.13	2.88	1.75
13	1.33	1.28	.99	1.12	1.32	1.53	1.20	1.26	2.11	....	2.88	1.73
14	1.31	1.30	1.02	1.01	1.27	1.49	1.26	1.23	2.06	....	2.83	1.74
15	1.34	1.36	1.04	.92	1.23	1.39	1.27	1.19	e1.99	2.81	2.82	1.50
16	1.33	1.19	1.04	1.39	1.25	1.37	1.16	1.15	e1.98	2.86	2.81	1.49
17	1.39	1.20	1.03	1.28	1.23	1.33	1.15	1.21	2.18	2.89	2.76	1.43
18	1.39	1.07	1.08	1.12	1.21	1.27	1.16	1.23	2.64	3.00	2.62	1.37
19	1.31	1.09	1.05	1.04	1.18	1.26	1.12	1.23	2.62	3.02	2.55	1.41
20	1.29	1.10	.94	1.03	1.36	1.26	1.04	1.31	2.94	2.99	2.49	1.49
21	1.27	1.05	.98	1.00	1.27	1.37	1.02	1.35	2.84	3.01	2.41	1.54
22	1.18	.88	1.06	.88	1.21	1.36	1.71	1.31	2.90	3.04	2.34	1.56
23	1.24	.83	1.03	.90	1.27	1.36	1.61	1.37	3.18	3.03	2.23	1.79
24	1.30	.84	1.01	.90	1.30	1.36	1.59	1.48	3.04	3.01	2.14	1.79
25	1.15	.91	.91	.95	1.28	1.38	1.58	1.52	2.99	2.95	2.12	1.65
26	1.09	.97	.82	1.13	1.28	1.33	1.56	1.54	2.98	2.92	1.99	1.61
27	1.15	.93	.79	1.11	1.24	1.49	1.74	1.52	2.82	3.25	1.86	1.54
28	1.17	.93	.86	1.11	1.23	1.52	1.76	1.67	2.94	3.00	1.81	1.61
29	1.17		.91	1.28	1.28	1.50	1.73	1.73	2.77	2.77	1.76	1.60
30	....		....	1.29	1.43	1.46	1.71	1.90	2.53	2.52	1.72	1.52
31	....		....		1.51		1.57	1.88		2.43		1.45

e Estimated.

G490--Continued.

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	1.37	0.73	....	1.00	1.38	1.05	1.05	1.36	2.22	2.20	1.53
2	.92	1.32	.83	....	.95	1.38	1.04	1.02	1.28	2.53	2.16	1.55
3	.96	1.40	.82	0.63	.89	1.40	1.05	.97	1.32	2.76	2.09	1.58
4	.88	1.34	.82	.60	.88	1.43	1.02	.89	1.37	2.92	2.07	1.66
5	.86	1.25	.66	.57	.89	1.45	.95	.92	1.42	3.14	2.14	1.53
6	.84	1.23	.64	.67	.93	1.34	.93	1.33	1.45	2.97	2.13	1.49
7	.81	1.20	.59	.67	.95	1.24	.90	1.17	1.42	2.87	2.03	1.44
8	.83	1.18	.55	.69	1.01	1.29	.86	1.08	1.35	....	2.02	1.41
9	1.26	1.17	.56	.70	1.06	1.27	.79	1.04	1.32	2.26	2.13	1.47
10	1.32	1.14	.57	.74	1.04	1.23	.75	1.09	1.39	1.97	2.18	1.50
11	1.18	1.09	.68	.73	1.07	1.18	.85	1.06	1.30	1.88	2.15	1.55
12	1.12	1.08	.76	.83	1.10	1.13	.92	1.07	1.85	1.86	2.43	1.51
13	1.05	1.02	.73	.78	1.10	1.17	.95	1.04	1.80	....	2.61	1.52
14	1.07	.98	.74	.59	1.06	1.22	.99	1.00	e1.75	....	2.59	1.36
15	1.05	.98	.74	.68	1.05	1.22	.97	.95	e1.72	2.61	2.53	1.28
16	1.07	.90	.74	.87	1.08	1.20	.93	.93	e1.69	2.56	2.52	1.25
17	1.08	.88	.73	.88	1.05	1.11	.95	.98	e1.68	2.60	2.48	1.21
18	1.09	.82	.80	.86	1.02	1.08	.96	1.03	2.16	2.68	2.32	1.18
19	1.03	.84	.75	.86	1.03	1.09	.90	1.01	2.34	2.72	2.27	1.12
20	1.04	.85	.69	.87	1.04	1.06	.83	1.09	2.31	2.67	2.22	1.19
21	1.00	.75	.77	.73	1.11	1.13	.79	1.09	2.47	2.65	2.12	1.28
22	.95	.67	.83	.72	1.07	1.13	.85	1.04	2.34	2.65	2.02	1.32
23	1.03	.66	.84	.75	1.14	1.13	1.26	1.08	2.75	2.67	1.95	1.29
24	1.03	.64	.77	.75	1.15	1.11	1.27	1.14	2.65	2.65	1.88	1.47
25	.97	.67	.67	.79	1.12	1.11	1.26	1.21	2.65	2.65	1.83	1.44
26	.90	.74	.63	.81	1.10	1.04	1.24	1.20	2.57	2.57	1.69	1.34
27	.89	.73	.58	.93	1.06	1.14	1.27	1.21	2.43	2.51	1.66	1.33
28	.95	.72	.62	.93	1.04	1.20	1.40	1.29	2.62	2.66	1.58	1.44
29	.95		.65	1.06	1.08	1.17	1.39	1.43	2.37	2.41	1.58	1.38
30	e.89	....		1.14	1.21	1.10	1.29	1.48	2.29	2.29	1.55	1.31
31	....		....		1.33		1.17	1.50		2.24		1.25

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. Land-surface datum is 5.65 feet above msl. Highest water level 4.77 above msl, Oct. 7-8, 1953; lowest 0.43 above msl, July 1-2, 1950. Records available: 1947-53. Water level affected by tides in Goulds Canal.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.82	1.67	1.46	0.99	1.54	1.63	2.58	2.38	....	3.34	3.18	2.45
2	1.81	1.54	1.47	.97	1.45	1.63	2.54	2.26	....	4.05	3.11	2.46
3	1.90	1.71	1.46	.94	1.35	1.51	2.50	2.17	....	4.24	3.12	2.45
4	1.87	1.68	1.42	.93	1.26	1.63	2.39	2.20	....	4.37	3.26	2.50
5	1.80	1.54	1.40	.93	1.18	1.73	2.30	2.77	....	3.97	3.33	2.60
6	1.75	1.47	1.35	.90	1.13	1.62	2.22	3.28	....	....	3.23	2.59
7	1.68	2.43	1.31	.87	1.09	1.48	2.19	3.16	....	4.77	3.14	2.52
8	1.87	2.57	1.30	.84	1.24	1.35	2.12	2.98	....	4.77	3.14	2.50
9	3.44	2.00	1.29	.85	1.37	1.28	2.05	2.86	....	4.67	3.02	2.47
10	3.10	1.83	1.27	.88	1.37	1.26	1.99	2.78	....	4.57	3.03	2.45
11	2.24	1.66	1.26	1.98	1.33	1.24	3.10	2.78	....	4.45	3.33	2.42
12	1.92	1.55	1.30	1.98	1.24	1.20	3.10	2.56	....	4.31	3.82	2.40
13	1.76	1.47	1.33	e1.77	1.15	1.36	3.03	2.33	....	4.20	3.57	2.25
14	1.89	1.48	1.32	1.48	1.10	1.48	2.76	2.25	....	4.23	3.81	2.26
15	1.94	1.48	1.30	1.35	1.06	1.47	2.77	2.33	3.89	4.06	3.57	2.24
16	1.96	1.43	1.30	2.58	1.02	1.42	2.90	2.34	....	4.10	4.01	2.23
17	1.97	1.52	1.30	1.98	.99	1.47	3.39	2.55	....	4.07	3.66	2.22
18	1.97	1.60	1.29	1.64	.95	1.47	3.13	2.45	4.12	4.01	3.42	2.19
19	1.95	1.64	1.27	1.44	.90	3.10	2.87	2.37	3.91	3.87	3.20	2.17
20	1.95	1.65	1.24	1.28	2.10	4.43	2.69	2.49	3.48	3.83	3.06	2.24
21	1.95	1.60	1.22	1.30	3.16	4.49	2.75	2.44	....	3.76	2.95	2.32
22	1.95	1.58	1.20	1.29	2.66	3.90	2.36	2.39	4.23	3.77	2.85	2.33
23	1.92	1.57	1.18	1.22	1.99	2.94	2.43	2.32	....	3.64	2.82	2.56
24	2.23	1.54	1.28	1.15	1.72	2.56	4.03	2.58	....	3.57	2.73	2.99
25	1.80	1.51	1.30	1.10	1.55	2.52	3.62	2.64	....	3.50	2.65	2.37

G518--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.71	1.50	1.21	2.06	1.52	2.70	2.92	2.69	....	4.08	2.57	2.09
27	1.78	1.46	1.13	2.06	1.44	2.92	3.04	2.69	....	3.85	2.51	1.98
28	1.50	1.48	1.10	1.97	1.34	2.90	2.98	3.54	....	3.85	2.44	1.95
29	1.39		1.04	1.78	1.26	2.75	2.84	3.44	3.82	3.62	....	1.93
30	1.69		1.02	1.65	1.34	2.65	2.67	3.46	3.63	3.38	2.41	1.83
31	1.72		1.01		1.55		2.54	....		3.25		1.90

e Estimated.

Daily lowest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.76	1.44	1.44	0.96	1.45	1.55	2.48	2.26	....	3.23	3.07	2.41
2	1.76	1.40	1.42	.95	1.35	1.40	2.46	2.17	....	3.21	3.04	2.42
3	1.82	1.56	1.40	.91	1.26	1.37	2.39	2.08	....	3.77	3.03	2.41
4	1.80	1.46	1.38	.91	1.18	1.44	2.30	2.07	....	3.97	2.99	2.44
5	1.75	1.39	1.36	.89	1.13	1.57	2.22	2.20	....	3.69	3.23	2.50
6	1.68	1.34	1.32	.87	1.09	1.46	2.18	2.77	....	....	3.04	2.52
7	1.65	1.34	1.30	.84	1.08	1.35	2.12	2.98	....	4.25	2.99	2.47
8	1.65	2.00	1.27	.84	1.09	1.26	2.05	2.86	....	4.62	3.00	2.46
9	1.87	1.78	1.26	.83	1.24	1.18	1.99	2.76	....	4.57	2.97	2.44
10	2.24	1.66	1.24	.83	1.33	1.22	1.93	2.74	....	4.45	2.99	2.41
11	1.92	1.54	1.24	.83	1.24	1.19	1.92	2.56	....	4.31	3.01	2.38
12	1.75	1.45	1.26	e1.77	1.15	1.17	2.23	2.33	....	4.20	3.57	2.22
13	1.66	1.39	1.29	1.45	1.10	1.15	2.06	2.22	....	4.08	3.37	2.15
14	1.76	1.37	1.28	1.34	1.05	1.36	2.46	2.15	....	4.01	3.31	2.24
15	1.89	1.35	1.26	1.18	1.02	1.42	2.33	2.15	....	3.94	3.39	2.21
16	1.93	1.32	1.27	1.15	.99	1.40	2.24	2.23	....	3.94	3.39	2.20
17	1.96	1.30	1.26	1.64	.95	1.41	2.90	2.23	....	3.92	3.42	2.19
18	1.95	1.52	1.26	1.44	.90	1.40	2.87	2.35	....	3.83	3.20	2.16
19	1.95	1.60	1.24	1.28	.87	1.38	2.69	2.31	....	3.72	3.06	2.15
20	1.93	1.60	1.21	1.22	.86	2.55	2.59	2.31	3.36	3.65	2.95	2.15
21	1.95	1.57	1.19	1.28	2.10	3.68	e2.44	2.39	....	3.64	2.85	2.24
22	1.93	1.56	1.16	1.22	1.99	2.94	2.24	2.31	....	3.56	2.82	2.32
23	1.88	1.54	1.16	1.15	1.72	2.56	2.25	2.26	....	3.50	2.73	2.31
24	1.80	1.51	1.18	1.10	1.54	2.52	2.35	2.25	....	3.45	2.65	2.36
25	1.56	1.49	1.21	1.04	1.45	2.50	2.92	2.53	....	3.40	2.57	2.07
26	1.48	1.46	1.13	1.04	1.44	2.48	2.66	2.64	....	3.45	2.51	1.92
27	1.50	1.42	1.08	1.97	1.34	2.70	2.62	2.67	....	....	2.44	1.90
28	1.36	1.43	1.04	1.78	1.26	2.66	2.78	2.67	3.93	3.62	2.39	1.84
29	1.27		1.00	1.65	1.22	2.62	2.64	3.36	3.63	3.38	....	1.79
30	1.23		.99	1.54	1.22	2.58	2.52	3.25	3.34	3.25	2.35	1.73
31	1.57		.98		1.34		2.38	....		3.16		1.71

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, 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: 1947-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.57	6.16	5.45	4.74	5.67	4.02	5.27	6.23	6.84	7.70	7.32	6.65
2	5.54	6.10	5.41	4.71	5.53	4.04	5.22	6.08	6.55	7.87	7.27	6.61
3	5.58	6.68	5.37	4.68	5.41	4.04	5.16	5.96	6.45	7.82	7.23	6.58
4	5.51	6.32	5.34	4.65	5.30	4.03	5.13	5.87	6.35	7.97	7.18	6.57
5	5.48	6.21	5.31	4.62	5.20	4.18	5.11	6.99	6.29	7.90	7.24	6.90
6	5.46	6.12	5.28	4.59	5.10	4.27	5.10	7.08	6.24	7.86	7.17	6.68
7	5.44	6.22	5.25	4.56	5.03	4.27	5.05	6.88	6.44	8.32	7.60	6.63
8	6.05	6.70	5.22	4.52	5.00	4.25	5.00	6.68	6.35	8.33	7.27	6.59
9	6.79	6.33	5.19	4.50	4.96	4.22	4.96	6.43	6.27	8.25	7.20	6.57
10	6.53	6.24	5.15	4.47	4.91	4.17	4.93	6.33	6.22	8.21	7.13	6.54
11	6.40	6.15	5.12	4.44	4.84	4.12	4.93	6.19	6.44	8.16	7.11	6.51
12	6.27	6.08	5.10	4.41	4.78	4.07	4.94	6.07	6.35	8.11	7.47	6.48
13	6.20	6.03	5.09	4.38	4.72	4.03	5.00	5.98	6.54	8.07	7.34	6.45
14	6.12	5.97	5.07	4.37	4.65	4.03	5.19	5.93	6.50	8.02	7.30	6.73
15	6.07	6.02	5.03	4.34	4.59	4.01	5.80	6.14	6.60	7.99	7.24	6.47

G551--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	6.01	5.92	5.00	4.82	4.53	4.00	5.70	6.05	6.55	8.02	7.20	6.41
17	5.95	5.87	4.97	4.96	4.47	3.98	5.55	6.73	6.67	7.97	7.14	6.36
18	5.91	5.81	4.95	4.96	4.42	3.95	5.44	6.39	7.10	7.96	7.09	6.33
19	5.85	5.77	4.92	4.92	4.35	3.99	5.34	6.31	7.47	7.93	7.05	6.29
20	5.81	5.73	4.89	4.87	4.31	4.02	5.26	7.18	6.94	7.90	7.01	6.26
21	5.79	5.69	4.85	4.82	4.28	4.04	5.22	6.78	7.15	7.85	6.97	6.40
22	5.75	5.67	4.82	4.77	4.25	4.15	5.48	6.53	7.68	7.81	6.93	6.31
23	5.72	5.70	5.09	4.72	4.21	4.25	6.00	6.39	7.73	7.75	6.90	6.80
24	5.93	5.62	5.20	4.67	4.17	4.30	5.95	6.62	7.58	7.71	6.87	6.66
25	5.80	5.57	5.14	4.62	4.13	4.60	5.87	6.49	7.50	7.65	6.97	6.57
26	5.74	5.53	5.05	6.62	4.08	4.97	5.80	6.35	7.43	7.58	6.80	6.45
27	5.71	5.50	4.98	6.64	4.05	5.27	6.08	6.24	7.40	7.72	6.76	6.38
28	5.68	5.48	4.92	6.24	4.00	5.41	6.42	6.59	7.58	7.62	6.73	6.33
29	5.65		4.87	6.04	3.97	5.41	6.45	6.68	7.56	7.53	6.70	6.29
30	5.82		4.82	5.85	3.93	5.34	6.33	6.82	7.52	7.45	6.68	6.25
31	6.37		4.77		3.98		6.19	6.66		7.40		6.21

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, slotted 36-79. Land-surface datum is 12.11 feet above msl. Highest water level 11.06 above msl, Oct. 5, 1948; lowest 2.00 above msl, July 2, 1952. Records available: 1947-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.12	4.36	4.34	3.20	3.79	3.00	4.13	5.77	6.25	7.77	7.67	6.35
2	4.10	4.39	4.29	3.17	3.81	2.99	4.14	5.71	6.28	7.90	7.60	6.28
3	4.08	4.45	4.24	3.13	3.82	2.98	4.12	5.65	6.28	8.22	7.56	6.21
4	4.05	4.47	4.19	3.11	3.80	2.99	4.10	5.59	6.25	8.85	7.50	6.17
5	4.02	4.48	4.15	3.09	3.78	3.08	4.07	5.55	6.19	8.63	7.49	6.13
6	4.00	4.50	4.10	3.06	3.75	3.11	4.04	5.68	6.13	8.53	7.46	6.08
7	3.97	4.57	4.07	3.03	3.72	3.12	3.99	5.65	6.20	9.19	7.41	6.04
8	4.03	4.81	4.03	3.00	3.70	3.10	3.95	5.66	6.16	9.26	7.36	6.00
9	4.31	4.93	3.98	2.97	3.68	3.09	3.90	5.68	6.13	9.01	7.49	5.95
10	4.41	5.00	3.94	2.93	3.66	3.07	3.88	5.64	6.09	8.92	7.45	5.90
11	4.47	5.03	3.89	2.92	3.52	3.04	4.03	5.59	6.05	8.81	7.38	5.85
12	4.51	5.04	3.86	2.89	3.58	3.02	4.07	5.55	6.17	8.72	7.36	5.80
13	4.53	5.05	3.81	2.87	3.53	3.00	4.10	5.51	6.14	8.63	7.47	5.75
14	4.54	5.02	3.78	2.85	3.49	2.98	4.16	5.47	6.15	8.55	7.45	5.71
15	4.55	5.00	3.74	2.82	3.45	2.96	4.20	5.43	6.11	8.49	7.40	5.67
16	4.55	4.96	3.71	3.07	3.41	2.96	4.23	5.38	6.10	8.41	7.33	5.63
17	4.53	4.91	3.68	3.11	3.37	2.95	4.32	5.70	6.05	8.38	7.27	5.59
18	4.51	4.86	3.63	3.14	3.33	2.99	4.31	5.74	6.04	8.35	7.22	5.54
19	4.50	4.81	3.60	3.15	3.28	3.07	4.29	5.76	6.34	8.32	7.17	5.50
20	4.47	4.76	3.57	3.16	3.25	3.14	4.27	5.95	6.45	8.27	7.11	5.44
21	4.44	4.71	3.53	3.15	3.28	3.24	4.26	5.98	6.49	8.22	7.05	5.40
22	4.42	4.66	3.50	3.14	3.26	3.31	4.52	6.00	6.54	8.15	6.99	5.38
23	4.39	4.62	3.46	3.12	3.25	3.38	4.63	5.97	7.19	8.09	6.93	5.35
24	4.44	4.57	3.44	3.10	3.22	3.43	4.97	5.96	7.45	8.02	6.88	5.32
25	4.38	4.52	3.41	3.08	3.19	3.49	5.22	6.02	7.35	7.95	6.82	5.52
26	4.36	4.46	3.37	3.16	3.16	3.57	5.33	6.00	7.31	7.88	6.73	5.53
27	4.33	4.42	3.34	3.42	3.12	3.71	5.56	5.89	7.29	7.82	6.67	5.50
28	4.30	4.39	3.32	3.55	3.08	3.89	5.68	6.01	8.01	8.04	6.62	5.40
29	4.28		3.28	3.66	3.04	3.99	5.78	6.06	7.89	7.91	6.56	5.35
30	4.27		3.25	3.74	3.01	4.08	5.80	6.15	7.82	7.83	6.40	5.31
31	4.31		3.22		3.02		5.82	6.18		7.75		5.27

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. Land-surface datum is 9.20 feet above msl. Highest water level 7.38 above msl, Oct. 9, 1953; lowest 1.10 above msl, July 1-2, 1952. Records available: 1949-53.

G580--Continued.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	2.23	2.12	1.75	2.19	2.08	3.02	e3.38	3.84	5.66	4.99	3.63
2	....	2.28	2.10	1.74	2.16	2.10	2.94	e3.32	3.89	5.62	4.88	3.58
3	....	2.32	2.09	1.74	2.13	2.11	2.83	e3.26	3.90	5.78	4.81	3.54
4	....	2.34	2.07	1.74	2.12	2.14	2.75	e3.18	3.85	....	4.71	3.50
5	....	2.34	2.05	1.73	2.10	2.26	2.66	e3.10	3.80	....	4.79	3.46
6	....	2.35	2.03	1.70	2.06	2.36	2.57	e3.05	3.73	....	4.72	3.41
7	....	2.34	2.03	1.69	2.05	2.38	2.49	2.97	3.71	....	4.67	3.36
8	....	2.55	2.02	1.68	2.03	2.39	2.45	2.91	3.78	....	4.65	3.32
9	....	2.62	2.01	1.67	2.10	2.35	2.38	2.85	3.74	7.38	4.59	3.29
10	....	2.60	2.00	1.67	2.12	2.31	2.34	2.81	3.67	7.19	4.54	3.26
11	....	2.64	2.00	1.68	e2.12	2.26	2.32	2.77	3.63	7.05	4.50	3.22
12	....	2.67	2.00	1.71	e2.12	2.20	2.45	2.74	3.59	6.89	4.68	3.17
13	2.48	2.67	2.00	1.72	e2.11	2.16	2.48	2.74	3.56	6.75	e4.72	3.14
14	2.46	2.64	1.99	1.73	e2.11	2.13	2.50	2.73	3.55	6.63	e4.74	3.11
15	2.44	2.61	1.99	1.74	2.10	2.10	2.45	2.71	3.50	6.50	4.68	3.06
16	2.40	2.59	1.99	1.94	2.06	2.07	2.40	2.71	3.46	6.38	4.65	3.02
17	2.38	2.57	1.98	2.04	2.02	2.04	2.38	2.90	3.43	6.28	4.60	2.96
18	2.36	2.52	1.98	2.07	1.98	2.12	2.38	3.03	4.24	6.15	4.55	2.88
19	2.35	2.47	1.98	2.07	e1.94	2.48	2.35	3.08	4.43	6.05	4.49	2.84
20	2.31	2.43	1.98	2.05	e1.90	2.65	2.29	3.21	4.44	5.92	4.43	2.83
21	2.29	2.39	1.96	2.02	2.07	2.70	2.26	3.24	4.36	5.80	4.36	2.83
22	2.25	2.33	1.95	1.97	2.13	2.80	2.24	3.23	4.60	5.76	4.29	2.83
23	2.22	2.26	1.94	1.93	2.14	2.83	2.46	e3.20	5.34	5.62	4.23	3.08
24	2.22	2.22	1.92	1.87	2.15	2.79	2.76	e3.16	5.38	5.49	4.16	3.14
25	2.22	2.19	1.90	1.84	2.12	2.81	3.09	e3.13	5.32	5.37	4.08	3.15
26	2.19	2.16	1.85	1.93	2.08	2.85	3.20	e3.10	5.24	5.27	3.99	3.13
27	2.16	2.15	1.80	2.20	2.06	2.90	3.27	e3.07	5.22	5.52	3.92	3.06
28	2.14	2.13	1.78	2.25	2.02	3.08	3.33	3.10	5.89	5.45	3.84	3.02
29	2.12		1.77	2.26	2.00	3.10	3.38	3.41	5.90	5.33	3.78	3.01
30	2.11		1.76	2.25	2.01	3.09	3.40	3.52	5.76	5.21	3.72	2.98
31	2.14	....			2.04		3.39	3.63		5.10		2.94

e Estimated.

G594. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 52 S., R. 39 E., on Dade-Broward levee. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 14. Land-surface datum is 6.20 feet above msl. Land-surface datum previously reported as 7.40 feet above msl. Highest water level 7.90 above msl, Oct. 29, 1953; lowest 2.64 above msl, June 5, 1951. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.99	....	6.92	6.57	6.19	5.15	6.07	6.62	6.83	7.48	7.87	7.72
2	6.99	....	6.91	6.55	6.15	5.13	6.03	6.62	6.83	7.53	7.87	7.73
3	6.99	7.05	6.90	6.54	6.12	5.06	6.00	6.60	6.83	7.67	7.85	7.73
4	6.99	7.03	6.89	6.53	6.08	5.20	5.97	6.60	6.83	7.68	7.84	7.72
5	6.98	7.00	6.88	e6.51	6.04	5.42	5.95	6.60	6.83	7.69	7.84	7.71
6	6.97	7.00	e6.86	e6.49	6.01	5.40	5.99	6.60	6.84	e7.70	7.84	7.70
7	6.95	7.04	e6.85	e6.47	6.00	5.30	6.02	6.68	6.85	e7.70	7.82	7.69
8	6.97	7.13	e6.84	e6.44	6.02	5.21	6.11	6.69	6.87	e7.71	7.82	7.68
9	7.09	e7.11	e6.83	e6.42	6.00	5.12	6.12	6.69	6.87	e7.72	7.81	7.66
10	7.10	e7.10	e6.82	e6.39	5.98	5.05	6.11	6.70	6.87	e7.73	7.80	7.65
11	7.08	e7.09	e6.81	e6.37	5.94	5.00	6.10	6.70	6.88	e7.74	7.78	7.63
12	7.05	e7.08	e6.79	e6.35	5.88	4.94	6.11	6.70	6.93	e7.75	7.80	7.62
13	7.04	e7.07	e6.78	e6.32	5.82	4.86	6.18	6.70	6.93	e7.75	7.80	7.60
14	7.04	e7.06	e6.76	e6.30	5.76	4.94	6.18	6.68	6.97	e7.76	7.86	7.62
15	7.04	e7.05	e6.75	e6.27	5.71	5.10	6.18	6.68	6.99	e7.77	7.85	7.58
16	7.03	e7.04	e6.74	e6.51	5.65	5.48	6.18	6.68	7.00	e7.78	7.85	7.58
17	7.02	e7.03	e6.73	e6.49	5.58	5.50	6.18	6.70	7.20	e7.78	7.85	7.58
18	7.02	e7.02	e6.71	e6.47	5.51	5.42	6.17	6.70	7.25	e7.79	7.84	7.57
19	7.01	e7.01	e6.70	e6.45	5.45	5.34	6.15	6.70	7.26	e7.80	7.83	7.57
20	7.00	e7.00	e6.69	e6.43	5.39	5.51	6.11	6.71	7.26	e7.81	7.82	7.57
21	7.00	e6.99	e6.68	e6.41	5.63	5.60	6.07	6.72	7.28	e7.82	7.80	7.57
22	7.00	e6.98	e6.72	e6.39	5.58	5.63	6.10	6.80	7.28	e7.83	7.79	7.57
23	7.00	e6.97	e6.70	e6.37	5.49	5.65	6.15	6.80	7.40	e7.84	7.78	7.58
24	7.02	e6.96	e6.68	e6.35	5.40	5.60	6.28	6.80	7.40	e7.85	7.78	7.59
25	7.02	e6.95	e6.67	e6.33	5.31	5.59	6.38	6.80	7.38	e7.85	7.77	7.57

G594--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	e7.02	6.95	e6.66	e6.31	5.22	6.06	6.40	6.78	7.38	e7.86	7.75	7.54
27	e7.01	6.93	e6.64	e6.29	5.14	6.16	6.50	6.80	7.39	e7.87	7.72	7.53
28	e7.00	6.92	e6.62	6.26	5.09	6.15	e6.53	6.80	7.44	e7.88	7.70	7.52
29	e6.99		e6.61	6.24	5.03	6.14	e6.57	6.83	7.45	7.90	7.70	7.46
30	....		e6.60	6.20	4.97	6.10	6.60	6.83	7.46	7.89	7.72	7.45
31	....		6.58		5.15		6.61	6.83		7.88		7.45

e Estimated.

G595. U. S. Geol. Survey. NW $\frac{1}{4}$ sec. 34, T. 54 S., R. 40 E. Drilled observation well in limestone of Biscayne aquifer, diameter 6 inches, depth 14 feet, cased to 11. Land-surface datum is 8.80 feet above msl. Previously incorrectly reported in South Miami. Highest water level 9.12 above msl, Oct. 6, 1952; lowest 1.67 above msl, June 21, 1952. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.47	4.45	3.49	2.26	3.57	2.62	e4.37	4.82	5.58	7.30	6.77	5.77
2	3.46	4.59	3.44	2.20	3.41	2.70	e4.30	4.78	5.54	7.61	6.70	5.74
3	3.48	5.11	3.33	2.17	3.34	3.10	4.22	4.72	5.49	7.43	6.66	5.71
4	3.47	5.00	3.36	2.12	3.23	2.73	4.15	4.54	5.43	8.33	6.58	5.67
5	3.44	4.94	3.32	2.08	3.19	2.93	4.09	4.21	5.39	7.91	7.01	5.71
6	3.46	4.89	3.29	2.07	3.10	....	4.03	4.85	5.35	7.77	6.70	5.66
7	3.45	4.87	3.24	2.02	3.05	....	3.88	4.82	5.55	8.85	6.61	5.63
8	3.73	5.23	3.18	1.98	3.19	e3.06	3.27	4.71	5.49	8.48	6.56	5.60
9	4.30	5.14	3.13	2.15	3.26	e3.31	3.24	4.61	5.41	8.41	6.50	5.57
10	4.50	5.08	2.90	2.19	3.26	e3.23	3.10	4.54	5.34	8.27	6.45	5.53
11	4.52	5.03	2.80	2.19	3.11	e3.15	3.59	4.44	5.31	8.13	6.42	5.47
12	4.52	4.97	2.75	2.22	3.07	3.13	3.80	4.39	5.29	8.01	6.67	5.40
13	4.51	4.92	2.70	2.21	2.99	2.78	3.84	4.32	5.28	7.89	6.55	5.35
14	4.31	4.86	2.64	2.23	2.93	3.32	3.39	4.25	5.30	7.75	6.52	5.37
15	4.17	4.53	2.57	2.22	2.84	3.33	3.50	4.21	5.31	7.64	6.45	5.26
16	4.10	4.29	2.55	2.71	2.79	3.34	3.55	4.27	5.33	8.06	6.42	5.18
17	4.05	4.23	2.47	2.90	2.76	3.30	3.56	4.49	5.36	7.65	6.37	5.10
18	4.00	4.32	2.43	2.99	2.68	3.48	3.82	4.54	6.08	7.59	6.32	5.05
19	3.97	4.18	2.41	3.04	2.46	3.56	3.91	4.51	6.17	7.48	6.28	4.99
20	3.93	4.06	2.35	3.08	2.29	3.59	3.57	4.58	6.20	7.38	6.23	4.94
21	3.87	4.12	2.29	3.10	2.83	3.61	3.80	4.59	6.24	7.28	6.19	4.93
22	3.85	4.04	2.33	3.07	2.88	3.65	4.04	4.58	7.15	7.19	6.14	4.92
23	3.82	4.00	2.55	2.78	2.85	3.70	4.31	4.55	7.32	7.08	6.11	4.89
24	3.83	3.96	2.66	2.79	2.81	3.72	3.90	4.57	7.24	6.99	6.07	5.36
25	3.81	3.72	2.69	2.68	2.76	3.81	4.40	4.61	7.14	6.90	6.03	5.26
26	3.78	3.62	2.71	3.73	2.68	4.08	4.49	4.61	7.05	6.83	5.99	5.19
27	3.76	3.50	2.66	3.98	2.59	4.37	4.86	4.57	7.21	7.27	5.94	5.13
28	3.71	3.51	2.63	3.99	2.55	4.50	4.90	4.80	7.56	7.10	5.90	5.07
29	3.70		2.61	3.93	2.50	4.48	5.01	5.20	7.26	7.01	5.87	5.02
30	4.03		2.62	3.86	2.43	e4.45	4.60	5.37	7.13	6.92	5.84	4.98
31	4.38		2.36		2.58		4.84	5.48		6.85		4.92

e Estimated.

G596. U. S. Geol. Survey. 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. Land-surface datum is 7.70 feet above msl. Highest water level 8.01 above msl, Oct. 25-26, 1949; lowest 3.16 above msl, May 28, 1952. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.70	6.90	6.57	5.73	6.19	4.45	6.39	6.81	6.85	7.65	7.89	7.80
2	6.68	7.20	6.54	5.70	6.12	4.46	6.34	6.76	6.81	7.66	7.88	7.80
3	6.71	7.00	6.50	5.67	6.04	4.50	6.28	6.71	6.98	7.71	7.87	7.79
4	6.67	6.92	6.48	5.65	5.95	4.57	6.25	6.70	6.83	7.85	7.87	7.77
5	6.65	6.89	6.46	5.58	5.87	5.15	6.22	6.97	6.78	7.85	7.87	7.80
6	6.59	6.88	6.44	5.54	6.79	5.18	6.27	6.83	6.87	7.72	7.87	7.80
7	6.58	6.87	6.42	5.49	5.75	5.13	6.22	6.81	6.96	7.97	7.87	7.79
8	6.58	7.30	6.39	5.45	5.75	5.03	6.26	6.77	6.89	7.97	7.84	7.79
9	e7.45	6.98	6.35	5.42	5.72	4.95	6.24	6.76	6.86	7.95	7.82	7.78
10	e7.45	6.93	6.32	5.37	5.68	4.86	6.18	6.70	6.86	7.95	7.82	7.76

G596--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	e7.40	6.91	6.30	5.32	5.59	4.78	6.16	6.67	7.02	7.95	7.83	7.75
12	e7.36	6.89	6.30	5.27	5.52	4.70	6.13	6.67	6.92	7.93	7.94	7.72
13	e7.32	6.89	6.28	5.25	5.45	6.18	6.18	6.66	6.88	7.90	7.94	7.72
14	e7.28	6.87	6.23	5.25	5.38	5.43	6.49	6.77	6.98	7.88	7.94	7.74
15	e7.24	6.88	6.20	5.21	5.31	5.20	6.78	6.83	7.47	7.87	7.94	7.74
16	e7.20	6.85	6.18	6.04	5.24	5.08	6.55	6.75	7.16	7.85	7.93	7.74
17	e7.16	6.82	6.15	5.96	5.18	4.97	6.43	6.79	7.40	7.83	7.92	7.73
18	e7.12	6.80	6.10	5.87	5.11	4.87	6.35	6.73	7.20	7.83	7.91	7.72
19	e7.08	6.78	6.07	5.80	5.05	4.77	6.28	6.72	7.16	7.90	7.90	7.70
20	e7.04	6.76	6.04	5.75	4.98	4.72	6.22	7.07	7.16	7.89	7.88	7.70
21	e7.00	6.75	6.00	5.69	4.95	5.58	6.16	6.85	7.20	7.85	7.88	7.70
22	e6.96	6.75	5.97	5.63	4.90	6.36	6.80	6.83	7.50	7.77	7.87	7.70
23	e6.92	6.74	5.96	5.56	4.85	5.90	7.26	7.08	7.60	7.77	7.86	7.80
24	e6.88	6.71	6.03	5.50	4.80	5.67	6.91	7.42	7.47	7.77	7.85	7.81
25	e6.84	6.67	6.01	5.45	4.73	6.43	6.77	6.97	7.40	7.77	7.84	7.74
26	e6.82	6.63	5.97	7.65	4.67	7.56	6.70	6.79	7.35	7.77	7.84	7.72
27	6.81	6.59	5.91	7.00	4.60	7.07	6.97	6.71	7.34	7.88	7.83	7.68
28	6.81	6.59	5.89	6.67	4.54	6.78	7.12	6.94	7.53	7.93	7.82	7.63
29	6.80		5.85	6.44	4.46	6.59	6.89	7.02	7.51	7.93	7.81	7.63
30	7.00		5.81	6.30	4.43	6.49	6.85	6.85	7.51	7.92	7.80	7.61
31	7.13		5.77		4.43		6.78	6.85		7.91		7.61

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. Land-surface datum is 3.90 feet above msl. Highest water level 3.40 above msl, Oct. 8, 1953; lowest 0.20 below msl, May 15, 1950. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.98	1.05	0.74	0.48	0.87	0.97	2.09	2.13	2.75	2.80	1.54	1.42
2	1.16	.97	.76	.45	.79	1.90	2.04	2.04	2.65	3.07	1.50	1.45
3	1.20	1.07	.78	.43	.72	1.55	1.97	1.92	2.59	3.13	1.53	1.48
4	1.02	1.04	.86	.45	.65	1.87	1.87	1.85	2.54	3.22	1.45	1.40
5	.99	1.05	.90	.43	.60	1.68	1.79	2.17	2.52	3.12	1.50	1.48
6	....	1.00	.93	.38	.55	1.51	1.97	2.54	2.73	3.22	1.43	1.50
7	....	1.90	.90	.35	.55	1.38	1.79	2.18	2.82	3.35	1.42	1.44
8	....	1.77	.89	.31	.52	1.27	1.72	2.10	2.75	3.40	1.41	1.41
9	....	1.07	.86	.29	.54	1.29	1.70	2.05	2.55	3.30	1.41	1.37
10	....	.90	.82	.28	.68	1.23	1.75	2.19	2.47	3.23	1.63	1.34
11	....	.80	.82	.25	.53	1.10	2.34	2.23	2.85	3.17	1.65	1.28
12	....	.69	.96	.35	.46	.97	1.95	2.08	2.64	3.12	2.30	1.25
13	....	.64	1.01	.60	.40	.89	2.23	2.28	2.89	3.05	1.87	1.17
14	....	.68	1.00	.68	.35	1.15	2.15	2.30	2.64	3.02	2.14	1.30
15	....	.78	.96	.55	.30	.97	2.47	2.22	2.53	2.94	1.86	1.14
16	....	.87	.93	1.98	.27	1.62	1.98	2.30	2.45	2.90	2.05	1.06
17	....	.48	.77	1.45	.21	1.50	2.43	2.50	2.44	2.83	1.78	1.07
18	....	.51	.72	1.25	.15	1.36	2.42	2.77	2.78	2.80	1.75	1.05
19	....	.46	.67	1.02	.12	2.55	2.26	2.48	2.92	2.75	1.72	1.02
20	....	.48	.63	.90	.08	2.89	2.19	2.41	2.61	2.67	1.70	1.10
21	....	.48	.62	.75	1.95	3.18	2.30	2.35	2.83	2.64	1.62	1.20
22	....	.64	.65	.76	1.12	2.85	1.95	2.37	2.65	2.61	1.59	1.24
23	....	.68	.65	.80	.80	2.54	1.86	2.38	2.91	2.60	1.55	1.35
24	....	.65	.78	.82	.63	2.25	2.65	2.70	2.65	2.55	1.52	1.55
25	....	.62	.76	.72	.49	2.15	2.29	2.43	2.60	2.51	1.48	1.49
26	....	.62	.66	1.28	.47	2.89	2.32	2.37	2.55	2.25	1.44	1.42
27	1.00	.58	.62	1.30	.40	2.45	2.62	2.35	2.49	2.13	1.40	1.37
28	.92	.69	.56	1.13	.31	2.37	2.32	2.62	3.05	1.87	1.35	1.42
29	.93		.52	1.05	.36	2.29	2.30	2.98	2.97	1.70	1.32	1.38
30	.92		.50	.96	.70	2.20	2.63	2.90	2.87	1.60	1.32	1.34
31	1.05		.47		.95		2.19	2.85		1.57		1.30

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. 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: 1950-53.

G613--Continued.

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	+1.57	+2.06	+1.55	+0.55	+0.98	+0.32	+3.78	+3.10	....	+3.95	+3.24	+2.67
2	1.63	2.05	1.50	.50	.90	2.38	3.57	3.02	....	4.60	3.20	2.65
3	1.69	2.10	1.45	.47	.82	2.41	3.43	2.94	....	4.70	3.19	2.62
4	1.62	2.08	1.43	.44	.74	2.83	3.35	2.86	....	5.26	3.15	2.60
5	1.58	2.04	1.40	.40	.67	3.15	3.28	4.05	....	4.58	3.14	2.59
6	1.55	2.00	1.38	.35	.60	3.00	3.23	3.56	....	4.45	3.10	2.57
7	1.52	2.55	1.35	.32	.55	2.78	3.15	3.36	....	5.28	3.06	2.55
8	1.85	2.76	1.30	.28	.52	2.60	3.16	3.20	....	5.29	3.03	2.52
9	2.77	2.70	1.25	.22	.48	2.43	3.09	3.10	....	4.97	3.00	2.50
10	2.90	2.58	1.21	.19	e.45	2.29	3.02	3.00	....	4.75	2.99	2.48
11	2.80	2.50	1.19	.15	e.43	2.18	3.10	2.90	....	4.57	2.98	2.45
12	2.70	2.40	1.35	.11	e.40	2.06	3.06	2.83	....	4.44	3.17	2.42
13	2.60	2.32	1.41	.19	e.37	2.35	2.98	3.22	....	4.34	3.20	2.38
14	2.52	2.26	1.36	.27	e.34	2.40	2.92	3.42	....	4.25	3.25	2.35
15	2.46	2.22	1.28	.23	e.31	2.34	2.98	3.64	....	4.15	3.29	2.26
16	2.41	2.17	1.21	1.27	e.28	2.82	2.95	3.49	....	4.08	3.27	2.33
17	2.35	2.10	1.16	1.47	e.25	2.73	2.89	3.83	....	4.04	3.22	2.31
18	2.30	2.04	1.11	1.49	e.22	2.60	2.83	3.72	....	3.99	3.17	2.28
19	2.26	2.00	1.06	1.44	e.19	2.54	2.77	3.55	....	4.02	3.14	2.27
20	2.22	1.93	1.02	1.38	e.16	2.60	2.70	3.40	....	4.00	3.10	2.26
21	2.23	1.88	.97	1.30	e.13	3.18	2.71	3.27	....	3.89	3.05	2.26
22	2.20	1.84	.92	1.21	e.10	3.46	2.85	3.18	....	3.81	3.00	2.26
23	2.15	1.80	.86	1.12	e.08	3.41	2.85	3.10	....	3.73	2.98	2.25
24	2.35	1.74	1.00	1.05	+e.04	3.28	2.96	3.03	....	3.65	2.95	2.25
25	2.33	1.70	.95	1.00	e.00	3.50	2.97	2.94	....	3.58	2.90	2.25
26	2.28	1.65	.85	.98	-e.04	5.10	2.97	2.87	....	3.51	2.85	2.23
27	2.25	1.62	.80	1.20	e.07	4.48	3.17	2.84	....	3.49	2.82	2.20
28	2.20	1.59	.75	1.19	e.10	4.35	3.22	....	+3.99	3.43	2.80	2.23
29	2.15	.70	.75	1.12	.12	4.19	3.12	....	3.93	3.37	2.75	2.24
30	2.14	.65	1.04	-.12	4.02	3.15	....	....	3.90	3.32	2.71	2.24
31	2.10	.60	.60	+.15	....	3.17	....	....	....	3.28	....	2.21

e Estimated.

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. Land-surface datum is 11.10 feet above msl. Highest water level 8.83 above msl, Oct. 8, 1953; lowest 1.30 above msl, May 22, 1950. Records available: 1950-53.

Daily highest water level above msl from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.32	3.76	3.38	2.37	2.75	2.16	5.06	5.65	5.29	6.44	e6.00	4.96
2	3.31	3.75	3.33	2.34	e2.77	2.15	5.04	5.56	5.34	6.90	e5.93	4.94
3	3.29	3.74	3.30	2.28	e2.79	2.15	4.99	5.47	5.34	7.15	e5.86	4.92
4	3.28	3.73	3.25	2.27	e2.77	2.16	4.93	5.37	5.30	7.47	e5.79	4.88
5	3.24	3.72	3.20	2.25	e2.76	2.20	4.89	5.30	5.25	7.43	e5.72	4.86
6	3.22	3.72	3.18	2.23	e2.75	e2.33	4.82	5.36	5.20	7.69	e5.65	4.85
7	3.20	3.72	3.16	2.19	e2.74	e2.39	4.75	5.48	5.17	8.71	e5.58	4.83
8	3.17	3.75	3.14	2.14	2.73	e2.43	4.68	5.50	5.32	8.83	e5.51	4.80
9	3.28	3.82	3.10	2.10	2.71	2.46	4.63	5.48	5.33	8.67	5.47	4.78
10	3.57	3.89	3.07	2.08	2.69	2.48	4.58	5.45	5.32	8.36	5.43	4.77
11	3.78	3.91	3.03	2.05	2.63	2.50	4.55	5.40	5.29	8.17	5.38	4.75
12	3.92	3.93	2.99	2.04	2.60	2.52	4.54	5.32	5.29	8.01	5.36	4.74
13	4.02	3.93	2.96	2.01	2.54	2.54	4.52	5.26	5.28	7.85	e5.45	4.73
14	4.07	3.91	2.94	2.00	2.49	2.57	4.50	5.18	5.28	7.72	e5.53	4.71
15	4.09	3.87	2.91	1.98	2.45	2.59	4.48	5.15	5.32	7.59	e5.53	4.70
16	4.10	3.85	2.88	2.00	2.43	2.62	4.70	5.39	5.45	7.48	e5.50	4.69
17	4.08	3.80	2.85	2.10	2.38	2.67	4.80	5.58	5.50	7.36	e5.46	4.67
18	4.06	3.77	2.82	2.17	2.33	2.73	4.87	5.71	5.52	7.26	e5.42	4.66
19	4.04	3.71	2.78	2.23	2.28	2.79	4.89	5.72	5.57	7.18	e5.38	4.65
20	4.00	3.69	2.74	2.28	2.23	3.09	4.89	5.72	5.63	7.09	e5.34	4.63
21	3.95	3.67	2.73	2.33	2.21	3.12	4.83	5.67	5.65	7.00	e5.30	4.61
22	3.92	3.62	2.71	2.35	2.33	3.55	4.75	5.59	5.69	6.90	e5.26	4.60
23	3.89	3.57	2.68	2.36	e2.39	3.97	4.72	5.51	5.82	6.80	e5.22	4.58
24	3.88	3.54	2.64	....	e2.38	4.23	4.79	5.47	5.92	6.69	e5.18	4.56
25	3.88	3.50	2.61	....	e2.36	4.35	5.05	5.47	5.94	6.57	e5.14	4.55

G614--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.87	3.46	2.57	....	e2.34	4.50	5.22	5.40	5.92	6.45	e5.10	4.53
27	3.87	3.43	2.53	....	e2.31	4.74	5.38	5.33	5.87	6.39	e5.06	....
28	3.86	3.41	2.51	....	e2.26	4.93	5.68	5.26	6.30	6.34	e5.02	4.26
29	3.83		2.49	....	2.25	5.02	5.75	5.22	6.40	6.26	e5.00	4.24
30	3.79		2.45		2.22	5.05	5.75	5.22	6.43	6.17	4.97	4.22
31	3.77		2.41		2.19		5.72	5.21		e6.08		4.20

e Estimated.

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 of Biscayne aquifer, diameter 6 inches, depth 24 feet, cased to 22, gravel 17-24. Land-surface datum is 6.50 feet above msl. Highest water level 6.65 above msl, Nov. 24, 1950; lowest 1.06 above msl, June 17-21, 1952. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.05	4.64	3.51	2.60	2.37	1.67	3.30	3.60	3.36	6.22	5.27	4.47
2	4.02	5.41	3.47	2.53	2.32	1.65	3.22	3.50	3.28	6.36	5.22	4.42
3	4.19	4.65	3.43	2.55	2.26	1.63	3.18	3.43	3.19	6.45	5.17	4.37
4	3.93	4.47	3.41	2.54	2.21	1.67	3.08	3.36	3.12	6.51	6.10	4.37
5	3.92	4.37	3.38	2.50	2.16	1.73	3.14	3.30	3.06	6.34	6.18	5.10
6	3.89	4.30	3.35	2.46	2.13	1.80	3.07	3.36	3.00	6.19	5.31	4.36
7	3.87	4.94	3.32	2.42	2.08	1.81	3.00	3.30	3.28	6.30	5.96	4.30
8	5.65	5.45	3.29	2.39	2.70	1.78	2.96	3.24	3.46	6.07	5.22	4.28
9	6.20	4.39	3.25	2.38	2.80	1.75	2.92	3.20	3.42	5.95	5.15	4.23
10	5.02	4.29	3.22	2.32	2.73	1.70	2.88	3.25	3.35	5.74	5.08	4.20
11	4.84	4.24	3.17	2.28	2.63	1.65	2.86	3.13	3.63	5.57	5.28	4.16
12	4.71	4.19	3.27	2.25	2.55	1.65	2.90	3.07	3.75	5.51	5.99	4.11
13	4.65	4.12	3.20	2.23	2.44	1.62	3.00	3.02	3.77	5.85	5.38	4.05
14	4.55	4.09	3.17	2.23	2.37	1.63	3.08	3.00	3.75	6.15	5.91	4.74
15	4.51	4.29	3.12	2.18	2.30	1.63	3.50	2.95	3.70	5.50	5.32	4.05
16	4.74	4.02	3.07	2.91	2.25	1.67	3.39	2.93	3.74	5.40	5.58	4.00
17	4.40	3.95	3.05	2.99	2.18	1.70	3.27	2.95	4.75	6.26	5.21	3.95
18	4.35	3.90	3.02	2.97	2.15	1.70	3.10	2.92	5.00	6.40	5.15	3.90
19	4.31	3.87	2.97	2.92	2.07	1.73	2.96	2.90	5.45	6.12	5.10	3.88
20	4.26	3.84	2.95	2.85	2.04	1.75	2.87	2.90	5.72	5.85	5.02	3.84
21	4.20	3.81	2.91	2.77	2.01	1.81	2.78	2.90	6.12	5.71	4.95	3.93
22	4.18	3.79	2.89	2.70	1.97	1.95	2.73	2.87	4.94	5.65	4.90	3.83
23	4.12	3.84	2.92	2.63	1.93	2.02	3.28	2.83	6.13	5.55	4.85	4.10
24	4.57	3.76	2.95	2.57	1.89	2.07	3.56	2.90	4.85	5.51	4.80	4.25
25	4.09	3.65	2.88	2.54	1.85	2.06	4.33	2.92	4.72	5.45	4.72	3.99
26	4.04	3.61	2.83	2.51	1.82	2.12	4.07	2.85	4.60	5.37	4.67	3.80
27	4.01	3.58	2.79	2.56	1.77	2.57	4.40	2.81	5.91	5.84	4.60	3.76
28	3.99	3.55	2.75	2.52	1.75	3.36	4.45	2.85	6.23	6.01	4.57	3.74
29	3.95		2.71	2.45	1.74	3.42	3.98	3.15	5.00	5.47	4.55	3.69
30	5.28		2.67	2.40	1.71	3.38	3.78	3.37	5.93	5.38	4.51	3.65
31	5.45		2.62		1.70		3.71	3.40		5.34		3.61

G618. U. S. Geol. Survey. On U. S. Highway 41. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 54 S., R. 37 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 20 feet, cased to 11. Land-surface datum is 7.40 feet above msl. Highest water level 8.55 above msl, Nov. 17, 1953; lowest 3.49 above msl, June 5, 1951. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.23	7.20	6.99	6.47	6.27	5.68	6.00	6.67	6.91	7.81	8.52	8.40
2	7.22	7.20	6.98	6.45	6.24	5.85	5.97	6.67	6.91	7.87	8.52	8.40
3	7.23	7.20	6.96	6.44	6.20	5.60	5.95	6.67	6.95	7.92	8.52	8.38
4	7.23	7.20	6.95	6.42	6.18	5.70	5.93	6.67	6.95	7.95	8.52	8.37
5	7.22	7.20	6.93	6.40	6.15	5.88	6.12	6.67	6.95	7.95	8.52	8.37
6	7.21	7.20	6.92	6.38	6.12	5.85	6.19	6.67	7.00	8.03	8.52	8.37
7	7.20	7.20	6.90	6.35	6.25	5.75	6.17	6.78	7.00	8.10	8.52	8.36
8	7.23	7.28	6.87	6.34	6.25	5.67	6.16	6.79	7.00	8.14	8.52	8.36
9	7.33	7.28	6.85	6.31	6.22	5.60	6.14	6.79	7.00	8.21	8.52	8.35
10	7.33	7.28	6.82	6.30	6.20	5.55	6.11	6.77	7.00	8.21	8.52	8.34

G618--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	7.33	7.27	6.80	6.30	6.15	5.47	6.11	6.75	7.00	8.21	8.52	8.33
12	7.33	7.25	6.80	6.25	6.12	5.39	6.11	6.73	7.00	8.21	8.54	8.32
13	7.32	7.25	6.79	6.25	6.08	5.32	6.11	6.72	7.00	8.21	8.54	8.31
14	7.31	7.23	6.77	6.24	6.05	5.26	6.20	6.70	7.03	8.21	8.54	8.30
15	7.30	7.22	6.75	6.20	6.02	5.46	6.20	6.70	7.05	8.21	8.54	8.29
16	7.30	7.21	6.73	6.45	5.99	5.39	6.19	6.70	7.12	8.21	8.54	8.28
17	7.29	7.20	6.72	6.45	5.95	5.30	6.18	6.70	7.35	8.21	8.55	8.26
18	7.28	7.18	6.70	6.42	5.90	5.21	6.18	6.70	7.39	8.25	8.54	8.24
19	7.27	7.17	6.68	6.40	5.85	5.15	6.18	6.70	7.40	8.27	8.53	8.23
20	7.26	7.15	6.66	6.38	5.82	5.17	6.16	6.70	7.41	8.28	8.52	8.21
21	7.25	7.14	6.64	6.36	5.82	5.63	6.13	6.70	7.50	8.28	8.51	8.21
22	7.24	7.13	6.64	6.34	5.77	5.64	6.35	6.73	7.51	8.28	8.50	8.21
23	7.23	7.11	6.64	6.31	5.71	5.55	6.36	6.77	7.58	8.29	8.49	8.21
24	7.23	7.10	6.64	6.29	5.65	5.50	6.44	6.77	7.60	8.29	8.48	8.21
25	7.21	7.07	6.60	6.27	5.57	5.63	6.55	6.77	7.62	8.29	8.47	8.21
26	7.20	7.03	6.58	6.37	5.49	6.10	6.55	6.77	7.62	8.29	8.46	8.21
27	7.19	7.03	6.56	6.37	5.42	6.10	6.59	6.77	7.63	8.50	8.44	8.18
28	7.18	7.01	6.55	6.34	5.52	6.08	6.72	6.80	7.73	8.53	8.43	8.15
29	7.18		6.53	6.32	5.45	6.06	6.72	6.85	7.76	8.53	8.42	8.15
30	7.19		6.51	6.29	5.40	6.04	6.67	6.87	7.77	8.53	8.39	8.14
31	7.20		6.48		5.69		6.67	6.91		8.53		8.13

G619. U. S. Geol. Survey. On U. S. Highway 41. NW $\frac{1}{4}$ sec. 19, T. 54 S., R. 36 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 12 feet, cased to 6. Land-surface datum is 7.20 feet above msl. Highest water level 8.35 above msl, Oct. 9, 1953; lowest 4.77 above msl, June 6, 1951. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.78	7.80	7.72	6.87	6.58	5.78	7.21	7.65	7.83	8.20	8.21	8.07
2	7.78	7.80	7.71	6.82	6.50	6.50	7.25	7.65	7.86	8.20	8.21	8.07
3	7.78	7.80	7.69	6.79	6.41	6.58	7.30	7.65	7.88	8.20	8.21	8.07
4	7.78	7.80	7.67	6.72	6.31	6.79	7.28	7.65	7.88	8.20	8.21	8.07
5	7.78	7.80	7.66	6.65	6.19	7.06	7.40	7.75	7.86	8.20	8.21	8.07
6	7.77	7.80	7.65	6.59	6.10	7.00	7.40	7.74	7.86	8.18	8.21	8.07
7	7.76	7.80	7.62	6.52	7.13	6.90	7.40	7.73	7.95	8.30	8.21	8.07
8	7.79	7.85	7.60	6.47	7.13	6.80	7.38	7.71	7.91	8.30	8.21	8.07
9	7.87	7.85	7.60	6.40	7.08	6.71	7.45	7.70	7.89	8.35	8.20	8.07
10	7.87	7.85	7.58	6.32	6.99	6.65	7.43	7.69	7.88	8.30	8.20	8.07
11	7.86	7.85	7.58	6.25	6.89	6.56	7.43	7.68	7.88	8.28	8.19	8.07
12	7.85	7.85	7.56	6.18	6.78	6.47	7.50	7.67	7.94	8.27	8.19	8.07
13	7.85	7.85	7.53	6.17	6.68	6.40	7.50	7.65	7.94	8.25	8.19	8.07
14	7.85	7.85	7.50	6.14	6.58	6.29	7.50	7.64	7.94	8.23	8.19	8.07
15	7.85	7.85	7.50	6.07	6.47	6.23	7.49	7.64	7.94	8.22	8.19	8.06
16	7.84	7.85	7.50	7.05	6.40	6.15	7.49	7.64	7.94	8.22	8.19	8.05
17	7.84	7.84	7.48	7.06	6.27	6.10	7.49	7.64	8.00	8.20	8.19	8.03
18	7.82	7.82	7.46	6.99	6.16	6.05	7.52	7.64	8.09	8.20	8.19	8.02
19	7.82	7.80	7.42	6.93	6.05	5.94	7.52	7.64	8.05	8.20	8.18	8.02
20	7.81	7.79	7.40	6.91	5.98	5.92	7.51	7.64	8.04	8.20	8.18	8.02
21	7.81	7.78	7.37	6.85	5.95	6.28	7.49	7.64	8.15	8.20	8.18	8.01
22	7.80	7.77	7.35	6.78	6.35	6.38	7.48	7.64	8.25	8.20	8.17	8.00
23	7.80	7.76	7.31	6.70	6.19	6.98	7.48	7.65	8.19	8.20	8.17	7.99
24	7.80	7.75	7.34	6.63	6.07	6.99	7.53	7.70	8.18	8.20	8.17	7.99
25	7.80	7.74	7.27	6.56	5.94	7.10	7.53	7.70	8.16	8.19	8.15	7.98
26	7.80	7.73	7.23	7.03	5.83	7.21	7.53	7.73	8.15	8.19	8.14	7.97
27	7.80	7.73	7.20	7.04	5.75	7.27	7.56	7.73	8.15	8.24	8.12	7.96
28	7.80	7.73	7.15	6.87	5.71	7.27	7.65	7.80	8.25	8.22	8.10	7.97
29	7.80		7.07	6.75	5.65	7.27	7.65	7.80	8.23	8.22	8.08	7.97
30	7.81		7.00	6.68	5.60	7.25	7.65	7.80	8.22	8.22	8.07	7.97
31	7.80		6.93		5.77		7.65	7.80		8.21		7.97

G620. Owner unknown. Sec. 30, T. 55 S., R. 36 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 16 feet, cased to 6. Land-surface datum is 6.13 feet above msl. Highest water level 6.94 above msl, Oct. 9, 1953; lowest 3.57 above msl, May 26, 1952. Records available: 1950-53.

G620--Continued.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.94	5.90	5.80	5.38	5.36	4.52	5.60	5.80	6.21	6.70	6.80	6.80
2	5.94	5.93	5.79	5.32	5.29	4.51	5.62	5.78	6.17	6.72	6.80	6.79
3	5.9c	5.92	5.78	5.28	5.18	4.50	5.63	5.76	6.20	6.73	6.80	6.78
4	5.94	5.91	5.77	5.23	5.10	4.84	5.74	5.75	6.23	6.70	6.80	6.78
5	5.92	5.90	5.78	5.15	5.00	5.29	5.75	5.89	6.20	6.67	6.80	6.79
6	5.91	5.90	5.77	5.09	4.91	5.35	5.72	5.92	6.19	6.66	6.80	6.79
7	5.90	5.96	5.77	5.02	5.59	5.27	5.68	5.93	6.23	6.84	6.80	6.79
8	5.98	6.00	5.76	4.97	5.61	5.17	5.67	5.93	6.17	6.85	6.80	6.79
9	6.10	5.98	5.75	4.92	5.58	5.08	5.65	5.90	6.15	6.94	6.80	6.78
10	6.10	5.98	5.74	4.85	5.56	5.02	5.63	5.88	6.15	6.91	6.80	6.78
11	6.10	5.98	5.73	4.79	5.55	4.93	5.63	5.91	6.13	6.89	6.80	6.77
12	6.09	5.97	5.72	4.71	5.52	4.84	5.61	5.85	6.18	6.87	6.83	6.77
13	6.09	5.97	5.71	4.88	5.50	4.75	5.58	5.95	6.30	6.86	6.84	6.76
14	6.08	5.96	5.70	4.91	5.43	4.64	5.67	5.87	6.22	6.85	6.85	6.77
15	6.07	5.95	5.87	4.77	5.38	4.58	5.62	5.85	6.21	6.84	6.85	6.76
16	6.07	5.95	5.77	5.44	5.33	4.53	5.64	5.62	6.20	6.82	6.85	6.75
17	6.06	5.93	5.74	5.49	5.23	5.10	5.63	5.80	6.28	6.80	6.86	6.73
18	6.05	5.92	5.71	5.43	5.14	5.12	5.63	5.78	6.33	6.80	6.86	6.73
19	6.03	5.91	5.70	5.39	5.04	4.95	5.62	5.76	6.48	6.81	6.86	6.72
20	6.01	5.90	5.69	5.36	5.07	5.15	5.60	5.89	6.47	6.79	6.86	6.72
21	6.00	5.89	5.67	5.30	5.09	5.27	5.58	5.85	6.55	6.77	6.66	6.72
22	5.99	5.88	5.65	5.21	5.00	5.38	5.66	5.82	6.67	6.76	6.86	6.72
23	5.97	5.87	5.64	5.13	4.90	5.35	5.67	5.79	6.67	6.75	6.85	6.74
24	5.98	5.87	5.70	5.05	4.81	5.32	5.85	5.83	6.67	6.74	6.85	6.74
25	5.96	5.86	5.65	4.97	4.71	5.40	5.80	5.84	6.65	6.73	6.84	6.74
26	5.95	5.83	5.63	5.55	4.62	5.56	5.79	5.90	6.62	6.72	6.83	6.72
27	5.94	5.82	5.58	5.55	4.56	5.61	5.78	5.92	6.59	6.81	6.82	6.71
28	5.93	5.81	5.55	5.50	4.48	5.57	5.82	5.98	6.70	6.82	6.81	6.70
29	5.92		5.52	5.47	4.43	5.60	5.82	6.05	6.69	6.82	6.80	6.69
30	5.90		5.49	5.40	4.37	5.61	5.81	6.24	6.72	6.81	6.80	6.68
31	5.90		5.45		4.53		5.80	6.22		6.80		6.67

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: 1939-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.24	2.65	....	1.39	1.42	1.13	2.57	1.97	1.98	3.89	3.15	2.39
2	2.23	2.90	....	1.37	1.39	1.12	2.43	1.90	2.01	4.37	3.09	2.35
3	2.21	2.92	....	1.35	1.35	1.13	2.31	1.82	1.96	5.00	3.04	2.34
4	2.18	2.80	....	1.36	1.30	1.16	2.20	1.76	1.92	5.37	3.01	2.32
5	2.15	2.74	....	1.34	1.25	1.21	2.13	1.80	1.89	4.94	3.33	2.35
6	2.13	2.66	....	1.32	1.22	1.23	2.09	1.83	1.86	4.70	3.17	2.29
7	2.12	2.63	....	1.30	1.37	1.20	2.06	1.80	2.07	5.03	3.08	2.26
8	2.54	2.90	....	1.28	1.70	1.18	2.06	1.76	2.16	4.72	3.04	2.23
9	2.93	2.81	1.67	1.26	1.84	1.16	2.04	1.72	2.12	4.47	3.00	2.22
10	2.97	2.70	1.64	1.24	1.87	1.14	2.00	1.69	2.06	4.24	2.95	2.20
11	2.81	2.60	1.63	1.22	1.64	1.12	2.14	1.65	2.40	4.08	3.32	2.19
12	2.71	2.62	1.65	1.20	1.80	1.11	2.15	1.61	2.47	3.96	3.46	2.16
13	2.63	2.43	1.65	1.19	1.75	1.34	2.37	1.59	2.48	4.18	3.42	2.21
14	2.58	2.38	1.64	1.18	1.70	1.44	2.40	1.57	2.46	4.30	3.38	2.14
15	2.61	2.26	1.62	1.16	1.65	1.49	2.22	1.53	2.41	3.91	3.33	2.10
16	2.61	2.20	1.59	1.69	1.59	1.66	2.11	1.60	2.37	3.80	3.26	2.05
17	2.58	2.13	1.57	1.76	1.54	1.71	2.02	1.65	2.49	4.09	3.19	2.00
18	2.56	2.08	1.55	1.77	1.49	1.73	1.92	1.60	2.64	4.42	3.12	1.96
19	2.54	2.03	1.53	1.74	1.44	1.73	1.85	1.57	3.42	4.18	3.05	1.93
20	2.54	1.97	1.50	1.69	1.41	1.76	1.78	1.54	3.45	3.99	2.97	1.92
21	2.50	1.92	1.49	1.65	1.38	1.89	1.71	1.52	3.48	3.85	2.91	1.90
22	2.47	1.87	1.50	1.61	1.35	1.95	1.73	1.49	3.58	3.77	2.85	1.88
23	2.51	e1.83	1.54	1.58	1.32	1.97	1.96	1.61	3.54	3.71	2.81	1.95
24	2.46	e1.78	1.53	....	1.28	1.97	2.06	1.53	3.45	3.63	2.75	1.94
25	2.47	e1.74	1.49	....	1.24	1.99	2.11	1.49	3.36	3.56	2.69	1.96
26	2.41	e1.69	1.47	....	1.21	2.09	2.12	1.49	3.29	3.47	2.62	1.88
27	2.39	....	1.46	....	e1.19	2.99	2.16	1.47	3.76	3.70	2.55	1.86
28	....	....	e1.44	....	1.16	3.01	2.18	1.66	3.67	3.58	2.49	1.85
29	....	....	e1.43	....	1.18	2.87	2.14	1.78	3.57	3.39	2.47	1.83
30	2.62		e1.41	1.47	1.15	2.72	2.10	1.83	3.49	3.30	2.44	1.80
31	2.67		1.40		1.13		2.04	1.82		3.22		1.75

e Estimated.

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. 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 18-21, 1945. Records available: 1939-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+1.36	....	+0.79	+0.29	+0.79	+1.70	+0.88	+0.96	+1.67	+2.84	+3.18	+2.11
2	1.28	....	.82	.20	.76	1.54	.85	.86	1.74	3.47	2.93	2.19
3	1.31	+1.70	.69	.18	.79	1.44	.77	.78	1.38	3.87	2.78	2.07
4	1.27	1.66	.68	.19	.82	1.62	.70	.71	1.39	4.37	2.71	2.00
5	1.18	1.57	.62	.20	.82	1.70	.61	.64	1.29	....	2.88	2.03
6	1.08	1.47	.56	.23	.78	1.56	.51	1.21	1.27	....	2.83	2.07
7	1.17	1.42	.50	.27	.78	1.28	.43	1.24	1.36	4.74	2.89	2.11
8	.97	1.64	.45	.20	.81	1.20	.36	1.10	1.38	4.75	2.80	1.95
9	1.60	1.68	.43	.21	.95	1.29	.31	.91	1.31	4.31	2.66	1.91
10	1.81	1.44	.38	.23	1.07	1.37	.27	.83	1.24	....	2.61	2.02
11	1.77	1.39	.36	.25	1.14	1.43	.24	.76	2.15	....	2.59	1.92
12	1.73	1.31	.42	.32	1.17	1.37	.33	.67	2.26	....	3.14	1.86
13	1.60	1.25	.39	.35	1.13	1.60	.28	.63	2.07	....	3.29	1.83
14	1.47	1.19	.40	.37	1.11	1.66	.44	.61	2.06	....	3.30	1.93
15	1.39	1.17	.43	.40	1.09	1.34	.50	.56	2.04	3.43	3.19	1.82
16	1.37	1.13	.44	.87	1.24	1.31	.60	.51	1.85	3.30	3.12	1.88
17	1.42	1.14	.43	.93	1.28	1.27	.63	.57	2.40	3.25	3.18	1.72
18	1.48	1.09	.39	.91	1.18	1.16	.50	.66	3.15	3.36	3.05	1.65
19	1.49	1.02	.34	1.00	1.11	....	.40	.72	2.91	3.37	3.13	1.66
20	1.31	1.01	.32	1.10	1.06	....	.31	.85	2.76	3.18	2.88	1.60
21	1.20	.93	.28	1.15	1.22	....	.21	.81	2.86	3.24	2.78	1.74
22	1.27	.88	.32	.72	1.31	....	.46	.74	2.71	3.14	2.70	1.79
23	1.21	.83	.43	.65	1.44	....	.93	.85	3.34	3.16	2.61	1.64
24	1.17	.79	.47	.62	1.48	....	1.18	.88	3.06	3.17	2.55	1.83
25	1.25	.72	.49	.58	1.51	....	1.22	.80	2.97	3.22	2.50	1.87
26	1.26	.70	.38	.83	1.35	.88	1.19	.87	3.01	3.15	2.56	1.91
27	1.10	.67	.37	.89	1.28	1.00	1.16	.74	2.80	3.11	2.48	1.81
28	1.06	.70	.31	.90	1.24	1.14	1.29	.95	3.32	3.35	2.37	1.69
29	1.04	....	.28	.93	1.20	1.18	1.36	1.41	3.13	3.25	2.24	1.63
30	1.26	....	.27	.96	1.49	.99	1.28	1.75	2.92	3.20	2.18	1.56
31	1.61	....	.26	....	1.67	....	1.13	1.82	....	3.16	....	1.52

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. 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: 1940-53. 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	+0.47	+0.44	-0.41	-0.98	-0.20	+0.38	+0.13	+0.30	+0.80	+2.16	+2.05	+1.00
2	.37	.68	.48	1.00	.23	.53	+.09	.10	.75	2.49	1.98	.96
3	....	.65	.52	1.06	.00	.61	-.03	+.07	.67	3.11	1.88	.77
4	....	.63	.54	.91	.17	.61	.11	-.14	.52	3.32	1.79	.80
5	....	.65	.56	.73	.32	.62	.19	-.19	.64	3.27	1.77	.80
6	....	.59	.54	.89	.39	.67	.26	+.58	.46	3.15	1.84	.97
7	....	.45	.61	1.05	.34	.26	.29	.60	.51	3.04	1.75	.82
8	....	.64	.70	1.07	-.09	.22	.61	.29	.57	3.69	1.69	.80
9	....	.70	.69	1.04	+.10	.20	.72	.26	.50	3.50	1.72	1.12
10	.76	.68	.76	1.02	-.03	.24	.83	.09	.55	3.34	1.84	.91
11	.94	.47	.73	1.04	.26	.19	.85	+.07	.50	3.05	1.92	.68
12	.65	.33	.62	.94	.22	.09	.50	-.07	1.21	2.94	e1.91	.54
13	.49	.18	.60	.86	.08	.09	.46	-.21	1.26	2.91	2.35	.58
14	.58	.20	.67	.64	+.08	.30	.30	-.23	1.30	....	2.24	.80
15	.33	.19	.74	.66	-.07	.46	-.20	+.10	.96	2.86	2.29	.57
16	.31	.49	.75	.62	.00	.39	+.07	-.12	1.00	2.94	2.06	.52
17	.42	.30	.77	.03	+.17	.36	-.02	.08	1.03	2.61	2.04	.44
18	.28	+.20	.90	.04	+.02	.39	.11	.08	....	2.49	1.88	.55
19	.20	-.02	.93	-.04	-.08	.43	.48	.20	2.14	2.52	1.92	.50
20	.16	-.07	.97	+.04	-.19	.24	.55	.09	1.78	2.50	1.85	.48
21	.03	-.03	1.01	-.16	+.14	.29	.53	.13	2.08	2.50	1.71	.52
22	.11	+.08	.90	.28	.09	.29	.60	.04	1.92	2.51	1.88	.36
23	.10	-.06	.72	.50	.27	.37	-.17	.12	1.98	2.49	1.45	.25
24	.16	.24	.71	.64	.10	.40	+.52	.06	2.04	2.62	1.40	.40
25	.34	.26	.67	.65	.10	.29	.82	.01	2.26	2.30	1.47	.74

S68--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+0.12	-0.29	-0.56	-0.57	+0.17	+0.25	+0.56	-0.27	+2.09	+2.12	+1.42	+0.89
27	+0.06	.19	.77	+.13	.10	.25	.51	-.30	2.19	2.30	1.17	.76
28	+0.04	.40	.79	+.04	.11	.28	.65	-.26	2.19	2.56	1.11	.60
29	-.07		.63	-.14	.33	.17	.63	+.35	2.26	2.41	1.09	.51
30	-.07		.86	.19	.08	.14	.56	.70	2.14	2.07	1.05	.41
31	+.27		.90		.08		.63	.83		2.05		.51

e Estimated.

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 20-22, 1945. Records available: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.70	3.88	3.70	2.57	2.99	2.45	3.66	5.56	5.87	7.32	6.96	5.53
2	3.69	3.88	3.65	2.54	2.99	2.45	3.68	5.47	5.85	7.71	6.88	5.47
3	3.67	3.92	3.60	2.51	2.99	2.45	3.68	5.37	5.80	7.80	6.82	5.40
4	3.65	3.92	3.56	2.50	2.97	2.47	3.67	5.28	5.72	8.24	6.75	5.35
5	3.61	3.91	3.51	2.47	2.95	2.50	3.65	5.24	5.65	8.10	6.75	5.35
6	3.58	3.87	3.48	2.44	2.93	2.54	3.64	6.18	5.57	8.31	6.67	5.30
7	3.54	3.95	3.46	2.41	2.90	2.55	3.61	6.03	5.54	9.17	6.60	5.22
8	3.52	4.16	3.42	2.38	2.89	2.53	3.57	5.89	5.65	8.60	6.54	5.18
9	3.90	4.22	3.38	2.35	2.91	2.50	3.54	5.77	5.63	8.54	6.48	5.14
10	4.02	4.24	3.33	2.32	2.92	2.47	3.51	5.67	5.57	8.38	6.45	5.09
11	4.12	4.25	3.29	2.30	2.90	2.44	3.69	5.57	5.55	8.25	6.41	5.03
12	4.14	4.25	3.24	2.30	2.87	2.41	3.83	5.50	5.63	8.12	6.46	4.99
13	4.14	4.25	3.20	2.29	2.83	2.39	3.85	e5.32	5.66	8.07	6.46	4.94
14	4.13	4.24	3.16	2.29	2.78	2.39	3.89	5.29	5.67	8.00	6.43	4.96
15	4.11	4.23	3.12	2.27	2.75	2.38	3.92	5.26	5.73	7.93	6.41	4.92
16	4.10	4.21	3.09	2.44	2.71	2.38	3.93	5.18	5.75	7.91	6.43	4.87
17	4.08	4.18	3.05	2.51	2.67	2.38	4.06	5.62	5.75	7.89	6.40	4.82
18	4.06	4.13	3.02	2.54	2.63	2.38	4.10	5.58	5.82	7.91	6.37	4.78
19	4.04	4.08	2.99	2.54	2.58	2.43	4.11	5.52	5.94	7.82	6.31	4.73
20	4.01	4.05	2.96	2.54	2.55	2.58	4.11	5.71	5.95	7.73	6.25	4.71
21	3.98	4.00	2.94	2.54	2.70	2.78	4.11	5.69	6.04	7.65	6.19	4.70
22	3.95	3.97	2.90	2.53	2.75	2.96	4.14	5.64	6.20	7.60	6.14	4.67
23	3.92	3.94	2.87	2.50	2.74	3.07	4.25	5.58	7.02	7.49	6.10	4.63
24	3.97	3.90	2.84	2.47	2.73	3.11	5.01	5.51	7.02	7.42	6.02	4.75
25	3.97	3.85	2.81	2.45	2.69	3.19	5.35	5.65	6.97	7.35	5.97	4.77
26	3.95	3.81	2.78	2.43	2.64	3.25	5.43	5.66	6.92	7.24	5.90	4.76
27	3.92	3.77	2.73	2.72	2.59	3.35	5.72	5.57	6.90	7.37	5.82	4.74
28	3.90	3.74	2.71	2.84	2.55	3.51	5.80	5.78	7.50	7.32	5.75	4.69
29	3.86		2.68	2.90	2.48	3.57	5.81	5.82	7.48	7.22	5.66	4.66
30	3.85		2.64	2.97	2.47	3.63	5.76	5.82	7.40	7.14	5.58	4.62
31	3.86		2.61		2.45		5.65	5.83		7.03		4.58

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: 1932-53.

Daily water level above msl

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.58	3.08	2.72	1.60	2.12	1.30	5.10	5.02	4.82	5.42	5.06	4.26
2	2.52	3.08	2.62	1.58	2.10	1.34	4.94	4.94	4.80	6.12	4.96	4.22
3	2.54	3.10	2.60	1.52	2.10	1.62	4.82	4.82	4.76	6.48	4.90	4.20
4	2.52	3.12	2.48	1.46	2.04	1.76	4.72	4.76	4.66	6.82	4.84	4.16
5	2.52	3.08	2.46	1.44	2.00	1.94	4.62	4.72	4.74	6.46	4.80	4.12
6	2.50	3.12	2.42	1.40	1.94	2.32	4.58	4.80	4.60	6.78	4.76	4.08
7	2.50	3.06	2.36	1.34	1.90	2.52	4.50	4.82	4.62	6.84	4.72	4.04
8	2.44	3.12	2.34	1.30	1.84	2.56	4.42	4.72	4.72	7.78	4.64	4.04
9	2.66	3.26	2.30	1.28	1.82	2.52	4.34	4.62	4.72	7.87	4.62	4.02
10	3.28	3.28	2.28	1.26	1.78	2.52	4.32	4.60	4.64	7.22	4.56	4.00

S196--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	3.58	3.28	2.26	1.22	1.74	2.46	4.22	4.54	4.60	7.14	4.54	3.96
12	3.62	3.28	2.22	1.12	1.72	2.42	4.22	4.46	4.58	6.88	4.60	3.92
13	3.68	3.24	2.20	1.10	1.66	2.38	4.18	4.34	4.54	6.68	4.76	3.90
14	3.66	3.22	2.18	1.08	1.62	2.82	4.12	4.32	4.52	6.52	4.78	3.84
15	3.58	3.16	2.14	1.06	1.56	2.82	4.14	4.46	4.64	6.40	4.86	3.84
16	3.58	3.18	2.12	1.16	1.52	2.82	4.18	5.22	4.68	6.26	4.92	3.82
17	3.62	3.12	2.10	1.42	1.44	3.22	4.28	5.24	4.64	6.20	4.86	3.80
18	3.48	3.04	2.08	1.66	1.38	3.24	4.26	5.22	4.66	6.04	4.80	3.78
19	3.44	3.02	2.06	1.68	1.32	3.22	4.24	5.16	4.86	6.02	4.78	3.74
20	3.42	2.98	2.04	1.70	1.24	3.22	4.22	5.10	5.02	6.02	4.72	3.72
21	3.32	2.92	1.94	2.16	1.30	3.72	4.12	5.02	....	5.94	4.66	3.72
22	3.28	2.88	1.92	2.18	1.52	4.92	4.14	4.92	5.04	5.86	4.62	3.68
23	3.24	2.82	1.86	1.84	1.72	5.12	4.12	4.82	5.04	5.78	4.56	3.68
24	3.24	2.80	1.84	1.82	1.70	4.96	4.17	4.74	5.07	5.66	4.52	3.66
25	3.22	2.76	1.82	1.78	1.66	4.82	4.32	4.68	5.04	5.54	4.48	3.64
26	3.30	2.72	1.80	1.80	1.60	4.76	4.36	4.62	4.96	5.42	4.42	3.64
27	3.32	2.68	1.78	2.16	1.52	5.62	4.42	4.52	4.92	5.40	4.40	3.66
28	3.28	2.64	1.76	....	1.42	5.52	4.82	4.48	5.32	5.34	4.36	3.64
29	3.22		1.70	2.02	1.34	5.40	4.96	4.46	5.50	5.28	4.32	3.62
30	3.18		1.68	2.10	1.28	5.24	5.04	4.72	5.38	5.26	4.28	3.62
31	3.12		1.66		1.24		5.10	4.76		5.12		3.60

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: 1945-53. 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	0.35	0.59	0.44	0.35	0.50	0.84	0.82	0.97	1.15	1.62	1.36	0.80
2	.36	.51	.47	.36	.37	.85	.76	.93	.99	1.93	1.34	.94
3	.41	.55	.47	.37	.26	.87	.76	.88	1.12	2.08	1.33	1.09
4	.31	.56	.47	.33	.29	.97	.75	.76	1.24	2.30	1.42	1.09
5	.27	.47	.35	.30	.33	1.01	.68	.82	1.33	2.21	1.56	.88
6	.22	.42	.25	.40	.33	.91	.69	.92	1.38	2.42	1.41	.91
7	.21	.45	.23	.43	.35	.83	.68	.85	1.30	2.59	1.43	.84
8	.27	.50	.10	.36	.49	.78	.66	.85	1.23	2.78	1.52	.89
9	.55	.42	.20	.42	.50	.70	.58	.93	1.25	2.93	1.59	.99
10	.45	.49	.36	.50	.50	.63	.62	.93	1.25	2.69	1.62	.97
11	.26	.49	.49	.55	.57	.56	.90	.94	1.18	2.61	1.61	1.02
12	.22	.45	.46	.62	.61	.50	.90	.94	1.29	2.63	1.89	.98
13	.33	.48	.45	.54	.57	.52	.80	.93	1.30	2.55	1.89	.96
14	.36	.60	.50	.44	.50	.52	.80	.90	1.27	2.39	1.94	.95
15	.45	.59	.54	.46	.48	.47	.81	.82	1.27	2.28	1.99	.68
16	.47	.47	.54	.83	.47	.49	.65	.83	1.27	2.15	1.97	.68
17	.54	.51	.54	.59	.45	.55	.67	.99	1.30	2.16	1.91	.65
18	.55	.40	.59	.43	.40	.57	.72	.95	1.35	2.17	1.70	.56
19	.46	.45	.53	.20	.44	.66	.63	.92	1.37	2.16	1.65	.69
20	.46	.48	.42	.00	.50	.64	.55	.97	1.45	2.13	1.62	.78
21	.44	.34	.49	.04	.71	.67	.58	1.00	1.53	2.21	1.56	.82
22	.35	.10	.52	.10	.54	.68	.82	.96	1.68	2.33	1.48	.86
23	.47	.07	.48	.15	.46	.69	.75	1.07	1.90	2.30	1.30	.80
24	.52	.15	.43	.08	.45	.79	.99	1.20	2.02	2.29	1.15	.97
25	.29	.24	.25	.18	.41	.93	1.01	1.23	2.05	2.19	1.13	.75
26	.26	.31	.21	.54	.41	.88	....	1.24	2.10	2.07	.97	.64
27	.33	.25	.21	.43	.35	.92	1.22	1.23	1.91	2.08	.82	.68
28	.35	.29	.25	.46	.40	.98	1.25	1.33	1.78	1.87	.74	.75
29	.33		.34	.56	.68	.97	1.26	1.39	1.65	1.61	.75	.75
30	.43		.36	.56	.81	.90	1.28	1.32	1.59	1.37	.72	.62
31	.59		.38		.83		1.16	1.23		1.35		.54

S539--Continued.

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	+0.09	+0.17	0.00	-0.02	+0.08	+0.49	+0.46	+0.70	+0.82	+1.40	+1.15	+0.50
2	+0.05	.15	+0.10	+0.02	-.02	.47	.44	.67	.77	1.45	1.11	.58
3	+0.04	.25	+0.12	+0.02	.05	.53	.44	.60	.83	1.65	1.06	.67
4	.00	.21	+0.10	+0.01	.01	.67	.42	.53	.92	1.86	1.07	.75
5	-.01	.16	-.04	-.02	-.02	.68	.37	.54	1.01	1.95	1.24	.61
6	-.04	.14	-.06	+0.12	+0.02	.54	.38	.61	1.05	1.96	1.12	.55
7	.05	.15	.13	.04	.02	.44	.35	.57	1.02	2.15	1.05	.52
8	-.04	.15	.14	.04	.04	.38	.31	.55	.95	2.42	1.11	.50
9	+0.12	.14	.14	.05	.05	.30	.23	.57	.94	2.59	1.18	.58
10	+0.15	.17	-.02	.17	.13	.26	.26	.62	.93	2.41	1.25	.60
11	+0.06	.17	+0.10	.16	.17	.18	.42	.64	.90	2.34	1.22	.67
12	-.02	.14	.13	.23	.20	.15	.46	.65	.98	2.34	1.41	.58
13	-.04	.11	.09	.13	.16	.20	.51	.65	1.02	2.22	1.49	.59
14	+0.01	.12	.10	.04	.12	.17	.52	.61	1.01	2.12	1.50	.47
15	-.04	.17	.11	.05	.12	.19	.43	.58	1.01	1.98	1.61	.40
16	.10	.12	.12	.18	.11	.22	.40	.60	1.00	1.95	1.54	.37
17	.13	.09	.13	+0.16	.08	.28	.44	.63	1.01	1.90	1.47	.33
18	.14	.07	.18	.00	.09	.26	.45	.73	1.03	1.90	1.30	.28
19	.08	.12	.12	-.16	.10	.39	.36	.68	1.10	1.80	1.25	.27
20	.10	+0.09	.09	.19	.12	.38	.32	.71	1.15	1.75	1.20	.34
21	.06	-.03	.18	.19	.39	.42	.32	.70	1.18	1.73	1.12	.42
22	.04	.10	.16	.16	.25	.39	.37	.65	1.12	1.74	1.06	.46
23	.08	.11	.16	.12	.17	.39	.46	.71	1.52	1.78	.90	.40
24	.13	.12	+0.04	.18	.15	.39	.87	.30	1.54	1.72	.84	.50
25	+0.06	.10	-.03	.11	.09	.56	.77	.87	1.63	1.67	.75	.47
26	-.02	.03	.10	-.07	.07	.53	...	.90	1.64	1.61	.65	.35
27	-.01	.05	.13	+0.13	.03	.54	.90	.90	1.45	1.57	.58	.35
28	+0.03	-.06	.07	.09	.03	.62	.91	.85	1.47	1.45	.55	.43
29	.00	-.04	.18	.23	.57	.94	.95	1.38	1.25	.52	.45	
30	-.01	+0.01	.17	.47	.51	.91	.90	1.36	1.18	.53	.38	
31	+0.16	+0.02			.46		.79	.90		1.14		.28

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 21.2 above lsd, May 28, 1953. Records available: 1938, 1940-42, 1944, 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1952	+28.3	July 14, 1952	+23.9	Feb. 3, 1953	+27.8	Sept. 8, 1953	+24.8
Mar. 5	+29.6	Sept. 8	+24.4	Mar. 30	+26.6	Nov. 2	+28.2
Apr. 15	+23.1	Oct. 27	+28.3	May 28	+21.2	Dec. 14	+28.6
May 27	+25.8	Dec. 15	+28.0	July 13	+23.7		

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 27.9 above lsd, May 28, 1953. Records available: 1938, 1940-41, 1946-53. Feb. 3, +34.5; Mar. 30, +33.0; May 28, +27.9; July 13, +30.9; Sept. 8, +33.1; Nov. 2, +35.4; Dec. 14, +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 8.5 above lsd, July 14, 1953. Records available: 1939-41, 1946-53. Feb. 5, +9.6; July 14, +8.5. Measurement discontinued.

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 11.22 below lsd, May 28, 1953. Records available: 1930-31, 1934, 1939-42, 1946-53. Feb. 5, 6.75; Mar. 31, 8.26; May 28, 11.22; July 14, 7.65; Sept. 10, 6.15; Nov. 3, 4.42; Dec. 15, 3.90.

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 22.7 above lsd, July 13, 1953. Records available: 1930-31, 1938, 1940-42, 1944-53. Feb. 3, +27.4; Mar. 30, +24.7; July 13, +22.7; Sept. 8, +25.7; Nov. 2, +26.2; Dec. 14, +27.5.

118. City of Jacksonville. Post and Dancy Sts., Jacksonville. 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 24.3 above lsd, July 13, 1953. Records available: 1940-53. Feb. 3, +25.9; Mar. 30, +24.7; July 13, +24.3; Sept. 8, +25.1; Nov. 2, +26.8; Dec. 14, +27.3.
122. City of Jacksonville. Russell and 63d Sts., Jacksonville. 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 33.1 above lsd, Mar. 5, 1952. Records available: 1930, 1938, 1940-42, 1944-53. July 14, +33.7; Dec. 15, +37.3.
123. City of Jacksonville. Beaver and Huron Sts., Jacksonville. Drilled unused artesian well in 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, 1938-53. Feb. 3, +28.1; Mar. 30, +27.3; July 13, +26.7; Sept. 8, +27.9; Nov. 2, +29.1; Dec. 14, +29.9.
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 23.0 above lsd, May 28, 1953. Records available: 1940-42, 1944-53. Feb. 3, +32.8; Mar. 30, +30.5; May 28, +23.0; July 13, +28.3; Sept. 8, +31.5; Nov. 2, +32.0; Dec. 14, +34.0.
131. G. C. Cole. SW $\frac{1}{4}$ sec. 10, T. 1 S., R. 26 E. Drilled domestic artesian well in 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 29.2 above lsd, May 27, 1953. Records available: 1934, 1940-42, 1944-53. Feb. 5, +31.0; Mar. 31, +31.5; May 27, +29.2. Measurement discontinued.
145. Duval County School Board. Oceanway School. Drilled public-supply artesian well in 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 14.4 above lsd, May 27, 1953. Records available: 1940-42, 1944-53. Feb. 5, +16.2, estimated; Mar. 31, +15.3, estimated; May 27, +14.4; July 14, +15.0; Sept. 9, +15.7; Nov. 4, +16.9; Dec. 15, +17.1.
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 15.8 above lsd, Sept. 9, 1953. Records available: 1940-42, 1944-53. Feb. 5, +20.6; Mar. 31, +16.3; May 27, +16.1; July 14, +19.4; Sept. 9, +15.8. Measurement discontinued.
149. Mrs. W. M. Bostwick. Drummond Creek, 1.2 miles southwest of Eastport. 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 18.0 above lsd, May 27, 1953. Records available: 1940-41, 1944-53. Feb. 4, +20.5; Mar. 31, +19.0; May 27, +18.0; July 14, +18.9; Sept. 9, +20.2; Nov. 4, +21.0; Dec. 15, +21.6.
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 20.3 above lsd, May 26, 1953. Records available: 1940-42, 1944, 1946-53. Feb. 6, +23.0; Apr. 1, +22.9; May 26, +20.3; July 15, +21.1; Sept. 10, +23.0; Nov. 3, +23.3; Dec. 15, +24.1.
160. City of Neptune Beach. Florida Ave. and First St., Neptune Beach. 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, 1944-53. Feb. 5, +33.9; Mar. 31, +33.5; May 28, +31.5; July 14, +32.0; Sept. 9, +33.5; Nov. 3, +36.2; Dec. 15, +35.7.
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 34.7 above lsd, July 14, 1953. Records available: 1930-31, 1940-41, 1944-53. Feb. 5, +35.7; Mar. 31, +35.3; May 27, +35.3; July 14, +34.7; Sept. 9, +35.8; Nov. 4, +36.5; Dec. 15, +36.3.
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 1,700 feet, cased to 1,000. Highest water level 2.07 below lsd, June 5, 1948; lowest 10.50 below lsd, June 1953: Records available: 1941-42, 1948-53.

206--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.97	8.32	8.46	....	8.78	....	....	9.73	9.15	8.23	7.30	7.31
2	7.83	8.26	8.49	8.99	8.88	....	....	....	9.18	8.20	7.30	7.33
3	7.75	8.19	8.60	9.05	9.05	....	....	9.92	9.12	8.15	7.35	7.26
4	7.91	8.23	8.56	9.03	9.16	....	....	9.99	9.09	7.99	7.28	7.21
5	7.95	8.36	8.78	9.02	9.20	....	....	9.98	9.04	7.78	7.15	7.25
6	8.10	8.29	8.88	8.80	9.20	....	....	10.02	8.97	7.77	7.23	7.15
7	8.16	8.19	8.84	8.65	9.18	....	....	10.09	8.96	7.92	7.28	7.20
8	8.03	8.30	8.82	8.81	9.14	....	....	10.10	8.95	7.92	7.27	7.22
9	7.70	8.50	8.93	8.81	9.15	....	....	10.00	8.94	7.72	7.17	7.10
10	7.77	8.52	8.89	8.73	9.17	....	....	9.97	8.85	7.65	7.17	7.10
11	7.87	8.40	8.82	8.74	9.17	....	....	9.97	8.80	7.68	7.18	7.15
12	8.04	8.22	8.78	8.58	9.25	....	....	9.92	8.80	7.68	7.19	7.05
13	8.15	8.34	8.70	8.60	9.35	....	....	9.85	8.72	7.73	7.22	6.87
14	8.17	8.32	8.66	8.83	9.45	....	....	9.86	8.68	7.73	7.22	6.85
15	8.20	8.22	8.64	8.72	9.54	....	....	9.90	8.65	7.66	7.15	7.15
16	8.22	8.40	8.65	8.61	9.62	....	....	9.92	8.59	7.61	7.10	7.17
17	8.21	8.45	8.68	8.75	9.65	....	....	9.87	8.62	7.63	7.16	7.24
18	8.13	8.63	8.66	8.67	9.54	....	....	9.82	8.55	7.62	7.22	7.29
19	8.06	8.57	8.70	8.59	9.69	....	....	9.75	8.55	7.55	7.22	7.24
20	8.05	8.48	8.87	8.64	9.80	....	....	9.70	8.38	7.49	7.17	7.04
21	8.03	8.50	8.89	8.65	9.80	....	....	9.69	8.42	7.44	7.18	6.85
22	8.20	8.62	8.81	8.66	9.75	....	10.00	9.61	8.53	7.40	7.17	6.90
23	8.13	8.64	8.70	8.62	9.78	....	....	9.49	8.59	7.30	7.10	6.85
24	8.02	8.50	8.68	8.63	9.75	....	....	9.40	8.44	7.20	7.05	7.00
25	8.28	8.42	8.70	8.61	9.90	....	....	9.38	8.33	7.24	7.00	6.80
26	8.38	8.39	8.78	8.56	9.97	....	....	9.40	8.10	7.30	7.20	6.70
27	8.37	8.42	8.75	8.60	10.11	....	....	9.76	9.37	7.98	7.26	6.55
28	8.29	8.45	8.68	8.68	....	....	....	9.70	9.29	8.07	7.15	7.33
29	8.37	....	8.77	8.66	....	....	....	9.68	9.22	8.12	7.18	7.37
30	8.41	....	....	8.67	....	....	....	9.75	9.20	8.22	7.26	7.31
31	8.34	....	....	....	....	....	9.77	9.11	....	7.30	....	6.61

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 104.95 below lsd, Dec. 18, 1953. Records available: 1940-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	103.74	103.18	102.80	102.87	102.86	103.10	103.77	104.20	104.14	104.09	104.17	104.42
2	103.43	103.03	102.82	102.90	102.94	103.10	103.71	104.22	104.10	104.08	104.23	104.34
3	103.54	103.04	102.83	102.92	103.10	103.18	103.76	104.28	104.04	104.07	104.20	104.09
4	103.64	103.11	102.82	102.98	103.13	103.23	103.87	104.32	104.01	103.99	104.02	104.19
5	103.66	103.15	103.15	102.96	103.10	103.22	103.92	104.24	103.99	103.82	103.90	104.28
6	103.71	102.97	103.17	102.55	103.05	103.20	103.92	104.22	103.99	103.87	104.08	104.20
7	103.66	102.96	103.12	102.68	102.99	103.29	103.94	104.33	....	104.06	104.16	104.54
8	103.37	103.29	103.09	102.88	102.96	....	104.00	104.36	104.11	104.07	104.25	104.42
9	103.02	103.40	103.07	102.88	102.99	....	104.07	104.35	104.18	103.98	104.22	104.14
10	103.32	103.35	102.98	102.79	103.03	....	104.10	104.39	104.17	103.96	104.22	104.39
11	103.63	103.07	102.90	102.79	103.02	....	104.09	104.47	104.12	103.99	104.22	104.28
12	103.86	102.87	102.96	102.64	103.03	....	104.11	104.52	104.08	104.06	104.22	104.18
13	103.84	103.08	102.94	103.01	103.05	....	104.13	104.50	104.03	104.14	104.27	104.08
14	103.80	102.85	102.87	103.17	103.02	....	104.14	104.45	103.98	104.28	104.27	104.32
15	103.79	102.94	....	102.97	102.99	....	104.21	104.41	103.94	104.16	104.15	104.67
16	103.79	103.09	....	103.03	102.98	....	104.23	104.39	103.89	104.07	104.07	104.70
17	103.69	103.27	103.02	103.07	102.99	103.49	104.23	104.37	103.89	....	104.09	104.86
18	103.59	103.39	102.81	102.90	102.96	103.42	104.17	104.31	103.94	....	104.10	104.89
19	103.52	103.12	102.86	103.10	102.91	103.44	104.14	104.23	103.85	....	104.04	104.77
20	103.42	102.89	102.92	103.22	102.96	103.52	104.17	104.20	103.79	104.16	103.92	104.35
21	103.51	103.17	102.82	103.19	103.09	103.55	104.17	104.29	103.95	104.11	104.03	104.19
22	103.52	103.37	102.83	103.16	103.14	103.59	104.14	104.30	104.17	104.07	103.93	104.30
23	103.49	103.33	102.86	103.09	103.14	103.59	104.10	104.24	104.18	103.95	104.07	104.56
24	103.37	103.03	102.93	102.96	103.17	103.58	104.14	104.18	104.14	103.89	103.88	104.74
25	103.69	102.89	103.07	102.85	103.22	103.59	104.17	104.21	103.93	103.89	104.02	104.57

45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	103.65	102.90	103.14	102.95	103.23	103.64	104.22	104.21	103.53	103.92	104.32	104.45
27	103.49	102.92	103.03	103.08	103.21	103.65	104.20	104.19	103.74	103.95	104.37	104.25
28	103.36	102.91	102.96	103.00	103.28	103.70	104.14	104.14	103.88	103.97	104.52	104.12
29	103.45		103.02	102.73	103.35	103.82	104.17	104.07	103.97	104.06	104.56	104.18
30	103.35		103.01	102.68	103.27	103.84	104.27	104.08	104.04	104.14	104.48	104.27
31	103.18		102.92		103.17		104.28	104.09		104.15		104.58

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 76.80 below lsd, Feb. 18, 1953. Records available: 1939-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.25	76.47	76.51	76.46	75.91	75.58	75.55	75.00	74.41	74.05	73.18	72.86
2	76.17	.....	76.50	76.47	75.93	75.58	75.47	74.95	74.39	74.04	73.29	72.79
3	76.17	76.37	76.49	76.46	75.99	75.63	75.46	75.05	74.37	74.01	73.24	72.59
4	76.25	76.40	76.50	76.47	76.09	75.63	75.48	75.02	74.31	73.95	73.08	72.55
5	76.25	76.46	76.82	76.47	76.08	75.60	75.47	74.94	74.29	73.79	72.86	72.59
6	76.30	76.44	76.76	.....	76.05	75.55	75.45	74.87	74.28	73.75	72.99	72.45
7	75.31	76.41	76.76	76.10	76.02	75.57	75.42	74.86	74.30	73.82	73.05	.....
8	76.19	76.55	76.74	76.25	76.00	75.60	75.43	74.85	.....	73.82	73.08	72.48
9	76.07	76.70	76.74	76.26	75.99	75.65	75.42	74.82	.....	73.74	73.06	72.28
10	76.10	76.72	76.61	76.20	75.99	75.65	75.42	74.87	.....	73.69	73.07	72.23
11	76.28	76.67	76.59	76.20	75.97	75.63	75.37	74.89	.....	73.87	73.05	72.07
12	76.41	76.59	76.60	.....	75.91	75.57	75.36	74.90	.....	73.68	73.05	71.89
13	76.44	76.59	76.60	.....	75.90	75.56	75.36	74.88	.....	73.71	73.06	71.75
14	76.43	.....	76.57	76.45	75.89	75.48	75.37	74.83	.....	73.74	73.06	.....
15	76.43	.....	76.56	76.37	75.86	75.47	75.38	74.78	74.27	73.69	72.97	71.82
16	76.43	.....	76.60	76.30	75.80	.....	75.39	74.74	74.21	73.61	.....	71.77
17	76.42	76.64	76.60	76.35	75.72	75.52	.....	74.71	74.18	73.58	72.92	71.76
18	76.40	76.79	76.52	76.22	75.74	75.48	.....	74.69	74.20	73.59	72.91	71.72
19	76.40	76.77	76.51	76.29	75.69	75.48	.....	74.62	74.13	73.58	72.88	.....
20	76.24	76.56	76.47	76.42	75.65	75.48	.....	74.58	74.06	73.55	72.69	.....
21	76.29	76.62	76.43	76.39	75.70	75.53	.....	74.62	74.19	73.49	72.76	.....
22	76.35	76.76	76.42	76.37	75.72	75.50	.....	74.63	74.28	73.43	72.75	.....
23	76.20	76.77	76.39	76.34	75.72	75.51	.....	74.53	74.29	73.36	72.71	.....
24	76.30	76.64	76.42	76.27	75.71	75.51	.....	74.56	74.29	73.25	72.62	.....
25	76.52	76.55	76.57	76.07	75.72	75.50	.....	74.55	74.10	73.21	72.65	.....
26	76.56	76.52	76.62	76.07	75.71	75.50	.....	74.53	73.72	73.28	72.82	.....
27	76.50	76.52	76.59	76.15	75.67	75.49	.....	74.49	73.82	73.16	72.86	.....
28	76.45	76.51	76.58	76.09	75.70	75.48	.....	74.45	74.00	73.17	72.93	70.19
29	76.49		76.59	75.97	75.74	75.57	75.02	74.39	74.03	73.20	72.98	70.10
30	76.49		.....	75.89	75.69	75.58	75.07	74.39	74.04	73.24	72.89	70.05
31	76.47		76.47		75.64		75.07	74.39		73.24		70.08

60. U. S. Geol. Survey. "H" St., 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: 1940-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.18	9.12	8.73	.....	8.36	9.35	9.29	9.37	8.52	6.70	6.85	6.77
2	9.18	9.10	8.71	.....	.....	9.40	9.28	9.36	8.53	6.52	6.86	6.78
3	9.17	9.08	8.69	.....	.....	9.45	9.29	9.33	8.56	6.31	6.86	6.77
4	9.17	9.06	8.67	8.56	.....	9.50	.....	9.33	8.58	6.12	6.87	6.76
5	.....	9.05	8.65	8.56	8.33	9.55	.....	9.36	8.57	5.98	6.87	6.73
6	.....	9.04	8.63	8.56	8.32	9.58	.....	9.40	8.50	5.96	6.86	6.57
7	.....	9.02	8.62	8.58	8.31	9.59	9.41	9.45	8.39	5.98	6.87	6.45
8	.....	9.00	8.60	8.58	8.30	9.63	9.45	9.48	.....	6.03	6.86	6.42
9	.....	9.00	8.58	.....	8.30	9.66	.....	9.47	8.25	6.07	6.82	6.41
10	.....	8.99	8.58	.....	8.30	9.70	.....	9.42	8.23	6.12	6.82	6.41
11	.....	8.98	8.57	8.57	8.30	9.74	.....	9.39	8.22	6.16	6.83	6.41
12	.....	8.97	8.57	8.55	8.32	9.78	.....	9.39	8.20	6.19	6.85	6.41
13	9.17	8.97	8.56	8.51	8.35	9.80	.....	9.39	8.18	6.22	6.87	6.38
14	9.16	8.96	8.55	8.49	8.36	9.83	.....	9.40	8.15	6.28	6.89	6.35
15	9.18	8.95	8.55	8.48	8.47	9.83	.....	9.40	8.13	6.35	6.89	6.36

60--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	9.18	8.93	8.54	8.47	8.53	9.85	....	9.37	8.11	6.39	6.91	6.36
17	9.17	8.92	8.53	8.46	8.57	9.87	....	9.14	8.10	6.43	6.92	6.36
18	9.15	8.92	8.52	8.45	8.60	9.90	....	8.97	8.09	6.46	6.92	6.35
19	9.13	8.91	8.51	8.44	8.65	9.93	....	8.94	8.05	6.47	6.93	6.36
20	9.12	8.90	8.52	8.43	8.69	9.97	....	8.92	7.95	6.48	6.93	6.30
21	9.11	8.89	8.52	8.43	8.72	10.00	9.37	8.87	7.82	6.51	6.93	6.01
22	9.11	8.88	8.51	8.42	8.75	10.07	9.35	8.85	7.77	6.55	6.87	5.88
23	9.11	8.85	....	8.42	8.80	....	9.35	8.78	7.76	6.60	6.77	5.80
24	9.11	8.83	8.55	8.41	8.83	....	9.34	8.64	7.75	6.65	6.77	5.78
25	9.11	8.79	8.55	8.40	8.86	10.07	9.34	8.58	7.73	6.69	6.78	5.74
26	9.11	8.78	8.55	8.39	8.90	10.04	....	8.57	....	6.72	6.78	5.57
27	9.11	8.76	8.56	8.38	8.95	9.98	....	8.55	....	6.77	6.78	5.46
28	9.11	8.75	8.56	8.37	9.05	9.71	9.34	8.55	....	6.76	6.77	5.37
29	9.11	....	8.56	8.37	9.15	9.40	9.35	8.54	6.82	6.80	6.77	....
30	9.12	....	8.55	8.36	9.23	9.30	9.35	8.54	6.83	6.84	6.78	....
31	9.12	....	....	....	9.34	....	9.36	8.53	....	6.85	....	....

60-A. U. S. Geol. Survey. "B" St., 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 7.39 below lsd, Nov. 17, 1952. Records available: 1940-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	6.73	Apr. 6	5.52	July 6	5.61	Oct. 5	5.61
12	6.50	13	4.47	13	5.67	12	5.11
19	6.05	20	5.11	20	5.57	19	5.25
26	6.18	27	5.18	27	5.57	26	5.40
Feb. 2	5.88	May 4	5.06	Aug. 3	5.70	Nov. 2	5.77
9	5.53	11	5.35	10	5.68	9	5.53
16	4.85	18	5.20	17	5.33	16	5.69
22	5.22	25	5.52	24	5.15	23	4.96
Mar. 2	5.31	June 1	5.48	31	4.65	30	5.68
9	5.59	8	5.25	Sept. 8	5.15	Dec. 7	4.78
16	4.78	15	5.63	14	5.28	14	4.30
23	5.07	22	5.95	21	5.18	21	4.25
30	5.61	29	4.98	28	4.02	28	4.71

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 21.67 below lsd, Sept. 20, 1953. Records available: 1940-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.81	15.18	14.71	14.67	14.28	15.38	15.76	16.08	15.50	20.68	16.06	20.17
2	14.81	15.02	14.62	14.68	14.29	15.45	15.78	16.09	15.49	20.48	16.89	20.28
3	14.81	14.95	14.60	14.70	14.28	15.49	15.83	16.03	15.55	20.20	17.58	20.37
4	14.81	14.94	14.60	14.72	14.28	15.55	15.89	16.02	15.87	20.17	18.14	20.43
5	14.81	14.95	14.59	14.73	14.29	15.58	15.93	16.45	17.05	20.21	18.48	20.44
6	14.83	14.95	14.58	14.72	14.32	15.59	15.93	16.77	17.95	20.26	18.78	20.27
7	14.85	14.94	14.59	14.68	14.34	15.52	15.97	16.83	18.50	20.36	19.08	20.03
8	14.88	14.90	14.58	....	14.36	15.37	16.04	16.82	....	20.46	19.30	20.01
9	14.88	....	....	....	14.38	15.33	16.11	16.65	19.00	20.60	19.52	20.00
10	14.90	14.95	....	....	14.39	15.38	16.17	16.35	19.53	20.23	19.63	20.02
11	14.91	14.96	....	14.66	14.38	15.42	16.21	16.23	19.96	19.74	19.87	20.07
12	14.96	14.98	....	14.49	14.40	15.45	16.24	16.20	20.35	18.72	20.14	20.08
13	14.97	14.99	....	14.32	14.49	15.46	16.28	16.25	20.64	18.77	20.32	20.03
14	15.01	14.99	....	14.30	14.57	15.48	....	16.28	20.80	19.00	20.54	19.94
15	15.07	14.92	14.58	14.29	14.66	15.48	16.30	16.27	20.95	19.28	20.57	19.94
16	15.12	14.86	14.53	14.28	14.73	15.48	16.27	16.08	21.16	19.48	20.60	19.95
17	15.05	14.87	14.54	14.28	14.77	15.49	16.26	15.83	21.35	19.56	20.61	19.97
18	14.97	14.88	14.55	14.29	14.78	15.52	16.10	15.78	21.53	19.73	20.60	19.97
19	14.86	14.90	14.55	14.27	14.82	15.57	15.97	15.79	21.64	19.72	20.67	19.97
20	14.84	14.90	14.57	14.23	14.84	15.63	15.80	15.76	21.67	19.70	20.76	19.85

62--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	14.86	14.90	14.58	14.22	14.85	15.65	.....	15.75	21.63	19.85	20.79	19.63
22	14.91	14.89	14.55	14.25	14.88	15.66	15.77	15.73	21.61	19.92	20.37	19.58
23	14.94	14.86	14.44	14.27	14.93	15.67	15.80	15.65	21.62	20.05	20.08	19.54
24	14.97	14.86	14.45	14.28	14.95	15.72	15.82	15.57	21.63	20.14	20.17	.....
25	14.99	14.83	14.48	14.28	14.98	15.77	15.83	15.53	21.61	20.18	20.25	.....
26	14.99	14.83	14.55	14.23	14.98	15.82	15.85	.....	21.33	20.20	20.33	.....
27	15.00	14.83	14.59	14.16	15.03	15.84	15.86	.....	20.90	19.72	20.27	.....
28	15.03	14.84	14.63	14.18	15.10	15.80	15.88	.....	20.67	19.75	20.22	.....
29	15.10		14.64	14.23	15.18	15.76	15.95	15.65	20.65	20.24	20.50	19.05
30	15.15		14.64	14.26	15.27	15.75	16.00	15.70	20.66	18.06	20.14	19.03
31	15.18		14.64		15.33		16.05	15.56		15.39		19.03

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: 1940-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	12.76	Apr. 6	11.97	July 6	11.42	Oct. 5	10.07
12	12.96	13	11.17	13	11.75	12	10.59
19	12.92	20	11.15	20	11.77	19	11.01
26	12.69	27	11.48	27	11.60	26	12.11
Feb. 2	12.68	May 4	11.47	Aug. 3	11.70	Nov. 2	11.64
9	12.39	11	11.61	10	11.68	9	11.60
16	11.52	18	11.68	17	11.66	16	11.99
22	11.37	25	11.24	24	11.63	23	11.82
Mar. 2	11.76	June 1	11.50	31	10.48	30	11.59
9	11.90	8	11.44	Sept. 8	10.90	Dec. 7	11.51
16	11.56	15	11.69	14	11.16	14	10.84
23	11.46	22	11.89	21	11.32	21	10.94
30	11.85	29	11.41	28	9.37	28	10.71

74. Chemstrand Corp. Sec. 30, T. 1 N., R. 30 W. Drilled observation well in sand, diameter 4 to 2½ inches, depth 352 feet, screen 260-270, 340-350. Highest water level 76.20 below lsd, Apr. 4, 1952; lowest 79.89 below lsd, Oct. 24-25, 1953. Records available: 1951-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.77	79.23	78.95	79.20	78.74	79.17	79.40	79.26	79.20	79.02	79.68	79.58
2	78.80	79.20	78.90	.....	78.78	79.18	79.40	79.19	79.21	79.02	79.67	79.57
3	78.83	79.18	78.90	.....	78.78	79.24	79.44	79.22	79.23	79.00	79.69	79.45
4	78.89	79.20	78.88	79.22	78.80	79.26	79.47	79.38	79.28	78.95	79.60	79.27
5	78.94	79.26	78.93	79.24	78.79	79.28	79.44	79.46	79.26	78.84	79.40	79.31
6	79.00	79.20	78.95	79.09	78.75	79.22	79.43	79.41	79.20	78.99	79.35	79.02
7	79.02	79.17	78.96	79.02	78.72	79.14	79.43	79.33	79.18	79.01	79.35	78.94
8	78.98	79.27	78.97	79.10	.....	79.10	79.47	79.33	79.16	79.04	79.35	78.75
9	78.84	79.34	79.00	79.10	.....	79.12	79.49	79.25	79.13	79.07	79.38	78.42
10	78.87	79.40	.....	79.03	.....	79.20	79.48	79.24	79.12	79.08	79.48	78.38
11	78.98	79.40	.....	79.00	.....	79.33	79.50	79.29	79.11	.....	79.56	78.30
12	79.08	79.31	79.02	78.77	78.58	79.42	79.50	79.32	79.11	.....	79.57	78.15
13	79.12	79.37	79.05	78.76	78.57	.....	79.47	79.33	79.10	.....	79.54	78.10
14	79.12	79.38	79.07	78.82	78.50	.....	79.44	79.33	79.10	.....	79.52	78.07
15	79.12	79.28	78.98	78.79	78.49	79.40	79.42	79.30	79.19	.....	79.48	78.13
16	79.10	79.30	79.01	78.75	78.48	79.40	79.24	79.28	79.30	.....	79.41	78.19
17	79.09	79.35	79.05	78.75	78.47	79.40	79.17	79.23	79.42	.....	79.40	78.20
18	79.00	79.42	79.05	78.70	78.50	.....	79.18	79.23	79.41	.....	79.40	78.25
19	78.96	79.39	79.01	78.64	78.56	.....	79.18	79.23	79.39	.....	79.33	78.22
20	79.03	79.25	79.01	78.68	78.64	79.48	79.15	79.20	79.20	.....	79.15	78.25
21	79.34	79.14	79.02	78.71	78.75	79.48	79.12	79.23	79.15	.....	79.19	78.18
22	79.38	79.20	79.00	78.72	78.84	79.48	79.15	79.20	79.23	.....	79.12	78.14
23	79.25	79.23	78.99	78.74	78.94	79.48	79.18	79.09	79.30	79.84	79.11	78.19
24	79.45	79.22	79.00	78.77	79.02	79.50	79.25	79.06	79.31	79.89	79.12	78.29
25	79.52	79.13	79.10	78.75	79.04	79.51	79.26	79.14	79.14	79.89	79.16	78.30
26	79.44	79.10	79.15	78.79	79.04	79.50	79.21	79.19	78.70	79.87	79.28	78.16
27	79.39	79.06	79.19	78.86	79.04	79.35	79.20	79.22	78.70	79.82	79.33	77.97
28	79.30	79.03	79.19	78.90	79.08	79.26	79.19	79.39	78.75	79.85	79.49	77.85
29	79.30		79.20	78.85	79.13	79.28	79.14	79.40	78.88	79.85	79.61	77.82
30	79.30		.....	78.72	79.20	79.37	79.20	79.30	78.96	79.78	79.57	77.90
31	79.24		.....		79.20		79.25	79.20		79.70		78.10

Flagler County

14. W. E. Kudna. NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 6.52 below lsd, July 9, 1953. Records available: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	3.65	Apr. 16	4.89	Aug. 19	4.98	Nov. 12	3.73
23	4.69	May 28	6.48	Oct. 1	3.73	Dec. 17	3.94
Mar. 5	4.34	July 9	6.52				

Gadsden County

6. State of Florida. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 2 N., R. 3 W. Drilled public-supply artesian well in Floridan aquifer, diameter 7 to 5 inches, reported depth 422 feet. Land-surface datum is 252 feet above msl. Highest water level 135.7 below lsd, Nov. 21, 1946; lowest 149.06 below lsd, Sept. 27, 1953. Records available: 1946-53. Jan. 29, 145.18; Apr. 22, 147.53; July 14, 148.00; Sept. 27, 149.06; Nov. 17, 146.62.

Gulf County

30. Apalachicola Northern Railroad. Port St. Joe. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 7 S., R. 11 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 563 feet. Highest water level 7.26 below lsd, Dec. 14, 1953; lowest 28.41 below lsd, July 3, 1948. Records available: 1946-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.77	22.45	23.61	17.60	16.71	.....	20.94	15.66	14.68	15.99	9.47	8.28
2	23.05	22.81	23.28	17.57	16.75	.....	21.11	15.57	14.72	15.00	9.72	8.24
3	23.17	23.10	23.32	17.46	16.71	.....	21.20	15.66	14.72	14.23	9.67	8.22
4	23.20	23.23	23.30	17.39	16.74	.....	21.06	15.79	14.74	13.52	9.38	7.70
5	23.43	23.39	23.49	17.22	16.66	.....	20.00	15.79	14.78	13.17	9.28	7.68
6	23.50	23.57	23.57	16.97	16.35	.....	19.14	15.85	14.63	13.98	9.16	7.75
7	23.45	23.55	23.69	16.68	16.14	.....	19.50	16.11	14.58	14.50	9.16	7.60
8	23.51	23.41	23.72	16.68	15.98	.....	19.93	16.06	13.74	14.50	8.93	7.67
9	23.51	23.75	23.67	16.70	15.82	.....	20.14	15.89	13.52	14.40	8.80	7.62
10	23.58	23.97	23.76	16.55	15.66	.....	20.34	15.82	13.91	14.10	8.80	7.62
11	23.43	23.99	23.83	16.45	15.57	.....	20.43	15.87	14.10	13.43	8.82	8.10
12	23.61	23.94	24.06	16.00	15.57	.....	20.16	15.83	14.18	12.77	8.80	7.55
13	23.58	24.00	24.15	16.09	15.79	.....	19.73	15.78	14.26	12.38	8.95	7.45
14	23.52	23.84	23.59	16.29	16.00	.....	19.38	15.74	14.51	12.21	9.13	....
15	23.38	23.36	22.69	16.18	15.82	.....	19.37	15.63	15.08	11.95	8.78	....
16	23.53	23.35	21.93	16.27	15.68	20.69	17.09	15.50	15.34	11.58	8.57	....
17	23.78	23.40	21.37	16.46	15.37	21.05	16.16	15.30	15.81	11.41	8.79	....
18	23.50	23.43	20.91	16.53	15.30	21.18	15.40	15.25	16.19	11.07	9.49	....
19	23.33	23.33	20.64	16.36	15.25	21.38	14.66	15.31	16.65	10.70	9.62	....
20	23.22	23.24	20.37	16.55	15.24	21.19	14.17	15.30	17.06	10.58	9.21	....
21	23.31	23.25	19.90	16.82	15.15	20.95	13.82	15.29	17.47	10.56	8.88	....
22	23.72	23.38	19.45	16.90	15.24	21.09	13.51	15.21	17.09	10.55	8.52	7.92
23	23.74	23.50	19.06	17.00	15.35	21.30	13.20	14.70	17.14	10.45	8.48	7.95
24	23.66	23.61	18.71	17.02	15.48	21.40	13.09	14.43	17.65	10.34	8.48	8.17
25	23.80	23.74	18.60	16.87	15.33	21.30	13.74	14.60	17.73	10.15	8.52	7.95
26	23.91	23.89	18.60	16.58	15.49	21.21	.....	14.90	16.65	9.90	8.48	8.16
27	24.05	23.87	18.51	16.78	15.79	20.90	.....	14.87	16.58	9.85	8.47	7.92
28	23.70	23.85	18.32	16.99	16.26	20.48	15.43	14.79	17.39	9.93	8.40	8.00
29	23.32		18.15	16.80	.....	20.41	15.36	14.60	18.02	9.80	8.27	7.95
30	22.86		17.92	16.69	.....	20.71	15.79	14.49	17.33	9.68	8.37	8.01
31	22.48		17.75	.....	.....	.....	15.69	14.50		9.50		8.12

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, diameter 6 inches, depth 10 feet, cased to 8, gravel 5-10. Highest water level 0.90 above lsd, Oct. 2, 1951; lowest 4.37 below lsd, May 18, 1943. Records available: 1941-44, 1950-53.

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	-1.22	-1.23	-1.55	-2.80	-2.02	-3.91	-1.14	-0.93	+0.14	+0.03	-0.62	-0.80
2	1.23	.08	1.61	2.85	2.16	3.95	1.17	1.00	-.27	+.11	.64	.83
3	1.09	.65	1.66	2.76	2.28	3.48	1.20	1.02	+.21	+.14	.67	.80
4	1.37	.83	1.69	2.72	2.39	3.25	1.28	1.03	-.02	-.05	.63	.76
5	1.38	.89	1.77	2.85	2.47	3.15	1.03	.03	-.16	.17	.65	.24

3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	-1.39	-0.92	-1.85	-2.90	-2.57	-2.75	-1.32	-0.17	+0.17	-0.20	-0.69	-0.77
7	1.42	.93	1.88	2.95	2.58	2.32	1.42	.05	-.05	-.02	.70	.81
8	1.33	.63	1.98	2.99	2.63	2.50	.64	.65	+.12	+.16	.71	.80
9	.47	1.01	2.06	3.03	2.71	2.65	1.18	-.74	-.18	.30	.70	.83
10	1.10	1.02	2.12	2.95	2.80	2.73	1.37	+.03	-.20	.13	.64	.35
11	1.17	1.02	2.15	3.04	2.88	2.82	1.33	-.60	+.18	+.02	.60	.75
12	1.25	1.03	2.16	3.08	2.95	2.85	1.49	.70	-.08	-.03	.55	.78
13	1.28	1.05	2.15	3.11	3.02	2.91	1.27	.75	-.15	+.17	.72	.83
14	1.30	1.06	2.22	2.31	3.10	2.98	1.61	.22	+.12	-.05	.66	.25
15	1.33	.68	2.28	2.43	3.16	3.04	.74	-.68	-.10	-.12	.77	.86
16	1.36	1.08	2.33	1.82	3.22	3.10	1.24	+.10	+.04	-.17	.75	.87
17	1.40	1.14	2.41	2.12	3.28	3.17	1.44	-.45	.23	+.07	.78	.91
18	1.44	1.18	2.49	2.24	3.34	3.22	1.56	.60	.26	+.13	.80	.92
19	1.44	1.19	2.51	2.31	3.40	3.28	1.63	.67	.17	-.05	.29	.90
20	1.45	1.23	2.57	2.40	3.45	3.17	1.11	.60	.10	.18	.71	.89
21	1.16	1.26	2.61	2.51	3.47	2.92	1.63	.74	.15	.25	.77	.86
22	1.44	.97	1.92	2.60	3.52	2.78	1.34	.77	.23	.31	.78	.89
23	1.48	1.17	2.06	2.67	3.57	2.82	1.08	.84	.25	.35	.77	.90
24	1.32	1.26	2.14	2.74	3.62	1.68	.73	.87	+.15	.37	.80	.92
25	1.12	1.33	2.28	2.80	3.65	.75	1.15	.90	-.02	.40	.02	.94
26	1.17	1.45	2.40	2.83	3.70	.54	.90	.94	-.05	.45	.70	1.03
27	1.20	1.47	2.47	2.19	3.75	.21	.25	.57	+.10	.30	.72	1.00
28	1.20	1.37	2.54	2.40	3.78	.94	.97	-.07	+.15	.47	.76	.98
29	1.26		2.64	2.47	3.82	1.05	.33	+.12	-.05	.54	.78	1.00
30	1.04		2.68	1.60	3.85	1.10	.86	+.23	+.17	.57	.77	1.02
31	1.16		2.74		3.88		.56	.00		.54		1.04

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, diameter 6 inches, depth 13 feet, cased to 8, gravel 7-13. Highest water level 0.48 above lsd, Oct. 2, 1951; lowest 4.02 below lsd, Apr. 5, 1945. Records available: 1941-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.30	2.21	2.54	3.05	3.08	3.26	1.69	0.82	0.31	0.39	1.03	2.04
2	2.35	1.80	2.56	3.07	3.10	3.10	1.78	.90	.38	.42	1.07	2.07
3	2.40	1.72	2.59	3.07	3.14	3.07	1.87	.97	.04	.46	1.10	2.09
4	2.40	1.76	2.61	3.10	3.17	2.95	1.95	1.03	.16	.49	1.14	1.94
5	2.42	1.83	2.64	3.12	3.21	2.20	1.42	1.06	.25	.55	1.15	1.85
6	2.43	1.90	2.66	3.12	2.80	1.53	1.41	1.13	.30	.61	1.20	1.91
7	2.45	1.97	2.68	3.13	2.60	1.52	1.56	1.19	.33	.50	1.25	1.97
8	2.45	1.73	2.70	3.14	2.45	1.63	1.45	1.05	.36	.15	1.28	2.03
9	2.18	1.80	2.73	3.16	2.33	1.74	1.52	1.23	.41	.05	1.30	2.07
10	2.18	1.88	2.75	3.17	2.40	1.86	1.63	1.20	.47	.12	1.32	2.12
11	2.20	1.95	2.77	3.18	2.48	1.98	1.56	1.27	.41	.19	1.34	2.13
12	2.25	2.01	2.79	3.20	2.55	2.02	1.68	1.36	.50	.25	1.38	2.15
13	2.29	2.08	2.77	2.70	2.67	2.09	1.77	1.47	.57	.32	1.42	2.17
14	2.33	2.13	2.77	2.69	2.69	2.19	1.87	1.56	.60	.39	1.47	2.02
15	2.35	2.07	2.80	2.71	2.74	2.03	1.95	1.15	.52	.47	1.54	2.16
16	2.35	2.11	2.83	2.62	2.79	2.09	2.02	1.20	.48	.53	1.60	2.21
17	2.37	2.18	2.85	2.65	2.83	2.21	1.98	1.27	.35	.55	1.64	2.23
18	2.38	2.24	2.88	2.69	2.88	2.25	2.10	1.33	.20	.40	1.68	2.25
19	2.40	2.26	2.90	2.74	2.93	2.15	2.03	1.13	.24	.40	1.72	2.26
20	2.40	2.28	2.93	2.80	2.95	2.17	2.13	1.07	.27	.46	1.75	2.27
21	2.37	2.30	2.94	2.84	2.91	2.25	2.20	1.20	.32	.54	1.79	2.28
22	2.37	2.32	2.70	2.89	2.96	2.30	2.24	1.28	.25	.62	1.82	2.29
23	2.39	2.34	2.70	2.93	3.00	1.40	1.06	1.33	.23	.69	1.84	2.10
24	1.98	2.37	2.74	2.97	3.03	1.42	1.03	1.37	.21	.74	1.87	2.06
25	2.01	2.42	2.80	3.00	3.07	1.47	1.09	.93	.37	.78	1.66	2.07
26	2.08	2.45	2.87	2.96	3.10	1.50	1.12	.85	.40	.83	1.81	2.14
27	2.12	2.48	2.93	2.96	3.14	1.29	1.15	.88	.43	.84	1.88	2.21
28	2.15	2.50	2.95	3.01	3.17	1.35	1.20	.15	.47	.85	1.94	2.23
29	2.21		2.99	3.03	3.20	1.46	1.03	.23	.41	.92	1.98	2.26
30	2.25		3.00	3.04	3.23	1.60	.80	.24	.38	.97	2.01	2.29
31	2.22		3.03		3.25		.77	.26		1.00		2.31

Highlands County

9. U. S. Geol. Survey. 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 of Pleistocene age, diameter 6 inches, depth 26 feet, cased to 22, gravel 19-26. Land-surface datum is 131.00 feet above msl. Highest water level 130.54 above msl, Oct. 9, 1953; lowest 125.27 above msl, Aug. 8, 1950. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	127.90	128.26	127.99	128.60	128.48	127.91	128.84	128.68	130.13	129.67	.....	129.08
2	127.89	128.76	127.95	128.56	128.43	127.88	128.75	129.44	129.50	129.45	.....	129.02
3	127.97	128.77	127.94	128.52	128.36	127.85	128.70	129.18	130.40	130.33	.....	128.99
4	127.95	128.69	127.90	128.47	128.30	128.09	128.64	128.98	129.67	129.73	.....	129.47
5	127.90	128.60	127.87	128.44	128.27	129.50	128.81	129.20	129.45	129.49	.....	129.59
6	127.85	128.55	127.83	128.40	128.23	130.41	128.67	128.87	129.84	129.31	.....	129.28
7	127.82	128.51	127.81	128.70	130.20	130.27	128.56	129.25	130.40	129.24	.....	129.17
8	127.82	128.68	127.79	128.63	130.38	129.54	128.49	128.98	130.41	130.41	.....	129.09
9	e128.89	128.55	127.75	128.54	129.50	129.31	128.70	128.90	130.37	130.54	.....	129.00
10	e128.80	128.47	127.74	128.46	129.30	129.18	128.60	128.85	129.70	129.68	.....	128.95
11	e128.73	128.43	127.72	128.38	129.15	129.33	128.50	128.95	129.45	129.43	.....	129.04
12	128.62	128.40	127.71	128.33	129.05	129.67	128.43	128.73	129.28	129.27	128.62	128.92
13	128.57	128.32	127.83	e128.78	128.97	129.28	128.36	128.67	129.18	129.14	128.60	128.90
14	128.52	128.28	127.95	e128.92	128.90	129.06	128.35	128.62	129.72	129.06	128.59	129.38
15	128.48	128.40	127.95	129.05	128.82	128.98	128.30	128.55	129.55	129.00	128.55	128.92
16	128.44	128.32	127.91	129.19	128.75	128.91	128.26	128.50	129.95	128.95	128.52	128.85
17	128.40	128.25	127.85	128.89	128.70	128.85	128.21	129.60	130.30	128.92	128.49	128.79
18	128.55	128.21	127.80	129.13	128.65	128.78	128.20	129.31	130.39	130.33	128.45	128.75
19	128.56	128.18	127.74	128.87	128.57	128.72	128.17	129.15	129.76	129.63	128.43	128.72
20	128.52	128.15	127.70	128.76	128.51	128.74	128.12	128.96	130.02	129.41	128.39	128.71
21	128.50	128.12	128.46	128.71	128.47	128.65	128.08	128.89	.....	129.27	128.36	128.70
22	128.43	128.10	128.70	128.67	128.42	128.60	128.04	128.80	.....	129.15	128.35	128.67
23	128.38	128.19	e128.73	128.63	128.35	128.58	128.13	129.62	.....	.....	128.38	129.19
24	e128.81	128.17	e128.76	128.56	128.30	128.53	128.45	129.35	.....	.....	130.43	129.14
25	128.62	128.11	e128.79	128.52	128.24	129.11	128.43	129.98	.....	.....	129.78	129.18
26	128.55	128.08	e128.82	129.05	128.17	129.76	128.39	130.36	.....	.....	129.56	129.05
27	128.48	128.05	128.85	128.85	128.12	129.53	128.33	130.43	.....	.....	129.43	128.95
28	128.43	128.02	128.77	128.72	128.08	129.17	128.60	130.47	.....	.....	129.32	128.88
29	128.37		128.74	128.65	128.03	128.98	128.76	130.50	.....	.....	129.21	128.83
30	128.32		128.68	128.53	127.98	128.91	128.85	129.70	130.27	.....	129.15	128.77
31	128.29		128.63		127.94		128.77	129.55		.....		128.73

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 of Pleistocene age, diameter 6 inches, depth 45 feet, cased to 41, gravel 37-45. Land-surface datum is 118 feet above msl. Highest water level 92.72 above msl, Oct. 14-15, 1948; lowest 84.65 above msl, Apr. 6-8, 1951. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e87.14	e86.66	86.26	85.84	86.05	85.55	87.34	88.05	89.23	90.13	91.85	90.63
2	e87.12	e86.65	86.25	85.83	86.05	85.53	87.60	88.13	e89.26	90.14	91.80	90.61
3	e87.10	e86.63	86.24	85.82	86.04	85.52	87.80	88.21	e89.29	90.16	91.75	90.59
4	87.09	e86.62	86.22	85.81	86.02	85.50	87.95	88.28	e89.31	90.18	91.70	90.57
5	87.07	e86.60	86.20	85.80	86.00	85.50	88.07	88.35	e89.34	90.20	91.67	90.54
6	87.05	e86.59	86.19	85.78	85.99	85.47	88.15	88.38	e89.37	90.22	91.62	90.52
7	87.04	e86.58	86.17	85.77	85.97	85.50	88.20	88.42	e89.40	90.24	91.56	90.50
8	87.03	e86.56	86.15	85.76	85.95	85.58	88.23	88.47	e89.43	90.27	91.52	90.47
9	87.02	e86.55	86.14	85.75	85.94	85.67	88.25	88.50	e89.46	90.32	91.47	90.45
10	87.00	e86.54	86.13	85.73	85.92	85.75	88.26	88.52	e89.49	90.34	91.43	90.43
11	86.98	e86.52	86.11	85.72	85.90	85.83	88.27	88.53	e89.52	91.92	91.38	90.41
12	86.96	e86.51	86.10	85.71	85.86	85.91	88.27	88.55	e89.55	92.38	91.56	90.39
13	86.94	e86.50	86.09	85.70	85.84	86.00	88.27	88.58	e89.58	92.56	91.30	90.38
14	86.93	e86.48	86.07	85.68	85.82	86.08	88.25	88.60	e89.61	92.65	91.25	90.34
15	86.91	e86.46	86.06	85.75	85.80	86.16	88.22	88.62	e89.64	92.68	91.22	90.28
16	86.90	e86.44	86.05	85.80	85.78	86.25	88.20	88.65	e89.67	92.69	91.17	90.27
17	86.89	e86.42	86.03	85.83	85.77	86.30	88.18	88.68	e89.70	92.63	91.13	90.24
18	86.87	86.40	86.02	85.87	85.75	86.36	88.16	88.70	e89.73	92.56	91.09	90.22
19	86.86	86.39	86.01	85.90	85.73	86.40	88.13	88.75	e89.76	92.49	91.05	90.20
20	86.85	86.37	85.99	85.93	85.71	86.45	88.10	88.80	e89.79	92.42	91.00	90.19

10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	86.83	86.36	85.97	85.96	85.70	86.48	88.07	88.83	e89.82	92.36	90.95	90.16
22	86.82	86.35	85.97	85.98	85.69	86.51	88.05	88.87	e89.85	92.32	90.91	90.14
23	86.81	86.33	85.95	86.00	85.68	86.53	88.02	88.90	e89.88	92.31	90.88	90.11
24	86.80	86.32	85.94	86.01	85.67	86.55	88.00	88.97	e89.91	92.26	90.85	90.08
25	86.76	86.31	85.92	86.02	85.65	86.57	87.98	88.99	e89.94	92.20	90.80	90.06
26	86.75	86.30	85.91	86.03	85.64	86.61	87.95	89.02	e89.97	92.15	90.76	90.03
27	86.73	86.29	85.90	86.04	85.63	86.64	87.93	89.06	e90.00	92.10	90.73	90.01
28	86.72	86.27	85.89	86.05	85.61	86.72	87.91	89.10	e90.03	92.05	90.70	89.98
29	86.70		85.87	86.05	85.60	86.84	87.90	89.13	e90.06	92.00	90.68	89.96
30	86.69		85.85	86.05	85.59	87.05	87.88	89.15	e90.09	91.95	90.66	89.94
31	e86.67		85.85		85.57		87.91	89.19		91.90		89.90

e Estimated.

11. U. S. Geol. Survey. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 35 S., R. 31 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 16 feet, cased to 13, gravel 10-16. Land-surface datum is 50.30 feet above msl. Highest water level 50.30 above msl, Oct. 9, 1953; lowest 45.10 above msl, Apr. 25, 1950. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.55	.....	47.78	48.24	47.95	46.71	48.29	49.28	50.04	49.78	48.39	48.68
2	47.52	.....	47.72	48.13	47.87	46.65	48.27	49.88	49.74	49.50	48.35	48.62
3	47.62	.....	47.68	48.10	47.80	46.62	48.10	49.47	50.15	49.65	48.38	48.60
4	47.58	.....	47.64	48.03	47.71	46.67	48.02	49.21	49.81	49.72	48.35	48.57
5	47.51	.....	47.60	47.98	47.63	47.45	48.00	50.02	49.48	48.92	48.63	49.25
6	47.45	.....	47.55	47.92	47.59	49.34	47.90	49.53	49.28	49.05	48.53	48.89
7	47.41	.....	47.52	47.90	47.85	49.42	47.83	49.70	49.53	48.93	48.42	48.81
8	47.76	.....	47.48	47.88	48.04	48.92	47.75	49.35	49.21	49.93	48.34	48.75
9	48.56	.....	47.43	47.81	48.13	48.70	47.69	49.24	49.85	50.30	48.32	48.67
10	48.57	.....	47.38	47.77	47.95	48.55	49.69	49.62	49.54	49.83	48.29	48.60
11	48.42	.....	47.36	47.72	47.82	48.43	49.52	49.25	49.22	49.48	48.42	48.67
12	48.32	.....	47.40	47.82	47.70	48.35	49.15	49.00	49.02	49.20	48.32	48.56
13	48.26	.....	47.40	49.28	47.60	48.40	48.91	48.85	48.90	49.00	48.26	48.52
14	48.22	.....	48.89	48.90	47.51	48.27	48.75	49.25	48.85	48.86	48.39	49.15
15	48.18	.....	48.78	48.77	47.44	48.20	48.63	48.93	49.13	48.75	48.26	48.64
16	48.14	.....	48.66	48.62	47.38	48.13	48.52	48.80	49.52	48.65	48.23	48.54
17	48.11	.....	48.54	48.48	47.32	48.10	48.50	48.65	49.81	48.60	48.20	48.45
18	48.08	48.19	48.45	48.41	47.26	48.03	48.45	49.80	50.05	49.95	48.17	48.40
19	.....	48.13	48.36	48.36	47.21	47.95	48.36	49.97	49.73	49.57	48.15	48.40
20	.....	48.10	48.29	48.25	47.16	48.37	49.08	49.65	49.41	49.30	48.13	48.40
21	.....	48.07	48.24	48.19	47.13	48.26	48.58	49.80	50.07	49.08	48.10	48.40
22	.....	48.03	49.54	48.14	47.09	48.17	49.19	49.43	49.90	48.92	48.13	48.40
23	.....	48.07	49.29	48.08	47.05	48.71	49.62	49.30	49.58	48.78	48.31	49.00
24	.....	48.05	49.08	48.02	47.01	48.74	49.45	49.07	49.32	48.69	48.43	48.88
25	.....	48.00	48.84	47.99	46.98	48.73	49.22	49.58	49.21	48.62	49.65	48.78
26	.....	47.93	48.65	48.54	46.95	48.62	49.85	50.15	49.67	48.56	49.22	48.55
27	.....	47.87	48.52	48.38	46.89	48.98	49.41	49.99	50.04	48.86	49.03	48.47
28	.....	47.82	48.47	48.23	46.85	48.70	49.27	50.25	49.69	48.80	48.92	48.45
29	.....	.....	48.39	48.15	46.80	48.55	49.12	50.08	49.42	48.55	48.82	48.42
30	.....	.....	48.30	48.05	46.77	48.39	49.77	49.86	50.03	48.47	48.75	48.38
31	.....	.....	48.25		46.74		49.55	49.75		48.42		48.35

12. U. S. Geol. Survey. Fort Bassinger. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 36 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18, gravel 15-21. Land-surface datum is 45.60 feet above msl. Highest water level 45.88 above msl, Oct. 9, 1953; lowest 38.97 above msl, June 5, 1950. Records available: 1940-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.53	42.25	42.38	42.57	42.27	41.38	43.07	43.81	44.50	44.82	44.34	43.78
2	42.50	42.83	42.30	42.53	42.21	41.35	42.93	43.53	44.25	44.59	44.15	43.69
3	42.45	42.87	42.26	42.48	42.15	41.32	42.81	43.30	44.25	45.38	43.98	43.65
4	42.37	42.75	42.20	42.42	42.10	41.30	42.73	43.48	44.90	45.01	43.87	44.16
5	42.34	42.65	42.15	42.38	42.06	41.67	42.96	43.27	44.64	44.82	44.44	44.22
6	42.31	42.58	42.12	42.35	42.14	42.10	42.80	43.86	45.30	44.62	44.00	43.81
7	42.30	42.52	42.10	42.32	42.06	42.31	42.65	43.92	44.95	45.20	43.74	43.63
8	42.30	42.78	42.08	42.28	42.28	42.26	42.58	43.48	44.15	45.39	43.70	43.61
9	43.34	42.62	42.05	42.24	42.30	42.18	42.72	43.22	45.52	45.88	43.68	43.55
10	43.15	42.53	42.03	42.20	42.20	42.10	42.85	43.12	45.01	45.00	43.60	43.49

12--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	43.03	42.47	42.15	42.17	42.10	42.03	42.87	44.06	44.87	44.81	44.68	43.60
12	42.92	42.41	42.10	42.14	42.03	42.11	42.64	43.36	44.62	44.60	44.20	43.45
13	42.85	42.35	42.06	43.97	41.98	42.01	42.50	43.12	44.38	44.35	44.23	43.42
14	42.80	42.30	42.89	43.53	41.92	42.20	42.43	44.66	44.18	44.13	44.00	44.18
15	42.74	42.47	42.76	43.33	41.89	42.13	42.37	44.45	44.55	43.89	43.73	43.28
16	42.68	42.31	42.67	43.16	41.85	42.32	42.32	44.30	45.08	43.75	43.63	43.25
17	42.64	42.25	42.57	43.01	41.82	42.28	42.30	44.07	45.25	44.85	43.53	43.18
18	42.59	42.22	42.48	42.94	41.78	42.22	42.25	43.80	45.42	45.37	43.50	43.16
19	42.55	42.20	42.40	42.83	41.83	42.15	42.19	43.65	45.05	45.00	43.48	43.17
20	42.52	42.18	42.32	42.71	41.75	42.94	42.15	44.83	45.40	44.86	43.45	43.20
21	42.47	42.15	42.28	42.63	41.73	42.84	42.11	44.40	45.00	44.68	43.41	43.24
22	42.42	42.96	43.24	42.56	41.70	42.73	42.06	44.22	45.10	44.43	43.40	43.18
23	42.40	42.89	43.91	42.50	41.68	43.23	43.32	44.87	44.85	44.18	44.26	44.07
24	42.72	42.81	43.66	42.45	41.65	43.74	43.22	44.40	44.68	43.93	44.15	43.80
25	42.55	42.72	43.36	42.40	41.62	43.80	43.10	44.18	45.29	43.78	45.25	43.70
26	42.45	42.63	43.16	42.46	41.55	44.12	43.16	43.93	44.90	43.66	44.76	43.45
27	42.40	42.55	43.02	42.39	41.51	44.27	44.35	44.80	45.35	45.65	44.54	43.31
28	42.35	42.45	42.91	42.32	41.49	43.74	44.03	45.40	44.94	45.08	44.35	43.29
29	42.30		42.78	42.29	41.46	43.50	44.39	45.13	44.78	44.85	44.15	43.26
30	42.27		42.70	42.42	41.44	43.27	44.05	44.90	45.20	44.68	43.92	43.19
31	42.26		42.63		41.41		44.26	44.75		44.52		43.14

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 of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 16, gravel 11-20. 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: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.58	25.83	25.56	26.58	26.27	25.32	25.92	26.87	28.72	28.60	27.26	26.58
2	25.56	26.38	25.50	26.50	26.18	25.26	25.83	27.13	28.51	28.37	27.19	26.51
3	25.55	26.50	25.47	26.45	26.09	25.23	25.77	26.78	29.00	29.04	27.30	26.47
4	25.50	26.43	25.45	26.36	26.01	25.22	25.73	26.64	28.87	29.07	27.12	27.17
5	25.48	26.32	25.41	26.28	25.95	25.96	26.27	26.75	28.76	28.82	27.10	27.05
6	25.45	26.24	25.36	26.22	26.13	26.75	26.33	26.61	28.53	28.62	27.02	26.91
7	25.44	26.18	25.32	27.08	27.58	26.97	26.22	26.63	28.79	28.97	26.97	26.83
8	25.43	26.40	25.27	26.92	27.77	26.73	26.10	26.52	28.92	29.03	26.93	26.75
9	26.33	26.29	25.24	26.75	27.32	26.56	26.00	26.40	26.93	29.28	26.92	26.65
10	26.35	26.21	25.20	26.62	27.03	26.40	25.87	26.88	29.08	28.97	27.18	26.62
11	26.30	26.15	25.35	27.38	26.85	26.30	25.81	26.78	28.85	28.78	27.07	26.74
12	26.23	26.08	25.42	27.20	26.70	26.20	25.71	26.58	28.61	28.57	26.93	26.60
13	26.17	26.07	27.00	28.02	26.58	26.15	25.62	26.42	28.85	28.40	26.88	26.54
14	26.10	26.02	27.05	27.47	26.42	26.07	25.56	26.34	28.42	28.28	26.85	26.88
15	26.05	26.09	26.87	27.26	26.37	26.58	25.48	26.23	28.87	28.17	26.78	26.56
16	25.98	26.08	26.77	27.06	26.28	26.48	25.45	26.13	28.57	28.09	26.76	26.47
17	25.94	26.00	26.60	26.91	26.20	26.34	25.40	26.03	28.97	28.89	26.70	26.40
18	25.88	25.94	26.50	27.17	26.12	26.24	25.34	25.96	29.02	29.08	26.66	26.36
19	25.86	25.87	26.39	26.91	26.05	26.14	25.28	25.90	28.85	28.90	26.63	26.32
20	25.83	25.84	26.30	26.75	26.00	26.06	25.23	26.60	29.07	28.73	26.61	26.30
21	25.82	25.79	26.67	26.63	25.95	25.97	25.17	26.70	28.94	28.50	26.58	26.53
22	25.77	25.74	27.05	26.58	25.87	25.92	25.12	27.75	28.89	28.31	26.55	26.45
23	25.72	25.85	27.99	26.48	25.83	25.89	25.55	28.08	28.71	28.15	26.54	26.66
24	26.12	25.85	27.78	26.39	25.76	25.98	25.82	28.31	28.50	28.03	26.92	26.65
25	26.08	25.80	27.50	26.30	25.70	26.01	25.82	28.03	28.72	27.92	27.44	26.60
26	26.00	25.72	27.25	26.90	25.65	26.27	26.25	27.80	28.44	27.79	27.04	26.47
27	25.95	25.67	27.10	26.74	25.57	26.44	26.43	28.54	28.85	27.73	26.91	26.37
28	25.87	25.60	26.97	26.57	25.50	26.37	26.61	29.38	28.60	27.95	26.82	26.32
29	25.83		26.84	26.45	25.47	26.21	27.11	29.19	28.40	27.55	26.74	26.30
30	25.78		26.73	26.40	25.44	26.05	27.02	29.22	28.82	27.42	26.65	26.27
31	25.83		26.62		25.38		26.92	28.92		27.34		26.25

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 of Pleistocene age, diameter 6 inches, depth 35 feet, cased to 29, gravel 25-35. Land-surface datum is 136 feet above msl. Highest water level 127.56 above msl, Oct. 10, 1953; lowest 114.50 above msl, July 1, 1951. Records available: 1948-53.

14--Continued.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	118.30	117.90	117.63	117.28	116.92	116.56	120.32	121.36	124.75	126.50	126.39	125.21
2	118.29	117.89	117.61	117.27	116.90	116.55	120.35	121.45	124.70	126.52	126.34	125.18
3	118.28	117.88	117.60	117.25	116.90	116.54	120.35	121.54	124.91	126.30	126.30	125.14
4	118.26	117.87	117.59	117.24	116.88	116.53	120.35	121.62	125.21	126.56	126.27	125.09
5	118.24	117.85	117.58	117.23	116.87	116.65	120.34	121.68	125.30	126.52	126.23	125.07
6	118.22	117.85	117.56	117.22	116.86	117.36	120.33	121.72	125.32	126.48	126.17	125.03
7	118.21	117.84	117.55	117.20	116.85	117.83	120.29	121.75	125.57	126.43	126.12	124.98
8	118.21	117.82	117.54	117.19	116.87	118.21	120.26	121.78	125.88	126.77	126.08	124.95
9	118.22	117.80	117.53	117.18	116.85	118.40	120.25	121.78	125.94	127.36	126.04	124.92
10	118.20	117.80	117.52	117.17	116.84	118.50	120.25	121.78	125.90	127.56	125.99	124.88
11	118.18	117.80	117.50	117.16	116.82	118.55	120.54	121.76	125.84	127.49	125.95	124.85
12	118.15	117.80	117.49	117.15	116.81	118.58	120.69	121.73	125.75	127.35	125.91	124.81
13	118.14	117.78	117.48	117.14	116.80	118.58	120.79	121.70	125.68	127.23	125.87	124.78
14	118.13	117.78	117.47	117.12	116.79	118.58	120.86	121.68	125.61	127.15	125.83	124.72
15	118.12	117.76	117.46	117.12	116.77	118.55	120.90	121.70	125.60	127.07	125.79	124.67
16	118.10	117.75	117.45	117.10	116.76	118.52	120.94	121.68	125.57	127.00	125.74	124.64
17	118.09	117.74	117.44	117.09	116.75	118.50	120.95	121.66	125.55	126.93	125.70	124.60
18	118.08	117.72	117.42	117.08	116.73	118.48	120.96	121.72	125.65	126.90	125.65	124.56
19	118.07	117.72	117.41	117.07	116.72	118.46	120.95	121.76	125.93	126.95	125.60	124.52
20	118.06	117.71	117.40	117.05	116.71	118.47	120.93	121.78	125.96	126.87	125.56	124.50
21	118.05	117.70	117.39	117.04	116.70	118.46	120.90	121.79	126.79	126.83	125.51	124.47
22	118.03	117.70	117.39	117.02	116.69	118.45	120.87	121.81	126.69	126.78	125.48	124.43
23	118.02	117.68	117.38	117.01	116.67	118.48	120.84	121.82	126.61	126.72	125.45	124.39
24	118.00	117.68	117.37	117.00	116.66	118.61	120.83	121.83	126.57	126.68	125.45	124.35
25	117.97	117.67	117.35	116.99	116.65	118.87	120.82	121.84	126.53	126.62	125.42	124.32
26	117.96	117.66	117.34	116.98	116.64	119.20	120.80	121.90	126.51	126.56	125.40	124.28
27	117.95	117.65	117.33	116.97	116.63	119.58	120.79	122.82	126.49	126.59	125.36	124.25
28	117.94	117.64	117.32	116.95	116.61	119.93	120.84	124.66	126.60	126.56	125.32	124.21
29	117.93		117.31	116.95	116.60	120.13	120.95	124.78	126.57	126.52	125.29	124.17
30	117.92		117.30	116.94	116.59	120.25	121.14	124.79	126.52	126.47	125.25	124.14
31	117.91		117.29		116.58		121.27	124.77		126.43		124.10

15. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 39 S., R. 30 E. Drilled observation well in sand of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 19, gravel 18-23. 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: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.02	56.24	55.97	55.37	55.53	54.75	56.61	57.99	57.80	57.19	56.45	56.40
2	56.13	57.13	55.94	55.35	55.44	54.75	56.53	57.50	57.27	57.55	56.42	56.35
3	56.19	56.82	55.90	55.34	55.36	54.75	56.41	56.98	58.20	57.19	56.40	56.34
4	56.09	56.59	55.87	55.30	55.24	55.60	56.35	57.92	58.01	56.94	56.38	56.32
5	56.04	56.44	55.84	55.27	55.20	58.12	57.80	57.65	57.60	56.78	56.40	56.85
6	55.98	56.39	55.80	55.24	55.17	58.20	57.19	57.28	57.30	56.66	56.37	56.46
7	55.95	56.35	55.79	55.21	55.61	58.00	56.76	58.03	58.19	58.00	56.35	56.40
8	55.97	57.39	55.75	55.19	56.06	57.50	56.68	57.67	58.08	58.15	56.32	56.35
9	57.63	56.70	55.69	55.16	56.07	57.00	56.51	57.05	57.77	58.25	56.32	56.31
10	57.22	56.54	55.65	55.15	55.92	56.80	56.47	57.55	58.04	57.99	56.34	56.31
11	56.90	56.49	55.65	55.12	55.78	56.70	56.38	56.85	57.85	57.48	56.55	56.31
12	56.71	56.43	56.07	55.07	55.70	56.89	56.32	56.64	57.30	57.05	56.35	56.25
13	56.62	56.35	56.10	55.95	55.59	56.58	56.27	56.61	56.98	56.75	56.33	56.65
14	56.57	56.32	56.10	55.92	55.52	56.48	56.20	57.95	56.85	57.05	56.40	56.72
15	56.52	56.92	56.03	55.88	55.45	56.38	56.16	57.50	58.05	56.70	56.32	56.31
16	56.45	56.43	55.98	55.85	55.38	56.35	56.10	57.10	57.72	56.59	56.31	56.24
17	56.43	56.35	55.92	55.77	55.32	56.33	56.08	56.79	58.11	57.75	56.26	56.18
18	56.40	56.31	55.84	55.69	55.26	56.40	56.01	58.02	58.25	58.07	56.25	56.17
19	56.37	56.26	55.76	55.64	55.20	56.47	55.97	57.68	58.07	57.89	56.23	56.15
20	56.37	56.23	55.74	55.56	55.15	57.64	55.95	57.07	57.68	57.36	56.20	56.15
21	56.34	56.17	55.69	55.50	55.14	57.10	55.90	57.82	57.54	56.97	56.17	56.70
22	56.32	56.17	55.89	55.44	55.12	57.57	56.05	58.19	57.98	56.79	56.15	56.48
23	56.32	56.17	55.88	55.39	55.08	57.01	56.97	58.11	58.02	56.66	56.15	56.70
24	57.23	56.15	55.83	55.34	55.03	56.79	57.30	58.03	57.59	56.57	57.00	56.59
25	56.54	56.10	55.69	55.29	55.00	58.06	58.03	57.86	57.20	56.52	57.62	56.50
26	56.44	56.07	55.61	55.39	54.95	58.33	58.12	58.28	57.07	56.48	56.90	56.36
27	56.39	56.03	55.56	55.40	54.91	58.06	58.12	58.05	58.10	57.50	56.69	56.32
28	56.37	55.99	55.53	55.35	54.85	57.56	58.12	58.08	57.98	57.05	56.56	56.30
29	56.32		55.50	55.48	54.84	57.03	57.95	58.13	57.58	56.73	56.49	56.28
30	56.31		55.44	55.57	54.83	56.76	57.61	58.05	57.69	56.57	56.43	56.25
31	56.26		55.41		54.80		57.16	57.98		56.50		56.25

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, 1944-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.17	7.98	7.77	7.91	7.77	9.41	9.00	7.24	6.57	....	....	....
2	8.10	7.95	7.84	7.93	7.85	9.44	9.03	7.22	6.53	....	....	....
3	8.05	7.82	7.85	7.97	7.95	9.53	9.12	7.24	6.43	....	....	....
4	8.15	7.80	7.93	8.08	8.04	9.56	9.20	7.23	6.41	....	....	....
5	8.15	7.83	8.05	8.13	8.09	9.43	9.22	7.17	6.40	....	....	....
6	8.18	7.78	8.13	8.08	8.10	9.23	9.24	7.07	6.37	....	....	....
7	8.18	7.68	8.15	8.04	8.10	9.08	9.29	7.07	6.35	....	....	....
8	8.10	7.58	8.16	8.07	8.08	8.95	9.38	7.00	6.37	....	....	....
9	7.83	7.62	8.22	8.07	8.13	8.83	9.45	6.85	6.37	....	....	....
10	7.73	7.57	8.24	8.04	8.19	8.75	9.50	6.78	6.34	....	....	....
11	7.73	7.47	8.25	8.07	8.26	8.68	9.49	6.70	6.38	....	....	....
12	7.78	7.37	8.29	8.03	8.33	8.65	9.43	6.63	6.45	....	....	....
13	7.77	7.44	8.32	7.79	8.41	8.67	9.44	6.58	6.52	....	....	....
14	7.73	7.45	8.35	7.75	8.47	8.70	9.50	6.62	6.57	....	....	....
15	7.72	7.39	8.40	7.59	8.55	8.76	9.59	6.68	6.57	....	....	....
16	7.72	7.44	8.45	7.42	8.63	8.83	9.62	6.64	6.40	....	....	....
17	7.73	7.43	8.47	7.45	8.70	8.86	9.51	6.55	6.27	....	....	....
18	7.72	7.50	8.47	7.40	8.73	8.79	9.44	6.53	6.22	....	....	6.72
19	7.70	7.47	8.52	7.38	8.78	8.73	9.34	6.52	6.15	....	....	6.70
20	7.71	7.45	8.57	7.47	8.85	8.74	9.24	6.49	6.10	....	....	6.63
21	7.75	7.52	8.50	7.53	8.93	8.75	9.15	6.53	6.12	....	....	6.56
22	7.85	7.58	8.21	7.57	9.00	8.78	8.98	6.57	6.14	....	....	6.59
23	7.84	7.63	8.08	7.60	9.04	8.80	8.83	6.53	6.15	....	....	6.49
24	7.78	7.61	7.98	7.63	9.10	8.82	8.58	6.55	6.14	....	....	6.42
25	7.93	7.60	7.93	7.68	9.13	8.84	8.38	6.57	6.07	....	....	6.32
26	7.97	7.63	7.92	7.70	9.11	8.87	8.11	6.57	5.94	....	....	6.31
27	7.93	7.67	7.87	7.67	9.12	8.88	7.78	6.57	5.79	....	....	6.28
28	7.87	7.73	7.80	7.67	9.23	8.90	7.60	6.55	5.81	....	....	6.25
29	7.91	7.85	7.64	9.31	8.93	7.50	6.53	....	....	....	....	6.28
30	7.95	7.88	7.68	9.34	8.97	7.46	6.57	....	....	....	....	6.32
31	7.94	7.88	9.37	....	....	7.38	6.60	....	....	....	....	6.38

30. C. L. Council. 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 1.63 above lsd, May 16, 1952. Records available: 1950-53.

Daily mean water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.19	....	3.35	5.00	2.58	7.11	7.28	8.35	9.26	7.85	8.40
2	5.75	....	3.27	....	2.69	7.10	7.27	8.41	9.20	7.58	8.32
3	7.00	....	4.66	....	2.71	6.97	7.33	8.54	9.03	6.50	8.21
4	7.50	....	4.97	....	2.94	6.80	7.33	8.62	9.10	6.03	8.38
5	7.64	....	4.88	....	3.30	6.81	7.33	8.67	9.09	6.48	8.51
6	7.80	....	....	....	3.97	6.89	7.35	8.70	8.81	7.50	8.76
7	8.00	....	....	....	4.40	6.81	7.35	8.69	8.45	7.48	8.75
8	8.00	....	5.20	3.84	4.56	6.77	7.48	8.64	8.18	7.29	8.72
9	7.83	....	5.05	3.02	4.82	6.57	7.58	8.64	8.90	7.01	8.85
10	7.78	....	5.45	2.67	5.29	6.45	7.61	8.73	9.07	7.39	8.85
11	7.40	....	5.57	2.58	5.40	6.55	7.58	8.74	9.10	7.15	8.78
12	7.50	....	5.70	2.47	5.50	6.55	7.51	8.70	8.75	7.12	8.81
13	7.84	....	6.25	2.10	5.56	6.65	7.79	8.80	8.20	6.95	8.89
14	7.82	....	6.38	2.03	5.60	6.75	7.97	8.78	7.65	6.70	8.97
15	7.92	....	6.56	1.93	5.60	6.73	7.91	8.70	7.32	6.68	8.58
16	7.97	....	6.79	1.84	5.59	6.89	7.94	8.90	7.17	6.38	8.29
17	8.03	....	6.65	1.89	5.63	7.00	7.98	9.05	7.10	5.80	8.00
18	7.85	....	6.45	1.97	5.70	7.05	8.03	9.12	7.97	5.42	7.54
19	7.68	....	6.70	1.95	5.67	7.10	8.05	9.10	8.38	5.25	7.43
20	7.80	....	5.92	1.85	5.50	7.13	8.07	9.16	7.78	4.98	7.90

30--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	7.44	7.87	....	4.60	1.82	5.54	7.15	8.10	9.07	7.05	5.61	8.32
22	7.20	7.80	....	....	1.78	5.70	7.15	8.17	8.95	6.88	5.90	8.55
23	6.95	7.40	4.47	....	1.88	5.84	7.16	8.25	8.90	6.88	5.80	8.66
24	7.35	6.68	5.10	....	1.96	6.04	7.19	8.26	8.84	6.84	6.15	8.64
25	7.14	5.76	5.88	....	2.20	6.46	7.21	8.31	9.00	6.95	7.27	8.72
26	6.94	....	6.00	....	2.40	6.68	7.20	8.36	9.34	6.90	7.96	8.60
27	6.93	....	5.47	5.08	2.40	6.84	7.29	8.39	9.60	7.19	8.08	8.35
28	6.80	....	5.27	5.29	2.30	6.95	7.35	8.38	9.51	7.58	8.18	8.38
29	6.73	....	5.94	5.45	2.24	7.01	7.37	8.37	9.46	7.84	8.28	8.41
30	6.00	....	5.25	5.59	2.26	7.09	7.29	8.34	9.34	7.80	8.41	....
31	5.29	....	4.02	....	2.45	....	7.26	8.30	....	7.68	....	8.75

500. Paul Carter. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 32 S., R. 20 E. 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 48.44 below lsd, Oct. 9, 1953; lowest 54.01 below lsd, June 5, 1953. Records available: 1951-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	51.02	49.85	49.87	....	51.96	53.83	51.93	50.86	49.95	48.93	....	49.42
2	50.97	49.82	50.00	....	51.95	53.85	51.88	50.82	49.94	48.89	....	49.36
3	50.87	49.83	50.14	....	51.97	53.93	51.82	50.79	49.88	48.83	....	49.36
4	50.97	49.92	50.21	....	52.00	53.96	51.79	50.73	49.83	48.72	....	49.29
5	50.97	50.04	50.40	....	52.03	53.95	51.73	50.65	49.78	48.64	49.15	49.14
6	51.00	50.02	50.59	....	52.05	53.91	51.65	50.62	49.73	48.65	49.27	49.04
7	50.98	49.96	50.70	....	52.08	53.85	51.63	50.64	49.74	48.71	49.41	49.06
8	50.82	49.98	50.78	51.92	52.15	53.78	51.60	50.56	49.77	48.69	49.43	49.04
9	50.50	50.13	50.92	52.03	52.25	53.73	51.56	50.48	49.75	48.52	49.44	48.92
10	50.43	50.12	51.04	51.98	52.34	53.68	51.49	50.45	49.70	48.58	49.46	48.85
11	50.49	50.00	51.12	51.98	52.45	53.55	51.37	50.43	49.66	48.64	49.45	48.83
12	50.58	49.84	51.25	51.92	52.55	53.43	51.31	50.43	49.69	48.70	49.46	48.76
13	50.60	49.83	51.35	51.88	52.65	53.40	51.31	50.39	49.65	48.76	49.47	48.66
14	50.55	49.77	....	52.02	52.73	53.17	51.33	50.38	49.61	48.75	49.47	48.67
15	50.48	49.72	....	51.95	52.81	53.05	51.38	50.35	49.53	48.72	49.40	48.85
16	50.42	49.82	....	51.85	52.94	52.98	51.39	50.32	49.42	48.71	49.42	48.84
17	50.35	49.85	....	51.88	53.05	52.88	51.33	50.29	49.35	48.76	49.43	48.85
18	50.25	49.90	....	51.83	53.14	52.73	51.26	50.27	49.35	48.80	49.47	48.85
19	50.13	49.84	....	51.74	53.25	52.61	51.27	50.22	49.27	48.82	49.48	48.80
20	50.02	49.75	....	51.75	53.38	52.55	51.25	50.18	49.17	48.83	49.47	48.70
21	49.95	49.78	....	51.75	53.54	52.49	51.23	50.23	49.20	48.83	49.54	48.62
22	49.98	49.83	....	51.73	53.64	52.45	51.19	50.15	49.28	48.82	49.51	48.64
23	49.88	49.85	....	51.73	53.70	52.40	51.12	50.08	49.30	48.80	49.57	48.67
24	49.81	49.79	....	51.72	53.73	52.33	51.07	50.06	49.25	48.79	49.40	48.77
25	50.00	49.73	....	51.74	53.78	52.27	51.00	50.05	49.15	48.83	49.39	48.72
26	50.06	49.72	....	51.80	53.76	52.22	51.01	50.05	49.02	....	49.53	48.75
27	50.02	49.74	....	51.90	53.73	52.14	51.01	50.02	48.93	....	49.57	48.74
28	49.92	49.80	....	51.97	53.78	52.07	50.95	49.93	48.93	....	49.58	48.65
29	49.89	....	....	51.95	53.84	52.05	50.92	49.88	48.93	....	49.56	48.64
30	49.90	....	....	51.94	53.82	52.01	50.95	49.86	48.95	....	49.49	48.65
31	49.85	....	....	....	53.79	....	50.92	49.86	....	....	....	48.68

Holmes County

4. Mrs. D. Hughes. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 3 N., R. 17 W. 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 1.72 above lsd, Nov. 23, 1952. Records available: 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+3.35	May 4	+3.73	Aug. 1	+2.83	Oct. 24	+2.68
Mar. 29	+3.26	June 19	+3.68	Sept. 12	+2.33	Dec. 10	+5.01

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: 1947-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.73	12.37	11.99	12.00	11.53	12.13	12.10	11.88	.....	12.13	12.45	12.35
2	12.60	12.33	12.01	12.01	11.55	12.16	.....	11.91	12.30	12.10	12.49	12.33
3	12.60	12.30	12.03	12.02	11.62	.....	12.10	11.95	12.30	12.08	12.50	12.25
4	12.66	12.32	12.02	12.04	.....	.....	12.15	11.97	.....	12.02	12.44	.....
5	12.67	12.37	12.14	12.06	11.63	.....	12.17	11.95	.....	11.95	12.36	12.24
6	12.72	12.30	12.16	11.86	11.58	.....	.....	11.97	.....	11.97	12.42	12.07
7	12.72	12.22	12.14	11.76	11.53	.....	.....	12.05	.....	12.05	12.44	12.11
8	12.60	12.28	12.12	11.79	11.53	12.33	12.20	12.05	.....	12.07	12.45	12.03
9	12.38	12.35	12.15	11.75	11.55	12.42	12.21	12.03	.....	12.03	12.43	11.92
10	12.43	12.32	12.13	11.70	11.60	12.42	12.20	12.06	.....	12.05	12.44	11.92
11	12.50	12.23	12.07	11.70	11.60	12.27	12.20	12.09	.....	12.07	12.45	11.87
12	12.56	12.15	12.07	11.50	11.64	12.23	12.23	12.13	.....	.....	12.47	11.76
13	12.56	12.23	12.05	11.53	11.67	12.18	12.23	12.13	.....	.....	12.50	11.63
14	12.54	12.14	12.03	11.60	11.69	12.15	12.24	12.15	12.53	.....	12.52	11.60
15	12.53	12.11	11.98	11.50	11.71	12.15	12.26	12.16	12.55	.....	12.49	11.70
16	12.53	12.15	11.98	11.51	11.73	12.18	12.25	.....	12.57	.....	12.48	11.69
17	12.50	12.18	11.95	11.53	11.75	12.16	12.19	.....	12.62	12.22	12.50	11.75
18	12.45	12.24	11.88	11.48	11.76	12.15	12.09	12.18	12.66	12.27	12.52	11.75
19	12.42	12.18	11.89	11.51	11.76	.....	12.04	12.15	12.65	12.28	12.50	11.70
20	12.37	12.09	11.93	11.57	11.80	.....	12.00	12.12	12.62	12.30	12.45	11.67
21	12.38	12.15	11.90	11.58	11.88	12.28	11.93	12.12	12.69	12.29	12.45	11.45
22	12.43	12.22	11.91	11.59	11.91	12.25	11.85	12.12	12.78	12.28	12.38	11.42
23	12.32	12.19	11.90	11.57	11.92	12.24	11.80	12.10	12.83	12.26	12.36	11.42
24	12.33	12.09	11.92	11.56	11.93	12.21	11.82	12.10	12.84	12.25	12.25	11.47
25	12.47	12.00	11.96	11.52	11.97	12.22	11.85	12.15	12.73	12.30	12.25	11.39
26	12.47	12.00	12.01	11.50	11.98	12.22	11.87	12.17	12.32	12.35	12.35	11.36
27	12.43	12.02	11.98	11.53	12.00	12.19	11.86	12.19	12.28	12.33	12.34	11.34
28	12.38	12.02	11.95	11.52	12.08	12.15	11.85	.....	12.25	12.32	12.36	11.28
29	12.45	.....	12.02	11.47	12.13	12.15	11.84	.....	12.20	12.37	12.40	11.26
30	12.45	.....	12.03	11.45	12.12	12.13	11.89	.....	12.15	12.42	12.36	11.25
31	12.38	.....	12.02	.....	12.11	.....	11.90	.....	.....	12.43	.....	11.31

Indian River County

25. U. S. Geol. Survey. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 32 S., R. 35 E. Jetted observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 19 feet, cased to 13, gravel 11-19. Land-surface datum is 30.0 feet above msl. Highest water level 31.46 above msl, Oct. 18, 1950; lowest 25.92 above msl, July 8, 1953. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.34	27.48	26.95	27.31	27.23	25.99	26.15	28.60	29.73	29.62	28.87	28.62
2	27.32	27.85	26.91	27.23	27.15	25.97	26.10	28.48	29.47	29.30	28.60	28.55
3	27.32	27.96	26.88	27.18	27.09	25.97	26.04	28.73	29.83	29.85	28.75	28.50
4	27.26	27.94	26.85	27.10	27.01	25.98	26.01	28.50	29.45	30.06	28.67	28.46
5	27.23	27.88	26.82	27.04	26.95	26.07	26.00	28.41	29.24	29.76	29.07	28.58
6	27.19	27.83	26.80	26.98	26.90	26.23	25.97	28.30	29.09	29.50	28.90	28.41
7	27.18	27.78	26.77	27.37	26.87	26.38	25.94	28.15	30.95	30.00	28.74	28.36
8	27.16	27.97	26.74	27.40	26.93	26.42	25.92	28.35	30.40	30.41	28.79	28.33
9	27.61	27.86	26.70	27.30	26.87	26.43	26.26	28.42	30.00	31.07	28.67	28.27
10	27.62	27.80	26.67	27.22	26.81	26.42	26.44	28.45	29.70	30.50	28.60	28.20
11	27.59	27.75	26.65	27.14	26.76	26.39	26.50	28.30	29.43	29.95	28.55	28.17
12	27.54	27.69	26.64	27.08	26.71	26.33	26.52	28.10	29.24	29.63	28.50	28.12
13	27.50	27.63	26.63	28.07	26.66	26.30	26.50	27.97	29.11	29.42	28.47	28.07
14	27.45	27.59	26.63	27.95	26.62	26.29	26.52	27.89	29.03	29.28	28.57	28.35
15	27.40	27.66	26.61	27.82	26.57	26.25	26.57	27.79	29.20	29.18	28.41	28.10
16	27.36	27.57	26.59	27.70	26.53	26.23	26.59	27.73	29.60	29.10	28.36	28.00
17	27.34	27.52	26.55	27.60	26.49	26.19	26.60	27.65	29.72	29.02	28.30	27.94
18	27.30	27.46	26.53	27.55	26.45	26.15	26.59	27.60	29.98	29.92	28.25	27.89
19	27.24	27.39	26.50	27.75	26.40	26.10	26.56	27.75	30.30	29.60	28.22	27.85
20	27.20	27.35	26.48	27.77	26.35	26.07	26.52	27.68	30.38	29.34	28.16	27.83

25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	27.18	27.27	26.94	27.56	26.33	26.04	26.45	28.12	29.91	29.17	28.12	27.81
22	27.15	27.22	26.75	27.45	26.30	26.02	26.40	28.57	30.17	29.05	28.06	27.78
23	27.12	27.17	28.15	27.37	26.26	26.02	26.57	28.76	29.78	28.95	28.03	28.02
24	27.26	27.14	28.19	27.32	26.23	26.03	27.10	28.65	29.53	28.88	28.81	28.01
25	27.20	27.09	27.98	27.23	26.19	26.02	27.32	28.56	29.35	28.83	29.44	27.96
26	27.14	27.04	27.85	27.63	26.15	26.03	27.35	28.47	29.25	28.77	29.10	27.87
27	27.11	27.03	27.74	27.67	26.12	26.14	27.33	28.63	29.78	29.78	28.93	27.78
28	27.08	26.98	27.65	27.52	26.10	26.18	28.07	29.60	29.50	29.42	28.85	27.75
29	27.05		27.57	27.44	26.06	26.22	28.23	30.09	29.29	29.14	28.76	27.73
30	27.04		27.43	27.33	26.03	26.20	28.20	29.83	29.92	29.00	28.70	27.70
31	27.42		27.36		26.00		28.68	30.14		28.95		27.66

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 59.87 below lsd, Jan. 12, 1953. Records available: 1949-53.

Daily highest water level from recorder graph*

Day	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	59.05	58.96	.....	55.43	55.00	55.36	56.12	57.09	57.41
2	59.03	58.95	.....	55.30	54.92	55.43	56.26	57.26	57.49
3	58.99	58.94	.....	.....	54.99	55.53	56.34	57.11	57.38
4	59.03	58.95	.....	55.37	54.96	55.55	56.58	57.11	.....
5	59.10	58.97	.....	55.45	55.00	55.58	56.44	57.37	.....
6	59.15	58.87	.....	55.16	54.88	55.62	56.66	57.42	57.59
7	59.20	58.80	.....	55.09	54.80	55.56	56.66	57.38	57.59
8	59.18	58.80	.....	55.04	54.79	55.54	56.64	.....	.....
9	58.99	58.92	.....	55.12	54.90	55.55	56.59	.....	.....
10	58.99	58.90	.....	54.94	54.87	55.55	56.54	.....	.....
11	59.01	58.81	.....	54.87	54.88	55.60	56.67	.....	.....
12	59.11	58.69	.....	55.01	54.83	55.67	56.53	.....	.....
13	59.21	58.68	.....	54.95	54.88	55.72	56.73	57.90	.....
14	59.19	58.47	.....	54.96	54.85	55.88	56.69	57.57	57.95
15	59.22	58.48	.....	54.90	54.87	55.89	.....	57.60	57.90
16	59.23	58.50	.....	54.90	54.90	55.91	.....	57.83	57.59
17	59.15	58.50	.....	54.80	54.88	55.90	.....	57.73	57.83
18	59.09	58.56	.....	54.93	55.01	55.92	.....	57.86	57.90
19	59.04	58.48	.....	54.77	55.13	55.92	.....	57.71	57.70
20	58.99	58.43	.....	54.74	55.16	55.94	.....	57.55	57.79
21	58.97	58.40	.....	54.70	55.11	55.90	.....	57.57	57.92
22	59.00	.....	.....	54.80	55.05	55.89	56.81	57.68	57.87
23	58.93	.....	.....	54.84	55.10	55.86	.....	57.84	.....
24	58.90	.....	.....	54.86	55.12	55.83	.....	57.93	.....
25	58.97	.....	.....	54.90	55.02	55.88	.....	57.92	.....
26	59.04	.....	.....	54.92	55.14	55.90	.....	.....	.....
27	59.02	.....	.....	54.90	55.13	55.90	.....	.....	.....
28	58.98	.....	55.60	55.02	55.13	56.02	.....	.....	.....
29	59.00	.....	55.56	55.00	55.16	56.07	.....	57.40	.....
30	59.00	.....	55.32	54.96	55.22	56.23	57.12	57.44	.....
31	58.98	.....	.....	55.03	.....	55.91	56.98	.....	.....

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	59.70	59.58	.....	55.91	55.58	55.93	56.77	57.68	57.99
2	59.65	59.55	.....	55.92	55.62	56.09	56.86	57.73	57.98
3	59.68	59.56	.....	55.92	55.65	56.05	56.95	57.69	58.01
4	59.70	59.60	.....	56.00	55.62	56.15	57.06	57.77	58.00
5	59.75	59.58	.....	55.92	55.57	56.22	57.08	57.78	.....
6	59.82	59.56	.....	55.76	55.45	56.19	57.12	57.85	58.07
7	59.82	59.41	.....	55.64	55.38	56.09	57.14	57.85	58.13
8	59.80	59.50	.....	55.63	55.50	56.08	57.16	.....	.....
9	59.65	59.60	.....	55.60	55.53	56.07	57.08	.....	.....
10	59.65	59.54	.....	55.55	55.57	56.13	57.12	.....	.....

15--Continued.

Day	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.	Oct.
11	59.69	59.48	.....	55.60	55.43	56.20	57.06	.....	.....
12	59.87	59.31	.....	55.58	55.53	56.21	57.22	.....	.....
13	59.83	59.33	.....	55.63	55.59	56.34	57.25	58.13	.....
14	59.85	59.29	.....	55.63	55.44	56.42	57.28	58.13	58.27
15	59.85	59.11	.....	55.57	55.52	56.49	.....	58.11	58.24
16	59.82	59.13	.....	55.57	55.51	56.49	.....	58.11	58.23
17	59.85	59.15	.....	55.60	55.57	56.49	.....	58.18	58.31
18	59.76	59.19	.....	55.60	55.71	56.53	.....	58.23	58.25
19	59.66	59.16	.....	55.46	55.82	56.56	.....	58.13	58.30
20	59.61	59.03	.....	55.31	55.75	56.59	.....	58.03	58.29
21	59.63	59.01	.....	55.50	55.71	56.45	.....	58.15	58.32
22	59.63	.....	.....	55.51	55.68	56.43	57.30	58.23	58.36
23	59.53	.....	.....	55.51	55.70	56.41	57.31	58.30	.....
24	59.58	.....	.....	55.58	55.72	56.38	.....	58.33	.....
25	59.63	.....	.....	55.57	55.71	56.46	.....	58.22	.....
26	59.67	.....	.....	55.57	55.73	56.48	.....	58.02	.....
27	59.65	.....	.....	55.60	55.79	56.55	.....	.....	.....
28	59.59	.....	56.15	55.65	55.75	56.70	.....	.....	.....
29	59.71	.....	56.07	55.65	55.85	56.71	.....	.....	.....
30	59.63	.....	55.90	55.61	55.87	56.76	.....	57.93	.....
31	59.59	.....	.....	55.61	.....	56.72	57.56	.....	.....

* No record for March, November, and December.

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 26.57 below lsd, May 8, 1953; lowest 43.76 below lsd, Nov. 2, 1951. Records available: 1950-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.28	39.14	32.32	36.47	34.60	36.38	37.55	35.39	37.87	37.02	38.83	39.37
2	41.25	39.17	32.33	36.58	34.55	36.55	37.56	35.57	37.91	36.85	38.87	39.38
3	41.23	39.17	32.75	36.67	33.64	36.65	37.60	35.78	37.95	36.76	38.89	39.38
4	41.22	39.18	33.27	36.78	32.07	36.75	37.63	35.94	37.98	36.71	38.90	39.37
5	41.20	39.20	33.75	36.86	30.08	36.78	37.65	36.07	38.03	36.75	.....	39.29
6	41.19	39.20	33.96	36.70	28.13	36.83	37.68	36.20	38.06	36.90	.....	38.95
7	41.17	39.05	34.03	35.93	27.00	36.88	37.64	36.34	38.12	37.13	.....	37.19
8	41.15	38.88	33.98	35.33	26.65	36.93	37.46	36.44	38.17	37.33	.....	35.06
9	41.13	38.82	34.15	35.14	26.80	37.00	37.35	36.53	38.21	37.47	.....	33.50
10	40.90	38.75	34.47	35.06	27.40	37.05	37.19	36.64	38.25	37.62	.....	32.94
11	40.77	38.69	34.73	35.04	27.92	37.06	36.98	36.74	38.29	37.75	.....	32.93
12	40.60	38.65	34.93	34.55	28.48	37.07	36.95	36.83	38.32	37.87	.....	32.92
13	39.76	38.66	34.06	33.00	29.07	37.10	37.00	36.90	38.35	37.98	.....	32.72
14	38.97	38.62	35.15	31.80	29.65	37.14	37.07	36.92	38.38	38.07	.....	32.40
15	38.53	38.44	35.21	30.98	30.30	37.20	37.10	37.05	38.43	38.13	.....	31.72
16	38.37	38.03	35.14	30.58	31.03	37.25	36.57	37.10	38.46	38.21	.....	30.88
17	38.44	37.63	35.10	30.69	31.75	37.26	35.93	37.18	38.50	38.27	39.19	30.45
18	38.65	37.12	35.10	30.95	32.40	37.29	35.70	37.22	38.55	38.31	39.24	30.39
19	38.84	36.72	35.23	31.48	33.04	37.38	35.65	37.25	38.57	38.35	39.25	30.42
20	38.94	36.50	35.37	31.80	33.65	37.40	35.65	37.33	38.59	38.42	39.29	30.14
21	38.85	36.65	35.46	31.95	34.10	37.27	35.70	37.40	38.63	38.44	39.31	29.75
22	38.72	36.68	35.58	32.06	34.50	37.22	35.73	37.46	38.67	38.48	39.31	29.37
23	38.72	36.54	35.68	32.29	34.74	37.25	35.73	37.49	38.71	38.50	39.28	29.70
24	38.82	36.08	35.80	32.65	34.90	37.29	35.66	37.53	38.74	38.53	39.25	30.01
25	38.94	35.42	35.92	33.08	35.05	37.35	35.43	37.58	38.74	38.59	39.27	30.38
26	38.92	34.90	36.02	33.41	35.28	37.39	35.20	37.60	38.61	38.63	39.30	30.65
27	38.85	34.08	36.05	33.75	35.48	37.43	35.08	37.65	38.44	38.67	39.31	30.67
28	38.87	33.10	36.08	34.03	35.75	37.47	35.07	37.67	38.35	38.68	39.34	30.61
29	38.97	.....	36.18	34.20	35.98	37.50	35.12	37.71	38.09	38.73	39.35	30.38
30	39.03	.....	36.28	34.38	36.10	37.53	35.20	37.76	37.47	38.75	39.35	30.18
31	39.08	.....	36.38	.....	36.28	.....	35.26	37.81	.....	38.80	.....	30.08

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 57.33 below lsd, Apr. 4, Aug. 3, 1953. Records available: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	57.16	May 11	56.94	Aug. 3	57.33	Nov. 5	52.50
Feb. 9	57.20	June 26	57.31	Sept. 14	56.16	Dec. 7	51.82
Apr. 4	57.33						

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: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	52.78	Apr. 4	53.02	June 26	53.14	Sept. 14	51.09
Feb. 9	52.90	May 11	52.65	Aug. 3	52.79	Nov. 5	49.62

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 7.0 above lsd, Mar. 8, 1951. Records available: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	+8.8	May 11	+9.2	Aug. 3	+8.1	Nov. 5	+10.6
Feb. 9	+8.8	June 26	+8.2	Sept. 14	+10.1	Dec. 8	+11.0
Apr. 2	+8.5						

22. Earl Little. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 15 S., R. 28 E. Astor. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 254 feet. Land-surface datum is 16.5 feet above msl. Highest water level 0.5 above lsd, Oct. 1945; lowest 2.8 below lsd, Oct. 1949. Records available: 1936-53. Measurements prior to May 1950 supplied by U. S. Corps of Engineers.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1936	-0.5	Mar. 1939	-2.2	May 1942	-1.2	June 1945	-2.5
Mar.	.5	Apr.	2.6	June	.6	July	.7
Apr.	1.1	May	2.1	July	.3	Aug.	-.1
May	1.9	June	2.1	Aug.	.1	Sept.	+.4
June	1.3	July	1.3	Sept.	.3	Oct.	+.5
July	1.1	Sept.	.6	Oct.	.6	Nov.	-.4
Aug.	.9	Oct.	.5	Nov.	1.2	Dec.	.2
Sept.	1.3	Nov.	1.0	Dec.	1.3	Jan. 1946	.1
Oct.	.6	Dec.	1.5	Jan. 1943	1.4	Feb.	.8
Nov.	.9	Jan. 1940	1.3	Feb.	1.7	Mar.	.8
Dec.	.9	Feb.	1.3	Mar.	1.6	June	1.1
Jan. 1937	.9	Mar.	1.7	Apr.	1.9	July	-.7
Feb.	.6	Apr.	1.5	May	2.3	Aug.	0.0
Mar.	1.3	May	2.3	June	2.1	Sept.	+.2
Apr.	1.0	June	1.6	July	1.2	Oct.	0.0
May	1.2	July	1.1	Aug.	-.5	Jan. 1947	-1.1
June	1.6	Aug.	1.0	Sept.	+.4	Feb.	1.0
July	2.0	Sept.	.8	Oct.	.0	Mar.	.5
Aug.	1.2	Oct.	1.2	Nov.	-.6	Apr.	.6
Sept.	.7	Nov.	1.7	Dec.	.9	May	1.2
Oct.	.3	Dec.	2.1	Jan. 1944	.6	June	.5
Nov.	.8	Jan. 1941	.9	Feb.	1.2	July	.5
Dec.	.4	Feb.	1.1	Mar.	1.0	Aug.	-.2
Jan. 1938	.2	Mar.	1.0	Apr.	.8	Sept.	+.3
Feb.	.8	Apr.	1.5	May	1.3	Oct.	.2
Mar.	1.3	May	1.8	June	1.5	Nov.	.4
Apr.	1.9	June	1.6	July	.6	Dec.	+.1
May	2.5	July	-.3	Aug.	.6	Jan. 1948	-.3
June	1.7	Aug.	+.3	Sept.	-.3	Feb.	-.5
July	1.0	Sept.	.4	Oct.	+.1	Mar.	+.1
Aug.	1.2	Oct.	.4	Nov.	-.3	Apr.	-.8
Sept.	1.0	Nov.	.3	Dec.	.8	May	1.2
Oct.	.9	Dec.	+.1	Jan. 1945	.7	June	1.8
Nov.	.6	Jan. 1942	-.1	Feb.	1.0	July	1.1
Dec.	1.2	Feb.	.4	Mar.	1.6	Aug.	.5
Jan. 1939	1.5	Mar.	.0	Apr.	2.0	Sept.	-.1
Feb.	1.8	Apr.	.3	May	2.4	Oct.	+.3

22--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 1948	-0.2	Oct. 1949	-2.8	Apr. 26, 1951	-1.61	Sept. 18, 1952	-1.22
Dec. 1948	+1	Nov. 1949	.2	June 14	2.20	Dec. 11	1.08
Jan. 1949	-1.0	Dec. 1949	.8	July 27	1.47	Jan. 23, 1953	1.25
Feb. 1949	1.3	Jan. 24, 1950	1.1	Sept. 21	1.94	Mar. 6	1.50
Mar. 1949	1.5	Feb. 14	1.5	Oct. 31	.67	Apr. 16	.75
Apr. 1949	1.4	Mar. 14	1.5	Dec. 21	.68	May 29	1.98
May 1949	2.2	Apr. 19	1.8	Feb. 13, 1952	1.26	July 10	2.40
June 1949	2.4	May 24	2.00	Apr. 1	.27	Aug. 19	-1.35
July 1949	1.4	Nov. 29	.81	May 15	1.65	Oct. 2	+28
Aug. 1949	1.1	Jan. 18, 1951	.88	June 25	1.68	Nov. 13	+19
Sept. 1949	.2	Mar. 6	1.24	Aug. 7	1.70	Dec. 18	-24

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 Tamiami formation, diameter 8 inches, depth 27 feet, cased to 19. Land-surface datum is 19.36 feet above msl. Highest water level 19.50 above msl, Oct. 2, 1951; lowest 9.69 below msl, June 8, 1949. Records available: 1945-53.

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	15.81	15.35	15.11	14.34	14.03	13.03	17.00	18.45	.....	18.85	17.51	14.83
2	15.80	15.33	15.07	14.31	14.00	13.00	16.95	18.19	.....	18.72	17.50	15.05
3	15.75	15.91	15.06	14.29	13.95	12.99	17.43	18.10	.....	18.98	17.12	15.15
4	15.70	15.93	15.03	14.30	13.90	12.97	18.70	18.05	.....	18.74	16.91	15.17
5	15.68	15.80	14.98	14.29	13.87	12.95	18.59	19.07	.....	18.60	16.74	15.25
6	15.67	15.72	14.96	14.28	13.85	12.94	18.51	18.65	.....	18.47	16.58	15.25
7	15.65	15.65	14.94	14.25	13.80	12.93	18.24	18.85	.....	18.39	16.68	15.25
8	15.67	15.80	14.91	14.22	13.78	13.00	18.09	18.42	.....	19.13	16.70	15.25
9	15.90	15.82	14.86	14.20	13.74	13.08	18.46	18.96	19.06	19.34	16.70	15.25
10	16.04	15.71	14.84	14.18	13.70	13.13	18.05	.....	18.92	19.00	16.27	15.20
11	16.06	15.64	14.81	14.16	13.67	13.16	18.72	.....	19.06	18.86	16.45	15.19
12	15.97	15.57	14.77	14.15	13.63	13.18	18.42	.....	18.86	18.78	16.21	15.15
13	15.93	15.45	14.77	14.12	13.60	13.19	18.19	.....	18.75	18.68	16.09	15.15
14	15.86	15.40	14.80	14.09	13.57	13.20	18.04	.....	19.15	18.60	15.85	15.09
15	15.81	15.35	14.77	14.12	13.53	13.20	18.71	.....	18.95	18.49	15.90	15.05
16	15.75	15.34	14.75	14.27	13.50	13.21	18.54	.....	18.90	18.35	15.67	15.00
17	15.71	15.27	14.72	14.39	13.46	13.22	18.72	.....	19.20	18.70	15.10	14.98
18	15.67	15.25	14.69	14.43	13.43	14.55	18.47	.....	19.00	19.06	15.10	14.95
19	15.65	15.29	14.66	14.45	13.40	17.22	18.22	.....	18.93	18.81	15.09	14.95
20	15.60	15.26	14.64	14.42	13.37	17.55	18.93	.....	19.05	18.70	14.85	14.95
21	15.57	15.25	14.60	14.38	13.34	17.58	19.04	.....	19.07	18.57	14.88	14.90
22	15.52	15.25	14.59	14.35	13.30	17.35	19.10	.....	18.92	18.45	14.98	14.91
23	15.45	15.26	14.56	14.32	13.28	17.22	19.04	.....	18.83	18.30	14.85	14.85
24	15.96	15.26	14.53	14.28	13.25	18.09	18.94	.....	19.00	18.23	14.60	15.05
25	15.97	15.24	14.51	14.24	13.22	17.77	18.76	.....	18.78	18.15	14.55	15.12
26	15.83	15.20	14.48	14.20	13.20	17.60	18.76	.....	19.01	18.05	14.75	15.13
27	15.75	15.17	14.46	14.19	13.17	17.54	18.92	.....	19.18	18.00	14.90	15.15
28	15.65	15.15	14.44	14.17	13.14	17.85	18.62	.....	18.96	18.57	14.80	15.13
29	15.55		14.40	14.11	13.10	17.25	18.52	.....	18.84	17.91	14.66	15.04
30	15.48		14.38	14.07	13.08	17.11	18.95	.....	18.91	17.74	14.45	15.00
31	15.41		14.36		13.05		18.60	.....		17.58		14.90

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. Land-surface datum is 7.24 feet above msl. Highest water level 36.5 above msl, Sept. 25, 1944; lowest 29.0 above msl, Mar. 24, 1952. Water level previously reported above lsd. Records available: 1944, 1950-53. Nov. 18, +32.5.

414. Lee County and 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. Land-surface datum is 20.80 feet above msl. Highest water level 19.77 above msl, Oct. 2, 1951; lowest 15.40 above msl, Mar. 19, 1953. Records available: 1948-53.

414--Continued.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.48	17.05	16.21	15.45	15.88	16.37	18.37	19.12	19.36	19.43	18.01	17.26
2	16.57	17.00	16.24	15.50	15.89	16.31	18.27	19.17	19.20	19.30	17.96	17.20
3	16.59	17.23	16.25	15.56	15.88	16.28	18.22	19.00	19.13	19.24	17.89	17.15
4	16.50	17.27	16.18	15.65	15.88	16.26	18.25	19.05	19.45	19.33	17.80	17.03
5	16.38	17.24	16.10	15.71	15.86	16.32	18.38	19.42	19.55	19.06	17.77	17.14
6	16.42	17.24	16.09	15.75	15.87	16.70	18.55	19.44	19.52	18.90	17.70	17.18
7	16.50	17.20	16.10	15.67	15.70	17.00	18.58	19.36	19.55	18.82	17.67	17.20
8	16.52	17.27	15.86	15.65	15.63	17.10	18.42	19.33	19.50	19.43	17.69	17.18
9	16.69	17.32	15.77	15.75	15.69	17.07	18.35	19.15	19.51	19.73	17.68	17.19
10	16.89	17.30	15.68	15.52	15.72	17.03	18.46	19.22	19.32	19.53	17.66	17.01
11	16.97	17.33	15.60	15.45	15.75	17.00	18.59	19.05	19.26	19.36	17.75	16.99
12	17.00	17.27	15.69	15.61	15.76	17.10	18.64	18.86	19.13	19.18	17.68	17.04
13	17.03	17.18	15.82	15.72	15.76	17.10	18.37	18.70	19.01	19.01	17.62	17.07
14	17.05	17.15	15.86	15.80	15.76	17.09	18.23	18.58	19.16	18.89	17.50	17.01
15	17.06	17.13	15.75	15.89	15.76	17.04	18.18	18.48	19.35	18.77	17.40	16.97
16	17.02	17.23	15.66	16.00	15.75	17.23	18.27	18.45	19.37	18.66	17.35	16.98
17	17.00	17.21	15.51	16.10	15.75	17.34	18.17	18.51	19.55	18.60	17.26	16.95
18	16.94	17.17	15.43	16.16	15.75	17.62	18.10	18.57	19.50	19.00	17.23	16.90
19	16.87	17.14	15.40	16.18	15.73	17.97	18.04	18.49	19.41	19.12	17.25	16.90
20	16.85	17.08	15.45	16.16	15.80	18.05	18.52	18.52	19.36	18.98	17.29	16.93
21	16.88	17.00	15.53	16.14	16.21	18.25	18.58	18.40	19.30	18.83	17.27	16.91
22	16.89	16.89	15.64	16.05	16.45	18.42	18.76	18.37	19.23	18.70	17.23	16.91
23	16.86	16.87	15.77	16.02	16.60	18.43	19.01	18.58	19.35	18.59	17.13	16.89
24	17.02	16.82	15.84	15.90	16.62	18.61	19.11	18.78	19.22	18.50	17.18	17.07
25	17.08	16.67	15.89	15.78	16.58	18.75	19.06	18.93	19.12	18.41	17.32	17.14
26	17.11	16.55	15.69	15.75	16.57	18.71	19.00	18.94	19.07	18.35	17.38	17.05
27	17.14	16.37	15.60	15.89	16.52	17.77	18.95	18.89	19.48	18.30	17.40	16.95
28	17.15	16.25	15.56	15.83	16.45	18.83	18.87	19.35	19.50	18.28	17.36	16.86
29	17.10		15.64	15.82	16.44	18.64	18.97	19.41	19.40	18.33	17.33	16.80
30	17.10		15.70	15.85	16.40	18.50	19.07	19.43	19.53	18.17	17.31	16.69
31	17.07		15.57		16.38		19.17	19.42		18.11		16.70

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 Sts. 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, Jan. 15, 1953. Records available: 1931-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	106.1	May 14	104.1	Aug. 14	104.8	Nov. 15	104.4
Feb. 16	105.9	June 20	105.0	Oct. 15	104.5	Dec. 15	105.7
Apr. 15	104.4	July 17	104.8				

7. City of Tallahassee. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 1 N., R. 1 E. 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: 1945-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	165.83	166.15	165.47	165.35	163.83	164.68	164.22	164.58	164.53	164.36	.....	165.22
2	165.68	166.14	165.45	165.34	163.82	164.74	164.22	164.60	164.53	164.30	.....	165.30
3	165.73	166.13	165.44	165.38	163.87	164.81	164.25	164.64	164.46	164.28	164.59	165.25
4	165.83	166.10	165.35	165.43	163.88	164.85	164.26	164.68	164.46	164.19	164.60	165.25
5	165.89	166.12	165.44	165.47	163.91	164.78	164.25	164.64	164.43	164.15	164.55	165.33
6	165.93	166.12	165.40	165.32	163.85	.....	164.25	164.70	164.43	164.16	164.64	165.20
7	165.92	166.08	165.33	165.30	163.84	.....	164.28	164.74	164.40	164.23	164.71	165.29
8	165.82	166.10	165.32	165.40	163.85	.....	.....	164.75	164.42	164.21	164.73	165.21
9	165.75	166.17	165.32	165.35	163.85	164.77	.....	164.74	164.43	164.16	164.71	165.14
10	165.82	166.10	165.30	165.31	163.89	164.75	.....	164.78	164.40	164.16	164.77	165.15
11	.....	165.92	165.23	165.32	163.90	164.66	164.35	164.83	164.40	164.17	164.81	165.12
12	.....	165.91	165.26	165.13	.....	164.64	164.33	164.83	164.42	164.19	164.84	165.07
13	.....	165.98	165.22	165.01	163.95	164.53	164.32	164.79	164.44	164.18	164.88	164.87
14	166.03	165.80	165.18	.....	163.98	164.53	164.32	164.86	164.42	164.24	164.90	164.97
15	.....	165.80	165.20	164.60	164.02	164.51	164.38	164.88	164.48	164.20	164.90	165.05

7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	165.96	165.20	164.55	164.03	164.49	164.40	164.89	164.41	164.19	164.88	164.95
17	.....	165.93	165.22	164.43	164.06	164.43	164.38	164.88	164.46	164.22	164.92	.....
18	.....	165.97	165.16	164.30	164.08	164.39	164.37	164.86	164.50	164.26	164.97	.....
19	.....	165.87	165.15	164.27	164.12	164.40	164.36	164.85	164.42	164.24	164.98	.....
20	166.07	165.85	165.25	164.25	164.17	164.38	164.38	164.85	164.42	164.28	164.93	.....
21	166.07	165.85	165.15	164.20	164.22	164.34	164.42	.....	164.49	164.29	164.98	.....
22	166.15	165.85	165.20	164.13	164.23	164.39	164.42	.....	164.63	164.30	164.97	164.76
23	166.05	165.78	165.19	164.05	164.27	164.23	164.40	.....	164.62	164.32	164.98	164.73
24	166.05	165.65	.....	164.01	164.32	164.27	164.44	.....	164.63	164.30	164.90	164.68
25	166.19	165.60	165.23	163.90	164.35	164.28	164.46	164.75	164.57	.....	.....	164.63
26	166.19	165.55	165.29	163.87	164.43	164.30	164.50	164.74	164.40	.....	.....	164.60
27	166.18	165.56	165.28	163.91	164.47	164.27	164.50	164.70	164.37	.....	.....	164.53
28	166.13	165.53	165.23	163.89	164.58	164.25	164.50	164.62	164.47	.....	.....	164.49
29	166.19	.....	165.29	163.80	164.67	.....	164.53	164.59	.....	.....	.....	164.47
30	166.18	.....	165.32	163.76	164.62	164.27	164.58	164.55	164.44	.....	.....	164.42
31	166.17	.....	165.34	.....	164.65	.....	164.60	164.55	.....	.....	.....	164.49

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	165.88	167.32	165.71	166.70	165.20	166.10	165.51	164.67	165.86	165.52	.....	166.58
2	166.84	167.32	166.65	166.75	165.07	166.23	165.43	164.79	165.71	165.47	.....	166.62
3	166.93	166.37	166.66	166.61	165.20	166.23	164.32	165.83	165.57	165.43	165.96	166.40
4	165.94	167.32	166.56	166.83	165.23	166.28	165.40	165.86	164.66	164.42	165.80	165.50
5	166.11	166.42	166.65	166.65	165.10	166.16	165.40	164.92	165.65	165.27	165.83	166.45
6	167.11	166.22	166.78	166.52	163.96	.....	165.45	165.95	164.54	165.35	165.75	166.38
7	167.25	167.31	166.58	166.60	164.03	.....	.....	164.97	164.47	165.55	165.83	166.64
8	167.08	166.44	166.51	165.47	164.95	.....	.....	164.93	165.55	165.53	165.87	166.40
9	166.94	166.24	166.50	166.48	165.10	166.10	.....	165.90	165.57	165.26	166.01	166.39
10	167.09	167.32	166.43	166.50	165.20	166.08	.....	165.05	165.55	165.30	166.13	166.35
11	.....	166.27	166.43	165.48	165.24	166.00	.....	166.15	165.55	165.28	165.00	165.33
12	.....	167.11	166.50	166.33	.....	165.75	164.50	165.98	165.60	165.50	165.95	166.23
13	.....	166.10	166.40	165.25	165.88	165.72	165.42	166.15	165.53	165.53	166.20	166.02
14	167.47	167.20	166.43	.....	165.35	165.66	165.50	165.08	165.62	165.38	166.04	166.15
15	.....	166.07	166.43	165.97	165.20	165.68	165.54	165.04	164.66	165.30	166.04	166.15
16	.....	167.33	166.60	165.80	164.34	165.70	165.55	164.93	165.55	165.50	166.05	165.19
17	.....	167.17	166.58	165.72	165.26	165.61	165.60	166.00	165.65	.....	166.23	.....
18	.....	167.18	166.37	165.56	165.23	164.57	165.53	165.05	165.85	165.41	166.15	.....
19	.....	167.11	166.43	164.38	165.52	165.58	164.55	165.05	165.60	165.45	166.30	.....
20	167.32	167.00	165.48	165.49	164.42	165.56	165.58	165.02	164.67	165.57	166.10	.....
21	166.35	167.10	166.40	164.44	165.40	164.43	165.59	.....	165.84	165.67	165.18	.....
22	167.39	167.03	165.27	165.36	165.48	164.55	165.57	.....	165.80	165.46	166.10	165.86
23	166.35	165.86	166.45	165.30	165.63	165.48	165.58	.....	165.77	165.64	166.20	164.93
24	166.21	166.88	.....	165.24	165.73	165.42	165.60	.....	165.77	165.66	166.15	164.88
25	166.29	165.87	166.45	165.17	165.73	164.43	164.65	165.95	164.78	.....	.....	165.75
26	166.45	166.76	166.43	163.98	165.93	164.38	164.67	164.95	164.73	.....	.....	165.75
27	167.40	166.80	166.48	164.18	166.01	164.50	165.64	164.89	164.53	.....	.....	165.73
28	166.35	165.62	166.43	165.10	166.09	165.34	164.71	165.75	.....	.....	.....	165.62
29	167.38	.....	166.43	164.05	166.05	.....	165.68	164.75	.....	.....	.....	164.70
30	167.42	.....	166.53	165.00	166.09	165.40	165.72	164.73	165.60	.....	.....	165.78
31	167.39	.....	166.73	.....	166.09	.....	164.68	164.75	.....	.....	.....	165.76

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: 1950-53.

Daily mean water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	142.51	Jan. 11	142.45	Jan. 27	142.68	Feb. 10	142.65
2	142.32	12	142.59	28	142.60	11	142.55
3	142.35	13	142.62	29	142.72	12	142.40
4	142.50	20	142.53	Feb. 3	142.59	13	142.55
5	142.51	21	142.57	4	142.61	14	142.47
6	142.60	22	142.68	5	142.68	15	142.49
7	142.62	23	142.53	6	142.60	16	142.58
8	142.45	24	142.53	7	142.47	17	142.59
9	142.18	25	142.73	8	142.59	18	142.72
10	142.23	26	142.73	9	142.68	19	142.60

28--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	142.47	Apr. 29	e140.15	June 21	e139.58	Sept. 27	e137.90
21	142.57	30	e140.03	24	e139.53	Oct. 3	e138.83
22	142.65	May 11	e139.77	July 4	e139.00	8	e138.50
23	142.55	23	e139.55	9	e139.03	19	e139.32
24	142.35	28	e139.64	22	e139.00	24	e139.03
25	142.25	June 5	e139.50	24	e138.97	Nov. 2	e139.37
26	142.20	7	e139.87	Aug. 4	e139.32	7	e139.17
27	142.22	8	e140.03	5	e139.00	23	e139.51
28	142.20	9	e140.02	25	e138.95	28	e139.35
Mar. 1	142.18	10	e139.90	Sept. 6	e138.55	Dec. 3	e139.55
4	e141.63	11	e139.72	12	e138.58	8	e139.44
16	e141.67	12	e139.67	18	e138.22	19	e139.17
29	e141.50	20	e139.60	26	e137.90	26	e138.44
Apr. 10	e141.25						

e Estimated.

36. Dawkins Pond Church. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 3 N., R. 2 E. Driven unused water-table well in sandy clay of Hawthorn formation, diameter 1 $\frac{1}{2}$ inches, depth 30 to 31 feet, cased to 27-28, screen 27-30, 28-31. Highest water level 0.12 above lsd, Oct. 4, 1948; lowest 26.50 below lsd, Jan. 31, 1944. Records available: 1935-37, 1942-44, 1947-53.

Feb. 2	23.71	Apr. 30	16.60	July 31	21.07	Oct. 30	22.96
Mar. 2	21.32	May 29	18.30	Aug. 31	22.33	Nov. 30	23.50
Apr. 2	22.40	June 30	19.88	Oct. 1	21.67		

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, Nov. 30, 1953; lowest 89.9 below lsd, Feb. 28, 1951. Records available: 1950-53.

Feb. 2	82.2	June 2	86.1	Aug. 31	86.6	Oct. 30	85.9
Mar. 2	87.1	30	86.2	Oct. 1	86.7	Nov. 30	81.9
May 4	85.4	July 31	85.9				

Madison County

18. Florida State Road Dept. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 1 N., R. 9 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 322 feet, cased to 307. Land-surface datum is 100.56 feet above msl. Highest water level 25.90 below lsd, Nov. 4, 1953; lowest 32.03 below lsd, Apr. 17, 1952. Records available: 1952-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 17, 1952	32.03	Oct. 31, 1952	28.82	Mar. 30, 1953	28.51	Sept. 11, 1953	27.98
May 30	27.36	Dec. 15	30.28	May 29	26.86	Nov. 4	25.90
July 14	29.46	Feb. 3, 1953	30.52	July 13	26.66	Dec. 18	26.09
Sept. 12	28.24						

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 43.66 below lsd, June 4, 1953. Records available: 1941-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.70	40.04	39.88	42.00	41.89	43.54	.....	40.57	.....	39.01	39.21	39.38
2	40.65	40.00	40.96	41.98	41.93	43.54	.....	40.52	.....	38.95	39.27	39.33
3	40.56	39.99	40.07	41.97	41.97	43.60	.....	40.51	39.77	38.90	39.31	39.24
4	40.69	40.07	40.18	42.08	42.03	43.65	.....	40.47	39.67	38.79	39.26	39.23
5	40.73	40.16	40.27	42.13	42.05	43.63	.....	40.40	39.67	38.71	39.17	39.19
6	40.82	40.14	40.44	42.06	42.04	43.60	.....	40.34	.....	38.75	39.24	39.09
7	40.80	40.05	40.53	42.02	42.02	43.58	.....	40.36	.....	38.80	39.37	39.11
8	40.65	40.05	40.58	42.17	42.04	43.55	41.30	40.35	.....	38.80	39.41	39.09
9	40.35	40.23	40.71	42.25	42.08	43.01	41.27	40.25	.....	.....	39.39	39.00
10	40.33	40.24	40.81	42.23	42.11	42.96	41.17	.....	.....	38.68	39.43	38.95

92--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	40.42	40.15	40.88	42.24	42.17	42.85	41.03	.....	.....	38.74	39.45	38.94
12	40.52	39.97	40.98	42.20	42.26	42.75	40.97	.....	.....	38.80	39.49	38.87
13	40.55	39.92	41.06	42.13	42.34	.....	40.97	.....	.....	38.85	39.52	38.78
14	40.51	39.94	41.15	42.27	42.39	.....	40.98	.....	.....	38.85	39.54	38.79
15	40.47	39.86	41.26	42.20	42.45	.....	41.01	.....	.....	38.80	39.53	39.00
16	40.43	39.98	41.35	42.08	.....	.....	41.01	.....	.....	38.78	39.50	39.02
17	40.38	40.01	41.42	42.13	.....	.....	40.97	.....	.....	38.83	39.52	39.04
18	40.31	40.06	41.44	42.09	.....	.....	.....	.....	39.29	38.82	39.54	39.09
19	40.28	40.00	41.48	42.01	42.74	.....	.....	.....	39.23	38.86	39.52	39.04
20	40.15	39.91	41.53	42.03	42.85	.....	.....	.....	39.15	38.85	39.49	38.94
21	40.08	39.93	41.63	42.06	42.99	.....	.....	40.02	39.20	38.84	39.50	38.83
22	40.13	39.95	41.67	42.06	43.10	.....	.....	40.05	39.27	38.83	39.50	38.88
23	40.06	39.97	41.75	42.03	43.18	.....	.....	39.97	39.27	38.80	39.44	38.92
24	39.99	39.90	41.85	41.97	43.26	.....	.....	39.98	39.25	38.75	39.34	.....
25	40.07	39.84	41.95	41.93	43.33	.....	40.68	40.01	39.15	38.81	39.23	38.96
26	40.24	39.82	42.00	41.88	43.37	.....	.....	.....	39.02	38.92	39.40	e38.99
27	40.20	39.82	41.99	41.90	43.37	.....	.....	.....	38.90	38.96	39.49	e38.97
28	40.08	39.85	41.93	41.89	43.75	.....	.....	.....	38.92	38.93	39.52	38.88
29	40.07	.....	41.98	41.85	43.57	.....	.....	.....	38.95	39.01	39.51	38.88
30	40.07	.....	42.03	41.84	43.55	.....	.....	.....	39.02	39.10	39.44	38.87
31	40.04	.....	42.01	.....	43.54	.....	.....	.....	.....	39.16	.....	38.89

e Estimated.

Marion County

5. Florida 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 5.9 above lsd, Apr. 1, 1933. Records available: 1933-53.

Daily mean water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.86	8.60	8.29	.....	8.50	8.44	8.41	8.65	10.10	11.83	12.11	11.59
2	8.95	8.62	8.27	.....	8.48	8.35	8.45	8.72	10.21	11.91	12.08	11.58
3	8.99	8.61	8.23	.....	8.44	8.30	8.43	8.71	10.38	11.98	12.09	11.61
4	8.82	.....	8.27	.....	8.43	8.32	8.41	8.75	10.49	12.12	12.16	11.64
5	8.80	8.48	8.11	.....	8.46	8.32	8.44	8.83	10.62	12.27	12.25	11.62
6	8.72	8.52	8.07	.....	8.52	8.31	8.46	8.83	10.70	12.17	12.12	11.64
7	8.72	8.58	8.11	.....	8.57	8.32	8.45	8.78	10.71	12.12	12.02	11.55
8	8.86	8.48	8.14	.....	8.56	8.31	8.43	8.79	10.73	12.15	12.00	11.56
9	9.10	8.33	8.09	.....	8.55	8.25	8.43	8.86	10.82	12.30	12.03	11.64
10	8.96	8.37	8.12	7.98	8.53	8.27	8.45	8.87	10.91	12.29	12.01	11.64
11	8.80	8.48	8.13	8.00	8.53	8.30	8.48	8.87	10.97	12.25	11.98	11.59
12	8.66	8.60	8.09	8.10	8.50	8.28	8.50	8.89	10.98	12.23	11.95	11.65
13	8.63	8.49	8.11	8.09	8.49	8.30	8.48	8.94	11.04	12.21	11.91	11.72
14	8.67	8.50	8.12	7.92	8.51	8.36	8.44	8.95	11.08	12.24	11.90	11.62
15	8.69	8.49	8.09	8.06	8.51	8.34	8.40	8.97	11.12	12.30	11.93	11.42
16	8.71	8.33	8.08	8.18	8.51	8.30	8.42	9.00	11.20	12.33	11.93	11.43
17	8.72	8.32	8.04	8.10	8.51	8.31	8.46	9.03	11.21	12.30	11.90	11.42
18	8.77	8.23	8.07	8.20	8.53	8.38	8.50	9.07	11.19	12.28	11.86	11.41
19	8.79	8.32	8.06	8.28	8.52	8.32	8.49	9.13	11.28	12.31	11.87	11.47
20	8.79	8.38	7.99	8.23	8.46	8.28	8.51	9.16	11.38	12.33	11.91	11.60
21	8.77	8.35	8.01	8.22	8.44	8.28	8.52	9.17	11.35	12.35	11.87	11.70
22	8.64	8.28	8.05	8.26	8.44	8.28	8.51	9.20	11.33	12.37	11.85	11.62
23	8.71	8.26	8.03	8.31	8.45	8.30	8.55	9.29	11.37	12.39	11.87	11.70
24	8.73	8.33	8.02	8.37	8.45	8.35	8.61	9.33	11.47	12.42	11.88	11.60
25	8.51	8.37	7.98	8.42	8.46	8.34	8.59	9.37	11.62	12.33	11.85	11.72
26	8.47	8.37	.....	8.47	8.48	8.34	8.58	9.43	11.79	12.25	11.65	11.76
27	8.53	8.33	.....	8.46	8.43	8.34	8.55	9.54	11.85	12.26	11.59	11.83
28	8.62	8.30	.....	8.45	8.32	8.33	8.56	9.68	11.80	12.32	11.57	11.95
29	8.58	.....	.....	8.52	8.34	8.33	.....	9.83	11.79	12.24	11.55	12.00
30	8.55	.....	.....	8.53	8.40	8.36	.....	9.92	11.76	12.16	11.59	12.06
31	8.60	.....	.....	8.43	.....	.....	.....	10.03	.....	12.12	.....	12.03

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: 1936-53. Feb. 3, 19.99; Mar. 16, 20.09; Apr. 27, 19.90; July 20, 19.80; Sept. 1, 17.60; Oct. 15, 14.50; Dec. 2, 14.99.

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: 1936-53. Feb. 3, 4.52; Mar. 16, 5.18; Apr. 27, 4.89; July 20, 4.50; Sept. 1, 3.71; Oct. 15, 0.80; Nov. 30, 1.24.

49. Florida 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: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	26.92	May 29	27.69	Aug. 19	28.00	Nov. 13	25.87
Mar. 6	27.31	July 10	26.25	Oct. 2	26.33	Dec. 18	25.84
Apr. 16	27.32						

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: 1935-53. Dec. 15, 27.09.

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, screen 65-90. Land-surface datum is 17.60 feet above msl. Highest water level 7.41 above msl, Oct. 18, 1953; lowest 1.40 above msl, Aug. 24, 1952. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.90	3.12	2.72	2.29	2.08	1.65	2.05	1.77	2.05	4.95	6.80	5.95
2	3.90	3.11	2.69	2.28	2.07	1.65	2.06	1.77	2.06	4.97	6.75	5.88
3	3.86	3.08	2.65	2.27	2.06	1.64	2.06	1.76	2.07	4.98	6.67	5.84
4	3.83	3.09	2.64	2.26	2.05	1.63	2.07	1.75	2.07	4.99	6.60	5.78
5	3.79	3.08	2.63	2.25	2.04	1.65	2.07	1.74	2.08	5.00	6.55	5.74
6	3.77	3.08	2.61	2.24	2.02	1.68	2.08	1.73	2.09	5.00	6.50	5.68
7	3.75	3.07	2.59	2.23	2.00	1.71	2.08	1.72	2.10	5.00	6.43	5.63
8	3.71	3.06	2.57	2.22	1.98	1.73	2.07	1.77	2.10	5.17	6.37	5.59
9	3.69	3.05	2.56	2.21	1.97	1.74	2.05	1.80	2.10	6.45	6.34	5.55
10	3.65	3.04	2.54	2.20	1.96	1.75	2.04	1.85	2.10	e7.09	6.27	5.50
11	3.61	3.02	2.52	2.19	1.95	1.75	2.02	1.88	2.10	....	6.24	5.46
12	3.59	3.01	2.50	2.19	1.93	1.73	1.98	1.93	2.11	....	6.65	5.42
13	3.57	3.00	2.48	2.20	1.92	1.72	1.97	1.95	2.13	....	6.74	5.38
14	3.53	2.99	2.48	2.25	1.90	1.70	1.96	1.97	2.14	....	6.77	5.32
15	3.51	2.96	2.45	2.30	1.88	1.69	1.95	1.99	2.20	....	6.78	5.28
16	3.49	2.94	2.45	2.31	1.87	1.68	1.95	2.00	2.38	....	6.75	5.24
17	3.46	2.93	2.44	2.31	1.86	1.67	1.94	2.00	2.67	....	6.69	5.19
18	3.44	2.92	2.43	2.31	1.85	1.67	1.92	2.01	3.20	7.41	6.62	5.16
19	3.41	2.90	2.40	2.30	1.83	1.65	1.90	2.01	3.55	....	6.55	5.13
20	3.39	2.89	2.40	2.28	1.82	1.66	1.87	2.01	3.81	....	6.48	5.10
21	3.36	2.86	2.39	2.25	1.80	1.66	1.85	2.00	4.02	....	6.42	5.03
22	3.34	2.84	2.38	2.22	1.79	1.65	1.82	1.99	4.18	....	6.37	5.00
23	3.32	2.82	2.37	2.21	1.77	1.65	1.80	1.99	4.40	....	6.33	4.97
24	3.29	2.80	2.36	2.19	1.76	1.65	1.79	1.98	4.56	....	6.28	4.95
25	3.25	2.79	2.35	2.18	1.75	1.64	1.79	1.98	4.70	....	6.22	4.90
26	3.24	2.78	2.34	2.17	1.73	1.68	1.78	1.98	4.79	....	6.17	4.85
27	3.22	2.74	2.33	2.14	1.72	1.83	1.77	1.98	4.83	7.09	6.12	4.82
28	3.20	2.74	2.33	2.11	1.70	1.91	1.77	1.98	4.87	7.05	6.07	4.80
29	3.17		2.31	2.12	1.68	1.97	1.77	2.00	4.91	6.99	6.04	4.77
30	3.14		2.30	2.10	1.67	2.03	1.77	2.02	4.93	6.94	6.00	4.75
31	3.13		2.30		1.65		1.77	2.04		6.86		4.70

e Estimated.

Nassau County

2. G. G. Gerbing. Sec. 50, T. 2 N., R. 28 E. 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 29.0 above lsd, Dec. 15, 1953. Records available: 1939-40, 1944-53. Feb. 5, +31.1; Mar. 31, +30.5; May 27, +30.3; July 14, +31.5; Sept. 9, +30.3; Nov. 4, +30.2; Dec. 15, +29.0.

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 30.3 above lsd, Dec. 17, 1952. Records available: 1939-40, 1944-53. Feb. 5, +31.1; Mar. 31, +30.6; May 27, +30.6; July 14, +31.1; Sept. 9, +31.3; Nov. 4, +30.6; Dec. 15, +31.6.

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. Highest water level 40.9 above lsd, Mar. 25, 1939; lowest 9.22 below lsd, Aug. 7, 1951. Records available: 1939, 1944-53. Feb. 5, 1.26; Mar. 31, 3.05; May 27, 3.01; July 14, +0.24; Sept. 9, 3.31; Nov. 4, 6.01; Dec. 15, 5.38.

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 18.75 below lsd, Dec. 15, 1953. Records available: 1939-41, 1944-53. Feb. 5, +0.12; Mar. 31, 9.68; May 27, 5.12; July 14, 15.02; Sept. 9, 6.07; Nov. 4, 18.50; Dec. 15, 18.75.

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 15.7 above lsd, Nov. 4, 1953. Records available: 1939-42, 1944, 1946-53. Feb. 5, +24.8; Mar. 31, +21.0; May 27, +21.4; July 14, +20.8; Nov. 4, +15.7; Dec. 15, +16.0.

27. Judge Fishler and others. Atlantic Boulevard 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 15.62 below lsd, Dec. 15, 1953. Records available: 1939-41, 1944-53. Feb. 5, +0.02; Mar. 31, 3.73; May 27, 8.10; July 14, 5.50; Sept. 9, 5.10; Nov. 4, 13.48; Dec. 15, 15.62.

34. W. L. Hardee. Hardee Dock in Fernandina. 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 19.59 below lsd, Nov. 4, 1953. Records available: 1939-41, 1944-53. Mar. 31, +0.29; May 27, 7.25; July 14, 6.14; Sept. 9, 10.67; Nov. 4, 19.59; Dec. 15, 19.06.

44. Seaboard Air Line Railroad Co. Yulee. Drilled railroad artesian well in Floridan aquifer, diameter 4 inches, reported depth 1,000 feet, cased to 450. Land-surface datum is 24.81 feet above msl. Highest water level 26.4 above lsd, Aug. 25, 1938; lowest 11.8 above lsd, Sept. 9, 1953. Records available: 1934, 1938, 1940, 1944-53. Feb. 5, +12.6; Mar. 31, +12.4; July 14, +13.2; Sept. 9, +11.8; Nov. 4, +12.5; Dec. 15, +12.8.

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, 1944-53. Feb. 5, +31.2; Mar. 31, +33.7; May 27, +31.7; July 14, +32.7; Sept. 9, +33.0; Nov. 4, +31.7; Dec. 15, +34.0.

51. Harold D. Blosser. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 2 N., R. 25 E. 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 33.0 above lsd, May 27, 1953. Records available: 1940-42, 1944-53. Feb. 5, +34.0; Mar. 31, +33.5; May 27, +33.0; July 14, +33.2; Sept. 9, +34.0; Nov. 4, +35.3; Dec. 15, +35.4.

55. L. R. Church. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 2 N., R. 28 E. 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 19.1 above lsd, Nov. 4, 1953. Records available: 1940, 1944-53. Feb. 5, +21.4; Mar. 31, +21.5; May 27, +20.3; July 14, +22.3; Sept. 9, +19.5; Nov. 4, +19.1; Dec. 15, +19.3.

64. A. H. Crews. 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. Highest water level 16.05 below lsd, Feb. 22, 1949; lowest 27.03 below lsd, Sept. 9, 1953. Records available: 1944-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30, 1948	17.39	Aug. 13, 1948	19.24	Jan. 4, 1949	19.30	May 17, 1949	16.14
Mar. 24	17.23	Oct. 1	19.23	Feb. 22	16.05	June 28	20.08
July 9	19.04	Nov. 10	19.02	Apr. 6	16.27	Aug. 17	19.81

82 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

64--Continued.

Daily mean water level from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	21.34	.....	.....	.....	.....	23.35	23.25	.....	23.27	22.94	22.89
2	.....	21.34	.....	.....	.....	.....	23.40	23.23	.....	23.30	22.90	22.91
3	.....	21.37	.....	.....	.....	.....	23.39	23.22	.....	23.24	22.79	22.73
4	.....	.....	.....	.....	.....	.....	23.37	23.24	.....	23.13	22.71	22.65
5	.....	.....	.....	.....	.....	.....	23.35	23.25	.....	23.13	22.92	22.83
6	.....	.....	.....	.....	.....	.....	23.29	23.28	.....	23.21	23.06	22.83
7	.....	.....	.....	.....	.....	22.83	23.22	23.35	.....	23.25	23.01	22.82
8	.....	.....	.....	.....	.....	22.89	23.18	23.41	.....	23.19	22.88	22.96
9	.....	.....	21.84	.....	.....	22.91	23.16	23.40	.....	23.11	22.83	22.85
10	.....	.....	21.92	.....	.....	22.87	23.18	.....	.....	23.15	22.84	22.74
11	.....	.....	21.84	.....	.....	22.80	23.24	.....	.....	23.14	22.88	22.75
12	.....	.....	21.79	.....	.....	22.81	23.22	.....	.....	23.12	22.93	22.72
13	.....	.....	21.70	.....	.....	22.89	23.20	.....	.....	23.20	22.94	22.86
14	.....	.....	21.84	.....	.....	22.91	23.21	.....	.....	23.27	22.97	22.91
15	.....	.....	21.81	.....	.....	22.89	23.25	.....	.....	23.26	22.98	22.88
16	.....	.....	21.54	.....	.....	22.89	23.30	.....	.....	23.27	22.91	22.91
17	.....	.....	21.69	.....	.....	22.91	23.27	.....	.....	23.17	22.80	22.88
18	21.03	.....	21.70	.....	.....	22.93	23.20	.....	.....	22.91	22.84	22.84
19	21.14	.....	21.78	22.00	.....	22.97	23.18	.....	.....	22.29	22.83	23.04
20	21.16	.....	21.71	21.98	.....	23.03	23.17	.....	23.33	22.18	22.76	23.07
21	21.19	.....	21.73	22.12	.....	23.09	23.15	.....	23.30	22.02	22.83	23.15
22	21.15	.....	21.65	22.21	.....	23.12	23.14	.....	23.18	22.01	22.80	23.09
23	21.11	.....	21.75	22.18	.....	23.13	23.20	.....	23.10	22.19	22.80	23.03
24	21.13	.....	21.79	22.09	.....	23.18	23.24	.....	23.17	22.46	22.74	22.95
25	21.22	.....	21.80	22.06	.....	23.19	23.25	.....	23.30	22.82	22.74	22.96
26	21.29	.....	21.79	22.07	.....	23.15	23.23	.....	23.36	22.96	22.74	22.91
27	21.29	.....	21.69	22.13	.....	23.13	23.22	.....	23.34	23.00	22.70	22.88
28	21.26	.....	.....	22.18	.....	23.18	23.17	.....	23.30	23.01	22.79	22.90
29	21.25	.....	.....	22.19	.....	23.20	23.14	.....	23.29	23.02	22.88	22.80
30	21.28	.....	.....	22.18	.....	23.24	23.19	.....	23.27	22.99	22.87	22.75
31	21.32	.....	.....	.....	.....	.....	23.24	.....	.....	22.98	.....	22.85

Daily mean water level from recorder graph, 1951*

Day	Jan.	Feb.	Mar.	Apr.	May	Oct.	Nov.
1	23.00	22.99	23.30	23.49	23.87	.....	23.94
2	22.95	23.22	23.31	23.38	23.85	.....	23.84
3	22.87	22.23	23.30	23.40	23.71	.....	23.91
4	22.86	23.17	23.31	23.49	23.65	.....	24.02
5	22.95	23.19	23.38	23.55	23.67	24.25	24.07
6	22.91	23.13	23.45	23.52	23.83	24.24	23.92
7	22.77	22.99	23.37	23.34	23.92	24.23	23.79
8	22.89	23.26	23.30	23.28	24.01	24.26	23.90
9	23.02	23.28	23.43	23.38	24.04	24.22	24.00
10	23.03	23.32	23.54	23.40	24.03	24.19	23.92
11	22.99	23.32	23.53	23.41	23.99	.....	23.84
12	22.99	23.24	23.48	23.39	24.00	.....	23.78
13	23.03	23.26	23.48	23.49	24.14	.....	.....
14	22.91	23.30	23.48	23.54	24.31	.....	.....
15	22.79	23.32	23.48	23.58	24.33	24.25	.....
16	23.02	23.32	23.48	23.56	24.19	24.26	.....
17	23.08	23.26	23.49	23.60	24.10	24.27	.....
18	23.02	23.25	23.48	23.66	24.16	24.24	23.76
19	23.02	23.24	23.43	23.58	24.19	24.17	23.76
20	23.02	23.16	23.50	23.68	24.16	24.16	23.79
21	23.01	23.01	23.52	23.80	24.18	24.11	23.82
22	23.09	23.16	23.55	23.76	24.19	24.11	23.76
23	23.04	23.25	23.55	23.74	24.11	24.13	.....
24	22.98	23.28	23.45	23.81	24.12	24.11	.....
25	22.98	23.26	23.52	23.83	24.23	24.17	.....
26	23.11	23.25	23.58	23.83	24.22	24.18	.....
27	23.16	23.26	23.59	23.85	24.21	24.08	.....
28	23.19	23.27	23.52	23.86	24.17	23.93	.....
29	23.14	.....	23.48	23.79	24.22	23.99	.....
30	23.10	.....	23.49	23.80	24.31	24.03	.....
31	23.08	.....	23.54	.....	24.37	24.02	.....

* No record for June, July, August, September, and December.

64--Continued.

Daily mean water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	22.64	22.91	23.41	24.22	.....	.....	.....	24.72	.....
2	.....	.....	.....	22.53	22.94	23.43	24.25	.....	.....	.....	24.73	.....
3	.....	.....	.....	22.61	22.99	23.45	24.26	.....	.....	.....	24.69	.....
4	.....	.....	.....	22.54	23.04	23.46	24.26	.....	.....	.....	24.69	.....
5	.....	.....	.....	22.59	23.06	23.47	24.26	.....	.....	.....	24.66	.....
6	22.98	.....	.....	22.76	23.09	23.52	24.26	.....	.....	.....	24.61	.....
7	23.13	.....	22.83	22.81	23.11	23.53	24.23	.....	.....	.....	24.73	.....
8	23.10	23.19	22.84	22.80	23.11	23.55	24.18	.....	.....	.....	24.80	.....
9	.....	23.17	22.79	22.80	23.10	23.62	24.14	.....	.....	.....	24.71	.....
10	.....	23.16	22.64	22.83	23.13	23.65	24.13	.....	.....	.....	24.58	.....
11	23.29	.....	22.58	22.82	23.14	23.64	24.20	.....	.....	.....	24.56	.....
12	23.27	.....	22.61	22.78	23.33	23.64	24.15	.....	.....	.....	24.66	.....
13	23.18	.....	.....	22.66	23.38	23.73	24.19	.....	.....	.....	24.66	.....
14	23.08	.....	.....	22.63	23.44	23.83	24.17	.....	.....	.....	24.63	.....
15	.....	.....	.....	22.69	23.43	23.83	.....	.....	.....	.....	24.63	.....
16	.....	.....	22.58	22.79	23.42	23.81	.....	.....	.....	.....	24.71	.....
17	.....	.....	22.62	22.89	23.44	23.84	.....	.....	.....	.....	24.73	24.78
18	.....	.....	22.58	22.92	23.43	23.87	.....	.....	.....	.....	24.69	24.79
19	.....	23.18	22.57	22.91	24.43	23.89	.....	.....	.....	.....	24.53	24.79
20	.....	23.17	22.62	22.94	23.39	23.93	.....	.....	.....	.....	24.45	24.68
21	.....	23.16	22.58	22.94	23.45	24.03	.....	.....	.....	.....	24.46	24.61
22	.....	23.18	22.56	22.97	23.50	24.07	.....	.....	.....	.....	24.61	24.66
23	.....	23.16	22.54	22.93	23.53	24.07	.....	.....	.....	.....	24.71	24.71
24	23.18	.....	22.51	22.89	23.52	24.04	.....	.....	.....	.....	24.75	24.75
25	23.13	.....	22.49	22.83	23.45	24.02	.....	.....	.....	.....	24.70	24.77
26	23.10	.....	22.47	22.72	23.39	24.03	.....	.....	.....	.....	24.66	24.77
27	.....	.....	22.52	22.70	23.42	24.04	.....	.....	.....	.....	24.70	24.74
28	.....	.....	22.61	.....	23.47	24.13	.....	.....	.....	.....	24.78	24.73
29	.....	.....	22.67	22.78	23.39	24.18	.....	.....	.....	24.76	24.76	24.73
30	.....	.....	22.74	22.86	23.34	24.17	.....	.....	.....	24.65	24.76	24.59
31	.....	.....	22.67	.....	23.35	.....	.....	.....	.....	24.78	.....	24.43

Daily mean water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	Sept.	Oct.	Nov.	Dec.
1	24.69	24.89	24.91	25.00	24.70	.....	23.86	23.69	23.77
2	24.56	24.82	24.90	24.99	24.74	.....	23.86	23.73	23.78
3	24.46	24.78	24.96	25.03	24.86	.....	23.77	23.73	23.71
4	24.63	24.82	24.86	25.06	24.93	.....	23.71	23.64	23.63
5	24.68	24.96	25.06	25.11	24.94	.....	23.61	23.49	23.68
6	24.81	24.90	25.15	24.97	24.89	.....	23.87	23.58	23.60
7	24.83	24.77	25.12	24.83	24.84	.....	24.31	23.66	23.72
8	24.68	24.89	25.07	25.00	24.85	.....	24.09	23.69	23.72
9	24.36	25.12	25.16	25.03	24.87	.....	23.51	23.63	23.60
10	24.44	25.13	25.14	24.93	24.91	25.20	23.66	23.63	23.58
11	24.63	24.99	25.07	24.94	24.92	25.15	23.94	23.66	23.64
12	24.78	24.78	25.08	24.79	24.95	25.11	24.11	23.68	23.50
13	24.88	24.89	25.06	24.78	25.00	25.04	24.16	23.71	23.30
14	24.88	24.86	25.04	25.08	25.01	25.03	24.16	23.72	23.06
15	24.90	24.74	25.01	25.03	25.04	24.98	24.08	23.66	23.58
16	24.89	24.95	25.03	24.83	25.08	24.91	23.99	23.62	23.64
17	24.87	25.00	25.03	25.01	25.09	24.90	23.99	23.66	23.70
18	24.79	25.16	24.93	24.92	25.08	24.93	24.00	23.68	23.76
19	24.73	25.12	24.91	24.71	25.08	24.87	23.96	23.66	23.73
20	23.70	25.01	25.03	24.82	25.12	24.72	23.89	23.59	23.56
21	24.69	25.01	25.02	24.94	25.16	24.76	23.81	23.59	23.36
22	24.84	25.13	25.01	24.94	25.18	24.88	23.76	23.58	23.38
23	24.74	25.16	24.96	24.88	25.18	24.95	23.64	23.51	22.99
24	24.64	25.04	24.96	24.84	25.19	24.71	23.53	23.44	23.31
25	24.92	24.94	24.98	24.70	25.19	24.18	23.57	23.41	22.91
26	25.05	24.88	25.06	24.69	25.19	23.75	23.65	23.61	22.81
27	25.01	24.88	25.06	24.72	.....	23.66	23.61	23.69	23.00
28	24.89	24.91	24.96	24.78	.....	23.94	23.49	23.78	23.03
29	24.98	.....	25.02	24.71	.....	24.17	23.53	23.85	22.91
30	25.00	.....	25.08	24.65	.....	23.98	23.63	23.79	22.49
31	24.91	.....	25.03	.....	.....	.....	23.68	.....	22.73

Okaloosa County

3. Okaloosa County. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 2 S., R. 24 W. 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 13.05 below lsd, July 16, 1952. Records available: 1946-53. Feb. 14, +1.45; Mar. 26, +0.79; May 11, +0.36; June 18, 10.90; Oct. 22, 8.48; Dec. 3, 1.87.

23. U. S. Army. 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 154.0 feet above msl. Highest water level 92.3 below lsd, Apr. 14, 1948; lowest 102.9 below lsd, Mar. 26, 1953. Records available: 1947-53. Mar. 26, 102.9; May 11, 98.5; Oct. 21, 100.5; Dec. 3, 100.3.

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 121.4 below lsd, May 11, 1953. Records available: 1947-53. Mar. 26, 111.8; May 11, 121.4; June 18, 110.2; July 29, 112.5; Sept. 10, 112.9; Oct. 21, 112.9; Dec. 3, 112.9.

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: 1948-53. Mar. 26, 30.8; May 11, 31.3; July 29, 34.2; Oct. 21, 34.0; Dec. 3, 32.5.

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 111.1 below lsd, June 18, 1953. Records available: 1947-53. Mar. 26, 105.4; May 11, 104.8; June 18, 111.1; July 29, 106.6; Sept. 10, 107.4; Oct. 21, 107.1; Dec. 3, 107.1.

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 52.6 below lsd, Oct. 11, 1952. Records available: 1948-53. Mar. 26, 51.2; May 11, 51.0; June 18, 51.5; July 29, 51.6; Sept. 10, 51.9; Oct. 21, 52.2; Dec. 3, 52.1.

Okeechobee County

2. U. S. Geol. Survey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 35 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18, gravel 16-21. Land-surface datum is 47.80 feet above msl. Highest water level 48.10 above msl, Oct. 9, 1953; lowest 39.51 above msl, June 17-18, 1949. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.15	43.88	43.82	44.08	43.77	42.33	43.37	43.43	46.12	46.40	46.00	45.42
2	44.14	43.88	43.77	44.00	43.72	42.29	43.31	43.39	46.16	46.15	45.86	45.35
3	44.12	44.05	43.72	43.95	43.66	42.24	43.25	43.31	46.16	47.37	45.77	45.30
4	44.09	44.07	43.69	43.89	43.59	42.22	43.17	43.24	45.95	47.00	45.72	45.27
5	44.07	44.05	43.66	43.82	43.53	42.20	43.12	43.66	46.48	46.62	46.02	45.50
6	44.04	44.02	43.62	43.77	43.46	42.53	43.06	43.70	46.10	46.27	45.76	45.35
7	44.03	43.98	43.60	43.74	43.42	43.15	42.96	43.75	46.45	47.30	45.63	45.27
8	44.02	43.98	43.57	43.69	43.40	43.30	42.89	43.85	46.68	47.69	45.62	45.24
9	44.42	43.97	43.54	43.64	43.38	43.33	42.83	43.88	47.05	48.10	45.60	45.20
10	44.49	43.94	43.51	43.60	43.33	43.30	42.76	43.83	46.73	47.48	45.56	45.15
11	44.47	43.91	43.49	43.55	43.29	43.25	42.71	43.94	47.02	47.19	45.69	45.13
12	44.40	43.89	43.52	43.51	43.25	43.19	42.65	43.95	46.55	46.81	46.53	45.12
13	44.35	43.82	43.49	44.60	43.20	43.12	42.57	43.87	46.28	46.43	45.52	45.10
14	44.30	43.80	43.81	44.69	43.16	43.13	42.50	43.82	46.14	46.30	45.50	45.30
15	44.27	43.79	43.85	44.68	43.12	43.03	42.43	43.90	46.58	46.12	45.44	44.98
16	44.21	43.76	43.85	44.63	43.08	42.95	42.37	43.90	46.30	45.98	45.42	44.97
17	44.17	43.74	43.80	44.55	43.03	42.91	42.32	43.85	47.15	45.92	45.37	44.92
18	44.12	43.72	43.75	44.49	42.99	42.85	42.27	43.79	47.47	47.82	45.34	44.89
19	44.09	43.70	43.69	44.42	42.95	42.80	42.21	43.75	47.06	47.50	45.32	44.88
20	44.07	43.69	43.62	44.34	42.90	42.76	42.16	43.85	46.86	47.27	45.30	44.87
21	44.03	43.68	43.57	44.28	42.87	42.71	42.11	44.08	47.18	46.88	45.27	44.86
22	43.98	43.78	44.24	44.20	42.82	42.68	42.08	44.13	47.00	46.51	45.25	44.85
23	43.95	43.94	44.42	44.13	42.77	42.65	42.07	44.19	46.66	46.25	45.35	44.99
24	44.02	43.96	44.59	44.09	42.73	42.77	42.36	44.33	46.36	46.08	45.48	45.03
25	43.95	43.97	44.56	44.04	42.68	42.84	42.40	44.34	46.28	45.95	45.42	44.99

2 --Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	43.91	43.96	44.48	44.00	42.63	43.04	42.75	44.30	47.25	45.83	45.87	44.87
27	43.89	43.92	44.40	44.04	42.58	43.25	43.03	44.28	47.55	47.35	45.92	44.80
28	43.88	43.87	44.34	43.92	42.52	43.35	43.16	44.39	47.18	47.22	45.77	44.78
29	43.87		44.27	43.89	42.48	43.40	43.23	45.76	46.84	46.70	45.56	44.77
30	43.85		44.19	43.85	42.43	43.42	43.33	45.97	46.67	46.33	45.50	44.75
31	43.87		44.12		42.38		43.40	46.00		46.13		44.72

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 of Pleistocene age, diameter 6 inches, depth 22 feet, cased to 19, gravel 14-22. 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, May 20, 1950. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.08	59.07	59.00	59.53	59.65	58.05	59.21	60.17	60.47	60.75	59.85	59.99
2	59.05	59.34	58.94	59.48	59.50	58.00	59.13	60.03	60.10	60.92	59.82	59.93
3	59.20	59.37	58.89	59.45	59.38	57.95	59.05	59.78	61.08	61.30	59.79	59.88
4	59.07	59.25	58.83	59.39	59.28	58.07	59.05	59.65	61.10	61.15	59.76	60.42
5	59.02	59.18	58.77	59.34	59.18	58.50	59.05	59.57	60.89	61.06	60.14	60.12
6	58.97	59.13	59.23	59.29	59.10	58.93	58.95	59.47	60.63	60.86	59.85	59.95
7	58.95	59.09	59.26	59.65	59.71	59.05	58.85	59.41	60.84	61.25	59.76	59.88
8	58.94	59.77	59.14	59.47	59.65	58.93	58.75	59.33	60.69	61.42	59.78	59.86
9	59.75	59.55	59.05	59.34	59.48	58.80	58.70	59.25	60.43	61.72	59.73	59.81
10	59.64	59.46	58.97	59.28	59.33	58.67	58.60	59.23	60.85	61.33	59.71	59.77
11	59.53	59.41	58.93	59.24	59.20	58.59	58.87	59.27	60.42	61.17	59.69	60.25
12	59.45	59.34	59.10	59.22	59.10	58.51	58.66	59.12	60.25	60.99	59.66	59.90
13	59.39	59.27	59.35	60.43	59.02	58.43	58.55	59.05	60.12	60.83	59.88	59.80
14	59.35	59.24	59.40	60.00	58.94	58.33	58.48	59.03	60.80	60.71	59.94	60.34
15	59.31	59.44	59.22	59.87	58.85	58.28	58.40	58.98	60.88	60.58	59.70	59.80
16	59.28	59.27	59.14	59.73	58.77	58.20	58.36	58.92	61.13	60.48	59.66	59.73
17	59.24	59.20	59.05	59.62	58.69	58.13	58.30	58.85	61.16	60.68	59.61	59.68
18	59.20	59.15	58.94	59.58	58.62	58.06	58.25	58.78	61.54	61.35	59.58	59.65
19	59.18	59.11	58.85	59.75	58.55	58.01	58.48	58.73	61.24	61.12	59.57	59.63
20	59.15	59.08	58.77	59.52	58.73	58.16	58.37	58.72	61.42	61.00	59.55	59.62
21	59.12	59.03	59.46	59.43	58.53	58.02	58.27	58.65	61.38	60.80	59.54	59.60
22	59.07	59.00	60.05	59.36	58.69	57.93	58.21	58.60	61.27	60.60	59.52	59.59
23	59.05	59.51	60.67	59.30	58.49	59.00	58.85	59.56	61.15	60.45	59.17	59.78
24	59.50	59.37	60.34	59.23	58.43	59.75	59.76	59.48	60.99	60.32	60.00	59.70
25	59.30	59.28	60.07	59.16	58.37	59.61	59.90	59.58	60.84	60.24	60.93	59.65
26	59.23	59.20	59.92	59.48	58.32	59.75	59.91	59.87	61.03	60.14	60.54	59.56
27	59.18	59.13	59.85	59.33	58.26	60.00	59.62	59.73	61.21	60.30	60.38	59.53
28	59.15	59.05	59.79	59.20	58.23	59.58	59.73	60.69	61.07	60.13	60.27	59.52
29	59.10		59.70	60.03	58.17	59.43	59.55	60.54	60.90	60.00	60.16	59.52
30	59.05		59.63	59.80	58.12	59.31	60.05	60.74	61.05	59.93	60.08	59.50
31	59.11		59.57		58.08		59.85	60.35		59.90		59.66

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 of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 17, gravel 14-21. 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: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.11	27.52	27.24	27.95	27.70	26.45	27.72	28.07	28.76	28.68	27.84	27.47
2	27.07	28.73	27.18	27.95	27.62	26.41	27.63	27.90	29.43	28.40	27.82	27.43
3	27.05	28.43	27.15	27.94	27.55	26.37	27.57	27.79	29.90	29.70	27.98	27.40
4	27.01	28.22	27.10	27.87	27.47	26.36	27.54	27.72	29.45	29.38	27.80	27.45
5	27.01	28.07	27.05	27.83	27.40	27.39	28.19	27.82	29.09	29.14	27.86	27.65
6	27.01	27.96	27.00	27.80	27.62	27.70	27.88	27.67	28.76	28.73	27.77	27.52
7	27.00	27.90	26.95	28.80	28.87	27.79	27.65	27.63	29.45	29.36	27.74	27.45
8	27.00	28.42	26.90	28.38	28.87	27.57	27.52	27.54	29.69	29.70	27.72	27.40
9	28.13	27.96	26.85	28.14	28.32	27.40	28.37	27.45	29.82	30.03	27.73	27.37
10	28.00	27.85	26.80	28.06	28.03	27.26	28.05	27.42	29.37	29.30	27.81	27.35

4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	27.89	27.80	26.77	29.24	27.88	27.17	27.86	27.48	29.14	28.97	27.86	27.45
12	27.79	27.75	27.15	28.70	27.78	27.07	27.68	27.32	28.71	28.56	27.71	27.38
13	27.74	27.74	29.90	29.62	27.70	27.58	27.53	27.25	29.11	28.35	27.75	27.35
14	27.68	27.70	29.13	28.66	27.63	27.60	27.44	27.22	28.41	28.22	27.68	27.60
15	27.64	28.11	28.70	28.41	27.55	27.84	27.37	27.19	28.97	28.15	27.63	27.35
16	27.59	27.83	28.50	28.25	27.46	27.70	27.30	27.15	29.26	28.08	27.61	27.32
17	27.55	27.72	28.30	28.10	27.38	27.55	27.28	27.09	29.69	29.54	27.58	27.28
18	27.50	27.64	28.17	28.40	27.30	27.43	27.25	27.07	29.72	29.87	27.55	27.25
19	27.48	27.59	28.11	28.14	27.28	27.90	27.20	28.02	29.15	29.29	27.54	27.24
20	27.46	27.56	28.04	27.98	27.19	27.78	27.13	28.07	29.71	28.91	27.52	27.23
21	27.62	27.52	29.22	27.92	27.14	27.61	27.06	28.35	29.32	28.60	27.48	27.27
22	27.50	27.49	29.51	27.87	27.07	27.49	27.20	28.90	29.19	28.40	27.47	27.25
23	27.45	27.62	29.74	27.82	27.00	27.44	27.80	29.53	28.85	28.25	27.45	27.52
24	28.08	27.53	29.17	27.76	26.93	28.57	27.85	28.92	28.54	28.16	27.71	27.53
25	27.79	27.46	28.64	27.71	26.85	28.98	27.66	29.41	29.31	28.10	28.27	27.47
26	27.69	27.40	28.38	28.69	26.78	28.61	28.68	28.51	28.88	28.02	27.90	27.35
27	27.64	27.35	28.25	28.23	26.71	28.89	28.29	29.42	29.50	28.00	27.75	27.27
28	27.60	27.29	28.19	27.98	26.65	28.30	28.47	29.95	28.97	28.20	27.65	27.25
29	27.55		28.07	27.93	26.59	28.04	29.20	29.48	28.60	27.94	27.58	27.23
30	27.51		28.02	27.81	26.55	27.84	28.67	29.64	29.24	27.87	27.52	27.20
31	27.56		27.98		26.50		28.31	29.19		27.86		27.18

Orange County

47. Orange Co. 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 8.90 below lsd, June 3, 1953. Records available: 1930-33, 1943-53.

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	-7.51	-7.66	-7.80	-8.05	-7.33	-8.66	-7.11	-6.58	....	+4.67	+0.57	....
2	7.44	7.60	7.84	8.05	7.43	8.72	7.24	6.70	....	4.60	.42	....
3	7.43	7.18	7.87	8.07	7.45	8.77	7.37	6.80	....	4.50	.32	....
4	7.52	7.27	7.86	8.12	7.50	8.78	7.47	6.85	....	4.57	.27	....
5	7.57	7.38	7.93	8.15	7.54	8.73	7.53	6.38	....	4.60	.27	....
6	7.63	7.39	7.98	8.10	7.55	8.60	7.56	5.94	....	4.63	.28	....
7	7.66	7.38	7.99	7.97	7.52	8.47	7.60	6.17	....	4.57	....	....
8	7.62	7.28	8.00	7.93	7.45	8.42	7.65	6.33	....	4.49	....	....
9	7.47	7.36	8.05	7.95	7.46	8.39	7.68	6.03	....	4.63	....	....
10	7.45	7.40	8.07	7.96	7.50	8.37	7.69	4.13	....	4.65	....	....
11	7.51	7.40	8.10	8.00	7.52	8.35	7.66	3.83	....	4.55	....	....
12	7.55	7.37	8.16	7.95	7.57	8.37	7.67	4.30	....	4.44	....	....
13	7.54	7.44	8.25	6.52	7.64	8.36	7.72	4.74	....	4.28	....	....
14	7.55	7.48	8.27	5.98	7.67	8.34	7.79	5.08	....	4.08	....	....
15	7.57	7.45	8.21	6.52	7.72	8.34	7.83	5.02	....	4.74	....	....
16	7.59	7.50	8.26	6.63	7.75	8.28	7.77	4.87	....	2.65	....	....
17	7.62	7.52	8.32	6.96	7.79	8.17	7.75	4.52	....	2.50	....	....
18	7.62	7.59	8.37	7.06	7.81	8.12	7.73	2.34	....	2.42	.59	+1.02
19	7.60	7.61	8.38	7.09	7.85	8.16	7.77	.84	....	2.63	.66	.87
20	7.62	7.61	8.47	6.89	7.97	8.19	7.79	.60	....	2.55	.70	.76
21	7.63	7.67	8.43	6.96	8.12	8.23	7.73	1.48	....	2.44	.78	.67
22	7.69	7.71	8.06	7.07	8.21	8.12	7.73	2.28	....	2.15	.81	.54
23	7.68	7.72	7.75	7.15	8.22	7.76	7.71	2.64	....	1.98	.72	1.94
24	7.57	7.69	7.72	7.22	8.20	5.83	7.66	2.77	....	1.81	.34	3.29
25	7.67	7.70	7.79	7.27	8.32	6.22	7.60	....	....	1.57	....	3.10
26	7.70	7.71	7.86	7.25	8.40	6.21	7.48	....	....	1.35	....	2.39
27	7.68	7.73	7.89	7.18	8.44	6.27	7.18	....	....	1.20	....	2.00
28	7.65	7.78	7.89	7.21	8.57	6.47	6.84	....	....	1.14	....	1.75
29	7.68	7.80	7.95	7.23	8.63	6.73	6.58	....	....	1.08	....	1.58
30	7.72		8.01	7.25	8.65	6.95	6.07	....	+4.75	.92	....	1.42
31	7.69		8.04		8.52		6.32	....		.73		1.22

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 6.66 below lsd, Apr. 9, 1953. Records available: 1948-53.

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	-5.85	-6.13	-6.30	-6.63	....	-6.46	....	-5.15	-2.05	....	....	....
2	5.86	6.13	6.31	....	....	6.49	....	5.14	1.88	....	....	....
3	5.88	6.09	6.33	....	....	6.51	....	5.13	1.73	....	....	....
4	5.89	6.10	6.34	....	....	6.54	....	5.14	1.51	....	....	....
5	5.90	6.10	6.36	....	....	6.50	....	5.08	1.47	....	....	+3.52
6	5.92	6.10	6.39	....	....	6.48	....	5.02	1.40	....	....	3.66
7	5.94	6.09	6.40	....	....	6.45	....	5.01	1.07	....	....	3.67
8	5.96	6.04	6.40	6.61	....	6.53	....	5.01	.86	....	....	3.68
9	5.85	6.10	6.43	6.64	....	6.56	....	4.92	.70	....	....	3.69
10	5.88	6.11	6.44	....	....	6.58	....	4.85	.56	....	....	....
11	5.94	6.12	6.46	....	....	6.60	....	4.81	.42	....	....	....
12	5.98	6.12	6.48	....	....	6.60	....	4.80	.30	....	....	....
13	5.99	6.13	6.50	6.24	5.81	....	....	4.78	.20	....	....	....
14	5.99	6.15	6.50	6.18	5.84	....	....	4.65	-.10	....	....	3.62
15	6.00	6.12	6.52	5.97	5.87	....	....	4.65	.00	....	....	3.60
16	6.01	6.16	6.54	5.90	5.90	....	....	4.58	+.10	....	....	3.57
17	6.01	6.20	6.58	5.89	5.93	....	....	4.50	.28	....	+2.82	3.52
18	6.03	6.21	6.60	5.88	5.98	....	-5.45	4.30	.54	....	2.79	3.49
19	6.04	6.21	6.60	5.85	6.01	....	5.48	4.15	.68	....	2.74	3.45
20	6.06	6.21	6.62	5.81	6.04	....	5.47	3.95	.90	....	2.71	3.43
21	6.07	6.22	6.58	5.80	6.09	....	5.45	3.85	1.03	....	2.67	3.42
22	6.09	6.23	6.47	5.77	6.11	....	5.52	3.75	1.14	....	2.62	3.40
23	6.10	6.23	6.47	5.75	6.15	....	5.55	3.71	1.35	....	....	3.51
24	6.04	6.24	6.49	5.74	6.20	....	5.55	3.64	1.48	....	2.70	3.60
25	6.10	6.26	6.50	....	6.22	....	5.52	3.45	1.56	....	3.07	3.64
26	6.12	6.28	6.52	....	6.25	....	5.46	3.24	1.60	....	3.13	....
27	6.13	6.29	6.55	....	6.28	....	5.45	3.00	....	....	3.19	....
28	6.14	6.30	6.57	....	6.31	....	5.44	2.79	....	....	3.21	....
29	6.15	....	6.60	....	6.37	....	5.35	2.50	....	....	3.25	....
30	6.17	....	6.60	....	6.40	....	5.19	2.40	....	....	3.30	....
31	6.18	....	6.61	....	6.42	....	5.15	2.22	....	....	....	3.64

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 39.35 below lsd, June 3, 1953. Records available: 1948-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.10	38.39	38.67	39.03	....	39.33	39.21	38.35	38.03	34.94	32.51	31.93
2	38.10	38.41	38.68	39.04	....	39.34	39.20	38.33	37.99	34.81	32.40	31.93
3	38.11	38.42	38.70	39.05	....	39.35	39.17	38.33	37.95	34.68	32.36	31.90
4	38.12	38.43	38.70	39.05	....	....	39.15	....	37.90	34.65	32.33	31.89
5	38.14	38.44	38.71	39.06	....	....	39.15	....	37.86	34.51	32.30	31.88
6	38.15	38.45	38.73	39.07	....	....	39.13	....	37.82	34.38	32.28	31.86
7	38.15	38.45	38.74	39.09	....	....	39.10	....	37.77	34.27	32.27	31.86
8	38.16	38.46	38.75	39.10	....	....	39.08	....	37.72	34.14	32.25	31.85
9	38.17	38.47	38.76	39.10	....	....	39.05	38.27	37.66	33.99	32.24	31.84
10	38.18	38.48	38.77	39.11	....	....	39.00	38.27	37.60	33.89	32.22	31.83
11	38.19	38.49	38.79	39.12	....	....	38.95	38.26	37.52	33.78	32.20	31.82
12	38.20	38.50	38.80	39.13	....	....	38.90	38.25	37.42	33.68	32.19	31.80
13	38.21	38.51	38.81	39.14	....	....	38.86	38.24	37.40	33.60	32.17	31.78
14	38.23	38.52	38.82	39.15	....	....	38.82	38.23	37.20	33.50	32.15	31.78
15	38.24	38.53	38.83	39.16	....	....	38.77	38.22	37.13	33.41	32.14	31.83
16	38.25	38.54	38.86	39.17	....	....	38.74	38.22	36.95	33.33	32.09	31.82
17	38.25	38.55	38.87	39.19	....	....	38.70	38.21	36.83	33.27	32.08	31.81
18	38.26	38.56	38.88	39.20	....	....	38.65	38.20	36.70	33.20	32.06	31.80
19	38.27	38.58	38.89	39.20	....	....	38.63	38.18	36.58	33.13	32.05	31.78
20	38.28	38.59	38.90	39.21	....	....	38.60	38.18	36.46	33.04	32.03	31.74
21	38.29	38.60	38.90	39.21	....	....	38.57	38.17	36.34	32.98	32.03	31.71
22	38.30	38.60	38.91	39.23	....	....	38.53	38.16	36.22	32.92	32.01	31.70
23	38.30	38.61	38.92	39.24	....	....	38.51	38.15	36.08	32.84	32.00	....
24	38.30	38.62	38.93	39.25	....	....	38.48	38.15	35.87	32.78	31.97	31.71
25	38.31	38.64	38.94	....	....	....	38.47	38.13	35.80	32.74	31.98	31.70

47-C--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	38.32	38.65	38.95	.....	.....	.....	38.46	38.12	35.65	32.70	32.00	31.69
27	38.34	38.65	38.46	.....	.....	.....	38.43	38.11	35.47	32.65	32.00	31.68
28	38.35	38.66	38.98	.....	.....	.....	38.42	38.10	35.38	32.61	31.99	31.67
29	38.36		38.99	.....	.....	.....	38.40	38.09	35.20	32.58	31.98	31.67
30	38.37		39.00	.....	.....	.....	38.38	38.08	35.07	32.55	31.95	31.66
31	38.38		39.01	.....	.....	.....	38.37	38.05		32.53		31.67

Osceola County

171. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 25 S., R. 34 E. Jetted observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 19 feet, cased to 13, gravel 11-19. Land-surface datum is 31.60 feet above msl. Highest water level 32.75 above msl, Sept. 7, 1953; lowest 28.28 above msl, July 4, 1952. Records available: 1950-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.76	31.14	31.03	31.16	30.80	28.83	28.74	32.40	31.94	.....	.....	31.49
2	30.75	31.39	30.97	31.12	30.69	28.78	28.65	31.85	32.06	.....	31.17	31.45
3	30.65	31.36	30.94	31.08	30.57	28.72	28.58	31.70	31.87	.....	31.13	31.40
4	30.58	31.33	30.88	31.00	30.43	28.90	28.52	31.61	31.77	.....	31.10	31.37
5	30.58	31.32	30.82	30.94	30.32	29.01	28.47	31.55	31.65	.....	31.12	31.48
6	30.56	31.29	30.80	30.88	30.75	29.33	28.42	31.47	31.58	.....	31.05	31.39
7	30.55	31.65	30.77	31.30	31.05	29.35	28.37	31.47	32.75	.....	31.01	31.38
8	31.04	31.85	30.67	31.19	31.00	29.15	28.83	31.36	32.38	.....	30.99	31.35
9	31.35	31.78	30.58	31.15	30.82	29.01	29.20	31.34	32.04	.....	30.98	31.35
10	31.34	31.69	30.52	31.10	30.65	28.95	29.63	31.29	32.10	.....	30.96	31.31
11	31.31	31.60	30.53	31.59	30.48	28.85	29.60	31.20	31.99	.....	31.10	31.28
12	31.27	31.55	30.45	32.00	30.32	28.76	29.50	31.12	31.87	.....	31.00	31.25
13	31.21	31.44	31.74	32.14	30.20	28.68	29.37	31.04	31.72	.....	31.25	31.24
14	31.19	31.42	31.67	31.90	30.10	28.65	29.25	31.00	31.62	.....	31.24	31.34
15	31.17	31.40	31.56	31.76	30.03	28.60	29.17	30.96	31.59	.....	31.22	31.17
16	31.15	31.35	31.46	31.64	29.92	28.57	30.03	30.94	.....	.....	31.20	31.16
17	31.12	31.30	31.37	31.56	29.89	28.53	29.78	30.89	.....	.....	31.13	31.13
18	31.08	31.25	31.30	31.47	29.80	28.48	29.93	31.38	.....	.....	31.07	31.10
19	31.06	31.25	31.23	31.42	29.72	29.37	29.72	32.30	.....	.....	31.03	31.09
20	31.45	31.24	31.16	31.33	29.63	29.35	29.61	32.03	.....	.....	31.00	31.09
21	31.44	31.19	31.41	31.23	29.58	29.27	29.48	31.90	.....	.....	30.97	31.33
22	31.42	31.21	31.60	31.17	29.50	29.21	29.88	32.20	.....	.....	30.95	31.28
23	31.42	31.19	31.90	31.10	29.42	29.29	30.38	32.23	.....	.....	30.95	31.54
24	31.50	31.25	32.00	31.02	29.35	29.17	30.65	31.93	.....	.....	31.80	31.55
25	31.35	31.22	31.77	30.96	29.27	29.10	31.10	31.80	.....	.....	32.43	31.65
26	31.32	31.18	31.65	31.26	29.20	29.27	31.48	31.80	.....	.....	31.98	31.58
27	31.29	31.13	31.57	31.15	29.12	29.15	31.88	31.93	.....	.....	31.81	31.57
28	31.26	31.07	31.47	31.07	29.06	29.02	32.02	32.33	.....	.....	31.70	31.52
29	31.20		31.37	31.00	29.00	28.92	31.82	32.37	.....	.....	31.64	31.45
30	31.18		31.32	30.90	28.94	28.83	31.65	32.00	.....	.....	31.57	31.42
31	31.18		31.23		28.88		31.54	32.05	.....	.....		31.37

179. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 27 S., R. 34 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 18 feet, cased to 18, gravel 13-18. Land-surface datum is 49 feet above msl. Highest water level 48.26 above msl, Oct. 9, 1953; lowest 43.24 above msl, June 8, 1949. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.46	46.11	e45.92	45.50	46.20	44.54	45.27	46.84	47.00	.....	46.49	e46.80
2	45.45	46.08	e45.87	45.46	46.08	44.52	45.19	46.80	47.34	.....	46.47	e46.78
3	45.42	46.64	e45.82	45.43	45.98	44.48	45.12	46.77	47.05	.....	46.43	e46.76
4	45.38	46.65	e45.77	45.36	45.88	44.52	45.05	46.75	46.91	.....	46.42	e46.74
5	45.36	46.60	e45.72	45.32	45.80	44.51	45.02	46.87	47.91	47.33	46.43	e46.84
6	45.34	46.49	e45.67	45.28	45.77	44.92	44.94	46.77	47.92	47.10	46.40	e46.82
7	45.32	46.40	e45.62	46.40	45.71	45.00	44.88	46.82	47.72	46.99	46.35	e46.80
8	45.51	47.13	e45.57	46.25	45.70	45.00	44.82	46.74	47.97	47.43	46.35	e46.78
9	46.26	46.87	e45.52	46.07	45.65	44.97	44.78	46.95	47.07	48.26	46.34	e46.76
10	46.39	46.82	e45.48	45.94	45.57	44.93	46.10	46.86	46.95	47.24	46.70	e46.73

179--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	46.41	46.80	e45.45	45.87	45.50	45.10	46.42	46.78	.....	47.07	46.72	e46.81
12	46.40	46.78	e45.43	45.83	45.45	45.13	46.34	46.71	.....	46.96	e46.68	46.78
13	46.28	46.61	e45.40	46.58	45.40	45.14	46.69	46.67	.....	46.87	e46.63	46.76
14	46.22	46.55	e45.80	46.52	45.33	45.10	46.63	46.64	.....	46.83	e46.58	46.85
15	46.17	46.72	e45.77	46.40	45.26	45.08	46.83	46.58	.....	46.80	e46.53	46.74
16	46.11	46.65	e45.74	46.22	45.22	45.02	46.74	46.94	.....	46.78	e46.48	46.70
17	46.07	46.60	e45.71	46.10	45.17	44.96	46.63	47.19	.....	46.76	e46.43	46.67
18	46.02	46.43	e45.68	46.00	45.11	44.88	46.55	47.59	.....	47.15	e46.38	46.64
19	45.96	46.36	e45.65	45.93	45.08	44.82	46.42	47.13	47.50	46.95	e46.33	46.61
20	45.94	46.36	e45.62	45.83	45.03	44.76	46.31	47.41	47.60	46.88	e46.28	46.60
21	46.67	e46.32	e45.60	45.77	45.01	44.70	46.17	47.50	47.23	46.83	e46.23	46.84
22	46.67	e46.27	e45.80	45.70	44.98	44.95	47.23	47.62	47.07	46.78	e46.18	46.77
23	46.66	e46.22	45.70	45.65	44.95	45.97	47.36	48.00	46.98	46.75	e46.13	46.97
24	46.72	e46.17	46.28	45.58	44.88	46.07	47.51	47.15	46.95	46.73	e46.95	46.88
25	46.65	e46.12	46.03	45.54	44.83	46.00	47.82	.....	46.85	46.72	e47.87	46.84
26	46.56	e46.07	45.92	46.58	44.78	45.81	47.15	.....	46.83	46.69	e47.37	46.78
27	46.45	e46.02	45.83	46.59	44.73	45.67	47.70	47.39	.....	46.68	e46.87	46.76
28	46.35	e45.97	45.78	46.47	44.70	45.55	47.14	47.54	.....	46.67	e46.86	46.75
29	46.26		45.70	46.40	44.65	45.45	47.00	47.16	.....	46.65	e46.84	46.74
30	46.20		45.64	46.35	44.62	45.36	46.93	47.14	.....	46.57	e46.82	46.72
31	46.16		45.56		44.59		46.85	47.05		46.53		46.70

e Estimated.

180. U. S. Geol. Survey. Holopaw. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 27 S., R. 32 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 12 feet, cased to 10, gravel 7-12. Land-surface datum is 74.50 feet above msl. Highest water level 74.45 above msl, Oct. 9, 1953; lowest 69.55 above msl, June 20, 1950. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.14	72.77	72.30	72.30	72.25	.....	.....	.....	73.48	73.62	72.64	73.01
2	72.08	73.83	72.25	72.27	72.12	.....	.....	.....	73.87	74.02	72.58	72.93
3	71.96	73.57	72.21	72.24	71.99	.....	.....	.....	74.19	74.18	72.52	72.87
4	71.85	73.62	72.14	72.13	71.88	71.69	.....	.....	73.73	73.92	72.48	73.50
5	71.82	73.27	72.07	72.06	71.78	.....	.....	.....	73.52	73.88	72.52	73.60
6	71.77	73.08	72.05	71.98	71.71	.....	.....	.....	73.33	73.77	72.42	73.20
7	71.76	74.24	72.02	73.83	72.12	.....	.....	.....	74.29	73.67	72.37	73.60
8	72.44	73.84	71.94	73.40	72.14	.....	.....	.....	73.89	74.37	72.36	73.29
9	73.32	73.59	71.87	73.10	71.89	.....	.....	.....	73.76	74.45	72.34	73.11
10	73.05	73.48	71.82	72.85	71.70	.....	.....	.....	74.05	73.88	72.63	72.96
11	72.85	73.42	71.77	72.73	71.60	.....	.....	.....	73.81	73.70	72.82	73.05
12	72.69	73.23	73.47	74.05	71.53	.....	.....	.....	73.58	73.55	72.55	72.90
13	72.61	72.94	73.77	74.17	71.47	.....	.....	.....	73.45	73.37	72.98	72.85
14	72.56	72.87	73.42	73.50	71.40	.....	.....	.....	73.36	73.13	72.82	73.61
15	72.52	73.67	73.11	73.39	71.35	.....	.....	.....	73.86	72.94	72.60	72.82
16	72.59	72.96	72.90	72.97	71.29	.....	.....	.....	74.08	72.81	72.45	72.71
17	72.44	72.81	72.70	72.74	71.24	.....	.....	.....	73.92	72.73	72.32	72.62
18	72.38	72.67	72.57	72.65	71.18	.....	.....	.....	74.04	74.04	72.28	72.57
19	72.32	72.64	72.49	72.56	71.10	.....	.....	.....	74.21	73.73	72.25	72.55
20	74.00	72.65	72.39	72.40	71.05	.....	.....	.....	74.14	73.58	72.21	72.57
21	73.66	72.57	74.03	72.31	.....	.....	.....	.....	73.80	73.50	72.35	72.35
22	73.52	73.17	73.87	72.25	.....	.....	.....	.....	73.68	73.32	72.21	73.04
23	73.75	73.20	74.17	72.17	.....	.....	.....	.....	73.53	73.07	72.20	73.96
24	73.93	72.84	73.77	72.07	.....	.....	.....	.....	73.90	72.90	74.00	73.70
25	73.21	72.64	73.40	71.99	.....	.....	.....	.....	73.59	72.80	74.25	73.93
26	73.05	72.50	73.06	73.25	.....	.....	.....	.....	73.98	72.70	73.69	73.62
27	72.98	72.42	72.85	72.82	.....	.....	.....	74.13	74.32	73.07	73.57	73.53
28	72.90	72.33	72.73	72.58	.....	.....	.....	73.93	73.77	73.68	73.46	73.48
29	72.79		72.56	72.52	.....	.....	.....	73.78	73.62	73.17	73.30	73.40
30	72.74		72.48	72.35	.....	.....	.....	73.68	73.89	72.87	73.15	73.27
31	72.92		72.37	.....	.....	.....	.....	73.83		72.73		73.06

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 of Pleistocene age, diameter 6 inches, depth 15 feet, cased to 14, gravel 11-15. Land-surface datum is 79 feet above msl. Highest water level 79.53 above msl, Sept. 27, 1953; lowest 73.50 above msl, June 9, 1949. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	75.47	75.90	75.77	76.39	76.35	75.74	75.70	76.20	78.00	79.00	e77.27	77.64
2	75.45	76.08	75.73	76.35	76.30	75.70	75.66	76.13	77.68	78.82	e77.23	77.57
3	75.43	76.12	75.70	76.30	76.25	75.63	75.62	76.05	78.71	79.30	e77.18	77.51
4	75.40	76.10	75.67	76.25	76.19	75.74	75.57	75.98	78.55	78.94	e77.13	77.46
5	75.38	76.05	75.65	76.20	76.13	75.95	75.53	76.38	78.39	78.74	e77.09	78.07
6	75.36	76.00	75.62	76.15	76.10	76.33	75.48	76.40	78.26	78.62	e77.05	77.70
7	75.34	75.96	75.61	76.78	76.93	76.59	75.43	76.28	79.03	78.47	e77.00	77.77
8	76.07	76.65	75.58	76.67	76.89	76.61	75.38	76.18	78.96	79.11	e76.96	77.55
9	76.37	76.58	75.55	76.57	76.77	76.50	75.34	76.27	79.11	79.42	e76.92	77.47
10	76.40	76.50	75.52	76.48	76.65	76.45	75.30	76.23	78.93	78.97	e76.88	77.40
11	76.33	76.44	75.50	76.40	76.55	76.35	.....	76.15	78.80	78.76	e77.13	77.50
12	76.25	76.37	75.47	77.44	76.46	76.28	.....	76.05	78.70	78.60	e76.90	77.34
13	76.19	76.30	75.96	77.95	76.38	76.36	.....	75.97	78.62	78.41	e77.18	77.30
14	76.12	76.25	75.95	77.34	76.30	76.22	.....	75.91	78.74	78.32	e77.12	77.77
15	76.07	76.23	75.90	77.23	76.22	76.16	.....	75.85	78.60	78.23	e77.06	77.28
16	76.02	76.17	75.84	77.08	76.15	76.10	.....	75.81	79.15	78.15	e77.00	77.22
17	75.97	76.11	75.77	76.97	76.09	76.05	.....	76.60	79.03	78.05	e76.94	77.15
18	75.92	76.07	75.69	76.90	76.04	75.98	.....	77.22	79.20	78.56	e76.87	77.10
19	75.88	76.02	75.63	76.96	75.99	75.94	.....	77.32	79.03	78.23	e76.80	77.07
20	76.23	75.99	75.56	76.79	75.94	75.89	.....	77.35	78.98	78.10	76.75	77.05
21	76.33	75.95	75.64	76.73	76.43	75.85	75.81	77.18	79.18	77.97	76.72	77.28
22	76.30	75.95	76.83	76.67	76.53	75.97	75.89	77.62	79.42	77.80	76.70	77.05
23	76.26	75.99	77.55	76.62	76.43	76.00	75.93	77.38	79.12	77.70	76.67	77.67
24	76.38	75.95	77.15	76.58	76.32	75.93	76.48	77.21	79.05	77.63	76.65	77.48
25	76.29	75.91	76.99	76.54	76.21	75.98	76.52	77.60	78.91	77.55	78.73	77.75
26	76.22	75.87	76.85	76.74	76.12	76.03	76.55	77.68	79.07	77.49	78.28	77.47
27	76.15	75.84	76.75	76.57	76.02	75.96	76.57	77.46	79.53	77.45	78.15	77.37
28	76.10	75.80	76.65	76.50	75.94	75.88	76.52	77.95	79.10	77.73	78.03	77.30
29	76.04		76.57	76.45	75.89	75.80	76.42	77.67	79.35	77.38	77.88	77.23
30	75.98		76.50	76.40	75.84	75.75	76.33	77.90	79.37	77.30	77.74	77.15
31	75.95		76.44		75.78		76.26	77.66		.....		77.07

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 of Pleistocene age, diameter 6 inches, depth 23 feet, cased to 16, gravel 14-23. Land-surface datum is 62 feet above msl. Highest water level 61.73 above msl, Oct. 18, 1952; lowest 55.94 above msl, Aug. 13-15, 1950. Records available: 1949-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	58.93	59.35	59.08	59.33	59.68	58.13	59.31	60.45	61.13	61.52	.....	60.50
2	58.90	59.80	59.02	59.28	59.57	58.10	59.18	60.31	60.89	61.28	.....	60.31
3	59.19	60.32	58.97	59.25	59.47	58.08	59.06	60.83	60.76	61.45	.....	60.22
4	59.17	60.20	58.93	59.18	59.36	58.20	58.96	61.12	61.50	61.45	.....	60.19
5	59.09	60.03	58.87	59.11	59.26	58.40	58.90	61.53	61.30	61.40	.....	61.11
6	59.03	59.90	58.83	59.05	59.18	59.65	59.86	61.31	61.13	61.24	59.78	60.80
7	58.97	59.84	58.81	60.00	59.90	60.08	59.57	61.11	61.48	61.12	59.73	60.72
8	59.57	60.43	58.78	60.05	60.47	59.85	59.39	60.96	61.50	61.57	59.71	60.60
9	60.60	60.17	58.73	59.80	60.32	59.62	59.99	61.48	61.38	61.67	59.70	60.46
10	60.66	60.02	58.67	59.65	60.03	59.45	59.79	61.47	61.50	61.43	59.77	60.34
11	60.45	59.90	58.65	59.53	59.78	59.32	59.67	61.27	61.39	61.23	59.90	60.55
12	60.24	59.83	58.63	59.45	59.60	59.22	59.50	61.02	61.18	61.07	59.82	60.40
13	60.13	59.72	58.66	60.60	59.47	59.15	59.33	60.71	60.98	60.85	59.73	60.30
14	60.04	59.63	58.66	60.63	59.37	59.06	59.22	60.48	60.78	60.66	59.70	61.02
15	59.97	59.90	58.62	60.23	59.27	59.36	59.10	60.35	61.42	60.48	59.65	60.47
16	59.89	59.77	58.60	60.05	59.18	59.25	58.98	60.51	61.48	60.30	59.60	60.28
17	59.82	59.64	58.56	59.83	59.08	59.08	58.87	60.98	61.52	60.16	59.56	60.10
18	59.77	59.53	58.50	59.69	58.98	58.98	58.81	61.33	61.45	61.30	59.53	60.00
19	59.72	59.45	58.46	60.23	58.90	59.13	58.72	61.37	61.53	61.41	59.51	59.95
20	59.70	59.42	58.42	60.10	58.83	59.05	58.66	61.03	61.45	61.23	59.67	59.94

182--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	59.65	59.37	58.75	59.81	58.77	59.15	58.83	60.89	61.54	61.02	59.75	59.92
22	59.59	59.43	59.70	59.64	58.68	59.81	59.13	61.44	61.43	60.83	59.68	59.89
23	59.55	59.45	60.40	59.55	58.62	60.00	59.64	61.47	61.27	60.63	59.76	60.93
24	59.90	59.40	60.63	59.47	58.56	59.87	59.86	61.28	61.08	60.43	59.95	60.84
25	59.67	59.32	60.22	59.40	58.47	59.74	59.91	61.56	60.87	.....	61.49	60.78
26	59.54	59.25	59.94	59.90	58.43	60.11	59.83	61.49	60.75	.....	61.35	60.48
27	59.49	59.20	59.77	60.60	58.37	60.23	59.66	61.43	61.49	.....	61.18	60.30
28	59.45	59.13	59.66	60.30	58.32	59.89	61.13	61.35	61.41	.....	61.00	60.23
29	59.41		59.55	60.02	58.26	59.65	61.15	61.55	61.25	.....	60.81	60.17
30	59.37		59.47	59.85	58.22	59.47	60.91	61.38	61.50	.....	60.64	60.08
31	59.36		59.40		58.17		60.71	61.24		.....		59.98

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 of Pleistocene age, diameter 6 inches, depth 27 feet, cased to 22, gravel 16-27. Land-surface datum is 73 feet above msl. Highest water level 73.43 above msl, Oct. 9, 1953; lowest 68.47 above msl, May 17, 20, 1950. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.79	71.15	71.21	70.90	71.03	69.67	70.95	72.90	72.72	73.05	71.84	72.15
2	70.77	71.95	71.14	70.85	70.92	69.63	70.87	72.60	73.05	72.77	71.77	72.07
3	71.25	71.95	71.08	70.80	70.83	70.02	70.80	72.32	73.30	73.22	71.70	72.01
4	71.16	71.95	71.04	70.75	70.75	70.12	70.72	72.87	73.15	73.18	71.65	73.12
5	71.08	71.87	70.97	70.69	70.67	70.32	70.68	73.23	73.03	73.09	71.67	72.92
6	71.02	71.75	70.92	70.63	70.60	71.30	71.12	73.03	72.81	72.80	71.58	72.65
7	70.95	71.69	70.89	71.00	70.81	72.08	70.97	72.68	73.21	72.57	71.50	72.55
8	70.93	72.34	70.84	70.97	70.93	71.88	70.85	73.20	73.14	73.23	71.53	72.44
9	72.67	72.20	70.77	70.86	70.95	71.62	71.54	73.05	73.07	73.43	71.48	72.35
10	72.50	72.07	70.72	70.73	70.73	71.48	72.07	73.12	72.98	73.12	71.62	72.21
11	72.33	72.00	70.69	70.64	70.58	71.38	72.02	72.91	72.83	72.73	72.46	72.12
12	72.15	71.87	70.66	70.57	70.50	72.30	71.85	72.53	72.60	72.47	71.97	72.04
13	72.02	71.70	70.88	71.70	70.42	72.12	71.63	72.24	72.39	72.27	71.83	71.96
14	71.95	71.61	70.85	71.50	70.36	71.90	72.38	72.12	72.29	72.15	71.80	72.96
15	71.85	72.41	70.74	71.33	70.32	71.72	72.31	72.00	73.13	72.01	71.58	72.05
16	71.80	71.74	70.65	71.18	70.28	71.55	72.13	71.85	73.15	71.91	71.50	71.89
17	71.74	71.58	70.59	71.05	70.24	71.40	71.87	71.75	73.23	71.99	71.42	71.77
18	71.67	71.45	70.54	70.97	70.19	71.90	71.65	73.16	73.17	73.22	71.37	71.69
19	71.60	71.39	70.50	71.01	70.15	71.75	71.47	73.00	73.22	73.02	71.48	71.65
20	71.55	71.42	70.46	70.90	70.10	71.57	71.32	72.81	73.23	72.66	71.34	71.65
21	71.50	71.35	71.06	70.80	70.08	71.48	71.20	73.18	73.20	72.46	71.30	71.84
22	71.43	72.27	71.75	70.70	70.05	71.44	72.95	73.22	73.13	72.64	71.27	71.62
23	71.38	72.13	72.19	70.63	70.02	71.95	73.05	73.07	72.90	72.10	71.53	72.76
24	72.11	71.95	72.04	70.55	69.97	71.84	73.15	72.93	72.48	72.00	73.20	72.42
25	71.57	71.72	71.75	71.05	69.92	71.65	73.09	72.83	72.70	71.98	73.38	72.88
26	71.32	71.54	71.47	71.97	69.88	71.50	73.00	73.20	72.30	71.90	72.85	72.35
27	71.28	71.42	71.30	71.67	69.85	71.62	73.18	73.10	73.27	72.93	72.61	72.17
28	71.25	71.30	71.20	71.42	69.80	71.30	73.09	73.19	73.03	72.75	72.45	72.14
29	71.20		71.12	71.30	69.76	71.14	72.85	73.08	72.71	72.34	72.36	72.06
30	71.16		71.03	71.15	69.72	71.05	72.72	73.03	73.30	72.05	72.24	71.96
31	71.20		70.96		69.69		73.09	72.86		71.92		71.84

e Estimated.

Palm Beach County

88. U. S. Geol. Survey. South F Street and First 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 of Biscayne aquifer, diameter 6 inches, depth 17 feet, cased to 16, gravel 12-17. Land-surface datum is 14.44 feet above msl. Highest water level 15.47 above msl, Oct. 5, 1948; lowest 4.35 above msl, Aug. 16, 1952. Records available: 1944-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.45	6.06	5.64	5.18	5.55	5.23	6.53	7.38	8.27	10.14	11.15	10.08
2	6.43	6.05	5.62	5.17	5.52	5.04	6.58	7.35	8.25	10.23	11.10	10.14
3	6.40	6.20	5.60	5.15	5.47	4.95	6.52	7.30	8.22	11.38	11.03	10.00
4	6.36	6.13	5.57	5.13	5.42	6.17	6.45	7.26	8.16	11.09	10.98	9.95
5	6.33	6.08	5.55	5.11	5.37	6.11	6.40	7.20	8.10	.....	10.95	10.25

88--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	6.30	6.04	5.52	5.09	5.32	6.05	6.34	7.15	8.03	.....	10.88	9.93
7	6.27	6.03	5.50	....	5.28	5.99	6.28	7.10	7.96	.....	10.83	9.87
8	6.25	6.02	5.47	....	5.25	5.94	6.23	7.29	7.89	.....	10.78	9.83
9	6.68	6.00	5.45	....	5.22	5.90	6.20	7.10	7.83	.....	10.73	9.79
10	6.73	5.97	5.42	....	5.20	5.85	6.15	7.22	7.77	.....	10.68	9.75
11	6.59	5.96	5.40	....	5.26	5.80	6.13	7.09	7.75	.....	10.65	9.71
12	6.53	5.95	5.62	....	5.18	5.75	6.28	7.03	7.87	.....	11.23	9.66
13	6.48	5.93	e5.57	....	5.15	5.73	6.23	7.00	7.76	.....	10.94	9.62
14	6.43	5.91	e5.53	....	5.10	5.70	6.58	6.98	7.74	.....	10.86	9.57
15	6.39	5.90	e5.50	....	5.07	5.63	6.45	6.93	7.97	.....	10.77	9.52
16	6.35	5.85	e5.47	5.18	5.05	5.59	6.38	7.27	8.38	.....	10.69	9.48
17	6.32	5.84	e5.44	5.17	5.02	5.55	6.33	7.91	8.87	.....	10.62	9.43
18	6.29	5.81	e5.41	5.59	4.98	5.51	6.30	7.78	9.75	.....	10.57	9.38
19	6.25	5.80	e5.37	5.48	4.95	5.47	6.26	8.02	....	.....	10.86	9.35
20	6.23	5.79	e5.34	5.43	4.98	5.88	6.21	7.84	....	.....	10.56	9.30
21	6.20	5.77	e5.30	5.41	5.48	....	6.17	7.80	....	.....	10.51	9.27
22	6.18	5.76	e5.27	5.41	5.20	7.60	6.13	7.75	....	.....	10.47	9.22
23	6.16	5.75	e5.23	5.42	5.09	7.14	7.35	7.70	....	.....	10.43	9.17
24	6.32	5.74	5.40	5.43	5.01	6.97	7.08	7.66	....	.....	10.39	9.14
25	6.20	5.72	5.42	5.42	4.95	6.87	7.60	7.60	....	.....	10.36	9.24
26	6.16	5.70	5.37	5.98	4.92	6.83	7.40	7.56	....	.....	10.29	9.09
27	6.14	5.68	5.34	5.75	4.90	6.85	7.42	7.49	....	.....	10.27	9.05
28	6.12	5.66	5.30	5.65	4.88	6.83	7.43	8.00	....	.....	10.22	9.00
29	6.08		5.25	5.62	4.88	6.78	7.43	8.37	....	.....	10.17	8.95
30	6.06		5.22	5.59	4.86	6.68	7.41	8.26	10.06	11.28	10.13	8.90
31	6.08		5.20		4.84		7.41	8.25		11.22		8.85

e Estimated.

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 of Biscayne aquifer, diameter 6 inches, depth 18 feet, cased to 16, gravel 14-18. Land-surface datum is 14.43 feet above msl. Highest water level 14.06 above msl, Oct. 6, 1948; lowest 5.63 above msl, June 26, 1952. Records available: 1948-53.

Daily highest water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.34	7.16	6.75	6.36	7.28	6.95	7.49	8.48	9.28	10.94	11.75	10.56
2	7.31	7.19	6.73	6.35	7.23	6.96	7.45	8.41	9.22	11.10	11.70	10.50
3	7.29	7.27	6.71	6.32	7.18	6.95	7.40	8.34	9.19	11.66	11.64	10.45
4	7.26	7.28	6.69	6.31	7.12	7.48	7.35	8.28	9.13	11.67	11.58	10.40
5	7.23	7.29	6.67	6.30	7.08	7.70	7.32	8.25	9.05	11.64	11.65	10.46
6	7.20	7.30	6.65	6.28	7.04	7.73	7.27	8.20	8.97	11.54	11.56	10.38
7	7.18	7.30	6.62	6.26	7.01	7.74	7.22	8.32	8.91	11.65	11.50	10.32
8	7.16	7.28	6.60	6.25	6.98	7.69	7.19	8.35	8.85	11.80	11.45	10.30
9	7.37	7.25	6.58	6.22	6.95	7.65	7.18	8.22	8.80	12.03	11.40	10.26
10	7.42	7.23	6.56	6.20	6.93	7.61	7.13	8.19	8.96	12.04	11.34	10.19
11	7.38	7.20	6.54	6.63	6.98	7.57	7.15	8.15	8.98	11.94	11.38	10.15
12	7.34	7.17	6.60	6.73	6.90	7.52	7.28	8.09	8.81	11.84	11.49	10.10
13	7.28	7.13	6.65	6.82	6.87	7.49	7.34	8.04	8.77	11.75	11.41	10.05
14	7.22	7.10	6.66	6.87	6.84	7.45	7.72	7.99	8.75	12.48	11.31	10.03
15	7.20	7.06	6.61	6.88	6.82	7.41	7.78	7.95	8.85	12.50	11.27	9.98
16	7.18	7.02	6.57	6.92	6.78	7.50	7.80	7.94	9.11	12.31	11.21	9.93
17	7.16	6.98	6.55	6.93	6.76	7.52	7.78	8.03	9.84	12.21	11.17	9.87
18	7.13	6.95	6.52	7.38	6.72	7.45	7.76	7.97	10.54	12.80	11.12	9.83
19	7.10	6.92	6.50	7.44	6.70	7.40	7.75	7.92	10.56	12.70	11.22	9.78
20	7.09	6.92	6.48	7.46	6.71	7.38	7.68	7.90	10.76	12.60	11.10	9.74
21	7.06	6.90	6.47	7.47	6.86	7.54	7.63	7.88	10.80	12.46	11.05	9.70
22	7.04	6.88	6.46	7.44	6.88	7.55	7.60	7.87	10.82	12.36	11.00	9.65
23	7.02	6.87	6.45	7.40	6.80	7.49	8.24	7.84	10.85	12.26	10.95	9.60
24	7.07	6.85	6.50	7.38	6.75	7.46	8.27	7.80	10.86	12.18	10.90	9.57
25	7.02	6.83	6.50	7.32	6.70	7.41	8.43	7.77	10.85	12.11	10.86	9.54
26	7.00	6.82	6.47	7.49	6.68	7.55	8.56	7.73	10.81	12.04	10.80	9.49
27	6.98	6.80	6.45	7.47	6.67	7.60	8.58	7.70	10.78	12.01	10.74	9.45
28	6.96	6.78	6.43	7.42	6.64	7.61	8.60	7.91	10.92	11.97	10.69	9.40
29	6.95		6.41	7.38	6.88	7.58	8.55	9.16	10.99	11.91	10.65	9.35
30	6.94		6.39	7.33	6.89	7.55	8.49	9.27	11.00	11.87	10.60	9.27
31	7.10		6.37		6.87		8.54	9.30		11.81		9.23

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 53 feet, cased to 43. Land-surface datum is 80.5 feet above msl. Highest water level 3.60 below lsd, Sept. 18, 1953; lowest 10.5 below lsd, June 1945. Records available: 1934, 1936-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.18	7.24	6.96	6.60	5.92	7.60	6.54	5.61	4.67	4.17	....	5.66
2	7.19	7.13	7.00	6.62	5.99	7.65	6.61	5.71	4.48	4.39	....	5.77
3	7.21	6.90	7.06	6.66	6.04	7.74	6.69	5.60	4.16	4.60	....	5.80
4	7.28	6.90	7.10	6.72	6.10	7.73	6.76	5.64	4.41	4.78	....	5.69
5	7.29	6.98	7.19	6.79	6.16	7.45	6.84	5.57	4.68	4.79	....	4.92
6	7.32	7.00	7.23	6.83	5.20	7.05	6.91	5.34	4.89	4.92	....	5.03
7	7.38	6.88	7.23	6.42	6.15	6.99	7.00	5.36	4.90	5.05	....	5.07
8	7.35	6.65	7.25	6.20	6.07	6.97	7.08	5.25	4.96	4.98	....	5.22
9	6.97	6.60	7.32	6.26	6.15	6.84	7.15	4.90	5.08	4.55	....	5.28
10	6.75	6.60	7.36	6.32	6.25	6.93	6.95	4.94	5.12	4.83	....	5.35
11	6.75	6.62	7.38	6.40	6.33	7.02	6.37	5.06	5.24	5.06	....	5.40
12	6.80	6.63	7.40	6.20	6.41	7.11	6.07	5.14	5.34	5.18	....	5.45
13	6.85	6.72	7.42	4.46	6.48	7.12	6.19	4.86	5.40	5.26	....	5.43
14	6.89	6.68	7.44	4.74	6.53	7.21	6.30	5.01	5.43	5.31	6.03	5.04
15	6.90	6.45	7.48	4.88	6.59	7.28	6.41	4.96	5.28	5.37	6.06	5.29
16	6.92	6.39	7.53	4.80	6.65	7.20	6.42	4.78	4.72	5.40	6.09	5.39
17	6.98	6.41	7.55	5.08	6.71	7.26	6.19	4.49	4.15	5.42	6.11	5.48
18	6.99	6.51	7.60	5.15	6.75	7.20	6.26	4.77	3.76	5.22	6.15	5.54
19	7.00	6.52	7.65	5.21	6.82	7.04	6.39	4.89	4.01	5.23	6.18	5.61
20	7.01	6.56	7.68	5.36	6.89	7.22	6.48	4.64	4.16	5.40	6.15	5.62
21	7.05	6.60	7.17	5.43	6.93	7.23	6.55	4.42	4.42	5.48	6.03	5.45
22	7.11	6.06	6.33	5.50	7.00	7.25	6.61	4.48	4.52	....	6.07	5.50
23	7.12	6.72	6.02	5.53	7.03	6.12	6.47	4.64	4.36	....	6.03	4.90
24	6.91	6.74	6.00	5.60	7.10	6.04	6.17	4.84	4.66	....	5.93	4.63
25	7.02	6.77	6.09	5.66	7.18	6.10	5.63	4.98	4.73	....	5.28	4.77
26	7.10	6.80	6.20	5.52	7.23	6.15	5.25	5.04	4.30	....	5.30	4.90
27	7.12	6.87	6.28	5.53	7.27	6.19	5.12	4.79	3.79	....	5.40	5.03
28	7.13	6.93	6.30	5.70	7.38	6.26	5.30	4.09	4.14	....	5.49	5.10
29	7.20		6.40	5.80	7.46	6.33	5.40	4.05	4.46	....	5.55	5.17
30	7.22		6.48	5.87	7.48	6.43	5.45	4.40	4.36	....	5.60	5.22
31	7.23		6.52		7.56		5.53	4.61		....		5.26

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. Highest water level 54.6 below lsd, Sept. 1945; lowest 72.0 below lsd, June 1945. Records available: 1936-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.25	70.04	70.18	70.32	65.10	65.80	65.56	64.31	62.37	58.51	58.53	59.94
2	69.21	70.04	70.22	70.30	65.06	65.86	65.51	64.23	62.28	58.47	58.60	59.97
3	69.27	70.07	70.22	70.29	65.04	65.96	65.49	64.16	62.18	58.27	58.65	60.00
4	69.35	70.11	70.22	70.32	65.02	65.99	65.48	64.08	62.08	58.13	58.64	60.04
5	69.38	70.13	70.26	70.30	64.97	65.94	65.44	63.98	62.00	58.07	58.64	60.06
6	69.42	70.12	70.26	70.25	64.92	65.90	65.41	63.94	61.92	58.08	58.77	60.04
7	69.45	70.13	70.26	70.27	64.88	65.88	65.40	63.92	61.84	58.10	58.87	60.07
8	69.45	70.19	70.28	70.27	64.88	65.88	65.41	63.86	61.73	58.05	58.91	60.03
9	69.44	70.22	70.31	70.26	64.88	65.91	65.41	63.79	61.57	57.92	58.94	59.92
10	69.52	70.20	70.31	70.24	64.88	65.95	65.41	63.77	61.41	57.95	59.00	59.96
11	69.57	70.17	70.34	70.25	64.88	....	65.38	63.73	61.26	57.96	59.05	59.98
12	69.61	70.16	70.36	70.23	64.89	....	65.39	63.69	61.16	57.96	59.11	59.98
13	69.63	70.21	70.37	70.01	64.93	65.93	65.42	63.64	60.97	57.97	59.17	59.94
14	69.65	70.18	70.38	69.40	64.94	65.88	65.45	63.62	60.93	57.95	59.23	60.07
15	69.67	70.22	70.42	68.73	64.98	65.87	65.50	63.58	60.84	57.96	59.25	60.17
16	69.69	70.22	70.43	68.21	65.03	65.86	65.51	63.53	60.73	57.92	59.30	60.17
17	69.71	70.23	70.43	67.78	65.07	65.83	65.49	63.45	60.62	57.97	59.38	60.19
18	69.73	70.24	70.44	67.35	65.09	65.79	65.49	63.39	60.51	57.99	59.44	60.23
19	69.74	70.21	70.47	66.98	65.13	65.82	65.45	63.32	60.27	57.96	59.48	60.22
20	69.76	70.19	70.48	66.21	65.20	65.83	65.42	63.26	60.08	57.96	59.51	60.17
21	69.79	70.22	70.50	66.43	65.27	65.83	65.39	63.22	59.97	57.98	59.61	60.17
22	69.83	70.22	70.49	66.21	65.33	65.84	65.36	63.16	59.85	58.00	59.67	60.24
23	69.83	70.22	70.49	65.98	65.38	65.84	65.31	63.08	59.69	58.01	59.70	60.30
24	69.86	70.18	70.47	65.83	65.43	65.82	65.26	63.02	59.45	58.02	59.71	60.30
25	69.93	70.17	70.46	65.67	65.45	65.81	65.19	62.96	59.29	58.12	59.78	60.16

16--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	69.94	70.16	70.46	65.54	65.47	65.80	65.11	62.88	59.10	58.22	59.88	60.08
27	69.94	70.18	70.43	65.43	65.52	65.78	64.98	62.80	58.98	58.24	59.90	59.97
28	69.94	70.18	70.40	65.32	65.62	65.74	64.82	62.67	58.87	58.25	59.91	59.87
29	69.98		70.41	65.22	65.68	65.69	64.69	62.57	58.74	58.33	59.93	59.85
30	69.99		70.38	65.14	65.72	65.64	64.58	62.48	58.65	58.42	59.92	59.84
31	70.01		70.35		65.76		64.44	62.41		58.48		59.87

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: 1947-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.61	9.74	9.89	9.36	8.88	9.10	9.01	9.17	9.77	9.21	8.86	9.86
2	9.51	9.66	9.84	9.35	8.91	9.17	9.06	9.30	9.51	9.29	8.89	10.00
3	9.36	9.69	9.75	9.32	8.91	9.46	9.08	9.42	9.27	9.39	8.90	9.83
4	9.62	9.65	9.70	9.36	8.95	9.40	9.11	9.60	9.17	9.43	8.90	9.57
5	9.57	9.70	9.90	9.36	8.97	8.95	9.12	9.70	9.10	9.40	8.83	9.39
6	9.53	9.58	9.82	9.28	8.99	9.05	9.13	9.70	9.02	9.38	8.86	9.25
7	9.65	9.47	9.81	9.18	9.00	9.19	9.19	9.72	9.01	9.56	8.91	9.24
8	9.50	9.66	9.80	9.15	9.03	9.13	9.21	9.68	9.03	9.62	8.92	9.16
9	9.29	9.72	9.92	9.35	9.04	9.10	9.20	9.55	9.02	9.69	8.94	9.10
10	9.40	9.69	9.78	9.30	9.10	9.07	9.22	9.51	8.99	9.78	8.99	9.09
11	9.60	9.60	9.75	9.30	9.11	9.00	9.23	9.51	8.97	9.84	9.04	9.00
12	9.63	9.53	9.90	9.20	9.11	8.92	9.27	9.54	8.99	9.88	9.05	8.96
13	9.68	9.64	9.92	9.20	9.15	8.95	9.27	9.60	8.97	9.93	9.05	8.88
14	9.73	9.58	9.82	9.16	9.20	8.90	9.30	9.66	8.97	9.97	9.07	8.81
15	9.84	9.41	9.77	9.03	9.20	8.87	9.30	9.78	8.91	9.76	9.03	9.00
16	9.94	9.69	9.80	8.97	9.21	8.90	9.30	9.86	8.89	9.56	8.98	9.23
17	10.00	9.58	9.76	8.92	9.20	8.90	9.18	9.80	8.79	9.33	9.00	9.67
18	9.90	9.69	9.79	8.88	9.22	8.90	9.00	9.88	8.81	9.19	9.01	9.88
19	9.81	9.70	9.77	8.84	9.24	8.93	8.97	9.88	8.78	9.10	9.02	9.94
20	9.77	9.77	9.75	8.90	9.29	8.97	8.91	9.84	8.65	9.04	9.01	9.80
21	9.74	9.83	9.69	8.90	9.29	9.00	8.86	9.79	8.75	9.01	9.02	9.64
22	9.77	10.05	9.53	8.86	9.37	8.98	8.90	9.80	8.89	9.00	9.10	9.60
23	9.63	10.23	9.55	8.82	9.38	8.99	8.84	9.70	9.03	9.98	9.11	9.46
24	9.57	10.30	9.45	8.81	9.40	9.01	8.81	9.67	9.13	8.95	9.06	9.41
25	9.91	10.20	9.42	8.82	9.39	9.01	8.78	9.63	9.04	8.92	8.96	9.50
26	9.82	10.10	9.51	8.82	9.40	9.03	8.71	9.68	8.70	8.87	8.91	9.74
27	9.74	10.00	9.43	8.84	9.41	9.01	8.58	9.70	8.65	8.84	8.96	9.78
28	9.65	9.95	9.37	8.86	9.46	9.02	8.65	9.76	8.97	8.80	9.36	9.69
29	9.77		9.40	8.86	9.50	9.00	8.78	9.80	9.07	8.83	9.58	9.74
30	9.80		9.37	8.86	9.49	9.01	8.92	9.92	9.15	8.86	9.78	9.78
31	9.71		9.33		9.35		9.03	9.90		8.85		10.01

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: 1947-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.37	65.40	65.54	65.42	65.12	66.33	65.11	64.60	64.65	63.94	64.55	65.10
2	65.38	65.32	65.48	65.38	65.20	66.41	65.16	64.62	64.62	63.98	64.60	65.16
3	65.20	65.30	65.30	65.39	65.48	66.32	65.21	64.69	64.51	64.01	64.59	64.96
4	65.53	65.36	65.09	65.40	65.56	66.06	65.26	64.76	64.40	64.05	64.49	64.80
5	65.51	65.49	65.47	65.47	.....	65.48	65.29	64.80	64.31	64.06	64.28	64.70
6	65.50	65.39	65.57	65.20	.....	65.10	65.45	64.76	64.22	64.05	64.42	64.56
7	65.42	65.19	65.56	64.90	65.70	65.02	65.38	94.74	64.24	64.19	64.62	64.73
8	65.40	65.28	65.63	65.05	65.82	64.98	65.42	64.62	64.38	64.25	64.63	64.76
9	65.00	65.60	65.86	65.20	65.53	65.00	65.39	64.49	64.50	64.19	64.64	64.69
10	65.03	65.59	65.92	65.15	65.51	65.01	65.42	64.45	64.49	64.40	64.72	64.70

77--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	65.32	65.49	65.98	65.11	65.50	65.05	65.31	64.45	64.54	64.44	64.92	64.71
12	65.62	65.22	65.99	64.85	65.61	65.06	65.38	64.49	64.51	64.49	64.90	64.60
13	65.73	65.25	66.41	64.74	65.80	65.01	65.47	64.50	64.44	64.52	64.88	64.46
14	65.71	65.30	66.50	65.28	65.96	65.00	65.65	64.54	64.45	64.54	64.88	64.31
15	65.72	64.91	66.02	64.95	66.00	65.00	65.61	64.57	64.42	64.52	64.77	64.81
16	65.76	65.33	66.51	64.99	66.17	65.18	65.49	64.59	64.31	64.58	64.60	64.85
17	65.75	65.33	66.80	65.19	65.51	65.25	65.44	64.56	64.15	64.52	64.58	65.10
18	65.62	65.62	66.90	65.10	66.56	65.22	65.35	64.57	64.06	64.44	64.60	65.23
19	65.58	65.67	66.57	65.09	66.61	65.31	65.30	64.61	64.02	64.38	64.59	65.28
20	65.54	65.55	66.70	65.33	66.76	65.40	65.31	64.61	63.90	64.36	64.55	65.08
21	65.51	65.47	65.69	65.50	66.93	65.61	65.30	64.57	63.96	64.35	64.50	64.83
22	65.58	65.61	65.38	65.51	66.89	65.42	65.26	64.59	64.07	64.36	64.52	64.87
23	65.47	65.82	65.28	65.39	66.50	65.30	65.12	64.51	64.11	64.34	64.61	64.79
24	65.20	65.85	65.26	65.34	66.10	65.29	65.05	64.49	64.16	64.26	64.55	64.81
25	65.57	65.75	65.30	65.22	66.45	65.21	64.99	64.51	63.96	64.22	64.41	64.72
26	65.78	65.66	65.50	65.22	67.21	65.17	64.87	64.54	63.60	64.24	64.69	64.89
27	65.70	65.63	65.59	65.29	67.45	65.12	64.69	64.55	63.47	64.23	64.81	64.89
28	65.49	65.62	65.42	65.38	67.27	65.03	64.66	64.54	63.75	64.20	65.84	64.75
29	65.53		65.54	65.30	67.25	65.05	64.63	64.57	64.00	64.29	65.00	64.72
30	65.69		65.54	65.12	67.10	65.04	64.62	64.65	63.94	64.50	65.05	64.72
31	65.44		65.49		66.15		64.61	64.68		64.53		64.88

166. Juice Industries, Inc. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 28 S., R. 15 E. 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 18.34 below lsd, May 28-29, 1953. Records available: 1948-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.70	11.77	12.20	12.64	14.69	12.00	10.20	9.31	8.71	9.63	10.57
2	12.43	.....	12.27	13.08	15.00	12.20	10.25	9.41	8.72	9.80	10.75
3	12.30	11.97	12.14	12.94	15.15	11.93	10.18	9.45	8.73	9.93	10.76
4	12.24	11.99	12.27	12.65	14.92	11.88	10.50	9.46	8.60	9.96	10.59
5	12.33	12.00	12.53	13.11	14.00	11.93	10.79	9.48	8.61	9.44	10.35
6	12.30	12.18	12.21	13.38	13.52	12.03	10.55	9.36	8.63	9.49	10.26
7	12.28	12.36	11.89	13.00	12.94	12.74	10.27	9.39	8.74	9.59	10.28
8	12.04	12.44	11.80	12.83	12.74	12.87	.....	9.45	8.90	9.60	10.29
9	12.06	12.59	11.80	12.68	12.86	13.06	.....	9.74	8.66	9.50	10.36
10	12.26	12.70	11.71	13.00	12.95	13.21	.....	9.80	8.60	9.63	10.20
11	12.23	12.73	11.71	12.83	13.21	12.84	.....	9.78	8.61	9.81	10.30
12	12.00	12.70	11.30	13.35	13.33	12.67	.....	9.82	8.55	9.87	10.29
13	11.96	12.84	11.10	13.36	13.42	12.66	9.89	9.80	8.75	9.94	9.97
14	11.89	12.72	11.49	13.59	13.42	13.30	10.02	9.87	8.91	10.19	9.74
15	11.32	12.60	11.81	13.89	13.09	13.35	9.98	9.95	9.00	10.20	10.40
16	11.63	12.40	11.59	13.89	13.66	12.70	9.90	9.72	9.13	10.13	10.38
17	11.64	12.58	11.74	13.84	14.01	12.36	9.74	9.14	9.21	10.47	10.48
18	11.79	12.75	11.90	13.59	13.78	12.02	9.76	9.35	9.02	10.80	10.48
19	11.77	12.80	11.85	14.25	13.35	11.87	9.76	9.19	8.93	11.20	10.35
20	12.01	12.96	11.76	14.26	13.41	11.90	9.78	.....	9.20	10.64	10.00
21	11.97	12.40	12.09	14.41	13.00	11.85	9.83	.....	9.35	10.55	9.83
22	12.76	13.14	11.98	12.46	14.65	12.66	11.97	9.73	9.21	9.35	10.47
23	12.82	12.30	11.88	12.60	14.81	12.58	11.83	9.49	9.27	9.39	10.30
24	12.54	12.37	11.71	12.67	14.59	13.15	11.57	9.60	9.16	9.31	10.20
25	12.51	12.16	11.71	12.90	14.11	12.75	11.43	9.62	.....	9.30	10.07
26	12.47	12.12	11.70	12.25	14.81	12.55	10.97	9.65	.....	9.25	10.20
27	12.67	11.87	12.00	12.22	14.82	12.43	10.88	9.67	.....	9.55	10.31
28	12.70	11.93	11.83	12.28	15.71	11.81	10.81	9.55	.....	9.31	10.34
29	12.73		11.76	12.59	15.47	11.94	10.65	9.42	.....	9.16	10.43
30	12.97		11.81	12.69	15.42	11.95	10.49	9.32	8.69	9.39	10.46
31	12.88		12.11		15.14		10.36	9.29		9.40	9.96

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.53	14.19	15.17	15.98	17.89	14.75	12.44	10.69	10.12	11.41	12.47
2	13.27	14.37	14.23	16.00	17.79	14.59	12.43	10.84	9.98	12.12	12.55
3	13.50	14.75	14.72	15.57	18.06	14.00	12.81	10.70	10.22	12.13	12.49
4	13.20	14.72	14.36	15.88	17.32	14.47	12.14	10.86	9.78	12.17	11.90
5	13.55	14.10	14.04	16.02	15.29	14.72	14.09	10.90	10.04	11.05	11.59

166--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	13.84	15.00	13.92	15.20	14.54	15.47	12.13	10.75	10.30	10.92	11.34
7	.....	13.75	14.92	12.65	15.30	14.01	15.85	11.64	10.93	10.89	11.03	11.80
8	.....	13.05	14.00	13.32	14.69	14.12	16.27	11.31	12.02	10.18	11.00	11.56
9	.....	13.00	15.00	13.67	15.30	14.34	16.37	11.10	11.93	10.00	11.60	11.62
10	.....	13.68	15.09	13.77	14.50	15.47	15.96	11.23	11.22	10.30	11.20	11.57
11	.....	14.14	14.70	14.90	16.15	16.08	15.48	11.18	12.20	10.00	11.20	12.17
12	.....	14.13	15.35	12.67	16.50	16.36	15.48	12.23	12.53	10.25	11.91	12.26
13	.....	13.86	15.44	12.84	16.74	16.54	16.26	12.77	12.43	11.05	12.18	11.68
14	.....	13.97	15.36	13.07	16.82	15.90	16.46	12.59	12.64	11.25	12.52	11.00
15	.....	12.68	14.28	13.58	16.93	16.70	15.68	12.42	11.32	11.34	12.27	11.40
16	.....	12.73	15.70	12.87	16.79	16.93	14.96	11.32	10.93	11.40	12.48	11.60
17	.....	13.39	15.70	13.85	16.25	16.97	13.48	11.14	10.79	11.30	12.63	11.55
18	.....	13.77	15.63	13.91	16.80	15.39	13.91	11.35	10.76	11.40	13.29	11.63
19	.....	14.03	15.78	12.97	16.97	15.68	13.24	11.18	10.48	11.08	13.73	12.18
20	.....	14.11	15.58	13.92	17.20	16.13	14.15	11.17	10.38	11.54	12.86	11.53
21	.....	14.30	13.89	14.77	17.30	14.21	14.78	11.22	10.78	11.58	12.08	11.11
22	14.59	14.23	12.90	14.98	17.50	15.04	15.24	11.02	10.72	11.65	11.97	11.25
23	14.28	14.45	12.58	15.44	17.63	15.74	13.15	10.89	10.84	11.65	11.66	11.25
24	13.06	14.60	12.56	15.55	17.12	15.52	12.90	10.97	10.85	11.70	11.50	11.16
25	13.20	14.63	12.63	15.77	17.59	14.04	12.79	11.05	10.62	11.57	11.53	11.07
26	13.99	14.54	13.48	13.80	17.83	13.83	12.11	11.07	10.25	11.82	11.36	11.02
27	14.40	14.10	14.25	13.55	18.04	13.77	12.28	11.12	10.10	11.82	11.32	10.60
28	14.56	14.53	13.57	14.93	18.34	13.15	12.03	10.90	10.25	10.88	11.46	10.74
29	14.65		13.61	14.93	18.34	12.93	11.97	10.80	10.32	10.56	11.50	11.49
30	14.64		14.87	15.42	18.13	14.52	11.93	10.74	9.99	11.39	12.21	11.11
31	14.84		14.90		17.62		11.75	10.77		11.58		11.30

e Estimated.

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 27.60 below lsd, May 14, 1952. Records available: 1946-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.32	26.40	.....	26.49	26.18	27.18	26.15	25.75	25.53	25.17	25.82	26.05
2	26.20	26.20	.....	26.41	26.30	.....	26.25	25.78	25.49	25.20	25.89	26.09
3	26.14	26.10	.....	26.30	26.42	27.30	26.23	25.81	25.46	25.25	25.92	25.83
4	26.43	26.15	.....	26.48	.....	27.23	26.28	25.98	25.40	25.22	25.80	25.64
5	26.34	26.31	26.50	26.53	.....	.....	26.35	26.05	25.38	25.15	25.48	25.56
6	26.35	26.24	26.65	26.23	.....	.....	26.12	25.82	25.28	25.15	25.52	25.42
7	26.48	26.05	26.57	.....	26.23	.....	26.57	25.76	25.34	25.34	25.74	25.63
8	26.28	26.11	26.77	26.10	26.23	.....	26.67	25.65	25.50	25.35	25.76	25.69
9	25.77	26.41	26.93	26.24	26.30	.....	26.75	25.51	25.65	25.22	25.72	25.58
10	25.85	26.40	.....	26.18	26.40	.....	26.74	25.49	25.60	25.50	25.89	25.63
11	26.11	26.30	26.71	26.19	26.48	.....	26.49	25.53	25.63	25.53	26.05	25.64
12	26.45	26.10	26.77	25.91	26.60	.....	26.48	25.57	25.63	25.55	26.01	25.55
13	26.46	26.15	26.82	25.78	26.21	.....	26.62	25.62	.....	25.61	26.00	25.35
14	26.44	26.18	26.80	26.30	26.27	.....	26.78	25.66	.....	25.65	26.04	25.93
15	26.44	25.83	26.71	26.11	26.35	.....	26.82	25.71	.....	25.68	25.90	25.95
16	26.48	26.17	26.71	25.96	26.35	26.55	26.70	25.72	.....	25.75	25.73	25.96
17	26.44	26.18	26.87	26.20	25.27	26.66	26.54	25.63	.....	25.77	25.80	26.16
18	26.30	26.47	26.92	26.13	26.20	26.52	26.39	25.60	.....	25.60	25.83	26.36
19	26.20	26.44	26.99	26.05	26.34	26.40	26.35	25.63	.....	25.50	25.82	26.40
20	26.19	26.25	.....	26.40	27.01	26.45	26.37	25.60	.....	25.57	25.74	25.96
21	26.17	26.17	.....	26.58	27.23	.....	26.45	25.60	.....	25.58	25.64	25.65
22	26.37	26.33	.....	26.65	27.45	.....	26.58	25.58	.....	25.60	25.55	25.62
23	26.25	26.47	.....	26.60	27.48	.....	26.39	25.48	.....	25.58	25.59	25.63
24	26.05	26.55	.....	26.53	27.36	.....	26.12	25.41	25.35	25.52	25.48	25.71
25	26.48	26.48	.....	26.45	27.28	.....	26.03	25.42	25.09	25.48	25.42	25.66
26	26.61	26.42	26.48	26.37	27.40	.....	25.92	25.47	24.53	25.50	25.80	25.88
27	25.55	.....	26.55	26.30	27.52	.....	25.74	25.50	24.40	25.53	25.92	25.85
28	26.39	.....	26.42	26.38	27.27	.....	25.73	25.51	24.80	25.40	25.90	25.65
29	26.48		26.53	26.28	27.35	.....	25.73	25.49	25.10	25.50	26.00	25.62
30	26.59		26.57	26.15	.....	26.02	25.77	25.53	25.13	25.74	26.04	25.64
31	26.48		26.53		.....		25.76	25.55		25.80		25.83

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 3.91 below lsd, May 30, 1953. Records available: 1947-53.

● Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.63	2.44	2.63	2.75	....	3.17	2.30	....	2.07	1.80	2.39	2.52
2	2.61	2.37	2.51	2.72	e2.57	....	2.33	2.25	2.05	e1.86	2.42	2.55
3	2.38	2.31	2.51	2.61	....	3.25	....	2.26	2.03	1.88	2.43	2.32
4	2.71	2.40	2.42	2.72	2.65	3.27	2.41	2.28	1.98	e1.92	2.36	2.05
5	2.68	2.55	2.65	2.87	2.72	....	2.42	2.35	1.97	1.83	2.10	....
6	2.72	2.45	....	2.65	2.65	2.55	2.44	2.25	1.88	1.76	2.12	1.97
7	2.66	2.23	2.99	....	2.60	2.47	2.49	....	1.87	1.88	2.42	2.03
8	2.54	2.33	3.08	2.47	2.69	2.45	2.55	....	2.02	e1.97	2.42	2.19
9	2.05	2.76	....	2.61	2.77	....	2.63	....	2.15	1.82	2.36	2.06
10	2.08	2.71	3.24	2.53	2.82	2.50	2.62	....	2.10	2.10	2.44	2.00
11	2.35	2.55	3.07	2.50	2.88	2.50	2.55	....	2.16	....	2.61	2.09
12	2.68	2.26	3.00	2.32	....	2.47	....	....	2.15	....	2.59	1.98
13	2.79	2.28	3.08	2.10	2.95	2.40	....	....	....	....	2.53	1.85
14	2.65	2.34	3.06	2.72	....	2.32	2.61	....	e2.05	2.22	....	....
15	2.59	2.04	3.02	2.69	3.03	....	2.67	....	1.98	2.18	2.44	....
16	2.58	2.45	2.98	2.44	....	2.48	2.71	....	1.84	2.26	2.24	2.62
17	2.55	2.45	3.13	2.70	3.03	2.57	2.70	2.14	1.75	2.26	2.19	1.77
18	2.43	2.77	3.16	2.61	2.98	....	2.63	2.10	1.72	2.22	2.23	2.40
19	2.32	2.75	....	2.45	....	2.52	2.54	2.15	1.72	2.20	e2.22	2.88
20	2.32	2.47	....	2.82	....	2.64	2.58	2.13	....	2.22	2.15	2.55
21	2.28	2.36	3.14	3.05	e3.37	....	2.61	2.08	1.62	2.15	2.12	....
22	2.44	2.49	2.90	3.08	....	2.58	2.58	2.08	1.80	2.11	2.07	2.11
23	2.36	2.68	2.82	2.92	3.51	2.50	2.46	e2.03	1.87	e2.11	....	2.08
24	2.15	2.72	2.78	2.86	....	2.58	2.38	1.98	1.95	2.00	2.00	e2.25
25	2.56	2.60	2.82	2.76	....	2.42	2.36	1.97	1.70	....	1.83	2.25
26	2.82	2.51	2.94	2.74	3.43	2.36	2.33	2.01	1.10	....	2.25	2.45
27	2.72	2.55	2.98	2.80	3.46	2.33	2.25	2.02	1.06	1.96	2.48	2.49
28	2.51	2.63	2.84	2.88	3.62	....	2.28	2.04	....	1.94	2.42	....
29	2.50	....	2.87	2.75	3.81	2.20	2.24	....	1.66	2.07	....	2.17
30	2.70	....	2.93	2.52	3.75	....	2.26	....	1.75	....	2.54	2.17
31	2.55	....	2.86	....	3.45	....	2.29	....	....	....	....	2.30

e Estimated.

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 0.28 below lsd, Oct. 9, 1953; lowest 3.50 below lsd, June 8, 1951. Records available: 1946-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.78	2.06	....	2.20	2.07	2.92	1.85	1.20	0.93	0.46	0.83	0.85
2	1.75	2.00	....	2.23	2.13	2.91	1.90	1.25	.94	.51	.86	.87
3	1.80	1.96	....	2.25	2.17	2.82	1.96	1.30	.90	.52	.89	.92
4	1.86	2.00	....	2.29	2.17	2.77	2.00	1.26	.80	.48	.90	.94
5	1.88	2.04	2.24	2.30	2.26	2.55	2.02	1.14	.81	.50	.90	.71
6	1.93	2.05	2.25	2.30	2.28	2.22	2.05	1.17	.78	.53	.91	.70
7	1.95	2.04	2.24	2.05	2.23	1.78	2.11	1.23	.83	.58	1.00	.77
8	1.90	1.86	2.23	1.90	2.15	1.55	2.14	1.26	.83	.54	.98	.78
9	1.75	1.82	2.30	1.90	2.18	1.53	2.10	1.30	.85	.39	.99	.80
10	1.65	1.87	2.32	1.92	2.26	1.54	2.07	1.34	.88	.33	1.00	.85
11	1.70	1.87	2.32	1.97	2.30	1.53	2.08	1.37	.92	.36	.95	.88
12	1.80	....	2.35	1.95	2.35	1.49	2.12	1.42	.96	.42	.98	.90
13	1.82	....	2.33	1.78	2.40	1.50	2.17	1.45	.99	.48	1.01	.88
14	1.85	....	2.32	1.80	2.43	1.53	2.15	1.50	1.00	.51	1.00	.88
15	1.88	....	2.15	1.79	2.47	1.55	2.17	1.54	.88	.53	.97	.97
16	1.92	....	2.15	1.86	2.50	1.55	2.16	1.52	.78	.57	1.01	.99
17	1.94	....	2.20	1.97	2.53	1.52	2.16	1.39	.60	.60	1.07	1.03
18	1.93	....	2.23	1.97	2.52	1.55	2.17	1.41	.55	.56	1.10	1.06
19	1.95	....	2.27	1.96	2.58	1.62	2.21	1.40	.53	.54	1.12	1.05
20	1.95	....	2.32	1.95	2.63	1.66	2.22	1.38	.57	.58	1.12	1.03

44--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	1.93	....	2.25	2.06	2.68	1.70	2.08	1.35	.65	.61	1.15	1.00
22	1.99	....	2.03	2.11	2.71	1.75	2.10	1.36	.87	.64	1.15	1.05
23	1.99	....	1.97	2.13	2.74	1.75	2.05	1.37	.63	.67	1.13	.97
24	1.91	....	1.93	2.17	2.75	1.75	1.99	1.40	.67	.68	1.08	.90
25	1.99	....	1.98	2.20	2.75	1.80	1.82	1.44	.68	.73	.79	.83
26	2.01	....	2.03	2.06	2.78	1.80	1.58	1.38	.67	.78	.69	.85
27	2.02	....	2.05	1.86	2.86	1.71	1.53	1.29	.47	.79	.70	.88
28	2.03	....	2.05	1.95	2.92	1.74	1.43	1.05	.38	.73	.73	.95
29	2.07	....	2.11	1.99	2.93	1.79	1.19	.87	.41	.72	.77	1.00
30	2.06	....	2.15	1.99	2.91	1.82	1.15	.84	.45	.77	.80	1.02
31	2.06	....	2.18	....	2.90	....	1.16	.87	....	.80	....	1.08

45. Claude Hardin. 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 72.67 below lsd, May 21, 1953. Records available: 1948-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.58	66.49	66.93	....	....	....	....	67.31	65.34	....	....	63.43
2	65.52	66.35	67.01	....	....	....	....	67.26	65.34	....	....	63.45
3	65.48	66.28	67.31	....	....	....	....	67.07	65.28	....	....	63.51
4	65.67	66.28	67.53	....	....	....	....	66.98	65.24	....	....	63.66
5	65.72	66.33	67.76	....	....	....	....	66.92	65.20	....	65.53	....
6	65.82	66.28	67.93	....	....	....	....	67.00	65.12	....	63.54	....
7	65.91	66.27	67.98	....	....	....	....	67.05	65.01	....	63.58	....
8	65.91	66.31	67.91	....	....	....	....	66.98	....	....	e63.45	....
9	65.70	66.39	68.00	69.41	....	....	68.80	66.88	....	....	63.44	....
10	65.75	66.33	68.13	69.38	....	....	68.83	66.78	....	....	....	....
11	65.90	66.25	68.32	69.46	....	....	68.64	66.64	....	....	....	e63.60
12	65.98	66.16	68.54	69.30	....	....	68.45	66.63	....	....	....	63.68
13	65.99	66.22	68.66	69.08	....	....	68.42	66.67	....	....	....	....
14	66.00	66.28	68.75	69.13	....	....	68.42	66.74	....	....	63.96	....
15	66.02	66.36	68.77	68.98	....	....	68.45	66.76	....	....	63.95	....
16	66.05	66.42	68.75	68.90	....	....	....	66.72	....	....	63.80	....
17	66.12	66.44	68.75	68.99	....	....	68.46	66.59	....	....	....	....
18	66.13	66.55	68.68	69.06	....	....	....	66.64	....	....	63.84	....
19	65.98	66.52	....	69.02	....	....	68.30	66.64	....	....	64.02	63.92
20	65.88	66.52	....	68.97	....	....	68.12	66.64	....	....	....	63.76
21	65.92	66.71	....	....	72.44	....	68.00	66.62	....	....	64.44	e63.55
22	66.12	66.62	....	....	....	....	67.94	66.58	63.87	....	64.47	....
23	66.15	66.75	....	....	....	....	....	66.29	63.88	....	....	e63.57
24	66.12	66.70	....	....	....	....	67.80	66.13	....	....	....	....
25	66.28	66.68	....	....	....	....	67.77	66.09	....	....	....	63.48
26	66.28	66.72	....	....	....	....	67.68	66.02	....	....	64.18	63.17
27	66.25	66.77	....	....	....	....	67.54	65.90	....	....	64.07	62.87
28	66.26	66.88	....	....	....	....	67.40	65.77	....	....	63.87	e62.60
29	66.33	....	....	....	....	....	67.39	65.62	....	....	....	62.53
30	66.36	....	....	....	....	....	e67.40	65.49	....	....	63.55	62.63
31	66.44	....	....	....	....	....	67.39	65.35	....	....	....	62.80

e Estimated.

45-A. Claude Hardin. Sand Gulley. Drilled observation water-table well in sand, diameter 6 inches, reported depth 26 feet, cased to 17. Highest water level 0.64 below lsd, Sept. 28, 1953; lowest 3.72 below lsd, May 27, 1949. Records available: 1948-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.37	....	2.25	2.48	2.75	3.25	....	1.05	0.91	0.80	1.63	1.35
2	2.38	2.27	2.28	2.50	2.80	3.25	....	1.03	.89	.84	1.68	1.39
3	2.38	2.13	2.35	2.50	2.82	3.25	....	.80	.80	.86	1.75	1.41
4	2.40	....	....	2.55	2.85	3.20	....	.92	.71	.78	1.76	1.43
5	2.43	2.14	2.38	2.58	2.87	2.98	....	.98	.73	.75	1.73	1.21
6	2.47	2.16	2.42	2.60	2.89	2.52	....	1.02	.69	.79	1.68	1.17
7	2.48	2.13	2.42	2.58	2.89	2.18	....	1.08	.80	.88	1.74	1.18
8	2.47	1.93	2.43	2.60	2.89	1.93	....	1.05	.86	.88	1.79	1.23
9	2.23	....	2.46	2.57	2.90	1.90	2.43	1.05	.91	.76	1.80	1.25
10	2.00	....	2.49	....	2.92	....	2.42	1.03	.96	.71	1.80	1.28

45-A--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	2.00	....	2.50	....	2.94	....	2.40	1.02	0.98	0.79	1.81	1.33
12	2.05	....	2.51	....	2.95	1.91	2.40	1.07	1.10	.87	1.85	1.35
13	2.09	1.93	....	2.60	2.97	1.93	2.44	1.08	1.15	.95	1.87	1.35
14	2.11	1.94	2.53	2.59	2.99	1.95	2.45	1.18	1.21	1.03	1.90	1.22
15	2.13	1.93	2.55	2.60	3.00	1.98	2.47	1.24	1.15	1.07	1.90	1.25
16	2.15	1.95	2.57	2.57	3.00	2.00	2.38	1.25	.91	1.11	1.92	1.30
17	2.17	1.99	2.58	2.58	3.01	1.91	1.92	1.20	.75	1.17	1.95	1.35
18	2.18	2.05	2.59	2.60	3.03	1.88	1.78	1.23	.75	1.18	1.98	1.40
19	2.18	....	2.60	2.60	3.05	1.82	1.63	1.24	.76	1.15	2.00	....
20	2.18	....	2.60	2.62	3.07	....	1.62	1.25	.72	1.18	....	....
21	2.19	2.11	2.59	....	3.10	....	1.63	1.22	.71	1.25	1.99	1.38
22	2.22	2.15	2.40	2.72	3.12	....	1.52	1.07	.80	1.28	1.99	1.35
23	....	2.15	2.29	2.74	3.13	....	1.32	1.04	.86	1.33	....	1.25
24	2.17	2.15	2.20	2.75	3.15	....	1.20	.92	.91	1.36	1.90	1.17
25	2.20	2.15	2.21	2.75	3.15	....	1.18	.92	.95	1.42	1.32	1.16
26	2.25	2.16	2.28	2.73	3.16	....	1.15	.96	.93	1.47	1.25	1.15
27	2.28	2.19	2.32	2.70	3.17	....	1.15	.94	.69	1.51	1.25	1.18
28	....	2.23	2.35	2.70	3.20	....	1.17	.94	.64	1.50	1.27	1.20
29	2.28	....	2.38	2.70	3.23	....	1.16	.91	.68	1.47	1.30	1.24
30	2.30	....	2.43	2.72	3.25	....	1.20	.93	.76	1.53	1.32	1.27
31	2.30	....	2.47	....	3.24	....	1.18	.93	....	1.58	....	1.32

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 of Pleistocene age, diameter 6 inches, depth 67 feet, cased to 60, gravel 57-67. 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: 1948-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e45.86	e46.56	e46.92	e47.27	e47.03	47.24	45.18	e45.95	e45.30	44.28	43.70	e44.72
2	e45.88	e46.55	e46.93	e47.28	47.01	47.25	45.16	e45.91	e45.28	44.22	43.74	e44.75
3	e45.90	e46.58	e46.94	e47.29	47.01	47.25	45.16	e45.88	e45.26	44.17	43.77	e44.78
4	e45.92	e46.60	46.96	e47.30	47.00	47.27	45.15	e45.85	e45.24	44.10	43.79	e44.82
5	e45.94	e46.61	46.97	e47.30	46.99	47.28	45.17	e45.81	e45.23	43.98	43.81	e44.85
6	e45.96	e46.62	46.99	e47.29	46.99	47.30	45.22	e45.77	e45.20	43.93	43.85	e44.87
7	e45.98	e46.63	47.00	e47.28	46.98	47.31	45.27	e45.73	e45.18	43.86	43.90	e44.90
8	e46.00	e46.64	47.01	e47.28	46.98	47.33	45.33	e45.70	e45.16	43.79	43.93	e44.93
9	e46.02	e46.66	47.02	e47.27	46.98	47.27	45.38	e45.66	45.15	43.71	43.96	e44.97
10	e46.04	e46.67	47.04	e47.26	46.98	47.17	45.41	e45.62	45.10	43.66	43.98	e45.00
11	e46.06	e46.68	47.05	e47.25	46.98	47.12	45.43	e45.65	45.07	43.60	44.02	e45.02
12	e46.08	e46.70	47.06	e47.24	46.98	47.07	45.46	e45.61	45.04	43.55	44.07	e45.05
13	e46.10	e46.71	47.08	e47.23	46.99	46.96	45.51	e45.56	45.02	43.50	44.10	e45.08
14	e46.12	e46.72	47.09	e47.21	46.99	46.87	45.56	45.51	44.99	43.44	44.14	e45.11
15	e46.14	e46.73	47.10	e47.20	47.00	46.80	45.60	45.50	44.97	43.39	44.15	e45.14
16	e46.16	e46.74	47.12	e47.19	47.00	46.67	45.62	45.45	44.84	43.36	44.18	e45.17
17	e46.18	e46.75	47.13	e47.18	47.02	46.55	45.67	45.44	44.85	43.34	44.22	e45.20
18	e46.20	e46.77	47.15	e47.17	47.04	46.41	45.70	45.43	44.86	43.32	44.25	e45.21
19	e46.22	e46.78	47.16	e47.16	47.05	46.27	45.72	45.38	44.84	43.30	44.29	e45.22
20	e46.24	e46.79	47.17	e47.15	47.08	46.15	45.75	45.38	44.80	43.30	44.32	e45.23
21	e46.27	e46.80	47.18	e47.14	47.09	45.98	45.82	45.38	44.77	43.30	44.37	e45.24
22	e46.29	e46.81	47.19	e47.13	47.11	45.86	45.82	45.37	44.71	43.30	44.40	e45.25
23	e46.32	e46.82	47.20	e47.12	47.13	45.72	45.85	45.37	44.70	34.32	44.43	e45.26
24	e46.35	e46.83	47.20	e47.11	47.15	45.62	45.87	45.36	44.65	43.36	44.47	e45.27
25	e46.38	e46.84	47.20	e47.10	47.16	45.50	45.93	45.35	44.60	43.44	e44.50	e45.27
26	e46.41	e46.85	e47.20	e47.09	e47.17	45.41	45.95	45.34	44.55	43.49	e44.55	e45.28
27	e46.44	e46.87	e47.21	e47.08	e47.18	45.34	45.95	45.30	44.51	43.52	e44.58	e45.28
28	e46.48	e46.88	e47.23	e47.07	47.19	45.28	45.97	45.28	44.45	43.55	e44.61	e45.29
29	e46.53	....	e47.24	e47.06	47.19	45.25	45.98	45.32	44.40	43.60	e44.65	45.30
30	e46.54	....	e47.25	e47.04	47.20	45.20	45.99	45.32	44.34	43.64	e44.68	45.30
31	e46.55	....	e47.26	....	47.23	....	45.99	45.32	....	43.67	....	45.32

e Estimated.

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 of Pleistocene age, diameter 6 inches, depth 62 feet, cased to 59, gravel 52-62. 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: 1949-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.82	45.01	45.20	44.98	44.97	45.45	43.70	43.70	42.79	40.55	39.84	40.81
2	44.82	45.02	45.20	44.99	44.98	45.46	43.70	43.69	42.70	40.43	39.88	40.84
3	44.82	45.03	45.23	45.00	45.00	45.48	43.71	43.68	42.60	40.27	39.93	40.86
4	44.82	45.04	45.25	45.02	45.02	45.49	43.72	43.67	42.47	40.19	39.96	40.89
5	44.83	45.05	45.27	45.03	45.03	45.50	43.72	43.66	42.35	40.13	40.00	40.88
6	44.84	45.06	45.28	45.04	45.04	45.40	43.72	43.62	42.23	40.07	40.04	40.90
7	44.85	45.07	45.29	45.06	45.05	45.18	43.74	43.57	42.15	40.04	40.07	40.92
8	44.85	45.07	45.30	45.08	45.07	44.95	43.75	43.52	42.08	39.94	40.13	40.93
9	44.85	45.08	45.31	45.09	45.08	44.77	43.75	43.48	41.98	39.85	40.17	40.95
10	44.85	45.07	45.32	45.10	45.10	44.60	43.76	43.45	41.90	39.77	40.22	40.99
11	44.85	45.05	45.33	45.12	45.12	44.48	43.77	43.43	41.82	39.70	40.25	41.01
12	44.85	45.05	45.34	45.13	45.13	44.38	43.78	43.41	41.76	39.65	40.32	41.03
13	44.84	45.06	45.33	45.10	45.15	44.29	43.80	43.40	41.72	39.60	40.36	41.05
14	44.84	45.06	45.30	45.03	45.17	44.22	43.81	43.40	41.68	39.57	40.40	41.10
15	44.84	45.08	45.28	44.95	45.18	44.17	43.82	43.40	41.65	39.53	40.45	41.13
16	44.83	45.08	45.25	44.94	45.20	44.11	43.81	43.40	41.62	39.50	40.50	41.15
17	44.84	45.10	45.24	44.93	45.21	44.05	43.81	43.40	41.60	39.48	40.54	41.20
18	44.84	45.11	45.23	44.90	45.23	44.00	43.81	43.40	41.55	39.45	40.58	41.22
19	44.84	45.11	45.22	44.89	45.25	43.97	43.82	43.39	41.49	39.44	40.62	41.24
20	44.85	45.12	45.23	44.89	45.26	43.94	43.83	43.35	41.44	39.43	40.66	41.25
21	44.85	45.13	45.23	44.88	45.28	43.90	43.80	43.33	41.39	39.43	40.70	41.28
22	44.85	45.13	45.22	44.89	45.29	43.85	43.77	43.30	41.35	39.44	40.75	41.30
23	44.85	45.16	45.18	44.90	45.30	43.83	43.75	43.27	41.30	39.45	40.78	41.34
24	44.86	45.17	45.13	44.90	45.32	43.79	43.73	43.24	41.27	39.47	40.82	41.36
25	44.87	45.18	45.10	44.92	45.34	43.78	43.71	43.21	41.22	39.53	40.78	41.38
26	44.92	45.19	45.06	44.92	45.35	43.76	43.70	43.18	41.16	39.57	40.75	41.40
27	44.93	45.20	45.04	44.93	45.38	43.75	43.70	43.15	41.07	39.60	40.73	41.42
28	44.94	45.20	45.01	44.94	45.41	43.73	43.70	43.10	40.95	39.64	40.75	41.45
29	44.98		45.00	44.95	45.41	43.72	43.70	43.02	40.86	39.70	40.77	41.48
30	44.99		45.00	44.95	45.42	43.71	43.70	42.95	40.69	39.76	40.78	41.50
31	45.00		45.00		45.43		43.70	42.87		39.80		41.54

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 of Pleistocene age, diameter 6 inches, depth 17 feet, cased to 14, gravel 9-17. Land-surface datum is 105 feet above msl. Highest water level 0.31 above lsd, Nov. 25, 1953; lowest 5.54 below lsd, June 10-12, 1949. Records available: 1949-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.80	-2.08	2.36	-1.67	-1.81	-2.88	-1.65	-1.43	-0.95	-0.73	-1.55	-1.10
2	1.50	1.68	2.40	1.70	1.89	2.92	1.75	.82	1.07	.84	1.60	1.18
3	1.49	1.59	2.43	1.71	1.45	2.91	1.82	1.28	.61	.35	1.63	1.18
4	1.64	1.68	2.47	1.80	1.88	2.56	1.90	1.42	1.06	.52	1.66	.50
5	1.75	1.87	2.50	1.85	1.98	1.47	1.68	.10	1.17	.67	1.57	.84
6	1.86	2.00	2.54	1.91	2.04	.30	1.88	.70	.86	.81	1.67	1.00
7	1.92	1.48	2.56	.85	1.35	.79	2.00	.87	.69	.96	1.72	.77
8	1.50	1.07	2.60	1.36	.40	1.00	2.06	.55	.65	.04	1.60	1.01
9	.69	1.43	2.63	1.51	1.10	1.17	2.10	.93	.27	.13	1.70	1.10
10	1.22	1.49	2.68	1.66	1.25	1.24	2.16	.77	.67	.62	1.33	1.14
11	1.33	1.53	2.69	1.73	1.35	1.32	2.20	1.08	.59	.79	1.02	1.00
12	1.40	1.65	2.00	1.80	1.47	.45	2.23	1.18	.94	.94	1.35	1.19
13	1.42	1.79	1.50	.40	1.61	1.07	2.30	1.26	1.05	1.05	1.30	.48
14	1.43	1.87	1.56	1.20	1.70	1.21	1.77	1.30	.33	1.13	1.40	1.07
15	1.47	1.38	1.71	1.27	1.78	1.29	1.88	1.12	.61	1.18	1.55	1.18
16	1.51	1.59	1.88	1.37	1.85	1.36	2.05	.87	.25	1.22	1.66	1.23
17	1.60	1.80	2.01	1.50	1.93	1.49	2.20	.48	.50	1.26	1.73	1.28
18	1.68	1.92	2.13	1.58	2.00	1.53	1.43	.45	.36	.37	1.77	1.32
19	1.72	1.98	2.21	1.67	2.07	1.66	1.58	.60	.62	.73	1.80	1.34
20	1.73	2.02	2.28	1.76	2.15	1.72	1.80	.98	.41	.92	1.82	1.34
21	1.79	2.08	1.23	1.83	2.20	1.78	1.97	1.10	.50	1.03	1.85	1.20
22	1.85	1.99	.28	1.92	2.28	1.77	1.83	1.16	.70	1.13	1.88	1.35
23	1.88	2.05	.40	1.97	2.34	1.50	1.40	.90	.85	1.19	1.75	.80
24	1.35	2.11	.88	2.02	2.41	1.72	.89	1.20	.95	1.25	-.23	1.14
25	1.38	2.16	1.12	2.05	2.47	1.09	1.27	.68	1.00	1.27	+.31	1.20
26	1.83	2.21	1.21	.83	2.53	.50	1.37	.60	.82	1.33	-.70	1.31
27	1.90	2.28	1.26	1.31	2.60	1.10	1.54	.75	.15	1.34	.83	1.36
28	1.95	2.33	1.30	1.43	2.65	1.28	1.64	.26	.63	.92	.93	1.36
29	1.99		1.42	1.58	2.70	1.38	1.75	.63	.75	1.33	1.00	1.38
30	2.03		1.53	1.72	2.75	1.50	1.01	.73	.54	1.44	1.05	1.41
31	2.04		1.60		2.81		1.31	.81		1.50		1.32

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 of Pleistocene age, diameter 6 inches, depth 20 feet, cased to 12, gravel 9-20. Land-surface datum is 61 feet above msl. Highest water level 0.40 above lsd, Oct. 9, 1953; lowest 4.27 below lsd, Mar. 21, 1950. Records available: 1948-53.

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	-2.02	-1.87	-2.20	-1.93	-1.88	-3.31	-2.20	-1.42	-0.22	-0.12	....	-0.92
2	2.08	.70	2.26	1.98	2.03	3.36	2.32	1.60	.10	.17	....	1.10
3	1.34	.64	2.30	2.03	2.19	3.19	2.40	.81	.27	.00	....	1.18
4	1.69	1.07	2.33	2.14	2.33	2.95	2.47	.65	.12	.04	....	.25
5	1.80	1.31	2.40	2.22	2.43	2.22	2.02	.04	.21	.12	....	.09
6	1.90	1.45	2.42	2.30	2.23	.29	2.21	.19	.35	.22	-1.38	.21
7	1.95	.33	2.46	.96	.96	.24	2.45	.08	.12	-.35	1.54	.24
8	1.17	.12	2.51	1.43	.20	.36	1.37	.05	.18	+.17	1.48	.32
9	.30	.40	2.57	1.67	.18	.83	1.30	.15	.14	+.40	1.60	.43
10	.43	.52	2.60	1.83	.75	1.15	1.47	.23	.01	....	1.12	.55
11	.61	.60	2.61	1.95	1.20	1.35	1.72	.42	.10	....	.30	.35
12	.83	.73	1.22	2.03	1.52	.96	2.00	.74	.25	....	.58	.58
13	.99	1.04	.86	.12	1.75	1.45	2.19	1.12	-.45	....	.68	.72
14	1.08	1.13	1.21	.43	1.92	1.68	1.55	1.34	+.08	....	.84	.27
15	1.18	.43	1.48	.57	2.06	1.83	1.39	1.58	.00	....	1.12	.87

50--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	-1.27	-1.10	-1.61	-0.88	-2.16	-1.95	-2.00	-1.77	+0.10	....	-1.31	-1.10
17	1.38	1.30	1.82	1.22	2.27	2.05	2.24	-.17	+.01	....	1.50	1.29
18	1.45	1.50	1.98	.96	2.37	1.99	2.35	+.04	-.05	....	1.62	1.44
19	1.48	1.57	2.07	1.40	2.47	2.19	2.48	-.10	+.03	....	1.70	1.50
20	1.52	1.63	2.15	1.74	2.56	2.25	2.60	.20	-.01	....	1.77	1.51
21	1.64	1.71	.39	1.89	2.64	1.68	2.67	.25	.05	....	1.86	1.45
22	1.73	1.67	.08	2.01	2.70	1.62	2.72	.46	.11	....	1.45	1.58
23	1.75	1.76	.12	2.11	2.72	1.37	2.33	.55	.23	....	1.05	.48
24	.53	1.83	.25	2.21	2.84	1.71	2.12	.01	.40	....	-.05	.65
25	1.33	1.90	.55	2.29	2.90	1.42	2.07	.08	.50	....	+.30	.50
26	1.52	2.00	.84	.40	2.96	1.08	2.17	.09	-.33	....	-.15	.88
27	1.60	2.03	1.08	.78	3.03	1.02	2.35	-.10	+.15	....	.28	1.12
28	1.67	2.15	1.28	1.15	3.10	1.75	2.45	+.08	-.07	....	.42	1.17
29	1.79		1.57	1.47	3.15	1.90	2.58	-.06	-.16	....	.55	1.27
30	1.84		1.70	1.72	3.22	2.07	1.89	-.10	-.05	....	-.72	1.39
31	1.76		1.83		3.28		1.19	-.15		....		1.52

51. Mrs. William Falls. 48 First St., Frostproof. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 490 feet. Highest water level 3.68 below lsd, Oct. 25, 1953; lowest 13.60 below lsd, May 30, 1953. Records available: 1949-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.96	7.91	6.22	9.61	10.00	13.23	7.01	6.56	5.67	4.56	3.90	....
2	6.26	7.43	6.31	9.76	9.80	13.44	6.92	6.54	5.64	4.60	4.17	....
3	6.46	8.90	6.40	9.80	9.94	13.28	7.00	6.52	5.59	4.55	4.29	....
4	6.31	8.54	6.40	9.45	10.20	12.90	7.04	6.53	5.55	4.35	4.17	....
5	6.41	8.61	6.59	8.20	10.45	10.41	7.00	6.44	5.50	4.36	4.14	....
6	6.48	8.72	6.40	8.20	10.30	9.46	6.93	6.40	5.43	4.45	4.20	....
7	7.13	8.70	6.54	9.48	10.30	9.11	6.90	6.36	5.42	4.55	3.97	....
8	7.86	7.61	6.28	9.79	10.32	9.08	6.94	7.20	5.40	4.48	3.89	....
9	8.25	7.43	6.52	10.00	10.43	9.35	6.95	6.90	5.10	4.26	3.83	....
10	8.10	8.71	6.60	9.99	9.76	10.80	6.84	6.42	5.19	3.90	3.87	....
11	7.60	9.00	6.84	9.92	10.60	10.96	6.80	6.30	5.20	4.10	3.89	....
12	6.87	8.10	7.15	9.78	10.84	10.66	6.70	6.28	5.27	4.18	3.90	....
13	7.56	6.70	6.99	8.52	10.95	10.83	6.80	6.24	5.00	4.27	3.94	....
14	8.58	6.39	6.90	8.80	10.86	9.29	6.77	6.26	5.13	4.26	3.94	....
15	8.77	6.18	6.75	9.58	10.93	8.41	6.85	6.20	5.14	4.20	3.92	....
16	9.02	6.24	6.72	9.59	10.07	7.99	6.76	6.24	4.80	4.20	3.95	....
17	8.90	6.28	6.76	9.72	10.09	7.69	6.78	6.23	4.95	3.91	3.99	....
18	8.83	6.21	6.89	9.79	10.95	7.57	6.79	6.25	5.00	4.06	4.04	....
19	8.41	6.12	7.01	9.54	11.29	7.50	6.78	6.16	4.89	4.10	4.00	....
20	8.13	5.95	6.91	9.75	11.45	7.50	6.78	6.11	4.60	4.09	4.00	....
21	7.90	5.98	6.83	9.80	11.58	7.45	6.74	6.10	4.86	4.11	4.00	....
22	8.84	6.12	6.70	10.20	11.65	7.41	6.68	6.03	4.96	4.08	4.00	....
23	8.90	6.11	7.62	9.92	11.76	7.40	6.58	5.90	4.74	4.05	3.99	....
24	8.87	6.18	9.02	9.82	11.30	7.30	6.55	5.57	5.01	3.96	3.88	....
25	8.73	6.30	9.40	9.78	10.55	7.30	6.50	5.50	4.99	3.71	3.76	....
26	8.72	6.34	9.63	9.30	11.88	7.30	6.51	5.60	4.91	4.00	....	....
27	9.10	6.39	9.59	9.36	12.44	7.28	6.53	5.78	4.43	4.10	....	....
28	8.92	6.39	8.02	9.70	12.96	7.18	6.51	5.80	4.53	4.04	....	....
29	9.10		7.58	9.90	13.38	7.10	6.50	5.55	4.64	4.00	....	....
30	9.07		7.55	9.97	13.60	7.06	6.50	5.54	4.41	4.13	....	....
31	9.12		8.89		13.24		6.56	5.58		4.16	....	....

Putnam County

28. R. O. Puckett. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 12 S., R. 26 E. 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: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	6.32	May 28	7.37	Aug. 19	7.24	Nov. 12	5.31
Mar. 6	6.70	July 9	7.58	Oct. 1	5.15	Dec. 17	5.77
Apr. 16	6.10						

29. C. L. Conway. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 10 S., R. 26 E. 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 12.1 above lsd, Oct. 1, 1953; lowest 7.5 above lsd, Mar. 6, 1951. Records available: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	+10.5	May 28	+9.3	Aug. 20	+9.3	Nov. 12	+9.9
Mar. 5	+9.3	July 9	+9.0	Oct. 1	+12.1	Dec. 17	+10.9
Apr. 16	+10.0						

St. Johns County

2. P. J. Manucy. Sec. 8, T. 7 S., R. 30 E. 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 22.5 above lsd, May 28, 1953. Records available: 1934, 1940-42, 1944-53. Feb. 6, +26.0; Apr. 1, +24.4; May 28, +22.5; July 15, +24.6; Sept. 10, +26.7; Nov. 3, +26.4; Dec. 16, +27.4.

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 28.1 above lsd, July 16, 1952, May 28, 1953. Records available: 1934, 1940-41, 1944-53. Feb. 6, +30.0; Apr. 1, +29.1; May 28, +28.1; July 15, +29.4; Sept. 10, +31.1; Nov. 3, +30.2; Dec. 16, +31.4.

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, 1949-53. Feb. 6, +17.3; Apr. 1, +16.6; May 28, +15.4; July 15, +15.9; Sept. 10, +17.5; Nov. 3, +18.1; Dec. 16, +18.1.

5. G. L. Oesterricker. Palm Valley. 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, 1944-53. Feb. 6, +43.3; Apr. 1, +43.2; May 28, +42.5; July 15, +41.3; Sept. 10, +44.3; Nov. 3, +44.4; Dec. 15, +43.5.

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 27.8 above lsd, Sept. 10, 1953. Records available: 1934, 1940-42, 1944, 1946-53. May 26, +30.6; July 15, +30.0; Sept. 10, +27.8; Nov. 3, +31.5; Dec. 15, +32.0.

9. Ponce de Leon Hotel. St. Augustine. Sec. 9, T. 4 S., R. 29 E. Drilled unused artesian well in Floridan aquifer, diameter 13 inches, depth 1,400 feet, cased to 170. Highest water level 34.2 above lsd, June 2, 1947; lowest 26.6 above lsd, July 16, 1952. Records available: 1930, 1940, 1946-53. Feb. 6, +28.3; Apr. 1, +27.0; May 26, +26.7; July 15, +27.2; Sept. 10, +28.9; Nov. 3, +28.8; Dec. 16, +29.5.

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, Feb. 14, 1953. Records available: 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+53.3	May 11	+55.3	July 29	+55.9	Oct. 22	+55.4
Mar. 26	+55.4	June 18	+53.4	Sept. 10	+55.4	Dec. 3	+55.4

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 9.09 below lsd, June 4, 1953. Records available: 1941-53.

5--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.88	6.43	6.32	7.84	7.70	e8.85	7.26	....	5.89	5.25	5.56	5.56
2	6.80	6.38	6.41	7.81	7.72	8.86	7.20	....	5.86	5.23	5.61	5.55
3	6.74	6.37	6.48	7.81	7.76	8.98	7.20	....	5.78	5.20	5.65	5.54
4	6.85	6.41	6.52	7.87	7.80	9.04	7.19	....	5.72	5.12	5.63	5.56
5	6.85	6.47	6.67	7.93	7.82	8.99	7.12	....	5.69	5.08	5.54	5.52
6	6.92	6.43	6.78	7.90	7.80	8.92	7.12	....	5.68	5.12	5.58	5.50
7	6.90	6.35	6.82	7.91	7.79	8.80	7.08	....	5.66	5.18	5.68	5.51
8	6.79	6.36	6.85	7.98	7.80	8.72	....	....	....	5.17	5.69	5.50
9	6.48	6.47	6.93	8.01	7.82	8.69	7.03	....	....	5.05	5.66	5.46
10	6.46	6.46	6.99	7.99	7.84	8.62	7.00	....	....	5.08	5.68	5.44
11	6.57	6.38	7.04	8.00	7.88	8.55	6.91	....	....	5.11	5.68	5.46
12	6.66	6.25	7.11	7.96	7.93	8.48	6.90	6.16	....	5.15	5.70	5.44
13	6.67	6.26	7.14	7.95	7.99	8.39	6.86	6.14	....	5.20	5.72	5.37
14	6.65	6.25	7.17	8.04	8.04	8.31	....	e6.13	....	5.21	5.75	5.40
15	6.62	6.22	7.26	7.97	8.09	8.25	....	6.11	....	5.19	5.76	5.56
16	6.60	6.30	7.32	7.88	8.15	8.20	....	6.12	....	5.19	5.77	5.57
17	6.58	6.31	7.37	7.93	8.22	8.13	....	6.12	....	5.25	5.79	5.60
18	6.54	6.31	7.37	7.89	8.25	8.05	....	6.05	....	5.28	5.82	5.65
19	6.47	6.31	7.41	7.84	8.30	7.95	....	6.03	....	5.56	5.82	5.60
20	6.43	6.25	7.48	7.88	8.37	7.85	....	6.04	....	5.25	5.80	5.52
21	6.40	6.28	7.55	7.89	8.46	7.79	....	6.05	....	5.24	5.80	5.46
22	6.45	6.32	7.57	7.88	8.54	7.74	....	6.06	....	5.23	5.80	5.47
23	6.40	6.33	7.65	7.86	8.58	7.68	....	6.01	....	5.22	5.77	5.42
24	6.37	6.28	7.71	7.83	8.62	7.59	....	5.99	5.59	5.21	5.68	5.45
25	6.55	6.28	7.79	7.80	8.66	7.52	....	6.00	5.54	5.25	5.56	5.41
26	6.57	6.27	7.86	7.76	8.68	7.45	....	6.05	5.40	5.33	5.61	5.42
27	6.51	6.27	7.85	7.74	8.69	7.44	....	6.02	5.15	5.36	5.65	5.38
28	6.42	6.30	7.81	7.73	8.78	7.43	....	5.97	5.18	5.35	5.65	5.32
29	6.42	....	7.86	7.66	8.87	7.46	....	5.89	5.22	5.41	5.64	5.33
30	6.45	....	7.88	7.65	8.85	7.38	....	5.90	5.24	5.47	5.59	5.34
31	6.42	....	7.86	....	8.84	....	....	5.90	....	5.51	....	5.33

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, 1941-53.

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	-2.56	....	-2.97	-3.39	-2.31	-3.22	-2.21	-0.67	+0.10	+0.20	-1.49	-1.05
2	2.53	....	3.03	3.37	2.26	3.27	2.31	.61	.08	+.21	1.53	1.06
3	2.40	....	e3.12	3.34	e2.29	3.49	2.30	.56	.08	-.05	1.62	1.22
4	2.34	....	e3.16	3.35	2.40	3.41	2.23	.52	.07	.15	....	1.41
5	2.31	-1.95	3.23	3.43	e2.46	3.32	2.25	.40	.08	.18	1.54	.97
6	2.35	1.96	3.25	3.29	2.42	3.21	2.10	.36	.16	.29	1.12	.72
7	2.37	1.78	3.30	3.29	2.35	3.13	2.06	.39	.15	.28	.97	.69
8	2.37	1.68	3.18	3.31	2.36	3.10	2.04	.36	.17	.25	.95	.69
9	2.10	1.71	3.19	3.39	2.43	3.00	2.06	.73	.08	.68	1.05	.74
10	....	1.71	3.50	3.41	2.42	2.93	2.04	.56	-.12	.96	1.09	.75
11	....	1.75	3.54	3.42	2.43	2.81	1.97	.22	.13	.92	1.07	.79
12	....	1.62	3.33	3.35	2.55	2.74	1.90	.32	.16	.88	1.08	.85
13	....	1.55	3.42	3.12	2.76	2.71	1.86	.42	.22	.85	1.17	.72
14	....	1.62	3.54	3.12	2.91	2.64	1.68	.35	e.29	.74	1.49	.69
15	....	1.67	3.61	3.08	2.97	2.61	1.66	.47	e-.27	.52	1.68	.75
16	....	1.61	3.52	3.02	3.03	2.65	1.65	.30	+.05	.78	1.78	.78
17	....	1.51	3.65	2.92	3.13	2.62	e1.62	.25	.27	.97	2.05	1.01
18	....	1.52	3.69	2.82	3.22	2.53	e1.57	.21	.33	.85	2.36	1.35
19	....	1.51	3.83	2.72	3.40	2.47	e1.56	.19	.34	.62	2.75	1.41
20	....	1.55	3.92	2.69	3.55	2.36	1.54	.16	+.42	.53	2.25	1.35
21	....	1.72	3.92	2.69	3.59	2.32	1.55	.16	....	.79	1.76	1.10
22	....	1.93	3.54	2.75	3.59	2.22	1.61	.13	....	.98	1.69	.72
23	....	2.10	3.51	2.68	3.59	2.12	1.37	.07	....	1.10	1.40	.61
24	....	2.34	3.53	2.59	3.57	2.06	1.25	.07	-.17	1.22	1.28	.55
25	....	2.62	3.62	2.52	3.52	2.04	1.10	.09	.29	1.21	.89	.45

9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-2.62	-3.71	-2.42	-3.59	-2.01	-1.07	-0.10	-0.19	-1.21	-e0.87	-0.42
27	2.81	3.69	2.30	3.50	1.97	1.05	-.06	+.24	1.32	e.88	.38
28	3.03	3.60	2.33	3.48	1.95	.97	+.01	.32	1.48	e.86	.60
29		3.55	2.32	3.47	1.98	.83	.10	.23	1.09	.78	.50
30		3.56	2.34	3.41	2.01	.78	e.12	+.14	.81	.84	.59
31		3.50		3.25		.71	+e.13		1.30		.44

e Estimated.

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: 1946-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.98	2.60	....	2.72	....	....	....	....	....	....
2	2.60	....	2.81	....	....	....	....	....	....
3	2.60	....	2.90	....	....	....	....	1.00	....
4	2.64	....	2.98	....	....	....	....	1.02	....
5	2.55	2.70	....	2.90	....	....	....	....	.78	....
6	3.30	2.42	....	2.50	....	....	....	....	....	....
7	3.40	1.00	....	1.88	....	....	....	....	....	....
8	2.64	.97	....	.97	....	....	0.10	0.10	....	....
9	2.67	.99	....	.58	0.14	....	.17	.11	....	....
10	2.68	1.02	....	.60	.01	....	.22	.23	....	....
11	2.39	1.08	....	.59	.19	....	.30	.27	....	....
12	2.10	.48	....	....	.30	....	.36	.32	....	....
13	2.10	.33	....	....	.40	....	.42	.41	....	....
14	2.12	.48	....	....	.48	....	.48	.46	....	....
15	2.14	.50	....	....	.53	....	.45	.50	....	....
16	2.19	.40	....	....	.50	....	.50	.54	....	....
17	2.79	2.22	.48	....	....	.22	0.60	.50	.56	....	....
18	2.85	2.71	.52	....	....	.32	.60	....	....	....	....
19	2.83	4.10	.40	....	....	.42	.60	.43	....	....	....
20	2.83	4.30	.41	....	....	.37	.50	.46	....	....	....
21	2.90	4.04	.51	....	....	.27	....	.56	....	....	....
22	2.90	3.88	.60	....	....	.31	....	....	....	....	....
23	2.90	3.90	....	....	....	.42	....	....	....	....	....
24	2.90	3.95	....	....	....	.50	....	....	....	....	....
25	2.90	4.07	....	....	....	.50	....	....	....	....	....
26	2.92	4.15	.50	2.27	....	.58	....	....	....	....	....
27	2.94	4.30	.60	2.34	.50	....	....	....	....	....	....
28	2.95	3.38	....	2.50	.38	....	....	....	....	....	....
29	2.59	....	2.52	.52	....	....	....	....	....	....
30	2.58	....	2.60	....	....	....	....	....	....	....
31	2.58	....	2.68	....	....	....	....	....	....	....

36. Brooks-Scanlon Corp. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 5 S., R. 8 E. Drilled unused artesian well in 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: 1947-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.11	10.50	9.82	9.66	6.60	8.44	6.14	5.30	....	....	....	5.67
2	10.15	10.51	9.83	9.71	6.62	8.52	6.12	5.33	....	....	....	5.76
3	10.20	10.44	9.86	9.71	6.66	8.58	6.13	5.41	3.96	....	5.02	5.75
4	10.22	10.41	9.88	9.72	6.73	8.62	6.15	5.48	3.94	....	5.07	5.63
5	10.25	10.38	9.91	9.75	6.80	8.65	6.20	5.57	3.96	....	5.09	5.35
6	10.28	10.34	9.92	9.70	6.86	8.62	6.21	5.56	4.11	....	5.00	5.20
7	10.31	10.30	9.95	8.85	6.92	8.49	6.04	5.60	4.21	....	5.02	5.00
8	10.33	10.25	9.98	8.24	6.97	8.00	5.55	5.63	4.30	....	5.08	4.95
9	10.28	10.18	10.00	8.00	7.04	7.35	5.38	5.60	4.34	....	5.11	4.94
10	10.26	10.09	10.02	7.88	7.10	7.00	5.34	5.60	4.37	....	5.13	4.97
11	10.29	10.03	10.04	7.83	7.17	6.81	....	5.67	4.44	....	5.17	5.01
12	10.10	9.95	10.03	7.63	7.25	6.70	....	5.71	4.49	....	5.21	5.03
13	10.32	9.90	10.02	7.26	7.32	6.66	....	5.80	4.54	....	5.25	5.01
14	10.33	9.92	10.03	7.04	7.38	6.65	....	5.83	4.60	....	5.28	5.00
15	10.35	9.83	10.03	6.93	7.45	6.59	....	5.82	4.62	....	5.31	5.12

36--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	10.36	9.80	10.05	6.84	7.51	6.57	....	5.60	4.66	....	5.35	5.13
17	10.37	9.81	10.07	6.79	7.55	6.59	....	5.50	4.70	....	5.39	5.27
18	e10.37	9.80	10.08	6.75	7.62	6.62	5.30	5.45	4.73	....	5.43	5.33
19	10.38	9.78	10.10	6.67	7.68	6.68	5.37	5.46	4.71	....	5.46	5.37
20	10.41	9.77	10.13	6.60	7.73	6.74	5.31	5.37	4.72	....	5.45	5.35
21	10.42	9.79	10.08	6.56	7.76	6.80	5.15	4.63	4.78	....	5.42	5.35
22	10.43	9.79	9.94	....	7.81	6.88	5.12	4.48	4.85	....	5.44	5.37
23	10.44	9.77	9.84	....	7.86	6.95	5.12	4.40	4.89	....	5.45	5.21
24	10.44	9.77	9.77	....	7.91	7.08	5.17	4.41	4.92	....	5.46	5.16
25	10.45	9.78	9.72	....	8.00	7.12	5.16	4.42	4.94	....	5.44	4.85
26	10.47	9.79	9.69	....	8.06	6.95	5.20	4.41	....	....	5.49	4.59
27	10.50	9.80	9.67	....	8.14	....	5.30	4.30	....	....	5.52	4.55
28	10.50	9.81	9.65	....	8.23	6.37	5.44	3.87	....	....	5.56	4.57
29	10.50	....	9.64	....	8.28	6.23	5.46	3.78	....	....	5.60	4.52
30	10.50	....	9.65	6.56	8.30	6.18	5.31	3.81	....	....	5.63	4.45
31	10.51	....	9.64	....	8.37	....	5.29	3.90	....	....	....	4.47

e Estimated.

Volusia County

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. 29, 1949; lowest 16.75 below lsd, July 3, 1952. Records available: 1948-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.18	6.41	6.36	12.66	6.70	7.00	9.44	...	5.5	5.1	...	...
2	6.12	5.83	6.28	12.68	7.30	8.96	9.51	...	5.4	5.1	...	...
3	6.29	6.20	5.56	6.98	12.60	7.90	9.50	...	5.1	5.0	5.0	...
4	6.10	6.12	5.30	5.80	6.86	7.40	8.13	...	5.1	4.8	5.2	...
5	6.18	6.12	6.90	7.15	8.24	6.90	7.60	7.1	5.4	4.3	...	...
6	6.41	5.68	6.00	6.86	8.29	7.06	7.10	6.5	5.3	4.9	...	...
7	....	6.22	7.29	6.73	7.00	6.80	7.38	6.6	5.4	4.8	...	...
8	....	6.10	7.40	6.21	6.00	6.47	7.72	7.0	5.5	...	...	...
9	....	5.52	12.98	5.98	6.20	6.76	7.00	6.3	e5.5	4.9	...	...
10	....	6.18	7.38	6.80	6.10	7.36	7.40	5.8	...	4.7	...	...
11	....	6.19	6.90	6.22	6.25	13.26	7.22	6.3	...	4.8	...	...
12	....	6.08	6.27	6.10	12.43	7.70	7.12	6.1	...	4.9	...	...
13	....	6.18	6.58	5.50	12.61	7.50	6.60	6.0	...	5.0	...	...
14	....	6.22	6.66	5.65	7.00	7.80	7.00	6.7	...	5.0	...	...
15	....	5.97	6.55	6.16	6.10	7.11	7.39	6.8	...	5.1	...	...
16	5.70	6.02	6.56	6.09	6.98	13.41	....	6.5	5.2	5.2	...	...
17	5.80	6.16	6.16	5.60	6.18	9.07	....	6.0	5.3	5.3	...	...
18	5.38	6.22	6.85	6.20	5.98	9.10	....	6.0	5.4	e5.4	...	...
19	5.62	6.28	6.40	6.57	12.67	7.49	....	6.3	5.3	...	...	...
20	6.29	6.21	6.40	5.30	6.52	7.00	....	5.9	5.2	...	...	...
21	6.17	6.26	7.20	5.50	6.65	7.60	....	6.0	4.8	...	...	...
22	6.18	6.33	6.48	5.70	6.45	7.20	....	6.0	5.2	...	...	...
23	6.21	6.25	6.70	7.10	6.80	7.50	....	6.1	5.0	...	...	...
24	6.21	6.19	6.25	5.75	7.50	13.61	....	5.6	5.2	...	...	...
25	6.23	5.70	5.80	7.32	7.70	9.17	....	5.9	4.9	...	...	...
26	6.30	5.78	5.80	5.94	8.80	13.74	....	5.6	5.1	...	...	...
27	6.40	6.31	6.28	5.50	8.80	7.87	....	5.9	5.1	...	...	...
28	6.38	6.37	6.88	5.47	8.84	7.20	....	5.3	4.7	...	...	...
29	6.40	....	6.26	6.69	8.99	7.38	....	5.7	5.1	...	...	...
30	6.40	....	7.09	5.60	9.00	9.20	....	5.6	4.6	...	...	...
31	6.43	....	12.58	....	13.38	....	....	5.3	....	...	...	...

e Estimated.

24--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.37	12.60	12.48	12.75	8.30	13.45	11.54	....	11.5	11.3	11.0	....
2	12.40	8.22	10.21	12.76	12.60	15.10	11.82	....	7.4	....	7.3	....
3	12.26	12.28	12.60	12.76	12.70	15.60	11.84	....	11.1	11.1	7.3	....
4	12.31	12.21	12.71	12.63	12.70	13.61	10.10	....	11.1	10.8	11.5	....
5	12.56	12.50	12.70	12.74	8.32	9.04	13.60	12.7	11.4	6.9	....	....
6	12.70	8.30	8.25	12.55	8.32	13.10	9.70	12.8	11.4	11.2	....	....
7	8.64	12.39	12.08	12.58	12.51	8.80	9.29	12.8	11.3	....	....	....
8	8.82	12.11	14.61	12.53	8.11	12.93	13.48	12.7	11.3	....	....	....
9	12.14	12.20	15.20	12.59	12.40	8.83	9.76	12.2	11.2	....	....	11.5
10	12.30	12.40	14.98	12.60	12.40	13.29	9.55	12.1	....	10.9	....	....
11	12.35	12.35	9.20	12.40	12.43	13.42	13.30	12.5	....	11.0	....	11.5
12	12.40	12.08	8.62	12.25	12.62	15.20	13.14	8.6	....	7.1	....	....
13	8.80	9.42	12.50	8.05	12.73	14.51	9.50	8.1	11.5	11.2	....	11.5
14	12.59	12.30	14.00	8.20	12.69	13.26	9.50	12.7	11.4	7.1	....	....
15	12.69	12.01	12.71	12.38	12.68	15.51	13.30	12.6	11.4	11.3	....	....
16	8.60	12.36	15.10	12.39	12.68	13.52	....	....	....	7.2	....	11.7
17	8.50	12.40	8.21	8.20	12.60	13.50	....	12.1	11.5	11.4	....	....
18	12.51	14.57	15.20	....	12.69	e9.47	....	12.0	11.4	7.2	....	....
19	8.51	12.51	8.36	12.20	12.85	13.40	....	12.4	11.4	7.2	....	....
20	12.42	9.80	13.00	8.02	12.84	9.00	....	12.4	11.4	11.2	....	11.8
21	12.23	14.56	13.00	8.30	12.80	9.40	....	12.3	7.2	7.1	....	9.5
22	12.49	12.44	12.39	7.91	12.83	9.40	....	8.3	11.5	11.2	....	11.5
23	12.48	12.45	8.20	12.54	8.68	15.66	....	11.9	7.4	7.1	....	11.8
24	12.32	12.46	12.45	12.50	13.00	13.76	....	11.9	11.5	11.3	....	....
25	12.45	9.75	8.20	12.58	13.00	15.25	....	12.0	7.3	11.1	....	....
26	12.60	8.27	8.30	7.90	10.98	15.67	....	11.9	....	7.3	....	13.9
27	12.60	14.85	14.80	7.90	8.90	13.84	....	11.9	....	7.3	....	13.9
28	12.59	14.87	12.80	7.75	11.08	9.40	....	11.7	7.2	11.2	....	13.4
29	12.61	....	....	12.41	9.06	13.75	....	11.6	....	11.2	....	13.7
30	12.67	....	12.60	8.14	13.47	13.72	....	11.6	7.2	11.4	....	....
31	12.62	....	12.70	....	13.50	....	....	7.5	....	11.2	....	11.6

e Estimated.

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 3.22 above lsd, Oct. 9, 1953; lowest* July 1952, June 1953. Records available: 1948-53.

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	+1.71	+1.14	+1.42	+1.32	+1.29	-1.52	-2.52	+1.01	+2.07	+2.56	+2.66	+1.70
2	1.63	1.28	1.58	1.38	.94	1.74	2.46	+.99	1.98	1.95	2.50	2.17
3	1.59	1.56	1.13	1.52	.76	1.24	2.8	+.64	2.00	2.50	2.30	2.01
4	1.49	1.64	.98	1.10	.78	.95	2.38	-.01	2.11	2.91	2.00	2.01
5	1.00	1.62	.84	1.58	.56	-.34	1.11	+.06	2.19	2.81	2.11	2.30
6	+0.78	1.65	1.05	1.71	.59	+.45	.59	+.60	2.20	2.65	2.42	2.61
7	.92	1.55	1.08	1.80	1.02	....	1.04	-.31	2.41	2.65	2.56	2.29
8	1.10	1.88	1.28	1.28	1.72	....	1.57	+.20	2.41	2.96	2.70	2.05
9	1.48	1.98	1.42	1.59	1.80	....	1.52	.94	2.41	3.22	2.61	2.00
10	1.78	1.75	1.15	1.72	1.79	....	.89	.70	2.40	3.16	2.42	2.06
11	2.05	1.64	1.17	2.04	+.79	+.12	-.08	+.24	2.30	3.02	2.46	2.10
12	1.28	1.58	1.35	2.02	-.24	-.35	+.81	-.02	2.29	2.74	2.35	2.03
13	1.03	1.50	1.48	1.71	-.16	-.21	.92	+.22	2.26	2.54	2.33	2.40
14	1.42	1.52	1.52	1.98	+.52	+.09	.49	-.60	2.17	2.66	2.60	2.32
15	1.53	1.74	.72	2.09	.66	-.89	.26	+.10	2.08	2.71	2.78	1.32
16	1.48	1.28	1.12	2.16	.52	1.85	+.06	.71	2.22	2.68	2.51	1.35
17	1.45	1.34	.87	2.23	.71	2.54	-.49	.50	2.36	2.67	2.24	1.50
18	1.60	.85	.68	2.04	+.26	2.76	.48	.56	2.42	2.80	2.17	1.20
19	1.73	1.20	.46	2.02	-.50	3.12	.56	.25	2.59	2.70	2.15	....
20	1.48	1.16	.34	2.33	-.24	3.14	-.12	.15	2.70	2.64	2.08	....
21	1.32	1.32	.44	2.26	+.08	2.12	+.11	.98	2.50	2.67	2.11	....
22	1.14	1.52	1.34	1.99	-.52	2.36	+.18	1.32	2.36	2.79	.55	....
23	1.12	1.80	1.78	1.76	.24	-2.43	.34	1.65	2.55	2.84	+.10	....
24	1.42	1.64	1.56	1.45	.12	2.6	.72	1.91	2.60	2.72	.00	2.15
25	1.45	1.60	1.46	1.52	.89	2.9	.89	1.91	2.56	2.78	-.01	2.48

*Obstruction in this well stops float at 3.56 feet below lsd. Therefore lowest water level is below 3.56 feet.

25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+1.15	+1.55	+1.59	+1.80	-1.52	3.0	+1.13	+1.98	+2.63	+2.62	-.10	+2.56
27	1.20	1.42	1.58	2.08	2.16	-1.86	.89	1.96	2.68	2.30	.12	2.57
28	1.18	1.12	1.45	1.87	1.79	.89	1.13	1.98	2.45	2.31	.26	2.56
29	1.22		.82	1.72	1.41	1.82	1.20	1.98	2.46	2.39	.22	2.30
30	1.34		1.18	1.58	1.19	2.89	1.04	1.36	2.43	2.35	.13	2.25
31	1.26		1.12		.68		.94	2.08		2.54		2.14

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 4.50 above lsd, Dec. 26, 1953; lowest 2.60 below lsd, June 27, 1953. Records available: 1948-53.

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	+2.42	+2.12	+1.17	+0.91	+1.36	....	....	+1.69	....	+3.52	....	....
2	2.66	2.30	2.32	.94	1.03	....	....	2.77	....	3.53	....	....
3	2.50	2.46	.84	1.00	.72	....	....	1.69	....	3.52	....	....
4	2.39	2.61	.77	2.25	.74	....	....	1.19	....	3.69	....	....
5	2.40	2.50	.66	1.07	.75	....	....	1.20	....	3.74	....	....
6	1.93	2.51	2.00	1.30	.71	....	....	2.46	....	3.60	....	....
7	1.90	2.41	.97	2.60	1.22	....	....	1.44	....	3.52	....	....
8	2.10	2.60	2.20	2.30	2.42	....	....	1.43	....	3.86	....	....
9	2.30	2.70	1.07	1.10	2.40	....	....	2.60	....	3.95	....	....
10	2.54	2.35	1.90	1.46	2.46	....	....	2.87	....	....	....	+2.90
11	2.60	2.41	2.31	2.80	2.57	....	....	2.69	....	3.62	....	4.25
12	2.66	2.40	2.10	2.92	.91	....	....	1.48	....	....	....	2.92
13	2.16	1.30	2.17	2.85	.65	....	....	2.02	....	3.48	....	4.30
14	2.21	2.30	2.20	2.71	1.00	....	....	1.30	....	3.52	....	4.40
15	2.30	1.35	1.10	1.43	.73	....	....	1.30	....	3.56	....	4.14
16	2.28	2.50	2.05	2.82	.90	....	....	2.46	+3.20	3.55	....	3.60
17	2.20	2.30	.70	2.90	1.80	....	+0.72	2.45	3.30	3.52	....	3.30
18	2.30	1.01	.61	2.81	.64	....	1.20	2.40	3.36	3.53	....	3.80
19	2.42	2.11	.52	1.74	+20	....	.65	2.60	3.50	....	....	3.68
20	2.41	1.02	.31	2.91	-.02	....	.80	2.52	3.54	....	....	4.13
21	2.44	2.06	.33	2.84	+.52	....	1.76	2.90	3.56	....	....	4.40
22	1.19	2.00	2.11	2.66	+.50	....	.94	2.90	3.40	....	....	4.20
23	2.05	2.40	2.53	2.51	-.02	....	1.09	....	3.50	....	....	4.06
24	2.42	2.45	2.47	1.35	.00	....	2.22	....	3.54	....	....	4.33
25	2.40	2.41	1.10	2.31	+.20	-2.08	1.45	....	3.50	....	....	4.23
26	2.42	1.30	2.40	2.45	-.85	2.50	2.04	....	3.55	....	....	4.50
27	2.02	2.32	2.41	2.80	-1.27	.82	2.10	....	3.66	....	....	4.48
28	2.11	1.10	2.20	e1.36	....	-.17	2.03	....	3.58	....	....	4.49
29	2.10		1.20	2.52	....	+0.1	2.61	....	3.42	....	....	3.10
30	2.40		2.12	1.50	....	-1.98	1.80	....	3.46	....	....	4.34
31	1.19		.84	....	....	....	2.71	....	....	....	....	2.94

e Estimated.

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	+0.80	+0.70	+0.55	+0.68	+0.76	....	....	+1.40	....	+3.43	....	....
2	.37	.32	+10	.65	+.46	....	....	+1.50	+2.53	2.20	....	....
3	.34	.43	-.07	.76	+.46	....	....	+.33	2.00	3.13	....	....
4	+.17	.41	-.07	.90	-.10	....	....	-.04	2.00	3.52	....	....
5	.00	.41	-.16	.87	-.02	....	....	+.50	2.25	3.09	....	....
6	-.13	.50	.00	.88	+.01	....	....	.80	2.06	3.20	....	....
7	.09	.57	.00	.20	.34	....	....	.11	....	3.40	....	....
8	.10	1.00	+.50	.28	.93	....	....	.70	....	3.50	....	....
9	.36	.30	-.06	.78	.93	....	....	1.43	....	3.65	....	....
10	-.51	.40	-.05	1.10	+1.19	....	....	.84	....	3.58	....	+2.21
11	+.99	.40	+.05	1.38	-.31	....	....	+.60	....	3.57	....	2.30
12	-.16	.42	.20	.70	-.76	....	....	-.06	....	2.80	....	2.23
13	-.04	.20	.22	.68	-.71	....	....	+.50	....	3.11	....	2.65
14	+.20	.38	+.29	1.10	+.15	....	....	-.25	....	3.41	....	2.39
15	.21	.90	-.20	1.20	.11	....	....	+.64	....	3.22	....	1.75
16	.18	.15	.01	1.30	.21	....	....	1.31	2.90	3.44	....	2.00
17	.21	+.15	.20	1.31	+.30	....	+0.10	.60	2.98	3.44	....	1.90
18	.79	-.10	.31	1.14	-.72	....	.10	.95	3.01	3.50	....	1.65
19	.34	+.10	.81	1.20	.95	....	.20	.55	3.30	....	....	2.05
20	.29	.11	.80	1.34	1.20	....	.28	.59	3.49	....	....	2.55

27--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	+0.20	+0.18	-0.36	+1.26	-0.60	....	+0.61	+0.89	+2.79	....	....	+2.40
22	.05	.62	+ .24	1.18	1.08	....	.70	1.36	3.00	....	....	2.40
23	.05	.34	.36	1.00	1.20	....	.70	1.56	3.34	....	....	2.50
24	.30	.47	.17	.92	.85	....	1.14	2.26	3.08	....	....	2.21
25	.70	.36	.23	1.00	.60	....	1.10	2.30	3.10	....	....	2.70
26	.00	.30	.33	1.07	2.41	....	1.35	2.45	3.41	....	....	2.60
27	.07	.28	.47	1.36	....	-2.60	1.10	2.44	3.54	....	....	2.96
28	.13	.10	+ .36	1.10	....	-1.64	1.54	2.53	2.61	....	....	2.60
29	.17		-.06	1.15	....	....	1.60	2.30	3.10	....	....	2.45
30	.20		+ .10	1.00	....	....	1.35	1.80	3.35	....	....	2.44
31	.20		.50	....	....	....	1.50	2.56	....	....	....	2.20

29. A. L. McKay. 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: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	16.02	Apr. 16	15.80	Aug. 19	15.99	Nov. 13	14.49
23	15.74	May 29	16.48	Oct. 2	14.66	Dec. 17	14.76
Mar. 6	16.01	July 10	16.76				

30. Herbert Cowart. 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, Oct. 2, 1953; lowest 6.7 above lsd, May 1948. Records available: 1936-53.

Jan. 6	+10.8	Apr. 16	+11.2	Aug. 19	+10.3	Nov. 13	+10.9
23	+10.6	May 29	+9.7	Oct. 2	+12.3	Dec. 17	+10.8
Mar. 6	+9.9	July 9	+9.8				

31. Florida State Road Dept. Alama. SE $\frac{1}{4}$ 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: 1936-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.69	5.52	5.31	4.92	4.72	6.03	6.28	5.08	4.18	4.12	4.58	....
2	5.69	5.49	5.36	4.94	4.78	6.08	6.32	5.07	4.10	4.12	4.62	....
3	5.66	5.37	5.40	4.99	4.87	6.18	6.33	5.04	4.04	4.07	4.65	....
4	5.72	5.32	5.43	5.04	4.94	6.24	6.22	5.02	4.04	4.05	4.66	....
5	5.77	5.30	5.48	5.10	4.95	6.25	6.15	4.82	4.05	4.09	4.63	....
6	5.82	5.27	5.54	5.11	5.03	6.24	6.12	4.75	4.10	4.08	4.63	....
7	5.84	5.21	5.57	5.00	4.95	6.21	6.12	4.76	4.07	4.05	4.67	....
8	5.82	5.12	5.57	4.98	4.85	6.21	6.15	4.77	4.06	4.16	4.70	....
9	5.70	5.15	5.62	4.97	4.82	6.22	6.18	4.74	4.07	4.32	4.70	....
10	5.57	5.15	5.65	4.94	4.84	6.26	6.17	4.73	4.08	4.39	4.72	....
11	5.54	5.11	5.63	4.95	4.87	6.26	6.08	4.72	4.05	4.32	4.69	....
12	5.55	5.07	5.47	4.90	4.92	6.20	6.00	4.73	4.09	4.20	4.68	4.55
13	5.57	5.09	5.37	4.75	4.98	6.16	5.96	4.77	4.15	4.11	4.66	4.55
14	5.55	5.13	5.30	4.74	5.04	6.14	5.95	4.84	4.22	4.05	4.63	4.53
15	5.58	5.09	5.27	4.71	5.07	6.14	5.92	4.88	4.28	4.08	4.59	4.61
16	5.54	5.14	5.25	4.65	5.14	6.15	5.82	4.94	4.28	4.15	....	4.64
17	5.54	5.17	5.25	4.72	5.14	6.17	5.75	4.98	4.27	4.23	....	4.67
18	5.53	5.24	5.25	4.75	5.24	6.17	5.74	4.97	4.25	4.30	....	4.72
19	5.52	5.25	5.27	4.67	5.27	6.16	5.74	4.95	4.17	4.30	....	4.74
20	5.52	5.24	5.34	4.60	5.35	6.16	5.74	4.95	4.10	4.32	....	4.73
21	5.48	5.25	5.34	4.61	5.40	6.20	5.74	4.86	4.11	4.35	....	4.67
22	5.51	5.25	5.00	4.64	5.47	6.24	5.75	4.74	4.15	4.38	....	4.66
23	5.51	5.24	4.76	4.66	5.52	6.23	5.74	4.60	4.20	4.42	....	4.57
24	5.42	5.22	4.67	4.70	5.58	6.22	5.71	4.44	4.20	4.44	....	4.50
25	5.45	5.20	4.58	4.73	5.64	6.15	5.68	4.28	4.18	4.49	....	4.41
26	5.49	5.21	4.61	4.67	5.69	6.16	5.64	4.17	4.13	4.55	....	4.39
27	5.48	5.24	4.65	4.61	5.73	6.17	5.55	4.07	4.05	4.60	....	4.39
28	5.45	5.27	4.68	4.62	5.84	6.18	5.44	4.10	4.04	4.57	....	4.38
29	5.46		4.75	4.64	5.92	6.22	5.26	4.17	4.05	4.53	....	4.39
30	5.50		4.83	4.64	5.95	6.25	5.16	4.16	4.12	4.53	....	4.42
31	5.50		4.87		5.99		5.12	4.20		4.55		4.48

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 3.42 below lsd, July 9, 1953. Records available: 1936-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.22	Apr. 16	1.70	Aug. 19	2.22	Nov. 12	1.02
23	1.89	May 28	2.90	Oct. 1	1.00	Dec. 17	1.14
Mar. 6	2.24	July 9	3.42				

Wakulla County

2. O. P. Shields. 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: 1946-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.77	2.17	....	2.22	1.48	2.05	....	2.14	1.72	1.45	2.08	2.32
2	2.15	2.08	....	2.20	1.56	2.13	....	2.19	....	1.57	2.12	2.25
3	2.63	2.04	....	e2.20	1.70	2.35	....	2.28	1.61	1.74	2.12	1.79
4	3.00	2.14	....	2.32	....	2.09	....	....	....	....	2.00	1.25
5	2.58	2.18	....	2.42	1.70	1.50	....	....	1.57	1.90	1.79	1.49
6	2.44	2.01	....	1.58	1.72	....	....	2.17	1.51	1.63	2.10	1.35
7	2.22	1.55	....	1.35	e1.96	1.05	....	2.10	....	1.92	2.11	1.92
8	2.14	....	....	1.66	2.06	1.30	....	2.04	1.91	2.00	2.05	1.85
9	1.66	2.22	2.37	1.64	2.20	1.41	....	1.92	e2.07	1.90	2.20	1.61
10	....	2.04	2.23	....	2.24	1.54	....	1.94	2.14	2.23	2.25	1.85
11	2.52	1.88	1.96	1.62	2.26	1.56	....	1.79	2.17	2.10	2.45	1.84
12	2.89	1.58	2.00	....	....	1.55	....	1.87	1.96	2.05	....	1.52
13	2.64	2.09	2.04	1.51	2.02	....	....	2.03	1.93	2.10	....	1.40
14	2.49	1.91	1.96	2.12	e2.04	1.62	....	2.04	2.00	e2.06	....	1.75
15	2.37	....	....	1.39	e2.02	1.55	1.79	2.08	1.85	e2.05	2.11	2.58
16	2.36	....	....	1.66	1.91	1.70	1.90	2.05	....	e2.11	e1.85	2.30
17	2.32	....	2.03	1.88	1.98	1.78	2.01	1.91	1.77	2.05	1.64	2.60
18	2.12	....	1.98	1.50	2.13	1.90	2.06	1.95	....	1.90	1.60	2.75
19	2.07	....	....	1.85	2.06	2.00	2.06	1.80	1.34	1.96	1.65	2.50
20	2.11	....	2.20	2.31	2.17	....	2.12	1.73	1.39	2.05	....	....
21	2.18	....	1.90	2.40	2.22	....	1.94	....	1.49	2.01	1.53	....
22	2.34	....	1.77	e2.33	2.32	2.02	1.80	1.68	1.77	2.00	1.48	....
23	1.86	....	1.81	2.14	2.45	2.02	1.74	1.65	1.91	....	....	....
24	2.02	....	1.82	....	2.53	2.07	1.86	1.63	2.02	....	....	e2.15
25	2.74	....	....	e1.78	2.59	1.96	1.98	1.53	1.52	2.00	1.97	2.06
26	2.56	....	2.71	1.56	2.56	1.87	2.11	1.56	....	....	2.30	2.25
27	2.16	....	2.53	2.06	2.64	....	2.00	1.50	....	....	e2.25	2.18
28	2.12	....	2.43	2.07	2.52	1.70	1.90	1.56	....	1.86	....	e1.82
29	2.40	....	2.69	1.68	2.41	1.71	1.95	1.56	1.79	2.18	2.42	1.68
30	2.38	....	2.53	1.08	2.43	1.82	1.96	1.65	1.36	2.27	2.29	....
31	2.20	....	2.38	....	2.23	....	2.05	1.78	....	2.15	....	2.13

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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	7.97	Apr. 22	7.77	July 14	7.26	Sept. 29	6.98
Mar. 12	8.49	June 4	7.10	Aug. 26	7.49	Nov. 17	6.65

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 5.82 above lsd, Dec. 1, 1953. Records available: 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	+7.3	May 11	+7.4	July 28	+6.60	Oct. 20	+6.3
Mar. 24	+6.45	June 17	+6.42	Sept. 9	+6.45	Dec. 1	+5.82

13. O. H. Saltsman. Point Washington. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35 T. 1 S., R. 19 W. Drilled public-supply artesian well in Floridan aquifer, 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 12.2 above lsd, June 17, 1953. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	+14.2	May 11	+15.2	July 28	+14.5	Oct. 20	+14.6
Mar. 24	+15.2	June 17	+12.2	Sept. 9	+14.4	Dec. 1	+14.5

14. Walton County. 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: 1946-53. Feb. 10, +10.1; Mar. 24, +10.5; May 11, +10.8; July 28, +10.1; Sept. 9, +9.1; Oct. 20, +10.2; Dec. 1, +10.2.

17. 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 27.7 above lsd, July 16, 1952. Records available: 1947-53. Feb. 10, +28.1; Mar. 24, +29.1; May 11, +29.2; July 28, +28.8; Sept. 9, +28.6; Oct. 20, +28.7; Dec. 1, +29.1.

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 17.98 below lsd, Nov. 23, 1952. Records available: 1946-53.

Feb. 14	11.25	May 12	9.47	Aug. 1	14.83	Oct. 24	11.94
Mar. 29	11.20	June 19	15.10	Sept. 12	c13.55	Dec. 10	8.76

c Nearby well being pumped.

GEORGIA

By Robert L. Wait and Lucy H. Cunningham

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 1953. Measurements were made in 101 wells in 27 counties. Recording gages were maintained on four wells throughout the year; in June a fifth recording gage was installed on Chattahoochee well 9, on Fort Benning military reservation. Figures 14, 15, and 16 show the location of observation wells.

Precipitation

According to U. S. Weather Bureau records, precipitation for 1953 was 111 percent of normal for the State as a whole, the seventh wettest year on record. Precipitation was only slightly above normal for the northern portion of the State, but in the central and southern portion was more than 120 percent of normal. During the months of January, February, April, May, June, July, September, and December, rainfall was above normal, September being the wettest for that month since 1929, and the month of December the wettest on record. March, August, October, and November were deficient in rainfall, October being the driest for that month since 1943.

Percent of normal precipitation in Georgia, 1953

Month	Percent	Month	Percent	Month	Percent
Jan.	110	May	122	Sept.	210
Feb.	134	June	107	Oct.	30
Mar.	72	July	119	Nov.	60
Apr.	138	Aug.	73	Dec.	204

Pumpage

Water levels in three areas along the Atlantic Coast of Georgia are affected by heavy pumping. These areas include the cities of Savannah, Brunswick, and St. Marys, which are the sites of the largest withdrawals of ground water both for industrial use and for public water supply. In the Savannah area this removal of ground water has resulted in a cone of depression extending over 20 miles in all directions. Data are not available at present to determine the extent to which water levels have been lowered in other areas of intensive pumping.

The metered pumpage reported by the two largest water users in the Savannah area was 31.98 million gallons per day or 98.11 acre-feet per day. At Brunswick, where three users reported, the metered pumpage amounted to 54.80 mgd or 168.13 acre-feet per day. At St. Marys only one user, St. Marys Kraft Corp., consumed 12.49 mgd or about 38.31 acre-feet per day. The daily average metered pumpage of these three areas is shown in the accompanying table.

Daily average metered pumpage in acre-feet

City	1950	1951	1952	1953
Savannah	83.95	82.90	90.02	98.11
Brunswick	133.19	151.56	142.85	168.13
St. Marys	29.39	41.66	38.31	38.31

Interpretation of Water-Level Fluctuations

In the Piedmont area of Georgia most wells are water-table wells. Here water levels fluctuate rapidly in response to rainfall as compared with water levels in artesian wells in the Coastal Plain. The location of wells with respect to topography, the type and thickness of residual cover overlying the bedrock, the type and the amount of fracturing all influence fluctuations of water levels in this province.

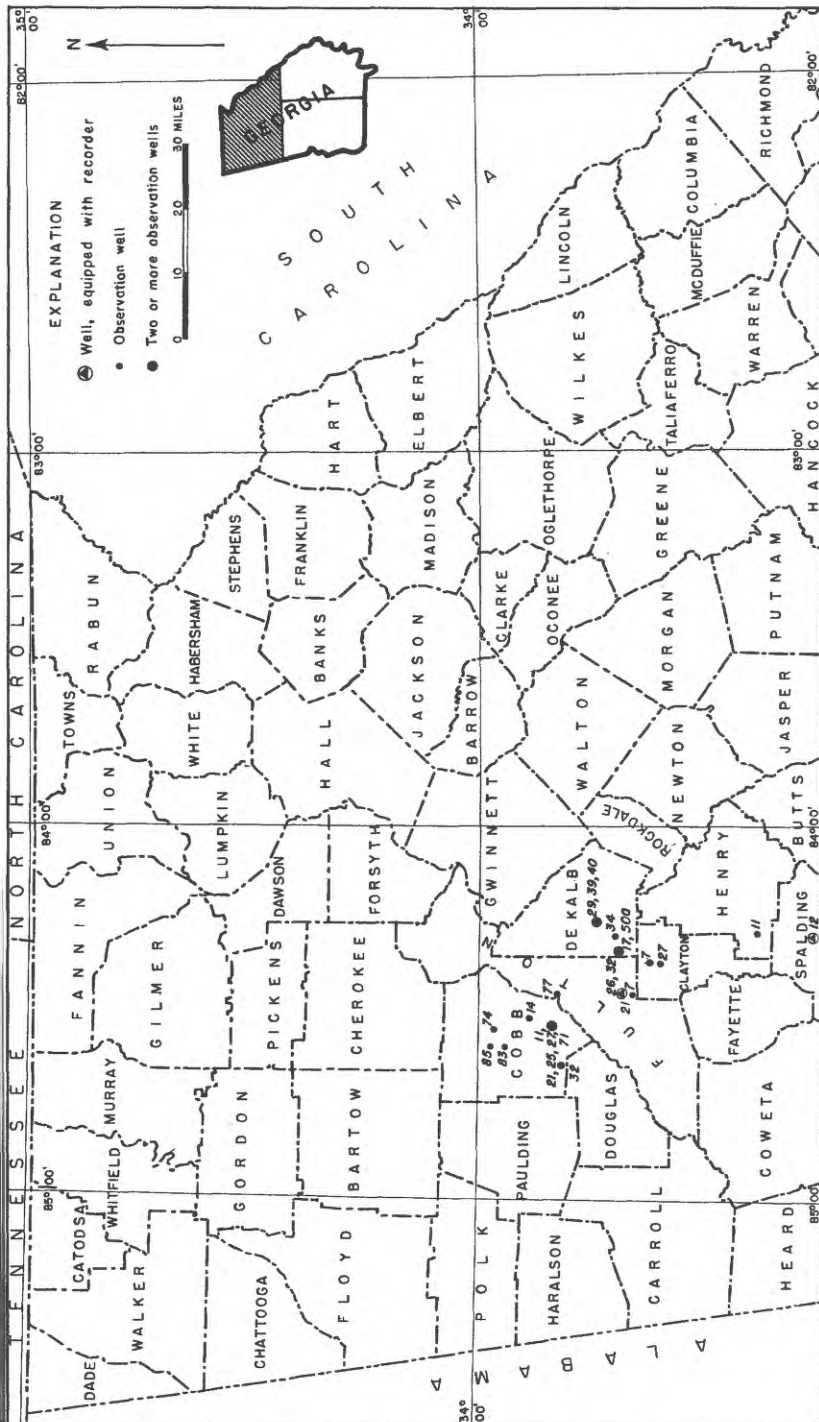


Figure 14. --Location of observation wells in northern Georgia, 1953.

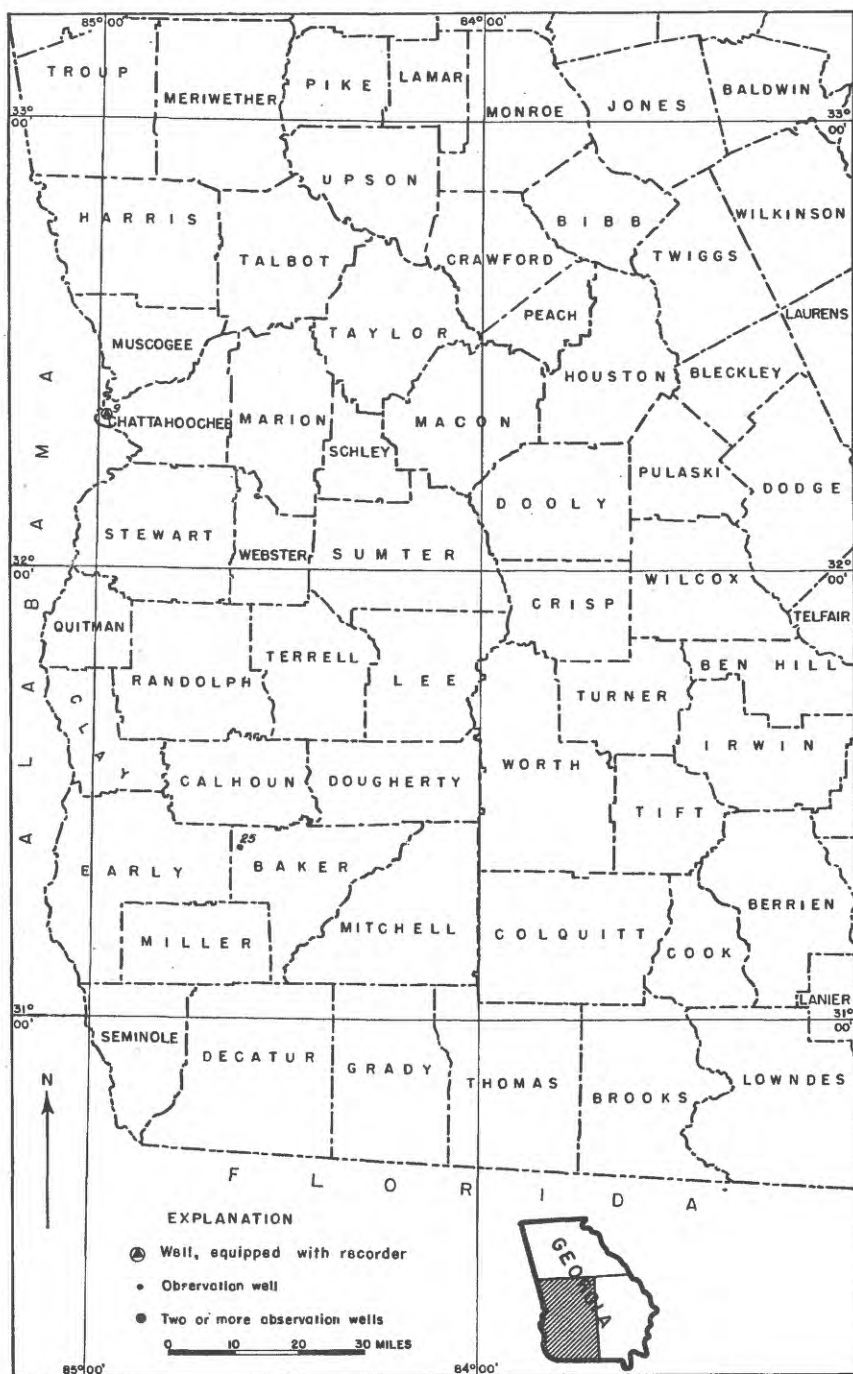


Figure 15. --Location of observation wells in southwestern Georgia, 1953.

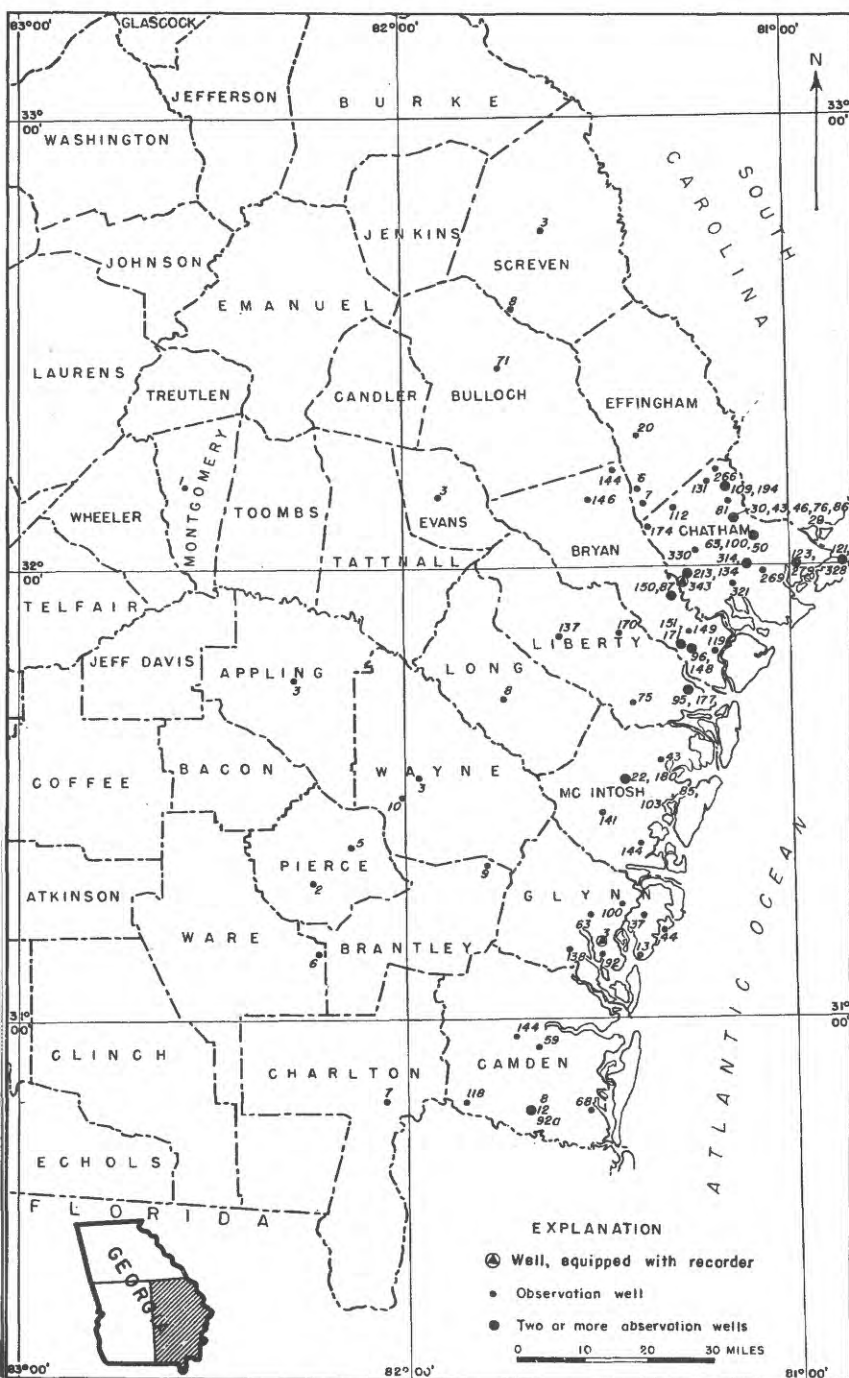


Figure 16. --Location of observation wells in southeastern Georgia, 1953.

In the Coastal Plain, artesian conditions prevail. Areas of recharge are usually many miles distant from the wells. The effect of rainfall either at the recharge area, or locally, may not be observed immediately. The wells, however, respond rapidly to nearby pumping or heavy pumping at a distance. In areas near the coast, tidal fluctuations may also be observed in artesian wells. Dug wells in the Coastal Plain are often water-table wells, which respond rapidly to local rainfall. An example of this was recorded at Chatham 343, at the U. S. Plant Introduction Station, 12 miles southwest of Savannah, on July 28 when a 5.36-inch rain produced a 4.31-foot rise in water level. Well 343 is in sediments of Pleistocene and Recent age. No July 28 records are available on artesian wells, but it is doubtful that any significant change would have been noted. New highs were recorded in two wells in the Piedmont area, probably the result of above-normal local rainfall during 1953. New lows were recorded in 40 wells in 16 counties in the Coastal Plain. All of these wells are utilizing the Ocala limestone. The cause of these record lows is increased pumpage at Savannah and Brunswick and deficient rainfall since 1950.

Water levels for December 1953, as compared with December 1952, in the northern part of Chatham County and southern Effingham County show declines ranging from 0.40 foot for Effingham well 20 to 3.18 feet for Chatham well 131. In northern Bryan County, well 144 declined 0.49 foot as compared with the year-end measurement for 1952. In the industrial area near Savannah, year-end level ranged from 1.60 feet (Chatham 30) to 4.00 feet (Chatham 63) lower than in 1952. On Tybee Island, declines of 2.23 feet to 4.28 feet were recorded for wells 123 and 279, respectively. Declines in the southern part of Chatham County ranged from 1.71 feet in well 213 to 4.20 feet in well 314, which is near the center of the cone of depression in the Savannah area. In Liberty and McIntosh Counties, water levels showed slight declines for the most part, although rises occurred in several wells in both counties. In Glynn County, all wells except one declined. These declines ranged from 0.15 foot in well 63 to 6.85 feet in well 13, the greatest decline being nearest to the center of pumpage at Brunswick. In Camden County, declines were recorded in all but one well, again the greatest declines occurring nearest the heavily pumped portion of the area. Wells in Charlton, Ware, Evans, Screven, and Bulloch Counties showed declines of less than 1 foot as compared with 1952. In Wayne, Pierce, Long, Appling, and Montgomery Counties, levels were slightly higher than in December 1952, ranging from 0.54 foot to 1.16 feet higher.

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. Measurements for Chatham County well 46 were furnished through the courtesy of Union Bag and Paper Corporation. Measurements in Chatham County well 343 were made by the Plant Introduction Station, U. S. Department of Agriculture.

Well-Numbering System

In Georgia wells are numbered serially within each county and counties are listed alphabetically.

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°46'15", long. 82°19'54". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 625 feet, cased to 525. Land-surface datum is 204 feet above msl. Highest water level 128.6 below lsd, Sept. 20, 1946; lowest 132.89 below lsd, Dec. 9, 1952. Records available: 1940-53. Mar. 12, 132.60; Dec. 6, 131.80.

Baker County

25. Emory University Field Station well 35. Patmos. Lat. 31°23'09", long. 84°37'26". Drilled unused water-table well in residuum, diameter 6 inches, depth 19 feet, cased to 2 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: 1940-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	12.52	May 6	12.24	Sept. 2	19.30	Nov. 4	13.34
Mar. 4	7.93	27	10.79	Oct. 7	8.30	Dec. 2	15.61
Apr. 1	9.55	July 2	9.96				

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. Land-surface datum is 60 feet above msl. Highest water level 1.04 below lsd, Dec. 8, 1947; lowest 8.00 below lsd, June 30, 1953. Records available: 1941-43, 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	7.20	Apr. 30	7.11	July 29	7.84	Oct. 31	6.72
Feb. 28	7.19	May 30	7.48	Aug. 31	7.81	Nov. 30	6.60
Mar. 31	7.19	June 30	8.00	Sept. 30	7.30	Dec. 31	5.90

Bryan County

87. Henry Ford. 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. Land-surface datum is 24.44 feet above msl. Highest water level 4.53 above lsd, Oct. 31, 1939; lowest 2.39 below lsd, Dec. 3, 1953. Records available: 1939-53. May 20, 1.60; Dec. 3, 2.39.

119. Henry Ford. 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 5.00 above lsd, Dec. 6, 1952. Records available: 1939-47, 1949-53. May 20, +5.75; Dec. 3, +5.52.

144. U. Butler. Eldora. Lat. 32°13'54", long. 81°12'47". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet, cased to 80. Land-surface datum is 67.4 feet above msl. Highest water level 19.85 below lsd, Nov. 29, 1948; lowest 23.23 below lsd, Dec. 2, 1953. Records available: 1942-53. May 19, 22.35; Dec. 2, 23.23.

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. Land-surface datum is 68 feet above msl. Highest water level 19.53 below lsd, Mar. 6, 1941; lowest 24.44 below lsd, Dec. 5, 1952. Records available: 1941-53. May 19, 24.35; Dec. 2, 24.60, pumping.

148. Henry Ford. 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. Land-surface datum is 17 feet above msl. Highest water level 7.40 above lsd, Mar. 25, 1941; lowest 0.60 above lsd, Dec. 3, 1953. Records available: 1940-53. May 20, +3.40; Dec. 3, +0.60.

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 1.50 above lsd, Oct. 3, 1952. Records available: 1940-47, 1949-53. May 20, +1.74; Dec. 3, +1.56.

150. Henry Ford. 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. Land-surface datum is 15 feet above msl. Highest water level 12.57 above lsd, Dec. 17, 1940; lowest 7.84 above lsd, Oct. 3, 1952. Records available: 1940-53. May 20, +8.53; Dec. 3, +8.17.

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. Land-surface datum is 18 feet above msl. Highest water level 8.3 above lsd, Mar. 25, 1941; lowest 3.60 above lsd, Dec. 3, 1953. Records available: 1941-53. May 20, +4.25; Dec. 3, +3.60.

171. Deal & Purvis. Belfast. Lat. 31°49'18", long. 81°17'22". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 600 feet, cased to 120. Land-surface datum is 17 feet above msl. Highest water level 8.03 above lsd, Mar. 5, 1947; lowest 3.27 above lsd, July 16, 1952. Records available: 1942-53. May 20, +5.63; Dec. 3, +4.65.

Bulloch County

71. Wingate Faceville. Lat. 32°27'20", long. 81°45'13". 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 73.30 below lsd, July 31, 1952, June 30, 1953. Records available: 1948-52.

Jan. 31	72.30	Apr. 30	71.60	July 31	71.80	Oct. 31	72.30
Feb. 28	72.30	May 31	72.30	Aug. 29	72.30	Nov. 29	72.28
Mar. 30	71.90	June 30	73.30	Sept. 30	71.80	Dec. 31	72.30

Camden County

8. M. L. Hill. Kingsland. Lat. 30°47'15", long. 81°41'08". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 486 feet, cased to 300. Land-surface datum is 36.5 feet above msl. Highest water level 26.0 above lsd, June 23, 1939; lowest 18.25 above lsd, Dec. 8, 1952. Records available: 1938-53. May 21, +18.35; Dec. 5, +18.78.

12. J. J. Godley. Kingsland. Lat. 30°48'00", long. 81°41'26". Drilled 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 19.19 above lsd, Dec. 8, 1952. Records available: 1938-53. May 21, +19.28; Dec. 5, +19.32.

59. Zack Colson. Lat. 30°56'34", long. 81°40'17". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet. Land-surface datum is 26 feet above msl. Highest water level 32.7 above lsd, June 22, 1939; lowest 26.12 above lsd, Dec. 8, 1952. Records available: 1939-46, 1949-53. May 21, +26.88.

68. Kings Bay Club. Lat. 30°47'53", long. 81°31'03". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 525 feet, cased to 320. 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, 1949-53. May 21, +37.15; Dec. 5, +37.62.

92a. Camden Race Track. Lat. 30°47'26", long. 81°39'29". Drilled unused artesian well in Ocala limestone, diameter 2 inches, depth about 500 feet. Land-surface datum is 26 feet above msl. Highest water level 34.95 above lsd, Sept. 19, 1939; lowest 28.41 above lsd, Dec. 8, 1952. Records available: 1939-52. No measurement made in 1953.

118. Oscar Silcox. Lat. 30°47'46", long. 81°49'19". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet. Land-surface datum is 20 feet above msl. Highest water level 40.87 above lsd, Dec. 7, 1947; lowest 34.50 above lsd, Dec. 8, 1952, May 21, 1953. Records available: 1939, 1941-53. May 21, +34.50; Dec. 5, +35.82.

144. G. F. Rawl. 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. Land-surface datum is 12 feet above msl. Highest water level 40.1 above lsd, Dec. 8, 1939; lowest 29.95 above lsd, May 21, 1953. Records available: 1939-43, 1945-53. May 21, +29.95.

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. Land-surface datum is 74.95 feet above msl. Highest water level 12.04 below lsd, Mar. 12, 1942; lowest 18.84 below lsd, May 21, 1953. Records available: 1941-43, 1945-53. May 21, 18.84; Dec. 5, 17.50.

Chatham County

28. Reliance Fertilizer Co. Lat. 32°05'02", long. 81°07'53". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 480 feet, cased to 160. Land-surface datum is 17.87 feet above msl. Highest water level 33.25 below lsd, Oct. 11, 1939; lowest 74.38 below lsd, Oct. 2, 1952. Records available: 1932, 1937-42, 1952-53. May 19, 73.18; Dec. 2, 74.23.

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 234. Land-surface datum is 11.53 feet above msl. Highest water level 24.81 below lsd, Oct. 11, 1939; lowest 67.59 below lsd, May 20, 1953. Records available: 1938-53. May 20, 67.59; Dec. 1, 67.05.

43. Southern Cotton Oil Co. Lat. 32°05'32", long. 81°06'42". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 1,000 feet, cased to 255. 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: 1940-53. May 19, 92.92, 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 1,010 feet, cased to 220. 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, 1943-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	132.6	Mar. 26	133.6	June 4	142.6	Oct. 29	140.6
15	137.6	Apr. 9	133.6	18	132.6	Nov. 12	139.6
29	142.6	23	133.6	July 2	132.6	26	136.6
Feb. 12	137.6	May 7	132.6	Oct. 1	137.6	Dec. 10	137.6
26	137.6	21	142.6	15	141.6	23	139.6
Mar. 12	132.6						

50. Hercules Powder Co. Savannah. Lat. 32°05'18", long. 81°09'05". Drilled unused industrial artesian well in Ocala limestone, diameter 4 inches, depth 420 feet, cased to 80. Land-surface datum is 18.5 feet above msl. Highest water level 23.74 below lsd, Jan. 20, 1939; lowest 64.74 below lsd, May 19, 1953. Records available: 1939, 1953. May 19, 64.74; Dec. 2, 60.20, pumped recently.

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. Land-surface datum is 20.07 feet above msl. Highest water level 46.52 below lsd, Oct. 18, 1939; lowest 81.04 below lsd, July 15, 1952. Records available: 1939-53. May 19, 79.37; Dec. 2, 79.46.

76. Pierpont Manufacturing Co. Lathrop Ave., Savannah. 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. Land-surface datum is 13.1 feet above msl. Highest water level 53.26 below lsd, May 8, 1939; lowest 94.23 below lsd, Sept. 30, 1952. Records available: 1939-53. May 19, 91.98; Dec. 1, 91.78.

81. Gordon Saussy. Lat. 32°08'24", long. 81°08'42". Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 522 feet, cased to 60. Land-surface datum is 15.1 feet above msl. Highest water level 36.12 below lsd, Mar. 19, 1942; lowest 57.75 below lsd, Aug. 31, 1950. Records available: 1940-53. May 20, 52.75; Dec. 1, 53.64.

84. Standard Oil Co. Lat. 32°04'37", long. 81°02'31". Drilled industrial artesian well in Ocala limestone, diameter 10 inches, depth 652 feet, cased to 230. Land-surface datum is 6.1 feet above msl. Highest water level 20.75 below lsd, Jan. 4, 1941; lowest 36.30 below lsd, May 19, 1953. Records available: 1940-53. May 19, 36.30. Measurement discontinued.

86. Southern Cotton Oil Co. Lathrop Ave., Savannah. Lat. 32°05'32", long. 81°06'42". Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 665 feet, cased to 240. Land-surface datum is 9.2 feet above msl. Highest water level 57.25 below lsd, Nov. 30, 1940; lowest 102.95 below lsd, Sept. 30, 1952. Records available: 1940-47, 1949-53. May 19, 97.15, pumping; Dec. 2, 97.25, pumping.

100. Producers Cooperative Association. Savannah. Lat. 32°04'22", long. 81°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: 1943-53. May 19, 38.58; Dec. 2, 39.94.

109. State Highway Department. Lat. 32°09'40", long. 81°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 above lsd, Jan. 21, 1939; lowest 24.92 below lsd, Sept. 29, 1952. Records available: 1938-52. No measurement made in 1953.

112. Philip Wise. Bloomingdale. Lat. 32°07'40", long. 81°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 6.25 below lsd, Oct. 1, 1952. Records available: 1938-41, 1945-53. May 19, 5.69.

121. Robert Schneider. Lat. 32°01'12", long. 80°51'23". Drilled domestic artesian well in Hawthorn formation, diameter 2 inches, depth 174 feet, cased to about 85. Land-surface datum is 5.8 feet above msl. Highest water level 1.37 below lsd, Sept. 23, 1939; lowest 9.49 below lsd, July 16, 1952. Records available: 1939-53. May 19, 8.12; Dec. 2, 8.14.

123. Henry Walthour Estate. Wilmington Island. Lat. 32°00'34", long. 80°51'11". Drilled unused artesian well in Ocala limestone, diameter 3 inches, depth 235 feet, cased to 100. Land-surface datum is 5.2 feet above msl. Highest water level 4.06 below lsd, Oct. 12, 1939; lowest 14.03 below lsd, Dec. 2, 1953. Records available: 1939-53. May 19, 13.05; Dec. 2, 14.03.

131. C. E. Oliver. Lat. 32°11'19", long. 81°11'33". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 300 feet, cased to 40. Land-surface datum is 14.3 feet above msl. Highest water level 1.28 below lsd, Oct. 26, 1939; lowest 16.90 below lsd, Dec. 1, 1953. Records available: 1938-53. May 20, 13.66; Dec. 1, 16.90.

134. J. C. Sheffield. Lat. 31°59'27", long. 81°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 35.85 below lsd, May 19, 1953. Records available: 1938, 1942-53. May 19, 35.85; Dec. 2, 35.80.

174. H. C. Connor. Lat. 32°05'06", long. 81°21'34". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 340 feet, cased to 102. Land-surface datum is 23.9 feet above msl. Highest water level 6.3 above lsd, Dec. 1, 1938; lowest 2.85 above lsd, July 15, 1952. Records available: 1938, 1940-52. No measurement made in 1953.

194. Mrs. W. W. Keller, Sr. Drakies Point. 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. Land-surface datum is 16.06 feet above msl. Highest water level 9.91 below lsd, Oct. 18, 1939; lowest 28.34 below lsd, Dec. 1, 1953. Records available: 1938-53. May 20, 26.93; Dec. 1, 28.34.

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. Land-surface datum is 15.6 feet above msl. Highest water level 2.46 above lsd, Nov. 27, 1940; lowest 4.98 below lsd, Dec. 3, 1953. Records available: 1939-53. May 20, 4.06; Dec. 3, 4.98.

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 11.65 below lsd, Dec. 1, 1953. Records available: 1939-53. May 20, 9.74; Dec. 1, 11.65.

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. Land-surface datum is 10.8 feet above msl. Highest water level 9.51 below lsd, May 8, 1939; lowest 21.90 below lsd, Dec. 2, 1953. Records available: 1939-53. May 19, 22.70, pumping; Dec. 2, 21.90.

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 about 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 27.66 below lsd, July 16, 1952. Records available: 1939-52. Measurement discontinued.

279. J. B. Pound Hotel Corp. General Oglethorpe Hotel, 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. Land-surface datum is 11.1 feet above msl. Highest water level 15.89 below lsd, Jan. 18, 1941; lowest 27.14 below lsd, Dec. 2, 1953. Records available: 1939-53. May 19, 26.43; Dec. 2, 27.14.

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. Land-surface datum is 21.5 feet above msl. Highest water level 23.0 below lsd, Jan. 29, 1940; lowest 38.21 below lsd, May 19, 1953. Records available: 1940-53. May 19, 38.21; Dec. 2, 38.12.

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. Land-surface datum is 16.2 feet above msl. Highest water level 8.47 below lsd, Mar. 7, 1941; lowest 17.04 below lsd, Dec. 2, 1953. Records available: 1940-53. May 19, 16.36; Dec. 2, 17.04.

328. U. S. Dept. of the Army. Fort Screven, 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 13.01 below lsd, July 16, 1952. Records available: 1940-53. May 19, 12.40; Dec. 2, 10.48.

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. Land-surface datum is 9.52 feet above msl. Highest water level 1.81 below lsd, Aug. 11, 1941; lowest 6.14 below lsd, Oct. 3, 1952. Records available: 1941-47, 1949-53. May 20, 5.96.

343. U. S. Department of Agriculture. Barbour Lathrop Plant Introduction Station. Lat. $31^{\circ}59'35''$, long. $81^{\circ}15'44''$. Drilled observation water-table well in sediments of Pleistocene and Recent age, diameter 6 inches, depth 15 feet, cased to 15 with tile. Land-surface datum is 18.67 feet above msl. Highest water level 0.05 below lsd, Sept. 26, 1953; lowest 10.72 below lsd, Dec. 25, 1942. Records available: 1942-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.11	7.50	4.56	4.72	5.19	7.82	8.56	3.41	2.61	0.28	4.17	5.18
2	10.11	7.56	4.61	4.80	5.26	7.98	8.61	3.60	2.76	.95	4.25	5.23
3	10.04	7.17	4.66	4.90	....	8.05	8.66	3.67	2.95	1.40	4.30	5.26
4	10.03	6.53	4.66	4.97	....	8.11	8.72	3.82	3.11	1.66	4.35	5.29
5	10.01	6.23	4.79	5.05	....	8.17	8.63	3.51	3.25	1.80	4.42	5.04
6	10.00	5.96	4.83	5.10	5.43	8.23	8.70	3.72	2.59	1.98	4.38	4.81
7	9.98	5.83	4.88	5.04	5.47	8.26	8.73	3.67	2.01	2.15	4.39	4.59
8	9.92	4.81	4.93	5.02	5.53	8.35	8.78	2.61	2.31	2.23	4.44	4.39
9	9.83	4.23	5.07	4.99	5.60	8.43	8.80	1.67	2.54	2.28	4.49	4.33
10	9.83	4.25	5.06	4.96	5.67	8.43	8.66	2.10	2.72	2.39	4.54	4.35

343--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	9.82	4.30	5.04	4.49	5.94	8.52	8.50	1.85	2.85	2.50	4.58	4.40
12	9.82	4.34	4.19	4.29	6.04	8.60	8.40	2.14	2.99	2.57	4.62	4.41
13	9.81	4.49	3.98	3.86	6.15	8.61	8.36	2.40	3.13	2.69	4.68	4.46
14	9.75	4.55	4.01	3.84	6.24	8.24	8.36	2.63	3.28	2.77	4.73	4.12
15	9.72	4.66	5.06	3.90	6.34	8.19	8.36	2.81	3.38	2.84	4.77	3.96
16	9.68	4.69	4.12	3.98	6.44	8.13	8.33	2.97	3.49	2.93	4.84	3.96
17	9.63	4.72	4.18	4.11	6.54	8.05	8.30	3.08	3.58	3.03	4.89	4.03
18	9.59	4.81	4.25	4.17	6.63	8.03	8.29	3.18	3.68	2.11	4.96	4.11
19	9.52	4.82	4.30	4.27	6.72	8.06	8.32	3.01	3.77	....	5.01	4.16
20	9.44	4.83	4.35	j4.36	6.84	8.05	7.45	2.78	2.81	3.25	5.06	4.19
21	9.24	4.93	4.40	4.44	6.90	8.07	6.93	2.92	2.86	3.33	5.01	4.25
22	8.86	....	4.40	4.53	6.96	8.10	6.73	3.07	2.79	3.42	4.79	4.29
23	8.44	4.93	4.20	4.61	7.04	8.16	6.63	3.22	2.95	3.49	4.70	4.23
24	8.14	4.74	....	4.70	7.13	8.22	6.64	3.31	3.06	3.58	4.70	4.18
25	7.97	4.71	....	j4.76	7.23	8.29	6.69	3.42	2.44	3.67	4.75	4.12
26	7.84	4.69	....	j4.85	....	8.35	6.69	3.52	.05	3.75	4.85	3.66
27	7.70	4.61	....	4.92	7.40	8.39	2.33	3.42	.17	3.82	4.92	3.61
28	7.57	4.55	....	4.99	7.55	8.44	2.65	2.62	.55	3.87	5.04	3.65
29	7.60	....	....	5.04	7.62	8.51	2.91	2.62	.93	3.94	5.09	3.66
30	7.57	....	4.58	5.11	7.66	8.54	3.13	2.81	.20	4.03	5.14	3.56
31	7.51	....	4.65	....	7.73	....	3.31	2.93	....	4.11	....	3.33

j Interpolated.

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 215-220, 230-235, 280-290, 540-550. Land-surface datum is 255 feet above msl. Highest water level 1.76 below lsd, May 4, 1951; lowest 13.30 below lsd, Oct. 3, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.99	11.02	12.58	12.82	9.33	7.15
2	10.90	10.95	12.40	13.28	9.25	7.10
3	10.12	10.70	12.20	13.30	9.15	7.00
4	9.93	10.53	12.28	13.04	8.98	6.77
5	9.78	10.80	12.06	12.88	8.89	6.55
6	10.05	11.15	11.90	12.63	8.83	6.21
7	10.29	11.43	11.75	12.45	8.76	6.22
8	10.42	11.36	12.19	12.23	8.60	6.20
9	10.33	11.22	....	12.05	8.60	6.15
10	10.16	11.40	....	11.89	8.53	6.15
11	9.99	10.88	....	11.72	8.45	6.12
12	h3.88	....	....	....	....	9.84	11.16	....	....	8.37	6.01
13	9.75	11.50	....	11.61	8.33	5.87
14	h2.53	h2.53	....	....	10.14	11.71	....	10.48	8.22	5.83
15	h4.64	....	....	....	....	....	10.37	11.75	12.17	11.30	8.16	5.82
16	9.57	11.60	12.34	11.10	8.08	5.79
17	9.50	11.41	12.74	10.98	8.02	5.82
18	10.37	11.22	12.95	10.86	7.96	5.83
19	10.15	11.48	13.12	10.74	7.88	5.79
20	9.92	11.72	12.84	10.59	7.76	5.70
21	10.26	11.92	12.62	10.46	7.71	5.61
22	10.47	11.94	12.48	10.33	7.58	5.58
23	9.26	9.69	11.78	12.72	10.16	7.52	5.58
24	9.33	9.63	11.57	13.06	10.05	7.38	5.56
25	10.93	9.48	11.41	13.10	9.99	7.37	5.41
26	10.87	9.22	11.75	12.68	9.89	7.36	5.41
27	9.67	9.16	12.05	12.43	9.74	7.31	5.45
28	9.40	....	12.25	12.16	9.64	7.30	5.35
29	9.36	....	12.51	12.03	9.58	7.26	....
30	9.68	....	12.89	12.49	9.50	7.21	5.27
31	11.03	12.79	....	9.40	....	5.28

h Tape measurement.

Clayton County

7. H. P. Lieupo. Forest Park. Lat. 33°37'05", long. 84°23'12". Drilled domestic water-table well in granite, diameter 8 inches, depth 184 feet, cased to 14. 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: 1943-53. May 28, 24.14; Dec. 15, 30.13.

27. G. T. Humphrey. Lat. 33°35'58", long. 84°22'38". Drilled domestic water-table well in granite, diameter 6 inches, depth 200 feet, cased to 200. 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: 1943-53. Dec. 15, 33.44.

Cobb County

11. Mrs. J. H. Carmichael. Oakdale. Lat. 33°50'27", long. 84°28'47". Drilled unused water-table well in schist, diameter 6 inches, depth 112 feet, cased to 14. Land-surface datum is 900 feet above msl. Highest water level 21.66 below lsd, May 27, 1953; lowest 33.47 below lsd, Dec. 22, 1947. Records available: 1943-53. May 27, 21.66; Dec. 16, 26.89.

14. J. A. Rust. Smyrna. Lat. 33°52'21", long. 84°29'59". Drilled industrial water-table well in injection complex, diameter 6 inches, depth 117 feet, cased to 40. Land-surface datum is 1,020 feet above msl. Highest water level 37.27 below lsd, Feb. 28, 1946; lowest 47.95 below lsd, Apr. 10, 1947. Records available: 1943-53. May 27, 43.51; Dec. 16, 46.78, pumping.

21. J. B. Gaines. Oakdale. Lat. 33°50'07", long. 84°28'10". Drilled domestic water-table well, diameter 6 inches, depth 85 feet, cased to 40. 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: 1943-53. May 27, 31.12; Dec. 16, 34.03.

25. J. T. Cox. Oakdale. Lat. 33°50'09", long. 84°28'22". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 70 feet, cased to 12. 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: 1943-53. May 27, 14.12; Dec. 16, 14.60.

27. R. D. Webb. 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: 1943-53. May 27, 18.26; Dec. 16, 23.32.

32. Mrs. F. C. Arnold. Lat. 33°41'32", long. 84°30'30". Drilled domestic water-table well, diameter 6 inches, depth 78 feet. Highest water level 12.72 below lsd, May 27, 1953; lowest 43.89 below lsd, Aug. 13, 1945. Records available: 1943-45, 1953. May 27, 12.72; Dec. 16, 22.62.

71. D. W. Cook. Oakdale. Lat. 33°50'38", long. 84°29'51". Drilled domestic water-table well in gneiss, diameter 6 inches, depth 109 feet, cased to 40. 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: 1943-53. May 27, 52.81; Dec. 16, 54.17.

74. A. P. Hogan. 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: 1943-53. May 27, 43.13; Dec. 16, 45.44.

83. National Park Service. 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, cased to 33. 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: 1943-53. May 27, 3.95; Dec. 16, 4.40.

85. D. C. Hames. Lat. 33°58'53", long. 84°33'57". Drilled unused water-table well, 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, 1953. May 27, 19.97; Dec. 16, 23.29.

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: 1943-53. May 28, 35.37; Dec. 15, 36.63.

29. Mrs. A. H. Daniel. Glenwood Rd. and Columbia Drive, Decatur. 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: 1944-53. May 28, 36.90; Dec. 15, 38.53.

34. I. W. Williams. Candler and Flat Shoals Rds., Panthersville. Lat. 33°42'15", 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 50.30 below lsd, Dec. 7, 1951. Records available: 1944-53. May 28, 47.73; Dec. 15, 48.67.

39. L. N. Fassett. Decatur. 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: 1944-53. May 28, 36.40; Dec. 15, 38.26.

40. Allen McCain. Glenwood and Candler Rds., Decatur. Lat. 33°44'12", long. 84°16'32". Drilled domestic water-table well in granite, diameter 8 inches, depth 281 feet, cased to 35. Land-surface datum is 923 feet above msl. Highest water level 1.71 below lsd, Dec. 15, 1953; lowest 15.15 below lsd, Aug. 4, 1949. Records available: 1944-53. May 28, 6.42; Dec. 15, 1.71.

50. Miss Annie Mae Lyle. Lat. 33°42'35", long. 84°20'50". Drilled unused water-table well in granite, diameter 6 inches, depth 187 feet, cased to 18.7 feet. Highest water 32.93 below lsd, Dec. 11, 1952; lowest 34.40 below lsd, Aug. 24, 1948. Records available: 1944-52. Measurement discontinued.

50a. Veterans of Foreign Wars. Lat. 33°42'40", long. 84°20'50". Drilled domestic water-table well in granite, diameter 6 inches, depth 270 feet, cased to about 20. Land-surface datum is 962 feet above msl. May 28, 24.97; Dec. 15, 29.24. Records available: 1953.

Effingham County

6. W. B. Butler. 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. Land-surface datum is 38 feet above msl. Highest water level 1.63 above lsd, Apr. 5, 1939; lowest 5.52 below lsd, Dec. 2, 1953. Records available: 1939-53. May 19, 4.16; Dec. 2, 5.52.

7. Central of Georgia Railway. 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. Land-surface datum is 33.86 feet above msl. Highest water level 5.21 above lsd, Apr. 5, 1939; lowest 2.28 below lsd, Dec. 2, 1953. Records available: 1939-44, 1951-53. May 19, 1.34; Dec. 2, 2.28.

20. J. D. Hagin. 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 41.70 below lsd, Dec. 1, 1953. Records available: 1939-53. May 19, 40.84; Dec. 1, 41.70.

Evans County

3. City of Claxton. Lat. 32°09'36", long. 81°54'34". Drilled municipal artesian well in Ocala limestone, diameter 6 inches, reported depth 620 feet. Land-surface datum is 182 feet above msl. Highest water level 110.26 below lsd, Aug. 4, 1948; lowest 116.22 below lsd, Nov. 30, 1953. Records available: 1939-53. May 18, 114.45; Nov. 30, 116.22.

Fulton County

7. City of College Park. Lat. 33°39'12", long. 84°27'04". Drilled unused municipal water-table well, 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: 1943-52. No measurement made in 1953.

21. City of East Point. Lat. 33°40'16", long. 84°26'22". Drilled unused water-table well in gneiss, diameter 8 inches, depth 500 feet, cased to 106. Land-surface datum is 1,033 feet above msl. Highest water level 20.87 below lsd, May 27, 1953; lowest 22.22 below lsd, Dec. 11, 1952. Records available: 1946, 1953. May 27, 20.87; Dec. 15, 21.78.

26. O'Neill Bros. East Point. Lat. 33°40'41", long. 84°26'23". Drilled unused industrial water-table well, diameter 10 inches, depth 350 feet. Land-surface datum is 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: 1943-53.

26--Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.33	.....	17.08	16.56	16.50	16.22	17.14	17.32	18.31	18.06	18.95	.....
2	20.31	.....	17.12	16.63	16.33	16.33	.....	17.36	18.31	18.04	18.97	.....
3	20.32	.....	17.08	16.64	16.40	16.38	.....	17.48	18.32	18.13	18.99	.....
4	20.33	.....	16.94	16.71	16.12	16.41	.....	17.51	18.25	18.12	18.98	.....
5	20.28	18.45	17.00	16.74	16.12	16.45	.....	17.49	18.10	18.05	19.05	.....
6	.....	18.38	16.91	16.61	16.03	16.45	17.20	17.54	18.05	18.08	.....	.....
7	19.88	18.31	16.84	16.71	15.85	16.50	17.23	17.62	18.10	18.23	.....	.....
8	19.78	18.32	16.85	16.81	15.79	16.55	17.28	17.63	18.15	18.26	.....	.....
9	19.44	18.35	.....	16.80	15.81	16.62	17.40	17.62	18.22	18.23	.....	.....
10	19.41	.....	.....	16.75	15.86	16.61	17.42	17.65	18.25	18.24	.....	.....
11	19.32	.....	.....	16.82	15.88	16.64	17.47	.....	18.26	18.39	.....	.....
12	19.30	.....	.....	16.66	15.90	16.68	17.48	.....	18.25	18.35	19.26	.....
13	19.24	.....	.....	16.63	15.95	16.65	17.51	17.72	18.31	18.43	19.34	.....
14	19.17	.....	.....	16.65	15.93	16.68	17.58	17.77	18.31	18.47	19.34	.....
15	19.14	.....	.....	16.51	15.98	16.80	17.64	17.80	18.32	18.47	19.34	17.75
16	19.12	.....	16.83	16.52	16.00	16.82	17.67	17.89	18.39	18.47	19.36	17.70
17	19.06	18.06	16.81	16.57	16.01	16.77	17.58	18.08	18.46	18.54	19.40	17.72
18	19.00	18.05	16.73	16.48	16.01	16.84	17.44	18.08	18.49	18.57	19.41	17.72
19	18.90	17.97	16.80	16.59	15.98	16.91	17.22	18.09	18.47	18.60	19.42	17.68
20	18.84	17.88	16.79	16.66	15.93	16.94	17.18	18.14	18.39	.....	19.43	17.63
21	18.87	17.80	18.77	16.69	15.95	16.98	17.20	18.20	18.40	.....	19.46	17.58
22	18.85	17.70	16.69	16.72	15.94	16.96	17.16	18.22	18.47	.....	19.41	.....
23	18.72	17.60	16.50	16.71	15.97	16.98	17.10	18.23	18.50	18.66	19.43	18.65
24	18.63	17.49	16.42	16.75	16.01	17.03	17.15	18.25	18.51	18.68	19.40	18.67
25	18.68	17.25	16.42	16.71	16.71	17.07	17.21	18.12	18.47	18.75	19.47	18.56
26	18.60	18.60	16.45	16.74	16.74	17.07	17.25	18.15	18.27	18.78	19.56	18.59
27	18.54	17.09	16.44	16.85	16.85	17.10	17.15	18.17	17.96	18.76	.....	18.62
28	18.51	17.13	16.42	16.84	16.84	17.09	17.18	18.18	17.99	18.77	.....	18.58
29	18.52	.....	16.51	16.80	16.80	17.11	17.25	18.21	18.01	18.85	.....	18.57
30	18.50	.....	16.57	16.70	16.70	17.12	17.29	18.25	18.04	18.89	.....	.....
31	.....	.....	16.57	.....	.....	.....	17.30	18.28	.....	18.92	.....	18.56

32. International Minerals & Chemical Corp. East Point. Lat. 33°40'10", long. 84°26'14". Drilled unused industrial water-table well, depth 505 feet. Land-surface datum is 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: 1943-53. May 27, 30.49; Dec. 15, 30.84.

77. E. S. Nix. Bolton. Lat. 33°37'36", long. 84°29'34". Drilled domestic water-table well in gneiss, diameter 8 inches, depth 84 feet, cased to 44. Land-surface datum is 844 feet above msl. Highest water level 18.00 below lsd, Dec. 16, 1953; lowest 25.09 below lsd, Dec. 21, 1945. Records available: 1943-53. May 27, 20.27; Dec. 16, 18.00.

Glynn County

3. Atlantic Refining Co. 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. Land-surface datum is 10.6 feet above msl. Highest water level 36.50 above lsd, Dec. 25, 1944; lowest 16.09 above lsd, Aug. 17, 1953. Records available: 1938-53.

Daily highest water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.29	18.89	19.19	18.59	18.39	18.29	17.79	18.59	17.39	17.89	18.29	19.29
2	19.29	18.89	19.09	18.59	18.39	17.29	17.69	18.39	17.19	18.09	18.79	18.79
3	19.19	19.09	19.09	18.89	18.29	17.49	18.19	18.29	17.79	18.09	19.09	18.59
4	19.09	18.29	19.19	19.59	18.09	17.29	17.49	18.09	17.19	18.09	19.09	19.29
5	19.09	19.19	19.09	18.59	18.29	17.29	17.59	18.29	17.19	18.39	18.69	18.79
6	18.79	19.39	19.09	18.29	18.09	17.49	17.79	17.49	17.89	18.59	18.59	19.29
7	18.89	19.49	19.19	18.49	18.39	17.59	18.09	17.49	17.99	18.29	18.69	19.29
8	18.59	19.39	19.19	18.39	18.69	17.49	17.39	17.29	17.89	18.19	18.59	19.39
9	19.09	20.59	18.79	18.79	18.79	17.29	17.29	16.99	18.09	18.39	18.69	19.39
10	18.79	22.39	18.69	19.09	18.79	17.49	17.59	17.29	17.39	18.59	18.69	19.29
11	18.39	22.49	20.09	19.19	18.59	17.29	17.79	16.79	17.39	18.99	18.69	18.79
12	18.19	21.59	19.49	19.19	18.49	17.29	17.79	17.49	17.49	19.09	18.79	19.39
13	18.29	21.99	19.29	18.99	18.59	17.89	17.79	17.39	17.39	19.19	19.09	18.89
14	18.49	20.39	19.49	18.69	18.69	17.79	17.79	17.79	17.49	18.99	19.29	18.89
15	18.59	19.99	19.59	18.89	18.59	17.79	17.69	17.59	17.59	18.79	19.39	18.69

3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	18.69	19.39	19.69	18.99	18.49	17.69	17.59	16.89	17.49	18.09	19.29	19.09
17	18.69	18.99	19.79	18.49	18.49	17.69	17.49	16.69	17.59	18.69	19.29	18.59
18	18.69	18.69	20.09	18.79	18.39	17.79	17.79	16.99	17.49	18.29	18.89	19.79
19	18.59	19.29	19.89	18.59	18.29	17.69	17.79	17.09	17.79	18.49	18.99	.....
20	18.39	19.09	19.49	18.29	.....	17.59	17.69	16.89	17.89	18.69	18.79	20.19
21	18.39	19.09	19.19	18.39	.....	17.49	17.79	17.19	17.79	18.89	19.49	20.39
22	18.19	18.69	19.09	19.59	.....	17.49	17.89	17.19	17.79	19.59	18.79	20.79
23	18.29	18.49	18.79	20.09	.....	17.39	17.79	17.39	17.99	18.59	19.69	20.19
24	18.59	18.89	18.49	18.49	.....	17.39	17.99	17.39	17.99	19.29	18.29	24.29
25	17.89	19.19	18.29	18.49	.....	17.29	17.99	17.49	17.89	18.89	18.79	24.99
26	18.29	19.19	18.29	18.49	18.29	17.39	18.09	17.39	18.09	18.89	18.59	25.79
27	18.49	18.89	18.39	18.49	18.29	17.39	17.99	17.39	17.89	18.59	18.69	26.19
28	18.99	19.09	18.29	18.39	17.49	17.49	18.09	17.89	18.69	18.49	19.09	26.09
29	20.19		18.29	18.39	17.29	17.39	17.99	17.59	18.09	18.39	18.29	22.39
30	18.89		18.29	18.49	17.39	17.59	17.79	17.49	17.89	18.89	19.29	21.69
31	19.09		18.29		18.09		17.99	17.29		19.09		21.19

Daily lowest water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.39	18.29	18.39	17.79	18.09	16.99	16.79	17.29	16.79	17.49	17.99	17.99
2	18.09	18.39	18.49	17.89	17.99	16.89	16.79	17.29	16.69	17.59	17.89	17.99
3	18.69	18.59	18.49	17.79	17.49	16.79	16.79	17.09	16.69	17.69	17.89	18.09
4	17.79	18.69	17.79	17.69	17.49	16.69	16.79	17.09	16.79	17.69	18.09	18.29
5	18.09	17.99	18.39	17.69	17.39	16.59	16.99	16.89	16.69	17.79	18.19	18.29
6	17.49	18.69	17.69	17.69	17.39	16.99	16.99	16.79	16.59	17.89	18.19	18.39
7	17.99	19.09	18.39	17.69	17.49	16.99	16.99	16.49	16.59	17.79	18.09	18.29
8	18.19	18.19	18.49	17.59	17.59	16.99	16.99	16.49	16.49	17.79	18.09	18.19
9	18.39	17.69	18.19	17.99	17.89	16.99	17.19	16.49	16.59	17.59	18.19	18.29
10	18.09	19.29	18.09	18.19	17.69	16.79	17.09	16.39	16.79	18.09	18.19	18.29
11	17.99	22.19	18.39	18.19	17.89	16.89	17.29	16.29	16.69	17.89	18.09	18.19
12	17.49	20.29	18.49	18.29	17.89	16.99	17.29	16.29	16.79	17.79	18.09	18.49
13	17.09	19.19	18.59	18.19	17.79	16.99	17.39	16.49	16.79	17.79	18.19	18.69
14	17.69	18.29	18.69	17.79	18.09	17.29	17.29	16.79	16.89	17.79	18.19	18.29
15	17.89	18.49	18.79	17.99	18.09	17.29	17.19	16.39	16.89	17.79	18.09	18.09
16	17.79	17.79	18.99	18.19	17.99	17.09	17.19	16.19	17.09	17.89	17.99	18.09
17	17.79	18.19	18.99	17.89	18.09	17.29	17.19	16.09	16.99	17.79	17.99	17.89
18	17.79	17.19	19.19	18.09	17.69	17.29	17.29	16.19	16.99	17.59	17.79	17.89
19	17.69	18.69	18.99	18.09	17.89	17.29	17.29	16.29	17.19	17.99	17.99	18.29
20	17.59	18.49	18.69	17.79	.....	17.09	17.29	16.49	17.29	17.89	18.09	19.09
21	17.49	18.29	18.59	17.49	.....	17.09	17.29	16.69	17.19	17.79	17.29	19.39
22	17.29	18.09	18.39	17.89	.....	16.99	17.39	16.69	17.09	17.79	17.29	19.49
23	17.69	18.09	18.19	18.09	.....	16.89	17.29	16.69	17.19	17.89	18.39	19.69
24	17.59	18.39	17.89	17.89	.....	17.09	17.49	16.79	17.29	18.09	18.79	20.09
25	17.39	18.49	17.59	17.99	.....	16.99	17.59	16.79	17.29	17.99	18.29	24.29
26	17.29	18.49	17.69	17.99	17.89	17.09	17.39	16.89	17.49	17.99	17.99	24.99
27	17.79	18.39	17.79	17.99	17.49	16.99	17.39	16.79	17.49	17.99	17.99	25.19
28	18.29	18.39	17.89	17.59	16.99	17.09	17.59	16.89	17.39	17.99	17.99	22.19
29	18.09		17.89	17.79	16.79	18.09	17.59	17.09	17.69	17.89	17.89	21.49
30	18.39		17.89	18.09	16.99	16.89	17.19	16.89	17.29	17.99	18.09	20.79
31	18.29		17.89		16.79		17.09	16.79		17.99		19.99

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. Land-surface datum is 13.5 feet above msl. Highest water level 36.63 above lsd, Dec. 13, 1938; lowest 22.70 above lsd, Dec. 4, 1953. Records available: 1938, 1940-53. May 21, +27.30; Dec. 4, +22.70.

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. Land-surface datum is 13.88 feet above msl. Highest water level 36.0 above lsd, Jan. 11, 1939; lowest 24.21 above lsd, May 21, 1953. Records available: 1939, 1941-53. May 21, +24.21.

44. Sea Island Co. 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. Land-surface datum is 7.3 feet above msl. Highest water level 40.96 above lsd, Jan. 11, 1939; lowest 30.84 above lsd, May 21, 1953. Records available: 1939-53. May 21, +30.84; Dec. 4, +32.07.

63. S. L. Lewis. Lat. $31^{\circ}13'45''$, long. $81^{\circ}31'43''$. 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 10.55 above lsd, May 21, 1953. Records available: 1939, 1942-53. May 21, +10.55; Dec. 4, +11.80.

100. New England Tourist Camp. Lat. $31^{\circ}15'10''$, long. $81^{\circ}26'29''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet, cased to about 300. Land-surface datum is 16.9 feet above msl. Highest water level 25.1 above lsd, June 20, 1939; lowest 15.85 above lsd, May 21, 1953. Records available: 1939-53. May 21, +15.85; Dec. 4, +16.14.

138. G. F. Cowman. Lat. $31^{\circ}08'22''$, long. $81^{\circ}34'30''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 665 feet, cased to about 500. Land-surface datum is 8 feet above msl. Highest water level 36.5 above lsd, Sept. 18, 1939; lowest 28.10 above lsd, May 21, 1953. Records available: 1939-53. May 21, +28.10; Dec. 5, +29.10.

192. Edgar Rittenhouse. Brunswick. Lat. $31^{\circ}10'44''$, long. $81^{\circ}30'36''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to 520. Land-surface datum is 13.0 feet above msl. Highest water level 30.58 above lsd, Dec. 27, 1940; lowest 11.70 above lsd, May 21, 1953. Records available: 1939-53. May 21, +11.70; Dec. 4, +12.23.

Henry County

11. D. J. Arnold. Hampton. Lat. $33^{\circ}22'53''$, long. $84^{\circ}17'10''$. 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: 1943-52. No measurement made in 1953.

Liberty County

53. F. F. Branan. Lat. $31^{\circ}47'17''$, long. $81^{\circ}26'10''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 408 feet, cased to 180. Land-surface datum is about 13 feet above msl. Highest water level 29.3 above lsd, Feb. 1, Aug. 28, 1939; lowest 24.45 above lsd, Dec. 6, 1952. Records available: 1939-52. Measurement discontinued.

75. Mrs. E. P. Way. Lat. $31^{\circ}41'11''$, long. $81^{\circ}24'27''$. Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 187. Land-surface datum is 26 feet above msl. Highest water level 25.48 above lsd, Feb. 9, 1939; lowest 16.44 above lsd, Dec. 7, 1952. Records available: 1939, 1941-53. May 20, +20.05; Dec. 3, +19.70.

95. J. Blount. On Colonels Island. Lat. $31^{\circ}43'53''$, long. $81^{\circ}15'53''$. 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 12.60 above lsd, Dec. 3, 1953. Records available: 1939, 1941-53. May 20, +13.45; Dec. 3, +12.60.

137. H. A. Bacon. Hinesville. Lat. $31^{\circ}50'59''$, long. $81^{\circ}35'25''$. Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 527 feet, cased to 400. Land-surface datum is 47 feet above msl. Highest water level 3.40 above lsd, Apr. 26, 1939; lowest 3.39 below lsd, Dec. 3, 1953. Records available: 1939-53. Mar. 12, 3.19; Dec. 3, 3.39.

170. J. H. Woodall. Lat. $31^{\circ}50'52''$, long. $81^{\circ}24'35''$. 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 10.65 above lsd, Dec. 6, 1952. Records available: 1941-53. May 20, +12.38; Dec. 3, +11.90.

177. P. E. Youmans. On Colonels Island. Lat. $31^{\circ}43'56''$, long. $81^{\circ}14'27''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 490 feet, cased to 100. Land-surface datum is 13 feet above msl. Highest water level 12.35 above lsd, Aug. 26, 1945; lowest 9.62 above lsd, Dec. 3, 1953. Records available: 1942-53. May 20, +10.65, Dec. 3, +9.62.

Long County

8. Town of Ludowici. Lat. $31^{\circ}42'41''$, long. $81^{\circ}44'45''$. 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 14.99 below lsd, Mar. 12, 1953. Records available: 1940-47, 1949-53. Mar. 12, 14.99; Dec. 6, 14.85.

McIntosh County

22. D. E. McDonald. 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. Land-surface datum is 19 feet above msl. Highest water level 22.40 above lsd, Mar. 6, 1939; lowest 15.2 above lsd, July 16, 1952. Records available: 1941-47, 1949-53. May 20, +16.75; Dec. 4, +16.75.

43. Shellman Bluff. 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 15.68 above lsd, Dec. 7, 1952. Records available: 1939, 1941-43, 1945-47, 1949-53. May 20, +16.30; Dec. 4, +16.48.

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 about 600. Land-surface datum is 28 feet above msl. Highest water level 0.95 below lsd, Mar. 30, 1939; lowest 7.21 below lsd, Dec. 7, 1952. Records available: 1939-53. May 20, 7.19.

103. A. M. Durant. 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. Land-surface datum is 10 feet above msl. Highest water level 29.05 above lsd, Apr. 11, 1939; lowest 20.70 above lsd, Dec. 4, 1953. Records available: 1939-41, 1943, 1945-53. May 20, +22.30; Dec. 4, +20.70.

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. Land-surface datum is 23 feet above msl. Highest water level 23.14 above lsd, Apr. 27, 1939; lowest 16.05 above lsd, Dec. 4, 1953. Records available: 1939-47, 1949-53. Dec. 4, +16.05.

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. Land-surface datum is 20 feet above msl. Highest water level 25.85 above lsd, Apr. 28, 1939; lowest 16.95 above lsd, May 21, 1953. Records available: 1939-53. May 21, +16.95; Dec. 4, +17.10.

180. D. C. Cowart. Eulonia. Lat. 31°31'30", long. 81°25'59". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 500 feet. Land-surface datum is 1.8 feet above msl. Highest water level 23.26 above lsd, Aug. 27, 1947; lowest 19.02 above lsd, Dec. 7, 1952. Records available: 1942-53. May 20, +19.32; Dec. 4, +19.35.

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. No measurement made in 1953.

Montgomery County

1. H. V. Thompson. Ailey. Lat. 32°11'09", long. 82°34'24". Drilled industrial artesian well in Ocala limestone, diameter 6 to 4 inches, depth 403 feet, cased to 345. Land-surface datum is 255 feet above msl. Highest water level 104.60 below lsd, June 15, 1943; lowest 107.26 below lsd, Nov. 30, 1953. Records available: 1941-43, 1945-46, 1949-51, 1953. May 18, 107.59, pumped recently; Nov. 30, 107.26.

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. Land-surface datum is 130.6 feet above msl. Highest water level 57.08 below lsd, Dec. 8, 1947; lowest 63.8 below lsd, July 18, 1952. Records available: 1939-43, 1945-53. Mar. 12, 63.32; Dec. 5, 62.47.

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. Land-surface datum is 104 feet above msl. Highest water level 30.71 below lsd, Dec. 8, 1947; lowest 36.08 below lsd, Dec. 8, 1952. Records available: 1941-43, 1945-53. Mar. 12, 35.73; Dec. 5, 35.90, pumped recently.

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 113.62 below lsd, July 14, 1952. Records available: 1939, 1943, 1945-47, 1949-53. May 18, 110.05, pumped recently; Dec. 1, 110.25.

8. W. W. Yant. Dover. Lat. 32°34'38", long. 81°42'49". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 255 feet, cased to 90. Land-surface datum is 103 feet above msl. Highest water level 18.30 above lsd, July 14, 1952; lowest 13.6 above lsd, Aug. 15, 1951. Records available: 1939, 1943, 1945-46, 1949-53. May 18, +16.70; Dec. 1, +14.52.

Spalding County

12. State Experiment Station. Lat. 33°15'07", long. 84°17'18". Dug unused water-table well 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, Mar. 19, Apr. 11, 1948; lowest 21.08 below lsd, Dec. 8, 1943. Records available: 1943-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	13.23	12.29	13.08	12.45	13.87	11.96	14.07	13.25	14.16	15.45
2	.....	.....	13.10	12.36	12.89	12.61	13.88	12.01	14.12	13.19	14.23	15.48
3	18.46	.....	13.09	12.39	12.90	12.62	13.94	12.07	14.17	13.15	14.25	15.44
4	18.39	.....	12.88	12.46	12.70	12.72	14.01	12.10	14.22	13.07	14.25	15.27
5	18.25	.....	13.09	12.51	12.46	12.78	14.04	12.07	14.24	12.96	14.32	15.12
6	18.17	.....	13.07	12.37	12.25	12.84	14.04	12.13	14.29	12.93	14.42	14.73
7	18.07	.....	12.99	12.46	12.02	12.89	14.08	12.26	14.41	13.09	14.49	14.66
8	17.88	.....	12.93	12.62	11.85	12.98	14.04	12.29	14.46	13.09	14.55	14.35
9	17.66	.....	13.02	12.63	11.76	12.99	13.94	12.34	14.45	13.05	14.56	14.07
10	17.66	15.68	12.96	12.55	11.73	13.13	13.85	12.45	14.46	13.03	14.64	13.99
11	17.63	15.54	12.91	12.67	11.67	13.10	13.80	12.52	14.47	13.08	14.69	13.88
12	17.61	15.36	12.96	12.55	11.68	13.17	13.75	12.61	14.49	13.12	.....	13.60
13	17.49	15.51	12.92	12.73	11.71	13.14	13.70	12.64	14.55	13.22	.....	.....
14	17.38	15.48	12.90	12.90	11.69	13.19	13.68	12.70	14.60	13.40	.....	13.03
15	17.28	15.26	12.88	12.80	11.72	13.31	13.74	12.79	14.63	13.37	.....	12.95
16	17.17	15.33	12.96	12.78	11.76	13.37	13.75	12.88	14.68	13.36	.....	12.68
17	17.07	15.24	12.95	12.94	11.79	13.34	13.70	12.96	14.61	13.43	.....	12.64
18	16.95	15.21	12.83	12.85	11.80	13.40	13.54	13.02	14.70	13.52	15.01	12.54
19	16.87	15.07	12.89	12.97	11.78	13.52	13.30	13.09	14.69	13.55	15.03	12.44
20	16.77	14.86	12.89	12.96	11.88	13.54	13.06	13.17	14.60	13.57	15.01	12.30
21	16.73	14.82	12.82	13.10	11.96	13.54	12.85	13.29	14.65	13.59	15.09	12.15
22	16.72	14.79	12.73	13.12	11.97	13.56	12.57	13.37	14.74	13.59	15.06	12.23
23	16.51	14.64	12.58	13.09	12.02	13.59	12.29	13.40	14.76	13.56	15.11	12.21
24	16.41	14.42	12.49	13.12	12.07	13.66	12.16	13.47	14.74	13.57	15.09	12.23
25	16.49	14.10	12.42	13.10	12.12	13.72	12.08	13.58	14.67	13.72	15.16	12.03
26	16.39	13.81	12.43	13.13	12.13	13.79	12.04	13.65	14.52	13.81	15.32	12.01
27	16.24	13.57	12.33	13.27	12.20	13.80	11.96	13.73	14.00	13.77	15.29	12.03
28	16.08	13.40	12.28	13.31	12.40	13.85	11.93	13.78	13.70	13.80	15.43	11.94
29	16.10		12.34	13.29	12.44	13.88	11.94	13.85	13.49	13.91	15.43	11.93
30	16.07		12.34	13.23	12.37	13.88	11.99	13.94	13.36	14.05	15.41	11.87
31	15.92		12.31		12.40		11.98	14.01		14.11		11.83

Ware County

6. State of Georgia. Laura S. Walker State Park. Lat. 31°08'50", long. 82°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 58.11 below lsd, Dec. 5, 1953. Records available: 1941-43, 1945-46, 1949-53. May 22, 57.10; Dec. 5, 58.11.

Wayne County

3. A. W. Hurn. Gardi. Lat. 31°32'13", long. 81°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 7.48 below lsd, Dec. 8, 1952. Records available: 1939-43, 1945-53. Mar. 12, 7.28; Dec. 6, 6.94.

10. Town of Screven. Lat. 31°29'09", long. 82°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 60.98 below lsd, Dec. 8, 1952. Records available: 1940-43, 1945-53. Mar. 12, 61.6, pumping.

KENTUCKY

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

Scope of Water-Level Program

The statewide observation-well program, begun in 1949, was continued in 1953 in cooperation with the State Agricultural and Industrial Development Board. The water-level program at Louisville, begun in 1943, in cooperation with Jefferson County and the city of Louisville, has been made a part of the State program. The water-level program is a part of a comprehensive investigation of the ground-water resources of the State. This program included reconnaissance surveys and water-use surveys of the major physiographic units of the State (see fig. 17), development and operation of a network of observation wells, and detailed investigations in the Paintsville, Prestonsburg, Henderson, Hopkinsville, Covington, Paducah, Scottsville, and Louisville areas. During 1953, periodic measurements were made in 38 wells, and recording gages were maintained on 46 wells. (See figs. 17 and 18). Data for observation wells operated in connection with detailed area investigations are not included in this report, but will be published in hydrograph form in the project reports. Reports containing water-level data were published or approved for openfile release during 1953 as follows: Geological Survey Circular 240, "Geology and ground-water resources of the Covington-Newport alluvial area, Kentucky," by Eugene H. Walker; Geological Survey Circular 276, "Water resources of the Louisville area, Kentucky and Indiana," by M. I. Rorabaugh, F. F. Schrader, and L. B. Laird; and Water-Supply Paper 1257 (in course of publication), "Geology and ground-water resources of the Paintsville area, Kentucky," by J. A. Baker.

Precipitation

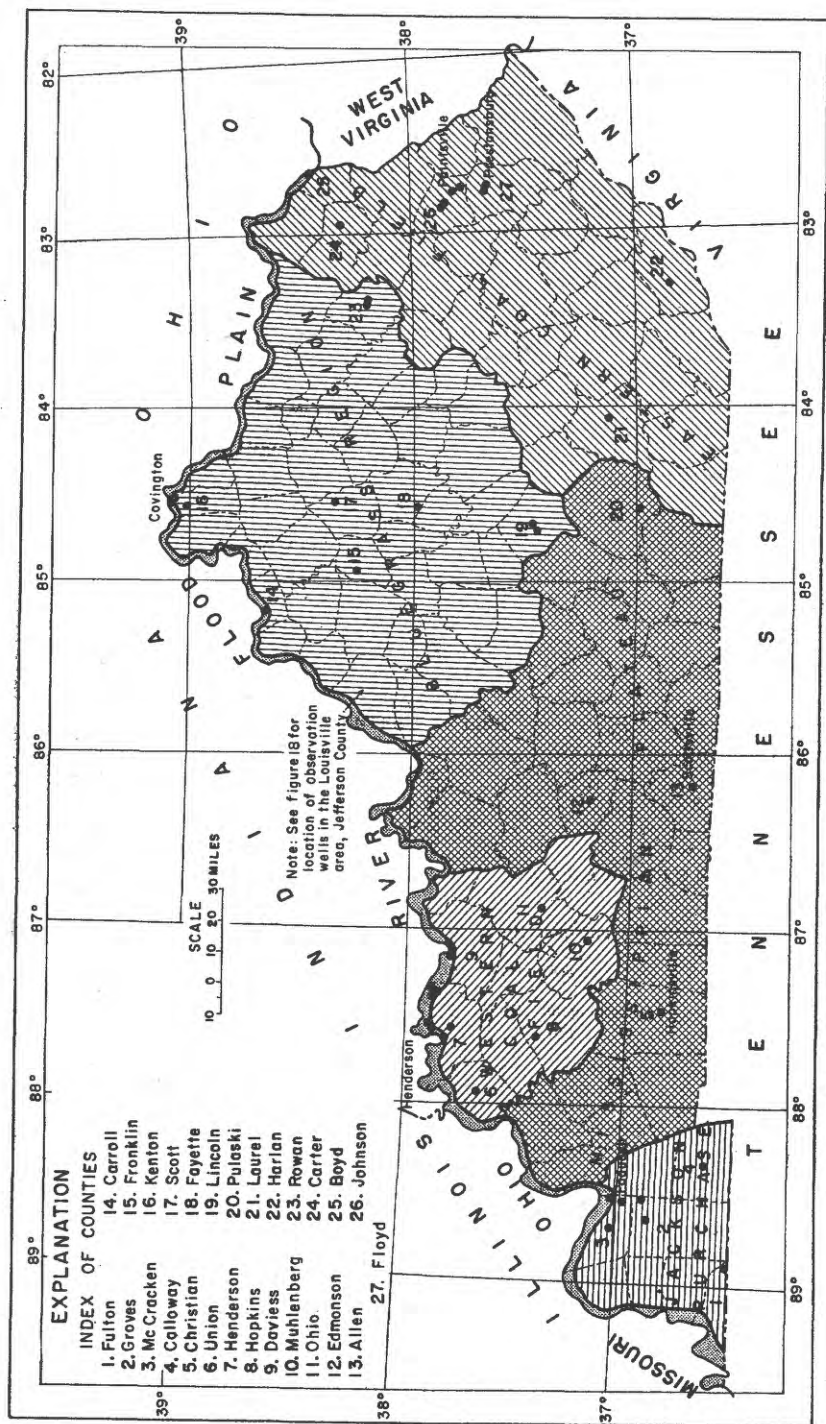
During 1953, weather conditions in Kentucky were unusually dry and warm. The outstanding feature was a prolonged period of deficient rainfall lasting from June through the end of the year. According to the U. S. Weather Bureau, total rainfall of 5.10 inches was the lowest of record for the period August through November. For the year, total precipitation of 36.53 inches was 9.07 inches below the 65-year average. At Louisville (city station) total precipitation for the year of 31.16 inches was 10.44 inches below the 1921-50 normal of 41.60 inches.

Pumpage

In the Louisville area total pumpage in 1953 was 30.9 million gallons per day (mgd), of which 1.6 mgd was returned through recharge wells. The net withdrawal of 29.3 mgd was 0.3 mgd greater than in 1952. Natural recharge was 7.3 mgd less than net pumpage. Figure 19 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 reduced use of ground 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 of the Ohio River which caused an abnormally large infiltration of river water. For the period 1946-52, pumpage and natural recharge were nearly in balance. In 1950, the wettest year of record, recharge from rainfall was considerably above normal. In 1953 natural recharge from precipitation was small reflecting drought conditions.

Interpretation of Water-Level Fluctuations

Water levels, which are a measure of changes in ground-water storage, are indicative of the manner in which an aquifer is recharged or discharged. Water levels reflect natural recharge from vertical infiltration of rainfall on the local area and from horizontal flow through the aquifer of water which has entered at higher altitudes; they show gains from and losses to bodies of surface water and losses through springs; they respond to pumping and to artificial recharging. Barometric and earth-shock effects on water levels may be detected by the use of recording gages. Figure 20 shows the hydrographs of 5 wells in the State which are typical of various areas. All the wells are outside heavily pumped areas. These graphs, although showing a variety of conditions, have a common seasonal cycle. During the growing season, soil moisture is depleted.



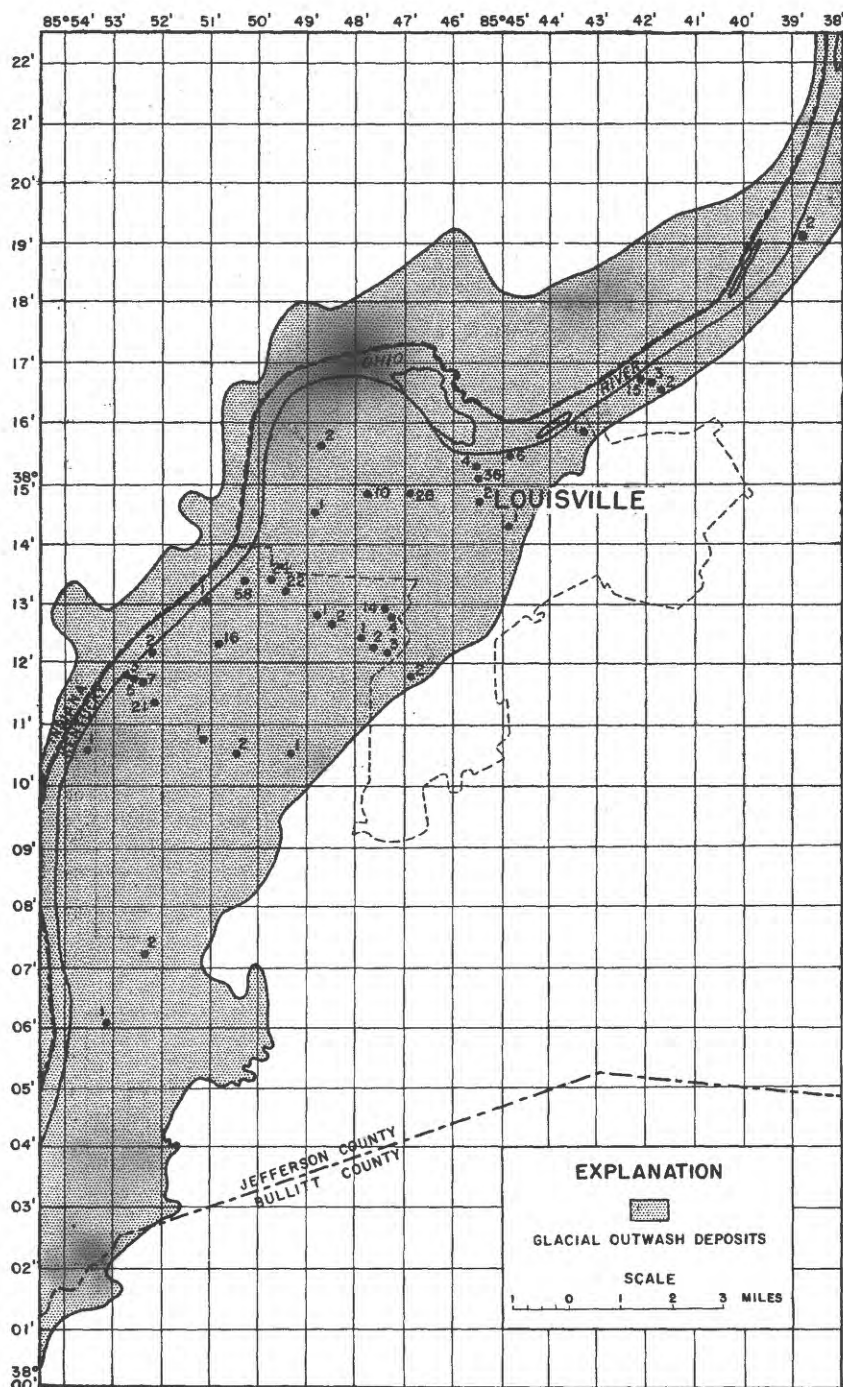


Figure 18. --Location of observation wells in the Louisville, Ky., area, 1953.

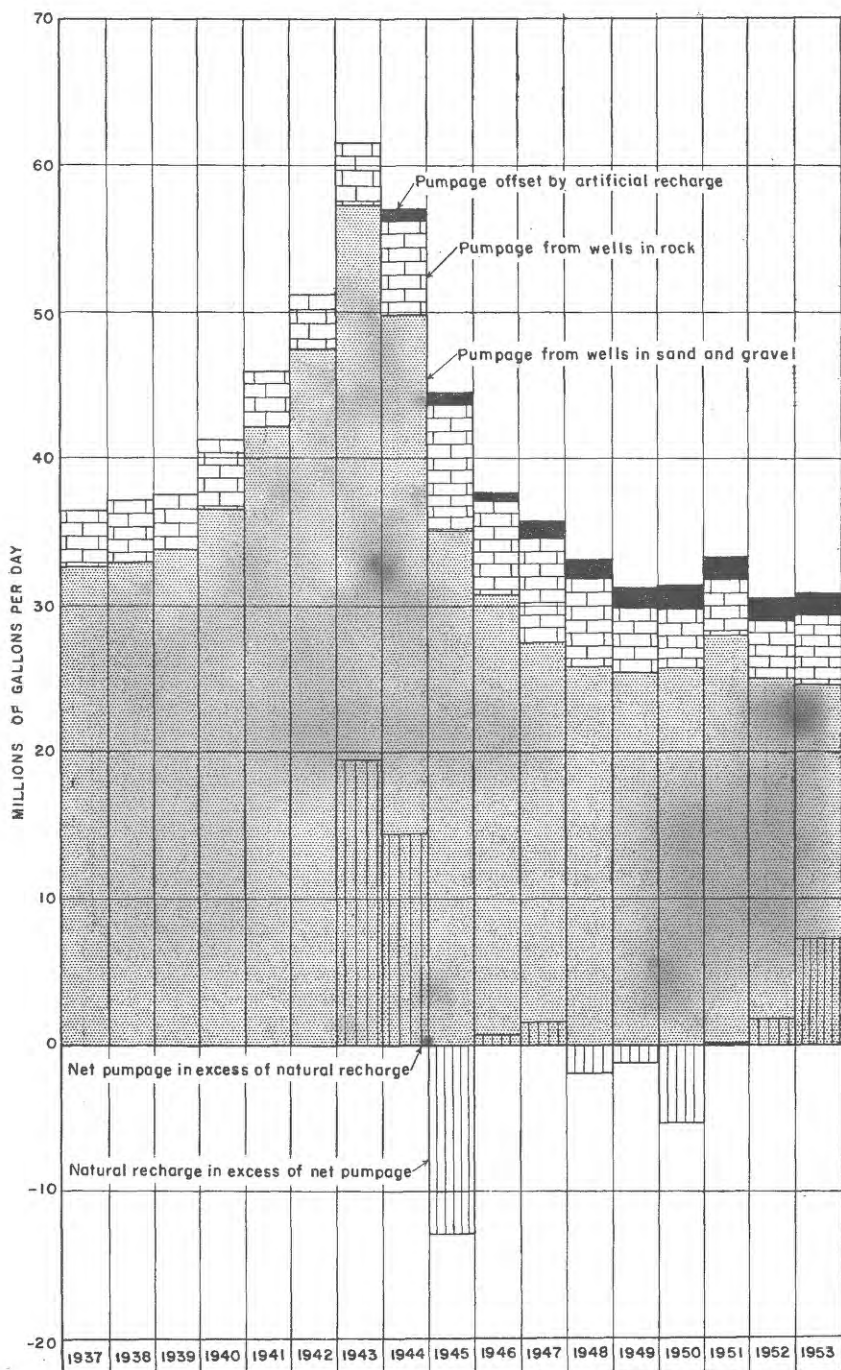


Figure 19. --Pumpage, 1937-53, and changes in storage, 1943-53, in the Louisville, Ky., area.

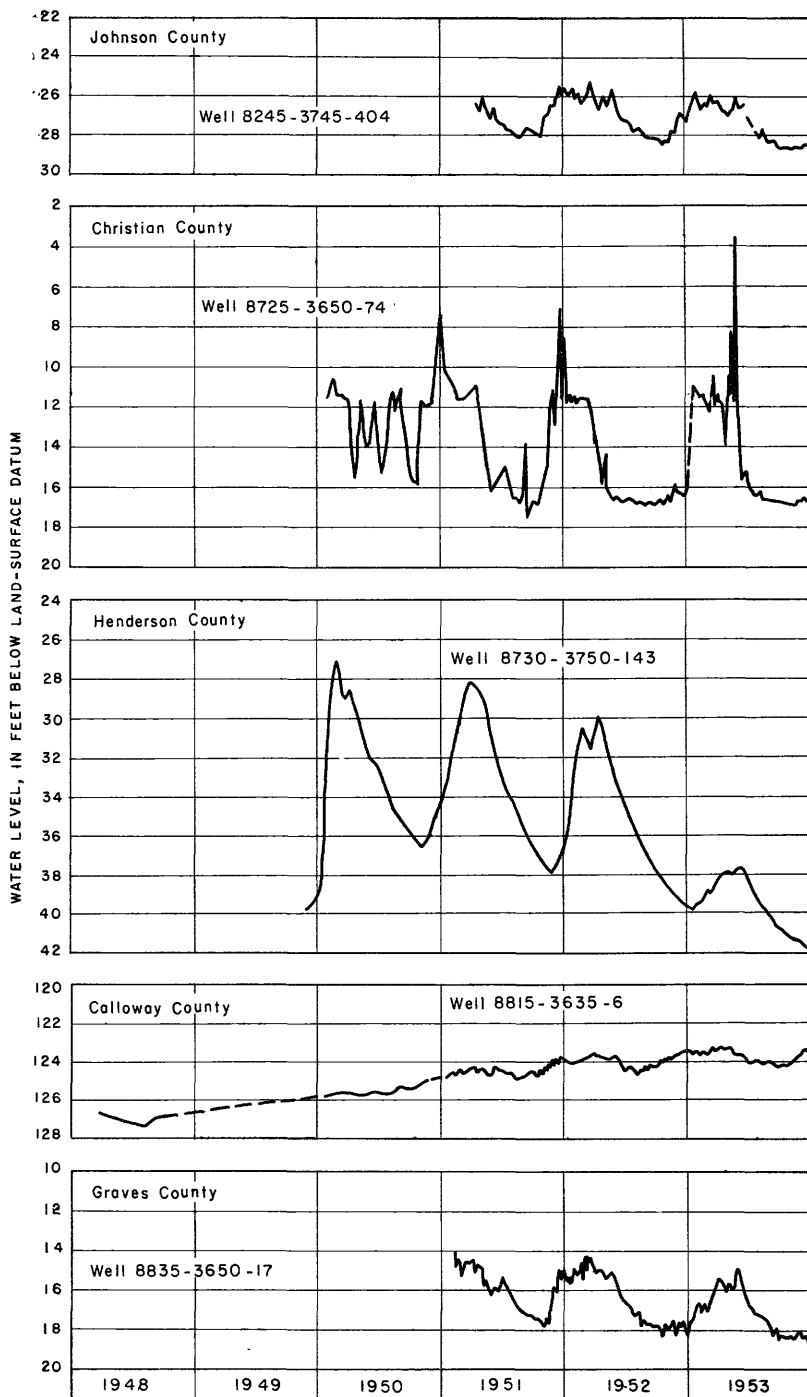


Figure 20. --Water levels in wells representative of various areas in Kentucky, 1953.

Rainfall is retained by the soil and little recharge is available for ground-water replenishment. During this period natural seepage to streams exceeds recharge and water levels fall. After frost, evaporation and transpiration become small, soil moisture deficiency is soon satisfied, and recharge takes place. Through the winter months recharge exceeds natural discharge and water levels rise. Well 8245-3745-404, Johnson County, in a valley bottom, is in the Breathitt formation and is typical of wells in the sandstone of the Eastern Coal Field. In the Mississippian Plateau, well 8725-3650-74, Christian County, is a water-table well in the Ste. Genevieve limestone. The existence of many sinks throughout the region tends to make the water table sensitive to the effects of local rainfall. The flat portions of the hydrograph in the latter part of 1952 and of 1953 correspond with drought conditions and are in sharp contrast with rapid rises and falls during the summer of 1950, a very wet year. Well 8730-3750-143, Henderson County, in the sandstone and shale of Carbondale formation is an artesian well typical of those in the Western Coal Field. It is probable that this formation has some degree of hydraulic connection with the overlying glacial sands and gravels. Wells 8815-3635-6, Calloway County, and 8835-3650-17, Graves County, are artesian wells in the Jackson Purchase. The first, in the sand of Ripley formation, and the second, in the Holly Springs sand, are representative wells in the two principal aquifers of that region.

Hydrographs of 7 wells in the glacial outwash sands and gravels along the Ohio River flood plain are given in figure 21. The dampened effect of the spring rises in the hydrographs for 1953 indicates relatively small river infiltration or natural recharge, and the general downward trend during the year reflects drought conditions. The similarity of comparable hydrographs is apparent. Wells 8235-3825-1, Boyd County; 8430-3905-15, Kenton County; 41-16-3, Jefferson County; and 8705-3745-4, Daviess County, are near the river and their hydrographs show the effects of river floods. For wells 8430-3900-103, Kenton County; 50-10-2, Jefferson County; and 8720-3750-152, Henderson County, which are distant from the river, seasonal cycles of the hydrographs reflect the normal effects of rainfall. The wells in Kenton and Daviess Counties are affected by nearby pumping while the wells in Boyd, Jefferson, and Henderson Counties are in unpumped areas.

Louisville area. --In the Louisville area water levels declined during 1953. The total ground-water pumpage during the year was practically the same as that of 1952, and the areal distribution of pumpage did not differ greatly. The effects of deficient precipitation and higher than normal temperatures during two successive years were major factors contributing to the decline. Excluding four wells in which small gains reflected purely local effects, the changes of water levels during the year ranged from no change in an observation well near the river northeast of the city to a net decline of 6.4 feet in a well in the south distillery area. Estimated loss of ground-water storage of more than 7 mgd represents an average decline of the water table of 1.8 feet. In figure 22 the graph of well 50-10-2 is typical of those for wells in the unpumped area southwest of the city. The downward trend during the past 18 months reflecting drought conditions contrasts sharply with the record-high levels of 1951 and 1952 which correlated with the wet years of 1950 and 1951. In the downtown area of Louisville (east of meridian 85°46' and north of parallel 38°13') water levels declined nearly a foot. The graph of well 45-15-36 is representative of this area. After the 1937 flood, water levels continued in a downward trend until the low of record in 1949; since then the trend has remained fairly level, indicating a balance between pumpage and natural recharge in the area. The year-end water level of 1953 was the lowest since that of 1949. In the central industrial area (west of meridian 85°46' and north of parallel 38°13'), the average water level dropped nearly 2 feet during the year. The total pumpage in the area in 1953 was about 20 percent greater than that of 1952, and the pumpage during the last half of the year was appreciably greater than that of the first half. Figure 23 shows the graph of well 46-14-1 (and 46-14-28) as representative of the area and a graph of the pumpage since 1943. The gradual improvement of the water table in this area for the period 1949 through 1952 was associated with a corresponding decrease of pumpage and greater than normal precipitation. In the distillery area south of Louisville, the water level declined an average of about 2 feet, though the total pumpage in the area was the same as that of 1952. This decline represents a loss of ground-water storage in the area which was estimated as more than 2 mgd. Figure 24 shows the graph of well 47-12-1 as typical of the area and a graph of pumpage since 1937. The change in trend since the high of 1952 is pronounced. In the Rubbertown area, the water table declined an average of 2.2 feet during 1953 which was the fourth successive year in which the area had sustained a loss of ground-water storage. The minimum water level in 1953 was the lowest since that of 1945. In general, the post-war recovery of water levels in the Rubbertown area reached a maximum in 1948 and 1949; since then the levels have returned more than halfway to the critical lows of 1944. Figure 25 shows the graph of 49-13-24 as typical of the area and a graph of pumpage since 1942. The sharp reversal of the hydrograph in 1953 reflects the augmentation of ground-water supply in the area by river water with a corresponding decrease in the net withdrawal of ground water. A fairly constant annual pumpage in this area during the past 4 years has been about 60 percent as great as in 1944. A map of the Louisville area showing contours of water level in December 1953 is given in figure 26. The general pattern is similar to that of 1952 except that the cones of depression have expanded somewhat. A double depression is indicated in the Rubbertown area with lesser depressions in the central part of the city and in the distillery section. Contours indicate infiltration from the river northeast and southwest of the city with flow gravitating toward the depressions. In the extreme southwest contours of higher than 383 elevation indicate flow toward the river. Figure 27 shows changes of water level during the year.

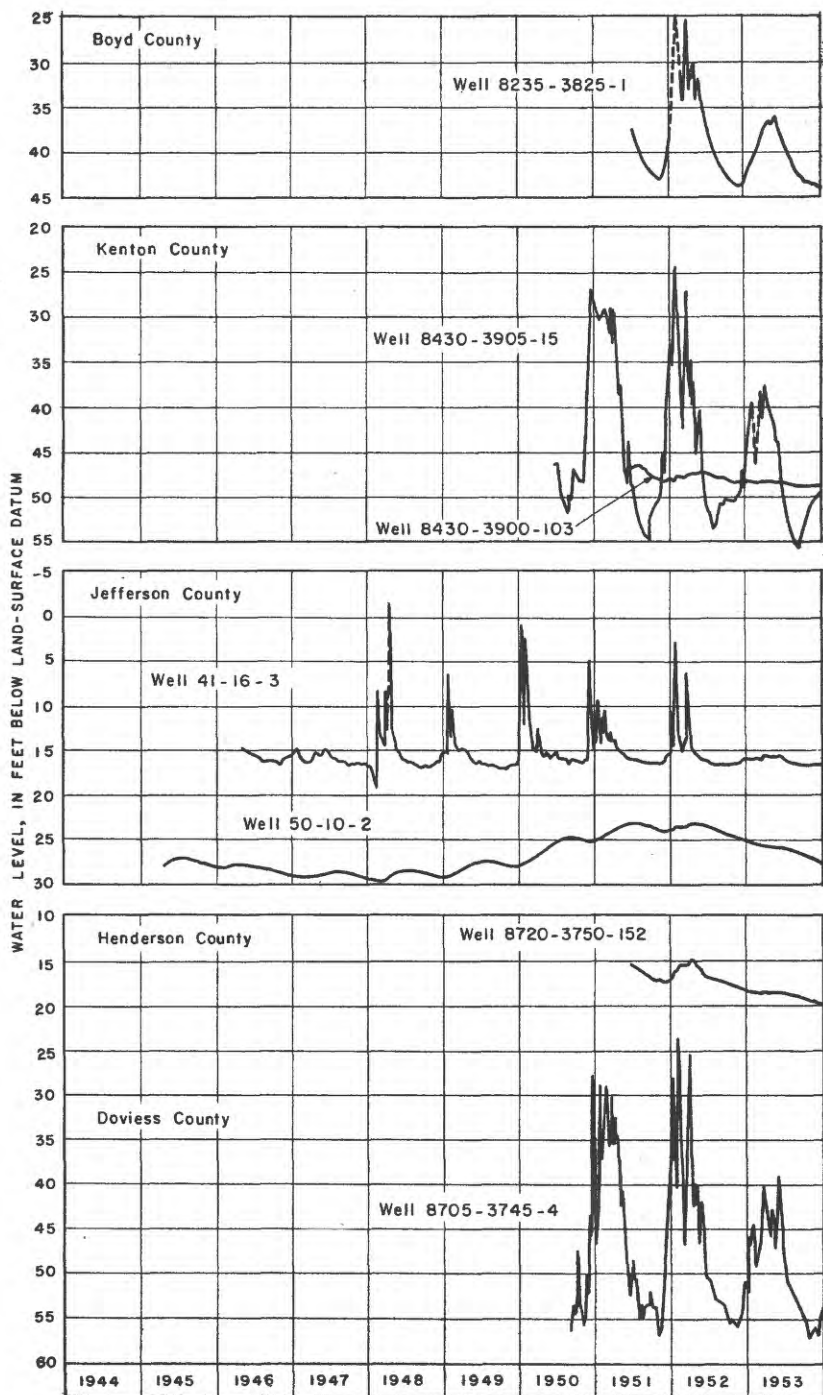


Figure 21. --Water-level fluctuations in wells in the Ohio River flood plain, Kentucky, 1953.

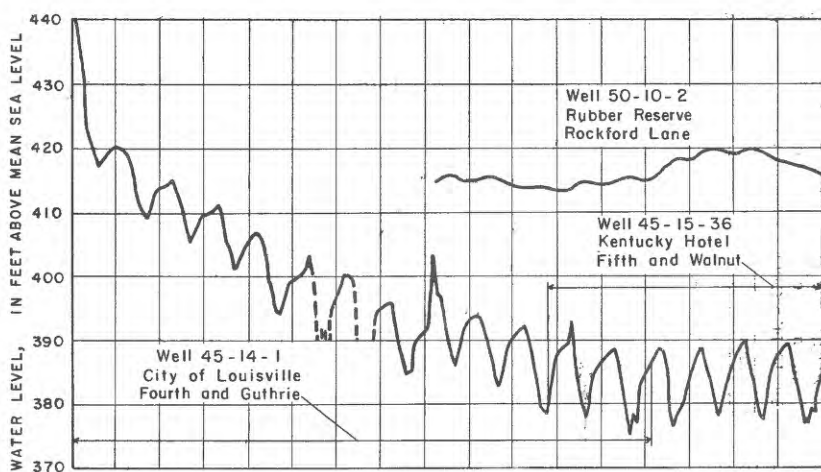


Figure 22. --Water level and precipitation in downtown area and in unpumped area south of Louisville, Ky., 1953.

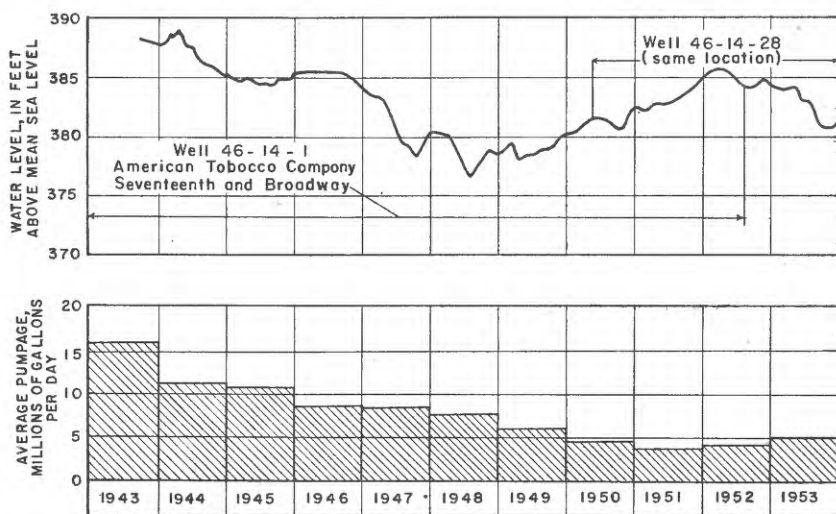


Figure 23. --Water level and pumpage in west-central part of Louisville, Ky., area, 1953.

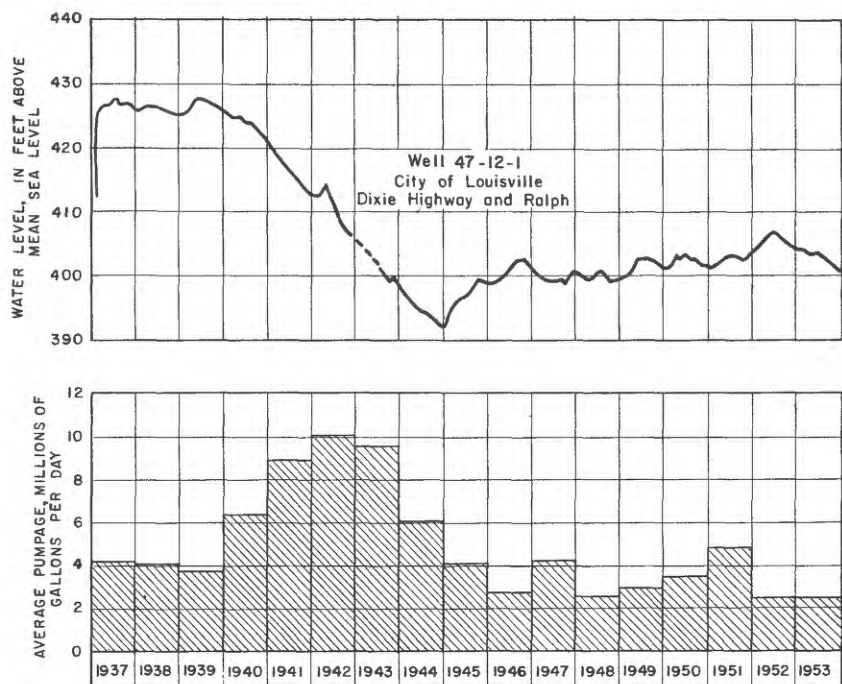


Figure 24. --Water level and pumpage in south distillery area, Louisville, Ky., 1937-53.

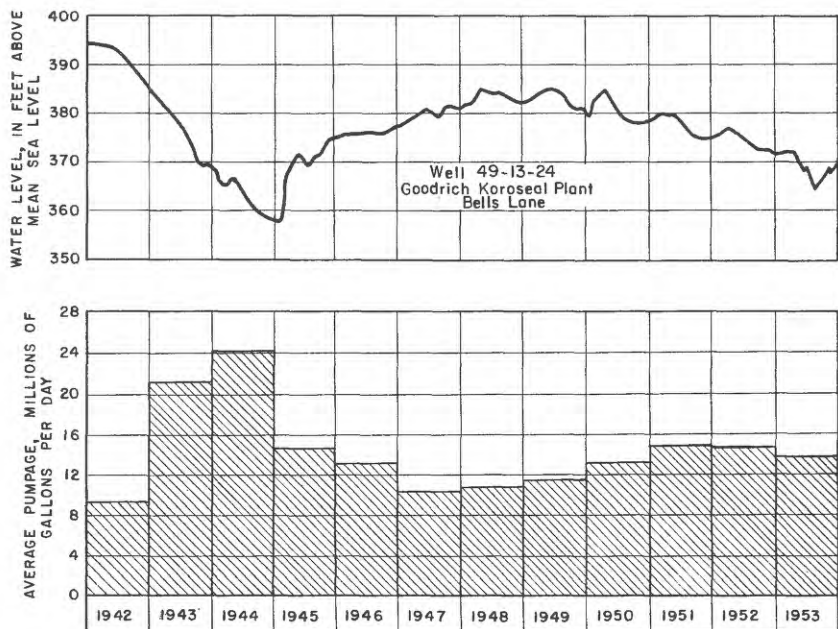


Figure 25. --Water level and pumpage in Rubbertown area, southwest of Louisville, Ky., 1942-53.

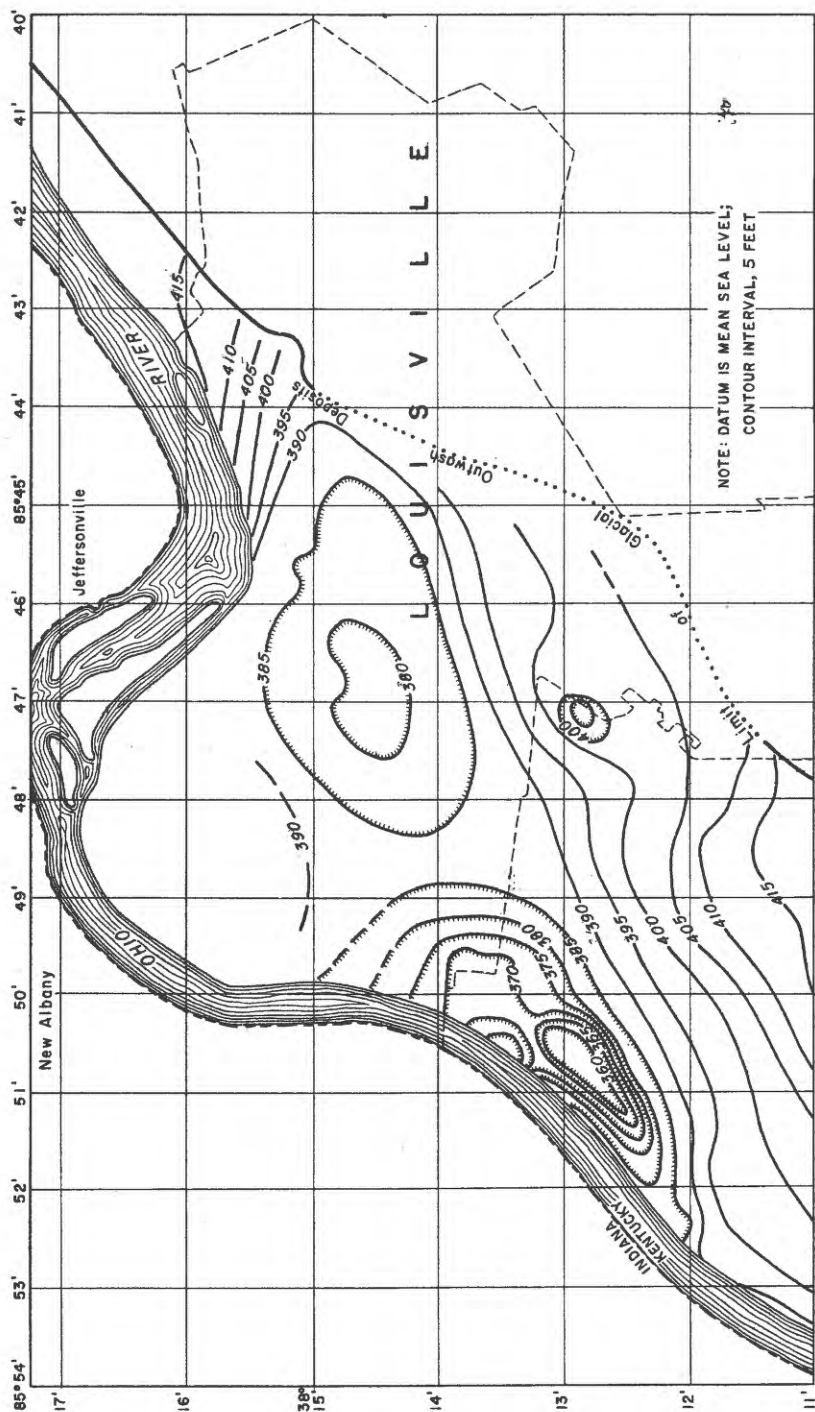


Figure 26. --Contours of water level in Louisville, Ky., area, December 1953.

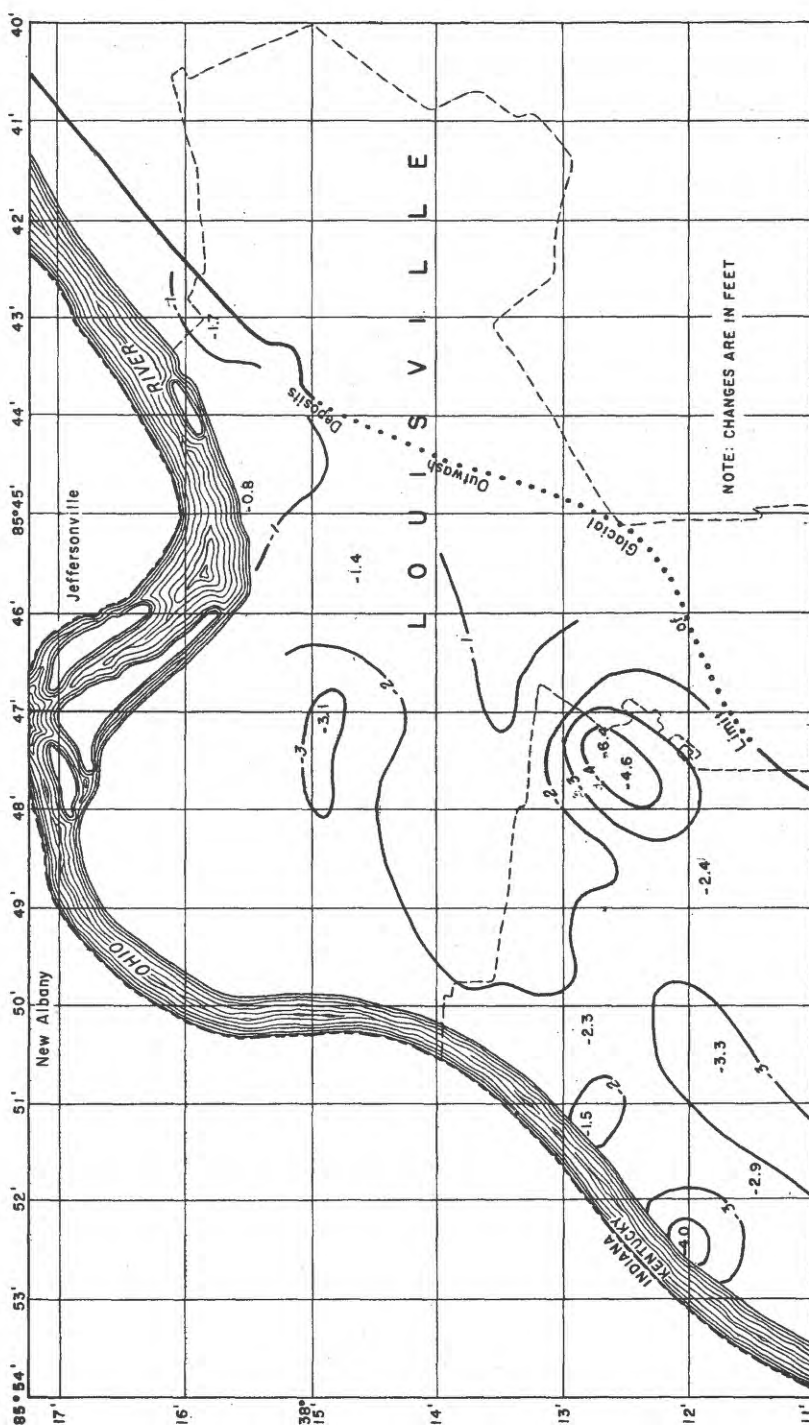
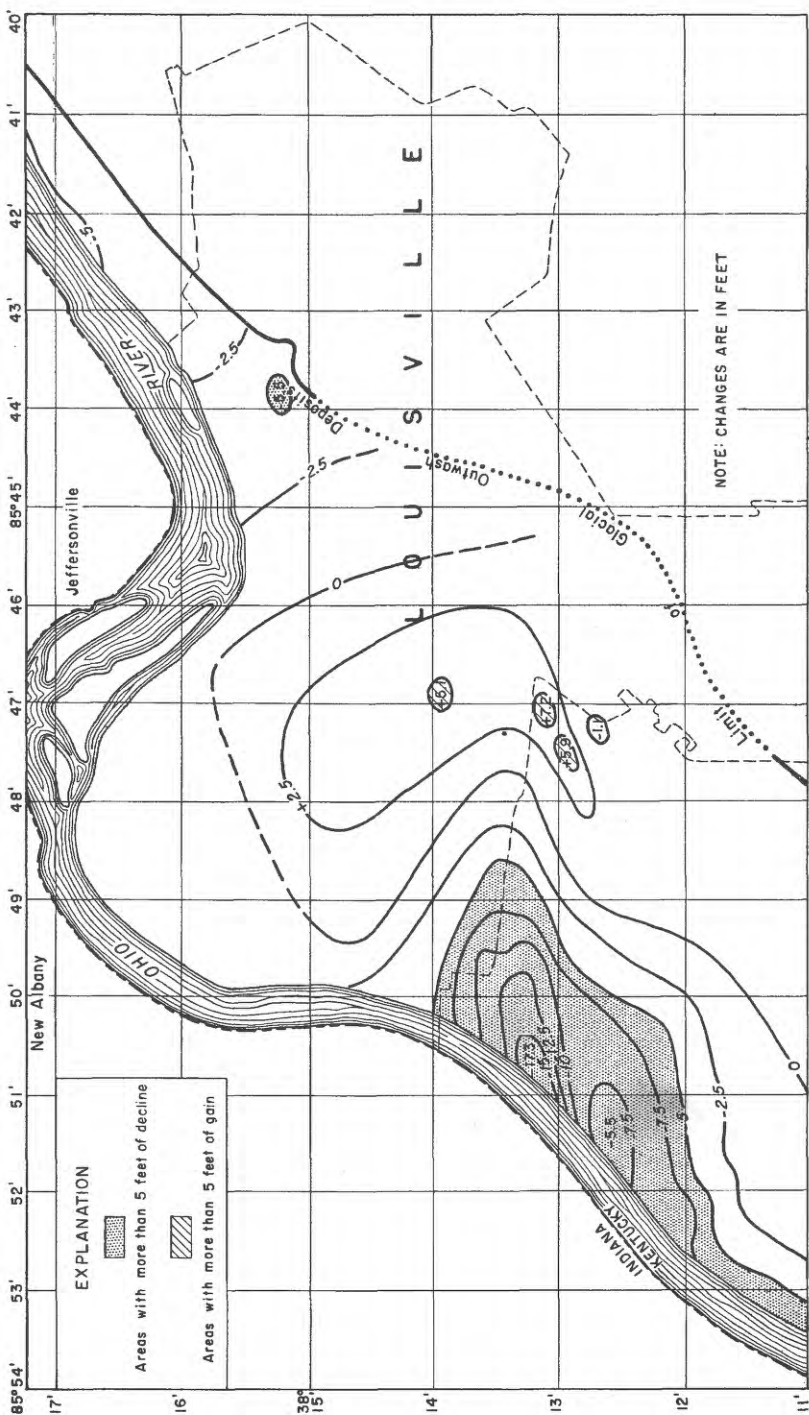


Figure 27. --Changes in water level in the Louisville, Ky., area, 1952-53.



The general decline reflects relatively small natural recharge due to deficient precipitation and drought conditions over the past 2 years. The decline increases generally toward the southwest which is the normal direction of ground-water flow in the Louisville area. The depression in the distillery area does not indicate extra heavy pumping for 1953, but relatively heavy pumping during the latter part of the year. Figure 28 shows changes of water level during the 5-year period, December 1948 to December 1953. The shaded portion in Rubbertown area shows losses greater than 5 feet, denoting the effect of sustained heavy pumping. The losses of ground-water storage during the past 2 years have nearly offset the gains of several previous 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 18.

Well Descriptions and Water-Level Measurements

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

Allen County

8610-3640-5. C. Braley. Lat. 36°44', long. 86°11'. Drilled unused artesian well in limestone of Fort Payne chert, diameter 6 inches, depth 118 feet. Highest water level 17.35 below lsd, Mar. 23, 1952; lowest 28.31 below lsd, Oct. 21, 29-30, 1952. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.20	.....	27.82	25.03	.....	27.92	27.31	27.44	27.64	28.01	27.99	27.88
2	27.93	27.36	26.09	26.58	.....	27.99	27.24	27.53	27.57	28.00	27.98	27.83
3	28.00	27.49	20.41	26.90	.....	28.02	27.49	27.56	27.49	27.98	27.93	27.70
4	28.10	27.87	21.15	27.40	27.79	28.02	27.57	27.51	27.48	27.84	27.92	27.75
5	28.09	27.80	22.75	27.53	27.59	28.03	27.55	27.40	27.57	27.71	28.02	27.89
6	28.13	27.74	.....	27.00	27.59	28.01	27.46	27.41	27.58	27.85	28.01	27.50
7	28.03	27.98	.....	27.45	27.48	27.95	27.44	27.38	27.61	27.89	27.95	27.99
8	27.50	28.08	.....	27.68	27.29	27.90	27.37	27.32	27.61	27.89	27.93	27.85
9	26.97	28.26	27.43	27.60	27.31	27.90	27.54	27.38	27.49	27.81	27.91	27.60
10	22.64	28.18	27.43	27.61	27.28	27.90	27.63	27.47	27.59	27.78	27.90	27.90
11	.....	27.67	27.50	27.71	27.29	27.80	27.58	27.70	27.55	27.81	27.84	27.89
12	26.95	22.63	27.55	27.37	27.30	27.55	27.42	27.68	27.57	27.96	27.92	27.77
13	27.10	25.15	27.73	27.80	27.40	27.43	27.40	27.59	27.89	28.04	27.95	27.70
14	27.49	26.14	27.45	27.91	27.41	27.40	27.40	27.45	27.86	27.94	27.89	27.57
15	27.68	26.60	27.03	27.46	27.36	27.45	27.46	27.53	27.92	27.83	27.82	27.92
16	27.90	27.19	27.56	27.59	26.60	26.86	27.48	27.50	27.92	27.86	27.83	27.89
17	27.61	27.60	27.41	27.59	22.70	27.47	27.38	27.56	27.92	27.89	27.87	27.94
18	23.76	27.92	23.60	27.17	21.95	27.67	27.37	27.55	27.92	.....	27.87	27.80
19	25.26	27.83	.....	27.70	19.82	27.63	27.19	27.48	27.92	27.97	27.87	27.62
20	26.41	27.49	.....	27.70	.....	27.43	27.39	27.57	27.90	28.00	27.69	27.52
21	21.91	24.72	.....	27.67	.....	27.47	27.46	27.74	28.01	28.00	27.88	27.41
22	.....	26.05	.....	27.51	.....	27.41	27.34	27.67	27.94	28.01	27.48	27.58
23	.....	26.70	25.37	27.51	.....	27.34	27.46	27.69	27.86	27.93	27.71	27.97
24	.....	26.62	25.80	27.56	.....	27.40	27.46	27.68	27.84	27.95	27.52	27.90
25	.....	26.84	26.80	27.39	27.45	27.33	27.44	27.74	27.78	28.01	27.71	27.57
26	24.39	27.19	27.15	27.46	27.58	27.30	27.45	27.82	27.75	28.00	27.99	27.57
27	25.78	27.39	27.17	27.67	27.80	27.30	27.39	27.61	27.73	27.91	27.95	27.66
28	24.15	27.86	27.28	27.57	27.91	27.35	27.32	27.48	27.89	27.92	28.19	27.53
29	24.88	.....	27.68	27.44	27.81	27.45	27.34	27.45	27.89	27.98	27.95	27.55
30	25.7+	.....	27.70	24.60	27.72	27.46	27.51	27.56	27.89	28.02	27.90	27.69
31	.....	.....	27.52	.....	27.79	.....	27.52	27.57	.....	28.01	.....	27.89

Boyd County

8235-3825-1. City of Ashland. 40th St. and U. S. Highway 23 and 60. Lat. 38°27', long. 82°36'. Drilled unused water-table well in sand and gravel, diameter 6 inches, depth 58 feet, cased to 62. Highest water level 25.00 below lsd, Feb. 8, 1952; lowest 44.04 below lsd, Dec. 31, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.57	41.04	39.56	36.99	36.89	36.18	38.46	40.46	41.90	42.89	43.40	43.72
2	43.47	40.93	39.53	37.09	36.97	36.29	38.51	40.50	41.92	42.90	43.41	43.71
3	43.47	40.73	39.61	37.10	37.11	36.39	38.60	40.57	41.96	42.93	43.41	43.71
4	43.56	40.79	39.63	37.10	37.22	36.39	38.66	40.61	41.99	42.93	43.44	43.70
5	43.53	40.74	39.64	37.12	37.29	36.27	38.72	40.64	42.04	42.93	43.47	43.80
6	43.57	40.65	39.45	37.04	37.40	36.25	38.78	40.72	42.08	42.98	43.48	43.69
7	43.54	40.73	39.31	37.07	37.48	36.28	38.87	40.78	42.11	43.03	43.48	43.81
8	43.48	40.78	39.04	37.16	37.51	36.39	38.96	40.81	43.18	43.03	43.49	43.80
9	43.47	40.89	39.00	37.05	37.39	36.51	39.03	40.89	42.20	43.02	43.50	43.72
10	43.26	40.90	38.87	37.00	37.10	36.66	39.11	40.95	42.21	43.03	43.51	43.81
11	43.10	40.73	38.87	37.09	36.79	36.77	39.19	41.00	42.22	43.08	43.51	43.83
12	43.05	40.78	38.91	36.93	36.58	36.87	39.25	41.02	42.23	43.12	43.55	43.81
13	42.70	40.87	38.95	36.98	36.51	36.96	39.32	41.08	42.33	43.15	43.56	43.81
14	42.65	40.81	39.04	36.99	36.50	37.08	39.38	41.12	42.33	43.14	43.54	43.73
15	42.54	40.63	39.03	36.76	36.58	37.19	39.46	41.19	42.36	43.15	43.53	43.90
16	42.45	40.64	39.15	36.70	36.69	37.28	39.53	41.23	42.40	43.15	43.56	43.83
17	42.27	40.60	39.06	36.75	36.78	37.37	39.59	41.31	42.45	43.18	43.58	43.90
18	42.30	40.55	38.80	36.68	36.90	37.47	39.64	41.33	42.48	43.20	43.59	43.90
19	42.31	40.42	38.87	36.78	36.96	37.54	39.71	41.38	42.49	43.20	43.60	43.90
20	42.27	40.30	38.84	36.78	36.99	37.58	39.77	41.41	42.52	43.21	43.59	43.89
21	42.21	40.30	38.77	36.76	36.79	37.65	39.85	41.47	42.56	43.22	43.50	43.90
22	42.17	40.42	38.59	36.61	36.56	37.76	39.85	41.50	42.64	43.23	43.60	43.93
23	41.98	40.35	38.51	36.60	36.39	37.81	39.93	41.52	42.66	43.22	43.62	44.00
24	41.89	40.00	38.56	36.60	36.26	37.92	40.01	41.58	42.68	43.24	43.61	43.96
25	41.97	39.83	38.55	36.54	36.18	38.00	40.09	41.63	42.69	43.31	43.63	43.92
26	41.78	39.66	38.38	36.58	36.15	38.08	40.13	41.68	42.71	43.31	43.70	43.86
27	41.60	39.57	38.04	36.68	36.20	38.16	40.18	41.70	42.72	43.31	43.66	43.99
28	41.54	39.60	37.74	36.73	36.23	38.23	40.22	41.72	42.79	43.31	43.72	43.97
29	41.44		37.57	36.77	36.18	38.30	40.31	41.75	42.83	43.37	43.70	44.00
30	41.30		37.34	36.79	36.10	38.39	40.37	41.82	42.86	43.40	43.69	44.01
31	41.13		37.12		36.12		40.40	41.86		43.40		44.03

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 290-328, 330-344. Land-surface datum is 548.97 feet above msl. Highest water level 123.23 below lsd, Mar. 3, 1953; lowest 127.30 below lsd, Aug. 5, 1948. Records available: 1948-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	123.50	123.65	123.45	123.43	123.42	123.91	124.12	124.14	124.17	124.35	123.99	123.69
2	123.30	123.58	123.32	123.51	123.51	123.93	124.09	124.13	124.16	124.39	123.95	123.68
3	123.42	123.59	123.26	123.48	123.49	123.93	124.14	124.14	124.16	124.41	123.96	123.59
4	123.41	123.65	123.35	123.49	123.48	123.93	124.07	124.17	124.23	124.31	124.00	123.61
5	123.46	123.59	123.52	123.41	123.51	123.95	124.07	124.10	124.23	124.21	124.11	123.65
6	123.46	123.60	123.58	123.26	123.61	123.95	124.04	124.09	124.12	124.19	124.12	123.42
7	123.51	123.60	123.61	123.31	123.58	123.87	124.04	124.12	124.15	124.25	124.08	123.51
8	123.46	123.58	123.57	123.36	123.59	123.96	124.03	124.05	124.22	124.23	124.00	123.48
9	123.47	123.66	123.56	123.37	123.61	124.07	124.07	123.98	124.26	124.21	123.98	123.40
10	123.43	123.64	123.55	123.46	123.58	124.12	124.11	123.97	124.28	124.18	123.98	123.52
11	123.45	123.51	123.56	123.48	123.54	124.15	124.09	124.00	124.27	124.12	123.98	123.55
12	123.52	123.55	123.56	123.35	123.59	124.16	124.03	124.01	124.29	124.13	124.04	123.46
13	123.60	123.59	123.58	123.39	123.66	124.16	123.99	124.02	124.23	124.21	124.08	123.36
14	123.68	123.51	123.55	123.47	123.60	123.98	124.03	124.05	124.15	124.26	124.07	123.58
15	123.69	123.48	123.49	123.41	123.62	123.98	124.02	124.07	124.28	124.27	123.98	123.61
16	123.77	123.41	123.60	123.47	123.50	124.10	124.04	124.03	124.33	124.28	123.93	123.73
17	123.61	123.62	123.56	123.44	123.39	124.10	123.97	124.07	124.35	124.28	123.95	123.77
18	123.54	123.64	123.48	123.31	123.38	124.07	123.97	124.07	124.39	124.22	123.95	123.74
19	123.52	123.66	123.57	123.35	123.46	124.10	123.92	124.08	124.30	124.23	123.92	123.59
20	123.52	123.55	123.55	123.36	123.55	124.11	123.89	124.09	124.15	124.27	123.82	123.43

8815-3635-6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	123.61	123.64	123.52	123.39	123.60	124.10	123.88	124.12	124.26	124.29	123.85	123.47
22	123.63	123.63	123.36	123.34	123.68	124.08	123.85	124.11	124.34	124.30	123.67	123.64
23	123.47	123.66	123.39	123.45	123.69	124.12	123.92	124.02	124.33	124.27	123.65	123.64
24	123.50	123.61	123.48	123.49	123.66	124.10	123.94	124.14	124.34	124.22	123.57	123.53
25	123.47	123.56	123.58	123.43	123.71	124.12	123.96	124.19	124.29	124.14	123.61	123.46
26	123.45	123.58	123.59	123.50	123.80	124.17	123.98	124.20	124.33	124.06	123.62	123.45
27	123.49	123.57	123.56	123.52	123.90	124.14	123.98	124.21	124.13	124.00	123.61	123.31
28	123.59	123.60	123.52	123.51	123.91	124.13	124.04	124.17	124.18	123.96	123.67	123.32
29	123.67		123.46	123.47	123.85	124.08	124.09	124.19	124.26	124.01	123.62	123.33
30	123.63		123.38	123.35	123.86	124.12	124.12	124.05	124.31	124.00	123.64	123.42
31	123.64		123.37		123.77		124.17	124.15		124.00		123.42

Carroll County

8510-3840-7. Schenley Distillers, Inc. Second and Seminary Sts., Carrollton. Lat. 38°40', long. 85°11'. Drilled unused water-table well in sand and gravel, diameter 8 inches, depth 110 feet, screen 96-110. Land-surface datum is about 550 feet above msl. Highest water level 12.60 below lsd, Mar. 25-26, 1952; lowest 37.23 below lsd, Dec. 24, 1953. Records available: 1951-53. Recording gage installed Sept. 11, 1951.

Daily noon water level from recorder graph, 1951

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 5	h35.54	Nov. 28	32.35	Dec. 3	31.61	Dec. 7	31.62
11	h36.25	29	31.56	4	31.62	8	31.62
Oct. 4	h36.56	30	31.26	5	31.62	9	30.72
30	35.22	Dec. 1	31.37	6	31.62	31	h25.80
31	35.98	2	31.61				

h Tape measurement.

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.16	.....	.....	.....	22.22	24.81	33.51	35.26	35.80	36.11	36.38	36.23
2	26.29	.....	.....	.....	21.91	25.35	33.53	35.26	35.69	36.17	36.37	36.19
3	24.74	.....	.....	24.50	22.64	26.39	33.97	35.23	35.85	36.27	36.48	36.25
4	23.68	.....	.....	25.50	24.12	27.94	33.88	35.16	35.86	36.14	36.39	36.24
5	21.79	.....	.....	.....	25.52	29.96	33.87	35.15	35.92	36.25	36.33	35.98
6	20.39	.....	29.52	.....	27.60	31.36	33.09	35.33	35.94	36.30	36.45	35.74
7	19.31	.....	28.29	.....	28.90	31.30	34.29	35.30	36.01	36.58	36.54	35.87
8	18.71	.....	27.62	.....	29.83	32.05	34.29	35.32	36.02	36.67	36.52	35.81
9	18.99	.....	27.37	.....	30.11	32.10	34.43	35.14	36.05	36.69	36.55	35.68
10	.....	.....	27.31	.....	30.30	32.00	34.45	35.13	36.04	36.68	36.61	35.06
11	.....	.....	25.17	.....	30.57	33.09	34.44	35.35	36.58	36.74	36.68	35.26
12	.....	.....	23.68	.....	30.74	33.06	34.62	35.23	36.61	36.37	36.60	35.14
13	.....	.....	23.12	.....	30.44	32.70	34.57	35.26	36.71	36.31	36.61	34.88
14	.....	.....	22.11	.....	29.62	33.01	34.58	35.15	36.79	36.39	36.49	34.50
15	.....	.....	21.10	.....	28.63	32.85	34.61	35.20	36.06	36.38	36.60	34.20
16	.....	.....	20.50	.....	28.11	33.05	34.65	35.24	36.01	36.42	36.63	33.92
17	.....	.....	20.20	.....	27.84	33.29	34.73	35.12	36.01	36.44	36.61	33.70
18	.....	.....	20.20	.....	27.74	33.38	35.24	35.22	35.97	36.34	36.58	33.75
19	.....	.....	20.80	.....	27.67	33.30	34.65	36.38	36.03	36.34	36.51	34.10
20	.....	.....	21.46	.....	27.68	33.48	35.41	35.29	36.09	36.54	36.50	35.30
21	.....	.....	22.34	.....	27.70	33.40	35.47	35.47	36.22	36.58	36.54	35.61
22	.....	.....	18.20	.....	26.70	33.65	35.51	35.54	36.01	36.38	36.49	35.54
23	.....	.....	15.00	.....	25.23	33.28	35.57	35.58	36.09	36.36	36.40	35.80
24	.....	.....	13.18	.....	24.30	33.09	34.90	35.62	36.12	36.32	35.98	35.78
25	.....	.....	12.60	.....	24.08	33.06	35.41	35.61	36.05	36.42	35.74	35.65
26	.....	.....	12.75	.....	24.38	32.99	35.45	35.61	36.05	36.39	35.82	35.58
27	.....	.....	13.98	.....	24.21	33.70	35.47	35.63	36.10	36.28	36.22	35.73
28	.....	.....	15.75	.....	24.75	33.52	35.71	35.66	36.08	36.40	36.47	36.08
29	.....	.....	.....	.....	24.96	33.88	35.91	35.72	36.09	36.42	36.08	36.00
30	h15.65	.....	.....	.....	24.59	33.82	35.13	35.75	36.10	36.35	36.28	35.82
31	.....	.....	.....	.....	24.26	.....	35.23	35.79	.....	36.35	.....	35.93

h Tape measurement.

144 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8510-3840-7--Continued.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.98	27.89	28.90	25.80	30.50	.....	34.94	36.00	36.63	37.07	37.02	37.08
2	35.71	27.79	29.52	26.38	30.91	.....	34.87	35.98	36.58	37.04	37.04	37.01
3	35.89	28.09	30.39	27.02	31.19	.....	34.89	36.12	36.61	36.96	37.01	37.00
4	.....	28.66	28.99	27.78	31.51	.....	34.86	35.83	36.59	36.96	37.09	36.94
5	.....	29.25	26.99	28.31	31.84	.....	34.69	35.90	36.63	36.93	37.13	37.03
6	.....	29.85	25.40	28.61	31.90	.....	34.57	36.10	36.73	36.98	37.16	36.93
7	.....	30.46	24.50	28.56	31.52	.....	34.39	36.10	36.68	37.04	37.12	37.07
8	35.63	31.12	24.28	28.39	31.25	.....	34.60	36.02	36.74	36.98	37.10	36.97
9	34.68	31.71	24.80	28.39	30.30	.....	34.78	36.12	36.68	36.96	37.13	36.92
10	33.79	.....	25.51	28.47	28.65	.....	34.80	36.11	36.74	36.95	37.15	36.98
11	32.02	.....	26.40	28.42	27.28	.....	35.00	36.03	36.59	36.88	37.10	37.19
12	30.50	.....	27.83	28.42	26.59	.....	35.45	36.08	36.69	36.99	37.18	37.00
13	30.00	.....	29.28	28.57	26.51	.....	35.35	36.32	36.71	37.02	37.16	36.94
14	30.08	.....	30.13	28.43	26.91	.....	35.49	36.37	36.66	37.01	37.12	36.93
15	30.53	31.57	30.18	27.89	27.72	.....	35.60	36.39	36.73	36.98	37.07	36.99
16	30.84	31.03	29.50	27.94	28.38	.....	35.63	36.34	36.89	37.02	37.04	37.08
17	31.02	30.82	28.91	27.94	28.15	.....	35.58	36.50	36.95	37.18	37.09	37.07
18	30.55	30.54	28.40	27.98	27.05	.....	35.70	36.40	37.00	37.17	37.10	36.92
19	30.52	30.48	27.90	27.38	26.94	33.02	35.46	36.50	36.85	37.19	37.10	36.95
20	30.79	30.37	27.35	27.24	26.87	33.18	35.77	36.55	.....	37.19	37.08	36.99
21	30.89	30.72	27.04	27.28	26.69	32.91	35.68	36.68	.....	37.20	37.08	36.95
22	30.85	30.83	27.05	27.33	25.90	33.95	35.68	36.70	37.00	36.95	37.01	37.09
23	30.74	30.71	27.43	27.50	.....	34.15	35.53	36.76	36.88	36.91	37.01	37.17
24	30.69	29.60	28.02	27.68	.....	34.18	35.62	36.78	36.88	36.98	36.86	37.18
25	30.48	.....	29.00	27.91	.....	34.50	35.75	36.70	36.79	37.01	37.06	36.90
26	29.91	.....	29.50	28.93	.....	34.58	35.85	36.67	36.91	37.02	37.09	36.88
27	29.52	28.24	28.54	28.70	.....	34.77	35.78	36.65	36.85	36.99	37.04	37.01
28	28.60	28.53	27.25	29.13	.....	34.85	35.88	36.66	36.90	36.99	37.02	37.09
29	27.99	.....	26.31	29.65	.....	34.90	35.99	36.71	36.89	37.07	36.99	36.98
30	27.98	.....	25.73	30.04	.....	34.71	36.03	36.71	36.98	37.08	36.99	37.15
31	27.90	.....	25.57	.....	.....	.....	35.90	36.70	.....	37.06	.....	37.17

e Estimated.

h Tape measurement.

Carter County

8255-3815-8. J. E. Newland. Lat. 38°19', long. 82°57'. Drilled unused water-table well in limestone of Mississippian age, diameter 10 inches, depth 109 feet. Highest water level 8.50 below lsd, Feb. 4, 1952; lowest 14.21 below lsd, Dec. 18, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.54	10.49	10.54	9.90	10.01	10.32	10.99	11.43	11.87	12.71	13.32	13.96
2	11.18	10.46	10.37	10.14	10.08	10.51	10.85	11.38	11.82	12.68	13.38	13.90
3	10.95	10.35	10.19	10.18	10.34	10.53	10.95	11.40	11.75	12.73	13.34	13.58
4	11.11	10.58	9.77	10.25	10.42	10.51	11.04	11.33	11.74	12.65	13.42	13.58
5	11.01	10.58	9.98	10.30	10.30	10.53	11.02	11.26	11.93	12.50	13.55	13.97
6	11.10	10.41	10.09	10.10	10.24	10.58	10.97	11.39	11.92	12.55	13.55	13.58
7	11.15	10.55	10.27	10.07	10.12	10.59	11.02	11.43	11.99	12.87	13.46	14.04
8	10.75	10.58	10.25	10.10	10.07	10.60	10.99	11.33	12.18	12.83	13.45	13.95
9	10.48	10.90	10.44	9.93	10.12	10.69	11.12	11.37	12.23	12.72	13.53	13.67
10	10.36	10.91	10.37	9.89	10.14	10.75	11.22	11.49	12.16	12.65	13.56	13.84
11	10.47	10.49	10.35	10.03	10.07	10.81	11.25	11.56	11.99	12.60	13.49	13.97
12	10.83	10.40	10.35	9.74	10.08	10.73	11.21	11.55	11.89	12.83	13.68	13.77
13	10.76	10.53	10.31	9.84	10.19	10.63	.....	11.49	12.12	12.96	.....	13.72
14	10.83	10.47	10.25	10.05	10.21	10.66	11.19	11.47	12.03	12.96	.....	13.30
15	10.88	10.25	10.00	9.87	10.23	.....	11.29	11.49	12.03	12.93	.....	13.85
16	10.99	10.27	10.12	9.86	10.19	.....	11.35	11.52	12.07	12.94	13.60	13.98
17	10.78	10.66	10.05	9.91	10.04	10.65	11.29	11.58	12.24	13.02	13.65	14.18
18	10.60	10.73	9.68	9.74	10.06	.....	11.22	11.61	12.24	13.04	13.70	14.20
19	10.43	10.74	9.72	9.82	9.87	.....	11.23	11.60	12.16	13.08	13.70	14.03
20	10.39	10.50	9.89	9.81	9.87	.....	11.24	11.62	12.16	13.09	13.58	13.84
21	10.47	10.50	9.92	9.87	9.83	.....	11.22	11.68	12.31	13.11	13.66	13.60
22	10.67	10.59	9.97	9.77	9.81	.....	11.18	11.68	12.61	13.07	13.52	13.60
23	10.45	10.58	9.94	9.81	10.04	.....	11.24	11.65	12.61	12.87	13.54	14.00
24	10.14	10.40	9.94	9.91	10.08	.....	11.39	11.70	12.54	12.97	13.33	14.05
25	10.36	10.25	9.99	9.82	10.08	.....	11.46	11.76	12.45	13.10	13.41	13.73

8255-3815-8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	10.47	10.13	10.08	9.87	10.04	11.07	11.48	11.77	12.39	13.08	13.70	13.67
27	10.31	10.13	9.99	10.04	10.31	11.05	11.44	11.77	12.25	12.93	13.62	13.80
28	10.35	10.43	9.90	10.10	10.48	11.03	11.41	11.75	12.43	12.93	14.04	13.60
29	10.41		10.09	10.08	10.38	11.08	11.43	11.73	12.49	13.13	13.92	13.63
30	10.41		10.17	9.95	10.20	11.09	11.49	11.76	12.58	13.13	13.86	13.68
31	10.36		10.07		10.18		11.49	11.82		13.29		13.87

Christian County

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 3.62 below lsd, May 17, 1953; lowest 17.70 below lsd, Sept. 21, 1951. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	11.66	10.74	14.46	.....	16.71	16.83	16.90	16.95	16.91
2	.....	.....	.....	11.70	11.06	14.92	.....	16.67	16.80	16.95	16.95	16.93
3	.....	.....	.....	11.73	11.30	15.20	.....	16.71	16.81	16.96	16.99	.....
4	.....	.....	.....	11.78	8.39	15.48	.....	16.74	16.81	16.97	16.98	.....
5	.....	.....	.....	11.82	10.15	15.64	.....	16.75	16.78	16.95	17.00	.....
6	.....	.....	10.43	11.75	10.45	15.66	.....	16.73	16.83	16.96	17.07	15.69
7	.....	.....	10.90	11.85	10.79	.....	.....	16.76	16.85	16.96	16.98	16.59
8	.....	.....	11.22	11.93	11.04	.....	.....	.....	16.83	16.96	16.98	16.72
9	.....	.....	11.44	12.07	11.26	.....	.....	.....	16.84	16.97	16.98	16.68
10	.....	.....	11.59	12.33	11.43	.....	.....	.....	16.84	16.96	16.96	16.81
11	.....	11.32	11.68	12.55	11.59	.....	.....	.....	16.84	16.95	16.96	16.86
12	.....	11.32	11.73	12.74	11.68	.....	.....	.....	16.84	16.94	16.97	16.89
13	.....	11.37	11.82	13.06	11.75	.....	.....	.....	16.86	16.95	16.99	16.90
14	11.72	11.45	.....	13.34	11.68	.....	.....	16.77	16.86	16.96	16.99	16.91
15	11.80	11.54	.....	13.16	11.72	.....	16.53	16.73	16.87	16.96	16.99	16.74
16	11.71	11.61	.....	13.67	.....	15.45	16.44	16.75	16.87	16.97	16.98	16.85
17	10.93	11.67	.....	13.95	4.80	15.65	16.33	16.70	16.89	16.97	16.98	16.90
18	11.20	11.72	.....	11.82	7.55	15.74	.....	16.61	16.89	16.97	17.00	16.89
19	11.23	11.78	.....	11.82	8.14	15.88	.....	16.72	16.76	16.99	16.99	16.87
20	11.34	11.87	.....	11.83	9.32	15.90	.....	16.74	16.86	16.98	16.95	16.89
21	11.34	11.59	.....	11.86	10.25	15.98	.....	16.75	16.86	16.97	16.94	16.94
22	11.65	11.63	.....	11.93	10.84	16.04	15.85	16.75	16.87	16.95	15.90	16.91
23	11.07	11.66	.....	12.20	11.20	16.08	16.31	16.76	16.87	16.96	16.72	16.90
24	11.00	11.69	.....	12.53	11.45	16.06	16.44	16.74	16.89	16.96	16.65	16.97
25	11.00	11.72	.....	11.88	11.57	16.12	16.57	16.74	16.89	16.97	16.83	16.98
26	11.15	11.80	11.37	11.90	11.67	16.15	16.59	16.76	16.89	16.95	16.87	16.91
27	11.23	12.00	11.48	11.97	11.79	.....	16.61	16.78	16.91	16.93	16.90	16.92
28	11.34	12.30	11.57	12.10	12.08	.....	16.62	16.77	16.89	16.84	16.89	16.30
29	.....	.....	11.62	12.37	12.50	.....	16.63	16.80	16.92	16.96	16.83	16.67
30	.....	.....	11.73	10.43	13.36	.....	16.68	16.81	16.89	16.97	16.85	16.75
31	.....	.....	11.76	.....	13.79	.....	16.74	16.82	.....	16.96	.....	16.79

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 and Recent age, diameter 12 inches, depth 118 feet, screen 85-105. Land-surface datum is 403.35 feet above msl. Highest water level 23.47 below lsd, Feb. 8, 1952; lowest 57.19 below lsd, Oct. 15, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	51.50	.....	46.01	44.28	44.62	41.78	.....	52.98	53.61	55.79	56.47	56.63
2	51.61	44.36	45.54	43.94	45.49	42.43	.....	53.02	53.57	55.52	56.27	56.77
3	51.88	44.33	45.77	43.12	46.55	43.02	.....	53.15	53.57	55.69	56.53	56.67
4	52.03	44.39	45.86	43.59	47.01	43.56	.....	53.27	53.55	55.73	56.70	56.69
5	51.94	44.68	45.83	43.75	46.86	44.11	.....	53.18	53.67	55.44	56.88	56.31
6	52.01	44.37	44.71	43.82	46.85	44.63	.....	53.12	53.67	55.70	56.69	55.94
7	52.03	44.79	43.36	44.47	46.94	45.08	51.05	53.07	53.68	55.86	56.58	55.56
8	51.82	45.21	41.85	45.16	47.04	45.43	50.95	53.08	53.71	.....	56.52	55.42
9	51.84	45.62	40.08	45.46	47.08	45.56	50.84	53.10	54.32	55.95	56.34	55.34
10	51.62	46.28	.....	45.22	46.98	45.72	50.88	53.01	54.75	56.12	56.36	55.19

146 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8705-3745-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	51.21	46.81	.....	45.48	46.79	45.94	50.95	52.92	54.57	55.94	56.39	55.05
12	50.32	47.46	.....	45.47	46.42	46.25	51.04	52.81	54.76	55.94	56.36	54.96
13	49.23	48.17	40.10	45.60	45.69	46.60	51.18	52.77	54.75	56.58	56.39	54.86
14	48.02	48.76	41.73	45.86	44.78	46.89	51.33	52.76	54.50	57.01	56.30	54.71
15	46.95	48.69	42.44	45.95	44.00	47.20	51.50	52.84	54.57	57.02	56.15	54.73
16	46.10	48.53	43.47	46.35	.....	47.73	51.66	52.92	54.65	56.51	56.01	54.67
17	.....	49.08	44.16	46.02	.....	48.22	51.80	52.98	54.69	56.55	56.03	54.54
18	.....	49.28	44.48	45.27	43.80	48.57	.....	52.99	54.69	56.43	56.12	55.42
19	h46.79	48.79	44.40	44.76	43.41	48.82	.....	53.07	54.67	56.32	56.18	54.27
20	46.60	48.19	43.90	44.23	42.85	48.94	.....	53.13	54.65	56.44	56.33	54.17
21	46.51	47.97	43.78	43.65	42.24	48.96	52.19	53.20	54.48	56.62	56.34	54.10
22	46.54	47.75	43.55	43.09	41.94	49.06	52.29	53.28	54.57	56.44	56.37	54.13
23	46.72	47.43	43.28	42.93	41.90	49.26	52.34	53.33	54.82	56.26	56.29	54.23
24	.....	47.55	43.40	42.93	41.68	49.49	52.35	53.39	55.00	56.56	56.23	54.22
25	46.64	47.66	43.59	42.87	h39.96	49.75	52.35	53.47	55.00	56.63	56.43	54.16
26	46.39	47.71	44.28	42.91	39.30	50.07	52.36	53.55	55.23	56.46	56.49	54.07
27	46.43	47.03	44.40	43.00	39.05	50.29	52.42	53.61	55.32	56.52	56.47	53.95
28	.....	46.50	45.28	43.66	39.27	50.52	52.47	53.60	55.03	56.81	56.83	53.86
29	.....	.....	45.59	43.94	39.77	50.72	52.54	53.60	55.30	56.79	56.79	53.85
30	.....	.....	45.06	44.28	40.36	50.88	52.62	53.59	55.49	56.61	56.63	53.87
31	.....	.....	44.68	.....	41.06	.....	52.70	53.58	.....	56.48	.....	53.89

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 and Recent age, diameter 12 inches, depth 104 feet. Highest water level 26.0 below lsd, Feb. 8, 1952; lowest 55.72 below lsd, July 29, 1952. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.31	44.65	45.39	46.85	51.37	48.08	52.06	52.15	53.46	52.59	49.82	h52.05
2	49.76	45.60	46.80	46.95	51.82	49.70	.....	49.52	53.57	52.80	51.08	53.10
3	49.62	46.25	48.67	46.22	52.10	50.50	.....	51.53	53.59	53.89	51.69	51.05
4	49.99	46.80	48.60	48.04	50.40	51.50	.....	53.22	53.65	50.95	50.85	51.03
5	50.50	47.32	47.45	45.07	52.77	51.71	.....	52.97	51.52	51.77	50.82	50.67
6	51.26	48.09	45.35	47.62	52.75	51.99	.....	52.25	50.95	51.77	50.67	50.12
7	51.08	49.12	44.65	48.70	51.97	49.42	h52.66	51.81	50.70	51.89	49.30	51.19
8	50.47	48.67	38.49	50.06	52.09	49.84	52.47	51.67	51.59	53.31	48.57	52.39
9	51.33	50.52	41.29	49.82	53.02	53.48	52.42	48.62	51.46	53.08	50.57	52.17
10	51.49	52.57	41.72	50.22	49.95	53.69	51.72	51.72	51.72	52.82	51.75	53.31
11	49.61	52.05	43.73	49.04	50.39	54.06	49.49	51.52	51.57	50.72	51.62	53.24
12	48.52	52.57	43.63	46.12	50.02	53.32	48.27	51.92	51.88	52.62	51.07	52.40
13	46.42	51.98	44.95	49.27	48.05	53.34	51.74	51.95	49.10	53.25	51.72	51.91
14	45.39	53.17	47.64	50.19	47.37	49.48	52.20	51.84	51.05	51.87	49.79	52.29
15	46.16	51.59	44.92	48.97	47.24	51.80	52.24	52.19	51.52	52.11	49.27	53.28
16	46.13	51.82	48.62	48.89	47.46	52.07	52.49	49.29	51.47	52.17	51.37	53.31
17	47.51	53.17	49.72	49.80	44.19	52.34	51.65	51.33	50.92	52.24	51.71	53.41
18	46.70	51.47	.....	48.52	46.67	52.37	51.20	51.69	50.50	50.59	51.69	53.54
19	47.23	50.97	48.39	44.81	45.98	51.17	48.41	51.50	49.79	52.99	51.55	53.34
20	47.37	50.72	49.15	46.97	46.37	53.02	50.97	51.95	48.44	53.44	51.44	51.23
21	48.07	50.84	47.69	46.97	45.29	51.42	51.80	52.59	50.04	53.45	49.39	53.67
22	48.68	49.87	43.40	47.82	46.24	51.59	51.37	51.90	50.51	53.37	48.74	54.34
23	48.65	50.12	43.77	48.39	45.62	53.23	50.47	48.90	49.17	52.17	50.96	54.48
24	49.06	50.89	47.52	48.37	40.65	52.63	52.28	h52.17	49.89	53.24	51.07	52.41
25	48.14	51.57	46.19	47.40	41.37	52.54	49.69	52.53	49.62	52.74	51.19	50.25
26	48.54	50.72	48.95	45.30	44.99	52.84	48.37	52.42	50.37	52.92	49.32	49.85
27	48.30	48.37	50.04	47.87	46.22	51.04	51.09	53.23	49.65	51.57	51.36	49.80
28	47.82	47.27	50.46	49.53	43.68	51.02	51.74	52.92	50.74	.....	49.16	52.78
29	46.70	.....	45.57	50.29	44.54	50.52	52.00	52.45	51.05	h52.68	48.67	51.63
30	45.83	.....	43.89	50.82	46.49	52.17	51.87	49.30	52.42	52.49	50.99	51.57
31	45.55	.....	45.97	.....	44.95	.....	52.25	52.56	.....	50.34	.....	50.05

h Tape measurement.

8705-3745-33. Malco Theatre Corp. 418 Frederica St., Owensboro. Drilled unused artesian well in alluvium of Pleistocene and Recent age, diameter 6 inches, depth 84 feet, screen 62-84(?). Highest water level 18.90 below lsd, Feb. 8, 1952; lowest 40.53 below lsd, Sept. 4, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.60	.....	36.04	33.90	46.87	36.64	39.63	39.93	40.20	39.35	38.40	38.25
2	38.00	.....	35.79	33.55	37.60	37.00	39.56	40.00	40.12	39.35	38.42	38.13
3	37.34	.....	35.57	35.24	37.93	37.35	39.60	40.05	40.17	39.47	38.36	37.92
4	37.43	h34.01	36.06	35.53	37.85	37.62	39.65	40.03	40.27	39.45	38.31	38.00
5	37.42	33.98	35.73	35.85	38.07	38.05	39.22	39.95	40.02	39.18	38.37	38.18
6	37.38	34.44	34.57	36.00	38.05	38.40	39.65	39.92	39.75	38.95	38.27	37.96
7	37.49	35.07	32.98	36.82	38.25	38.75	39.80	39.88	39.70	39.01	38.15	38.27
8	37.42	35.64	31.56	37.22	37.98	38.95	39.90	39.82	39.65	38.86	38.10	38.16
9	37.44	36.32	31.36	37.62	38.18	39.27	39.80	39.60	39.80	38.62	38.23	37.92
10	37.64	.....	29.76	37.79	38.40	39.47	39.87	39.74	39.80	38.53	38.20	38.40
11	38.00	h36.81	29.85	37.70	38.30	39.55	39.23	39.72	39.45	38.49	38.10	38.37
12	37.71	37.26	30.56	37.68	38.30	39.65	39.05	39.85	39.53	38.83	38.27	38.24
13	36.63	37.59	31.62	37.95	37.25	39.70	39.03	40.03	39.20	38.75	38.30	38.05
14	35.47	37.61	32.37	37.95	36.65	39.58	39.07	40.03	38.90	38.63	38.24	37.90
15	34.88	37.83	.....	37.42	35.80	39.50	39.65	40.08	39.00	38.54	38.13	38.26
16	35.23	37.72	.....	37.93	35.42	39.58	39.17	39.70	39.02	38.46	38.17	38.45
17	.....	38.25	.....	37.70	36.00	39.67	39.15	40.04	39.15	38.53	38.25	38.37
18	.....	37.94	34.97	37.78	35.58	39.65	39.55	39.97	39.24	39.18	38.31	38.25
19	.....	37.75	35.10	37.68	34.93	39.62	39.50	39.81	39.29	39.14	38.28	37.98
20	.....	37.26	34.70	37.35	34.95	39.65	39.47	39.87	39.12	39.16	38.06	37.82
21	35.51	37.81	34.38	36.95	34.91	39.95	39.70	39.92	39.20	39.09	38.33	37.72
22	35.60	37.71	34.05	36.49	34.85	39.90	39.73	40.00	39.19	39.14	38.06	38.15
23	35.40	37.48	33.90	36.90	34.87	39.87	39.83	39.83	38.95	39.47	38.01	38.37
24	35.83	37.23	33.74	36.76	34.10	39.77	40.00	h40.17	38.85	38.92	37.92	38.06
25	36.28	37.15	34.03	37.41	33.80	39.72	40.03	40.23	39.28	39.19	38.08	37.83
26	36.02	36.99	34.38	37.28	33.60	39.75	39.92	40.29	39.40	39.06	38.25	37.83
27	35.92	36.66	34.75	37.33	33.55	39.76	39.87	40.24	38.84	38.30	38.42	37.76
28	35.86	36.44	35.18	37.48	33.75	39.75	39.85	40.08	38.95	38.25	38.51	37.75
29	35.37	.....	35.50	37.75	34.50	39.75	39.98	40.07	38.98	38.35	38.15	37.86
30	.....	.....	34.98	36.15	35.13	39.75	40.08	40.05	39.19	38.45	38.32	38.13
31	.....	.....	34.28	.....	35.85	.....	40.04	40.22	.....	38.36	.....	38.04

h Tape measurement.

Edmonson County

8615-3710-1. W. E. Kidwell. Lat. 37°11', long. 86°16'. Dug unused water-table well in Cypress sandstone, diameter 30 inches, depth 23 feet. Highest water level 0.67 below lsd, Mar. 3, 1953; lowest 12.56 below lsd, Nov. 22, 1953. Records available: 1952-53. Recording gage installed Oct. 10, 1952.

Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 10	9.72	Oct. 31	9.99	Nov. 21	10.06	Dec. 12	10.08
11	9.73	Nov. 1	10.00	22	10.06	13	10.08
12	9.74	2	10.00	23	10.07	14	10.09
13	9.75	3	10.01	24	10.07	15	10.09
14	9.77	4	10.01	25	10.08	16	10.10
15	9.79	5	10.01	26	10.08	17	10.10
16	9.80	6	10.02	27	10.08	18	10.11
17	9.82	7	10.03	28	10.09	19	10.11
18	9.83	8	10.04	29	10.09	20	10.11
19	9.85	9	10.04	30	10.10	21	10.11
20	9.87	10	10.04	Dec. 1	10.00	22	10.12
21	9.88	11	10.05	2	10.11	23	10.12
22	9.89	12	10.06	3	10.11	24	10.12
23	9.90	13	10.06	4	10.09	25	10.13
24	9.91	14	10.07	5	10.08	26	10.13
25	9.93	15	10.07	6	10.07	27	10.13
26	9.94	16	10.08	7	10.08	28	10.14
27	9.95	17	10.08	8	10.08	29	10.14
28	9.96	18	10.09	9	10.08	30	10.14
29	9.97	19	10.05	10	10.07	31	10.14
30	9.98	20	10.06	11	10.08		

8615-3710-1--Continued.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.15	....	2.26	1.22	....	4.01	7.00	9.38	11.12	12.00	12.44	12.49
2	10.15	....	1.14	....	....	4.13	7.09	9.46	11.16	12.02	12.45	12.49
3	10.14	....	.74	....	....	4.24	7.15	9.53	11.20	12.05	12.45	12.49
4	10.13	2.33	1.00	....	....	4.38	7.21	9.60	11.24	12.07	12.45	12.49
5	10.12	2.40	1.35	....	....	4.49	7.28	9.67	11.28	12.09	12.46	12.49
6	1.60	1.42	....	....	4.54	7.37	9.75	11.32	12.10	12.47	12.47
7	1.59	....	....	....	4.63	7.42	9.82	11.36	12.11	12.47	12.47
8	1.70	....	....	....	4.73	7.51	9.89	11.41	12.13	12.48	12.47
9	1.70	....	....	....	4.85	7.61	9.95	11.45	12.15	12.48	12.47
10	1.70	....	....	....	4.95	7.71	10.01	11.49	12.17	12.49	12.47
11	1.40	....	....	....	5.06	7.81	10.08	11.52	12.19	12.49	12.47
12	1.43	....	....	....	5.18	7.92	10.10	11.56	12.20	12.50	12.48
13	1.67	....	....	....	5.25	7.97	10.16	11.60	12.22	12.50	12.48
14	1.85	....	....	....	5.34	8.09	10.22	11.63	12.24	12.51	12.48
15	1.86	....	....	....	5.42	8.12	10.28	11.66	12.26	12.51	12.48
16	5.52	8.29	10.34	11.69	12.27	12.52	12.48
17	5.61	8.29	10.40	11.73	12.29	12.54	12.49
18	5.70	8.33	10.45	11.76	12.31	12.54	12.49
19	5.79	8.39	10.51	11.79	12.32	12.54	12.49
20	5.89	8.45	10.56	11.80	12.34	12.55	12.50
21	6.02	8.50	10.61	11.82	12.35	12.55	12.50
22	6.14	8.55	10.66	11.83	12.37	12.46	12.50
23	2.49	6.35	8.63	10.71	11.85	12.38	12.46	12.50
24	2.70	6.38	8.70	10.76	11.87	12.40	12.46	12.51
25	2.94	6.35	8.79	10.81	11.89	12.41	12.46	12.51
26	1.96	....	3.16	6.63	8.87	10.86	11.91	12.42	12.47	12.51
27	2.01	2.12	....	3.35	6.73	8.96	10.90	11.92	12.43	12.47	12.52
28	2.16	2.23	....	3.52	6.82	9.05	10.95	11.94	12.43	12.47	12.51
29	2.34	....	3.65	6.86	9.14	10.99	11.96	12.43	12.48	12.52
30	2.41	....	3.76	6.94	9.23	11.03	11.99	12.43	12.48	12.52
31	2.37	....	3.89	....	9.31	11.07	....	12.44	....	12.52

Fayette County

8435-3755-28. M. A. Kehrt. Lat. 37°59', long. 84°36'. Drilled unused water-table well in limestone of Lexington group, diameter 6 inches, depth 132 feet, reported cased to 15. Land-surface datum is about 940 feet above msl. Highest water level 6.87 below lsd, May 21, 1953; lowest 13.77 below lsd, Oct. 7, 1953. Records available: 1952-53. Recording gage installed June 18, 1952.

Daily noon water level from recorder graph, 1952

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	13.13	....	....	13.27	13.28	....
2	....	13.21	....	....	13.42	13.36	....
3	....	13.19	....	....	13.46	13.35	13.17
4	....	13.24	....	....	13.35	13.48	13.04
5	....	13.25	....	....	13.40	13.17	12.39
6	....	13.27	....	....	13.46	13.32	12.07
7	....	13.28	....	....	....	13.44	12.16
8	....	....	....	....	....	13.35	12.25
9	....	....	....	....	13.27	13.27	12.32
10	....	....	....	....	13.32	13.30	11.88
11	h13.40	....	....	13.37	13.37	13.37	11.59
12	....	....	....	13.40	13.31	13.35	11.64
13	....	....	12.79	13.41	13.31	13.31	11.84
14	....	....	12.88	13.44	13.32	13.25	12.01
15	....	....	12.91	13.35	13.28	13.30	12.18
16	....	13.53	13.11	13.31	13.38	13.37	12.33
17	....	13.52	13.19	13.28	13.36	13.32	12.38
18	13.27	13.49	13.21	13.28	13.38	13.24	12.53
19	13.19	13.43	13.24	13.34	13.29	13.15	12.57
20	13.18	13.46	13.25	13.40	13.39	13.15	12.46
21	13.07	13.53	13.32	13.40	13.54	13.11	12.59
22	12.97	....	13.38	13.28	13.45	12.96	12.55
23	12.43	....	13.42	13.36	13.37	12.95	12.62
24	12.10	....	13.43	13.38	13.32	12.82	12.72
25	12.13	....	13.44	13.32	13.33	13.10	12.72

8435-3755-28--Continued.

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	12.37	.....	13.37	13.28	13.38	13.16	12.73
27	12.56	.....	13.37	13.33	13.33	13.10	12.78
28	12.86	.....	13.35	13.35	13.19	13.19	12.82
29	12.90	.....	13.33	13.37	13.40	.....	12.76
30	13.03	.....	13.38	13.32	13.47	.....	12.81
31	.....	.....	.....	.....	13.36	.....	12.71

h Tape measurement.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.50	.....	.....	.....	12.24	.....	12.51	12.86	13.25	13.66	13.62	13.55
2	12.11	.....	.....	.....	12.39	.....	12.51	12.91	13.22	13.68	13.61	13.45
3	11.94	.....	.....	.....	12.57	.....	12.67	.....	13.28	13.72	13.61	13.37
4	11.92	.....	.....	.....	12.66	.....	12.78	12.60	13.28	13.66	13.63	13.60
5	.....	10.72	.....	.....	.....	.....	12.86	12.40	13.25	13.55	13.67	13.33
6	.....	11.05	.....	.....	.....	.....	12.72	12.58	13.32	13.59	13.66	13.63
7	.....	11.36	.....	.....	.....	.....	12.45	12.65	13.35	13.76	13.67	13.52
8	9.83	11.58	.....	.....	.....	.....	12.44	12.68	13.28	13.65	13.67	13.26
9	8.53	12.00	.....	.....	.....	.....	12.59	12.79	13.15	13.58	13.73	13.47
10	7.86	12.81	.....	.....	.....	.....	12.67	12.83	13.08	13.59	13.70	13.50
11	7.74	12.73	.....	.....	.....	.....	12.71	12.85	13.28	13.55	13.64	13.37
12	8.01	12.74	.....	.....	.....	.....	12.71	12.85	13.12	13.68	13.68	13.30
13	8.26	12.40	.....	.....	.....	.....	12.70	12.80	13.24	13.73	13.66	13.16
14	8.57	12.68	.....	.....	.....	.....	12.75	.....	13.27	13.68	13.54	13.38
15	9.05	12.65	.....	.....	.....	.....	12.84	.....	13.36	13.71	13.49	13.47
16	9.79	12.80	.....	.....	.....	.....	12.86	.....	13.38	13.65	13.53	13.37
17	10.13	13.02	.....	.....	.....	12.55	12.81	.....	13.41	13.70	13.55	13.24
18	9.62	12.91	.....	.....	.....	12.61	12.72	.....	13.38	13.71	13.55	13.14
19	9.14	12.67	.....	.....	.....	12.64	12.77	12.83	13.53	13.69	13.40	13.15
20	9.21	12.78	.....	.....	.....	12.60	12.78	12.85	.....	13.71	13.37	.....
21	9.63	12.82	.....	10.55	6.87	12.63	12.79	12.89	.....	13.64	13.49	.....
22	10.03	12.60	.....	10.63	7.38	12.73	12.70	12.89	13.74	13.57	13.28	13.14
23	10.28	12.40	.....	10.95	.....	12.71	12.56	12.91	13.70	13.46	13.29	13.29
24	.....	11.95	.....	11.17	.....	12.67	12.63	12.90	13.70	13.57	13.17	13.30
25	.....	11.80	.....	11.35	.....	12.70	12.71	13.02	13.59	13.61	13.27	13.09
26	.....	.....	.....	.....	.....	12.76	12.75	13.05	13.54	13.57	13.50	13.12
27	.....	.....	h13.52	11.77	.....	12.77	12.77	13.10	13.40	13.49	13.51	13.20
28	.....	.....	.....	11.91	.....	12.75	12.78	13.14	13.52	13.50	13.59	13.16
29	.....	.....	.....	12.03	.....	12.62	12.82	13.19	13.54	13.61	13.52	13.17
30	.....	.....	.....	12.04	.....	12.55	12.89	13.24	13.43	13.63	13.54	13.23
31	.....	.....	.....	.....	.....	.....	12.89	13.30	.....	13.61	.....	13.30

h Tape measurement.

Floyd County

8245-3740-1. B. M. Thompson. Prestonsburg. 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 31.16 below lsd, Mar. 25, 1952; lowest 40.18 below lsd, Dec. 31, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.73	37.64	36.98	36.42	36.97	35.68	36.79	37.72	38.55	39.21	39.75	40.05
2	38.68	37.66	36.89	36.54	36.98	35.81	36.84	37.70	38.59	39.22	39.78	40.07
3	38.64	37.69	.....	36.55	37.01	35.88	36.90	37.73	38.60	39.25	39.80	40.04
4	38.66	37.77	.....	36.68	37.03	35.96	36.93	37.74	38.62	39.26	39.80	40.05
5	38.63	37.79	.....	36.68	37.04	36.04	36.80	37.75	38.64	39.26	39.81	40.09
6	38.63	37.81	.....	36.66	37.02	36.13	36.78	37.79	38.66	39.28	39.90	40.06
7	38.49	37.85	.....	36.75	36.60	36.13	36.84	37.82	38.70	39.33	39.85	40.16
8	38.21	37.88	.....	36.76	35.95	36.09	36.87	37.84	.....	39.33	39.85	40.13
9	38.04	37.91	.....	36.66	35.92	36.17	36.89	37.87	38.73	39.35	39.86	40.08
10	38.07	37.91	36.34	36.65	36.07	36.24	36.91	37.91	38.74	39.36	39.90	40.11
11	38.07	37.88	36.41	36.72	36.15	36.33	36.96	37.96	38.75	39.37	39.89	40.14
12	38.09	37.86	36.45	36.60	36.25	36.09	37.01	37.98	38.77	39.40	39.91	40.11
13	38.11	37.86	36.52	36.66	36.35	36.21	37.05	38.01	38.80	39.41	39.91	40.08
14	38.13	37.69	36.52	36.66	36.39	36.27	37.09	38.02	38.82	.....	39.92	40.04
15	38.14	37.65	36.53	36.44	36.46	36.24	37.15	38.06	38.83	.....	39.92	40.09

150 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8245-3740-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	38.17	37.59	36.60	36.45	36.52	36.30	37.20	38.09	38.86	39.47	39.93	40.07
17	38.14	37.54	36.55	36.48	36.55	36.35	37.24	.....	38.90	39.49	39.95	40.07
18	38.10	37.42	36.47	36.47	36.61	36.42	37.27	.....	38.92	39.51	39.96	40.06
19	38.04	37.43	36.45	36.55	36.27	36.47	37.30	38.15	38.94	39.51	39.97	40.06
20	38.03	37.44	36.35	36.53	34.14	36.51	.....	38.21	38.96	39.53	39.97	40.04
21	38.03	37.37	36.35	36.57	33.31	36.57	37.37	38.22	38.99	39.56	39.98	40.03
22	37.92	36.42	36.40	36.62	33.92	36.63	37.40	38.26	39.03	39.57	39.98	40.05
23	37.80	36.23	36.45	36.65	34.54	36.65	37.43	38.27	39.06	39.57	40.02	40.09
24	37.77	36.56	36.45	36.76	34.76	36.69	37.47	38.31	39.06	39.60	39.98	40.12
25	37.79	36.65	36.19	36.75	34.89	36.72	37.50	38.36	39.07	39.62	40.02	40.13
26	37.79	36.73	36.10	36.77	35.01	36.77	37.52	38.39	39.09	39.64	40.03	.....
27	37.78	36.82	36.13	36.86	35.23	36.81	37.55	38.41	39.10	39.65	40.02	.....
28	37.78	36.93	36.18	36.88	35.32	36.84	37.58	38.43	39.13	39.68	40.08	.....
29	37.68		36.30	36.90	35.39	36.88	37.62	38.46	39.16	39.70	40.06	.....
30	37.56		36.36	36.91	35.46	36.86	37.66	.....	39.18	39.73	40.04	40.13
31	37.59		36.40		35.56		37.69	38.54		39.74		40.17

8245-3740-11. Julia Blackburn. Prestonsburg. Lat. 37°40', long. 82°46'. Dug unused water-table well in alluvium of Quaternary age, diameter 18 inches, depth 19 feet, lined with tile. Highest water level 0.77 below lsd, May 20, 1953; lowest 17.47 below lsd, Dec. 19, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.97	8.43	9.35	9.21	9.64	10.01	8.82	11.50	13.68	14.50	15.73	e17.09
2	10.40	8.79	7.06	9.28	9.75	10.17	9.11	10.40	13.66	14.53	15.78	e17.12
3	9.25	8.94	6.36	9.39	9.98	10.26	9.45	10.42	13.62	14.56	15.84	e17.17
4	8.71	9.18	6.32	9.54	10.08	10.33	9.66	10.44	13.71	14.56	15.89	e17.20
5	8.70	9.28	7.16	9.64	10.09	10.42	9.83	10.43	12.10	14.52	15.95	e17.24
6	8.95	9.27	7.87	9.62	9.54	10.51	7.75	10.61	12.68	14.50	16.00	e17.27
7	e5.76	8.97	8.42	9.14	8.55	10.18	8.30	10.78	12.89	14.59	16.07	e17.29
8	5.55	9.10	8.69	9.10	8.28	10.12	8.65	10.91	13.08	14.64	16.09	17.32
9	6.54	9.39	8.98	9.15	8.28	10.24	9.06	11.09	13.17	14.66	16.16	17.34
10	6.92	9.51	9.13	9.14	8.59	10.36	9.34	11.30	13.24	14.68	16.22	17.35
11	7.32	9.34	9.26	9.22	8.82	10.10	9.59	11.45	13.28	14.72	16.27	17.38
12	7.71	8.23	9.35	9.00	9.06	10.14	9.76	11.58	13.32	14.77	e16.33	17.40
13	7.87	8.04	9.26	9.00	9.27	10.05	9.91	11.71	13.50	14.85	16.37	17.42
14	8.16	8.30	9.24	9.17	9.42	9.56	10.07	11.84	13.62	14.92	16.43	17.40
15	8.44	7.62	7.87	9.16	9.27	9.60	10.25	12.00	13.72	14.96	16.48	17.41
16	8.69	7.44	7.99	9.07	9.24	9.71	10.39	12.15	13.85	14.99	16.52	17.43
17	8.42	7.88	8.48	9.14	9.22	9.79	10.47	12.26	14.01	15.04	16.57	17.45
18	7.23	8.35	7.58	9.12	9.15	9.92	10.54	12.34	14.15	15.10	16.61	17.46
19	7.38	8.60	7.89	9.10	7.34	10.06	10.54	12.43	14.22	15.14	16.66	17.47
20	7.65	8.64	8.51	9.19	4.33	10.21	10.64	12.51	14.14	15.18	16.70	17.46
21	6.93	6.77	8.84	9.30	3.72	10.35	10.73	12.63	14.19	e15.22	16.74	17.43
22	7.24	7.26	9.07	9.38	7.32	10.51	10.80	12.76	14.32	e15.26	16.78	17.42
23	7.47	7.63	9.21	9.49	8.43	10.60	10.54	12.88	14.40	e15.31	16.81	17.42
24	7.32	8.08	.....	9.62	8.84	10.66	10.64	13.00	14.44	e15.34	16.84	17.44
25	7.53	8.45	.....	9.67	9.02	10.74	10.80	13.12	14.44	15.38	16.86	17.43
26	7.77	8.63	.....	9.73	9.18	10.83	10.83	13.20	14.41	15.44	16.89	17.42
27	7.89	8.87	.....	9.86	9.47	10.91	10.94	13.28	14.37	15.48	16.93	17.42
28	7.71	9.17	.....	9.87	9.67	10.36	11.08	13.37	14.40	15.52	16.98	17.41
29	7.74	.....	.....	9.83	9.74	10.14	11.22	13.44	14.44	15.56	17.01	17.39
30	7.98		e9.35	9.79	9.78	8.42	11.35	13.53	14.47	15.62	e17.06	17.39
31	8.15		9.43		9.90		11.42	13.64		15.67		17.39

e Estimated.

Franklin County

8455-3815-3. Alvin Rodgers. Lat. 38°16', long. 84°57'. Dug unused water-table well in shale and limestone of Eden formation, diameter 36 inches, depth 22 feet. Land-surface datum is about 880 feet above msl. Highest water level 14.15 below lsd, Apr. 26-27, 1953; lowest 19.75 below lsd, Nov. 20, 1953. Records available: 1953. Recording gage installed Apr. 9, 1953.

8455-3815-3--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h15.65	14.21	14.38	15.95	.....	18.50	19.20	19.70	.....
2	.....	14.25	14.46	16.00	.....	18.53	19.21	19.71	.....
3	.....	14.31	14.51	16.05	.....	18.57	19.23	.....	.....
4	.....	14.36	14.56	16.11	.....	18.60	.....	.....	.....
5	.....	14.37	14.61	16.15	.....	18.64	.....	.....	.....
6	.....	14.41	14.65	16.09	.....	18.67	.....	.....	.....
7	.....	14.44	14.69	16.14	.....	18.70	.....	.....	.....
8	.....	14.47	14.74	16.18	.....	18.74	.....	.....	.....
9	14.83	14.50	14.79	16.25	.....	18.77	.....	.....	.....
10	14.79	14.55	14.86	16.30	.....	18.80	.....	.....	.....
11	14.76	14.59	14.92	16.35	.....	18.84	.....	.....	.....
12	14.72	14.64	14.97	16.41	.....	18.87	.....	.....	.....
13	14.70	14.69	15.03	16.45	.....	18.91	.....	.....	.....
14	14.69	14.73	15.06	16.50	.....	18.94	.....	.....	.....
15	14.67	14.78	15.11	16.55	.....	18.98	.....	.....	.....
16	14.64	14.68	15.16	16.62	.....	19.01	.....	.....	.....
17	14.64	14.47	15.19	16.42	.....	19.04	.....	.....	.....
18	14.47	14.42	15.24	.....	.....	19.07	19.42	.....	.....
19	14.33	14.39	15.29	.....	17.96	.....	19.43	.....	.....
20	14.30	14.35	15.34	.....	18.00	.....	19.45	h19.75	.....
21	14.28	14.32	15.39	.....	18.05	.....	19.45	.....	.....
22	14.22	14.29	15.45	.....	18.10	19.03	19.50	.....	h17.54
23	14.19	14.27	15.50	.....	18.15	19.04	19.51	.....	.....
24	14.19	14.25	15.55	.....	18.20	19.07	19.52	.....	.....
25	14.16	14.24	15.60	.....	18.24	19.08	19.53	.....	.....
26	14.15	14.24	15.66	.....	18.28	19.10	19.54	.....	.....
27	14.15	14.25	15.71	.....	18.33	19.12	19.67	.....	.....
28	14.17	14.29	15.77	.....	18.37	19.14	19.67	.....	.....
29	14.19	14.32	15.83	.....	18.40	19.16	19.68	.....	.....
30	14.20	14.34	15.89	.....	18.43	19.18	19.69	.....	.....
31		14.36	.....	.....	18.47	.....	19.70	.....	.....

h Tape measurement.

Fulton County

8850-3630-1. Fulton Water Works. Norman and Water Sts., Fulton. Lat. 36°30', long. 88°52'. 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, 1950-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.30	6.00	5.75	5.02	5.05	5.44	6.84	7.55	7.59	7.74	7.80	7.62
2	6.02	5.94	5.32	5.14	5.20	5.62	6.76	7.44	7.65	7.56	7.83	7.45
3	6.08	6.00	5.18	5.19	5.52	5.39	6.80	7.47	7.50	7.93	7.88	7.40
4	6.11	6.14	5.23	5.33	5.57	5.53	6.84	7.34	7.47	7.96	7.55	7.42
5	5.97	6.17	5.43	5.38	5.33	5.67	6.82	7.14	7.51	7.74	7.70	7.50
6	6.25	6.21	5.47	4.95	5.32	5.78	6.78	7.14	7.45	7.62	7.76	7.18
7	6.17	6.23	5.50	5.17	5.16	5.66	6.98	7.17	7.43	7.73	7.64	7.42
8	5.99	6.12	5.54	5.30	5.07	5.46	6.85	7.17	7.38	7.77	7.70	7.42
9	5.93	6.15	5.55	5.27	5.22	5.96	7.04	7.33	7.37	7.67	7.62	7.32
10	5.82	6.24	5.50	5.36	5.35	6.17	7.10	7.20	7.30	7.32	7.72	7.21
11	5.99	5.91	5.44	5.43	5.08	6.26	7.00	7.46	7.53	7.45	7.58	7.36
12	6.05	5.73	5.35	5.29	4.92	6.40	7.05	7.32	7.44	7.55	7.72	7.31
13	6.04	5.75	5.47	5.37	5.02	6.32	6.93	7.37	7.58	7.88	7.72	7.28
14	6.05	5.70	5.14	5.50	5.07	6.18	6.82	7.47	7.27	7.73	7.69	7.06
15	6.08	5.57	5.00	5.35	4.93	5.93	6.83	7.48	7.28	7.79	7.75	7.47
16	6.11	5.53	5.13	5.37	4.79	5.95	6.90	7.50	7.35	7.85	7.50	7.67
17	5.94	5.96	5.13	5.23	4.58	6.10	6.92	7.58	7.35	7.73	7.60	7.96
18	5.81	5.98	4.78	5.07	4.44	6.12	6.98	7.48	7.58	7.88	7.60	7.93
19	5.58	5.95	4.95	5.34	4.45	6.17	6.99	7.40	7.13	7.75	7.64	7.63
20	5.65	5.67	4.95	5.26	4.58	6.22	6.94	7.43	7.29	8.01	7.43	7.45
21	5.75	5.73	4.84	5.25	4.80	6.34	6.90	7.42	7.43	7.88	7.55	7.15
22	5.82	6.11	4.90	5.18	4.67	6.31	6.83	7.36	7.75	7.79	7.38	7.18
23	5.50	5.87	4.70	5.11	4.40	6.33	7.02	7.34	7.65	7.83	7.27	7.88
24	5.37	5.80	4.90	4.92	4.77	6.37	7.16	7.20	7.55	7.73	7.19	8.00
25	5.74	5.77	5.02	4.94	4.73	6.41	7.19	7.47	7.57	7.77	7.43	7.73

152 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8850-3630-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	5.69	5.66	5.15	5.05	4.99	6.65	7.34	7.48	7.45	7.77	7.65	7.65
27	5.74	5.65	5.08	5.17	5.15	6.58	7.19	7.52	7.37	7.63	7.45	7.84
28	6.01	5.73	5.13	5.18	5.42	6.65	7.32	7.46	7.37	7.80	7.45	7.63
29	5.97		5.17	5.18	5.40	6.73	7.13	7.39	7.45	7.77	7.53	7.75
30	6.03		5.13	4.98	5.43	6.70	7.39	7.42	7.65	7.84	7.47	7.75
31	6.03		5.07		5.46		7.53	7.36		7.78		7.63

Graves County

8830-3650-55. Artell Holshouser. Lat. 36°54', long. 88°30'. Dug unused water-table well in sand and gravel of Pliocene(?) age, diameter 24 inches, depth 36 feet. Land-surface datum is about 392 feet above msl. Highest water level 29.57 below lsd, Apr. 9, 1951; lowest 31.46 below lsd, Oct. 21, 1953. Records available: 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3, 1951	30.10	Dec. 11, 1951	30.04	Nov. 20, 1952	30.99	Dec. 11, 1952	30.77
30	30.16	Jan. 1, 1952	30.07	21	31.01	12	30.78
Feb. 12	29.90	30	30.07	22	30.99	13	30.78
26	29.71	Feb. 26	29.73	23	31.03	14	30.80
Mar. 12	29.84	Mar. 25	29.59	24	31.04	15	30.81
26	29.74	Apr. 21	29.85	25	30.99	16	30.82
Apr. 9	29.57	May 16	30.01	26	30.98	17	30.81
23	29.74	June 12	30.17	27	31.06	18	30.83
May 14	30.20	July 11	30.70	28	31.08	19	30.82
June 4	30.44	Aug. 12	30.95	29	31.05	20	30.82
26	30.22	Sept. 9	30.99	30	31.05	21	30.84
July 10	30.13	Oct. 7	31.03	Dec. 1	31.04	22	30.80
24	30.36	Nov. 5	30.95	2	30.99	23	30.85
Aug. 7	30.56	12	31.06	3	30.98	24	30.89
21	30.77	13	31.06	4	30.91	25	30.91
Sept. 4	30.82	14	31.02	5	30.87	26	30.91
18	30.83	15	31.05	6	30.84	27	30.91
Oct. 2	30.80	16	31.08	7	30.83	28	30.93
16	30.94	17	31.07	8	30.81	29	30.90
30	30.89	18	31.05	9	30.80	30	30.88
Nov. 13	30.70	19	31.02	10	30.79	31	30.87

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.94	30.44	30.46	30.12	30.14	30.31	30.82	31.10	31.26	31.42	31.43	31.35
2	30.78	30.41	30.45	30.16	30.27	30.34	30.81	31.11	31.25	31.43	31.43	31.33
3	30.82	30.42	30.15	30.16	30.31	30.36	30.87	31.12	31.25	31.44	31.42	31.28
4	30.82	30.46	30.22	30.20	30.28	30.38	30.83	31.13	31.28	31.44	31.42	31.29
5	30.83	30.40	30.21	30.19	30.28	30.41	30.83	31.14	31.29	31.42	31.44	31.30
6	30.80	30.44	30.21	30.13	30.23	30.44	30.85	31.15	31.29	31.43	31.44	31.26
7	30.80	30.47	30.19	30.19	30.23	30.42	30.86	31.15	31.30	.....	31.43	31.29
8	30.74	30.51	30.22	30.17	30.26	30.43	30.88	31.16	31.32	.....	31.43	31.25
9	30.68	30.58	30.22	30.17	30.28	30.48	30.89	31.17	31.32	.....	31.44	31.22
10	30.65	30.55	30.20	30.26	30.29	30.50	30.91	31.17	31.32	.....	31.44	31.26
11	30.72	30.43	30.22	30.26	30.31	30.52	30.92	31.16	31.29	.....	31.41	31.27
12	30.68	30.40	30.22	30.25	30.32	30.52	30.92	31.15	31.32	.....	31.44	31.26
13	30.67	30.40	30.26	30.31	30.37	30.53	30.92	31.15	31.34	.....	31.44	31.22
14	30.66	30.39	30.16	30.30	30.29	30.51	30.91	31.16	31.29	31.44	31.43	31.21
15	30.67	30.39	30.17	30.22	30.22	30.50	30.93	31.16	31.34	31.44	31.41	31.29
16	30.69	30.39	30.16	30.33	30.07	30.52	30.94	31.18	31.34	31.43	31.40	31.33
17	30.57	30.47	30.11	30.28	30.02	30.57	30.93	31.18	31.35	31.44	31.42	31.35
18	30.51	30.44	30.05	30.34	29.89	30.58	30.91	31.19	31.35	31.44	31.42	31.35
19	30.47	30.43	30.06	30.27	29.90	30.60	30.93	31.19	31.35	31.44	31.40	31.34
20	30.47	30.39	30.01	30.27	29.90	30.61	30.93	31.20	31.36	31.45	31.38	31.29
21	30.50	30.48	30.03	30.23	29.90	30.66	30.92	31.21	31.39	31.44	31.40	31.24
22	30.49	30.42	29.98	30.20	29.92	30.67	30.93	31.21	31.40	31.44	31.36	31.27
23	30.40	30.42	29.98	30.24	29.99	30.69	30.96	31.21	31.39	31.42	31.33	31.33
24	30.40	30.39	29.96	30.19	30.01	30.70	30.97	31.21	31.37	31.42	31.29	31.33
25	30.40	30.39	30.03	.....	30.04	30.73	30.98	31.23	31.37	31.43	31.30	31.28

8830-3650-55--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	30.40	30.39	30.04	.....	30.08	30.76	30.99	31.22	31.36	31.41	31.34	31.28
27	30.39	30.41	30.04	.....	30.16	30.76	30.99	31.23	31.36	31.40	31.35	31.27
28	30.40	30.48	30.04	.....	30.19	30.79	.....	31.23	31.38	31.41	31.40	31.26
29	30.40		30.08	30.23	30.17	30.81	.....	31.24	31.40	31.42	31.37	31.24
30	30.37		30.06	30.16	30.20	30.81	31.09	31.25	31.42	31.43	31.36	31.28
31	30.38		30.03		30.26		31.09	31.25		31.43		31.30

e Estimated.

8835-3650-17.. J. Whittemore. Lat. 36°52', long. 88°39'. Drilled unused artesian well in Holly Springs sand, diameter 10 inches, depth 106 feet, screen 83-105. Land-surface datum is about 403 feet above msl. Highest water level 14.06 below lsd, Mar. 23, 1951; lowest 18.75 below lsd, Dec. 17, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.87	17.10	16.52	15.47	15.68	15.51	16.81	17.34	17.86	18.34	18.45	.....
2	17.37	16.93	16.38	15.65	15.96	15.63	16.69	17.37	17.78	18.29	18.44	.....
3	17.67	16.89	15.90	15.60	16.08	15.61	16.77	17.43	17.72	18.33	18.46	.....
4	17.70	17.04	16.12	15.79	15.96	15.60	16.88	17.38	17.90	18.26	18.45	.....
5	17.74	16.78	16.14	15.70	16.02	15.67	16.91	17.40	17.97	18.11	18.50	.....
6	17.61	16.89	16.13	15.39	15.85	15.73	16.86	17.45	17.95	18.24	18.46	18.10
7	17.66	17.01	16.07	15.60	15.81	15.84	16.92	17.50	18.06	18.40	18.41	18.48
8	17.54	17.08	16.12	15.61	15.90	15.87	16.96	17.48	18.13	18.29	18.43	18.33
9	17.50	17.33	16.12	15.56	15.90	16.05	17.10	17.54	18.10	18.21	18.43	18.02
10	17.43	17.21	15.96	15.80	15.91	16.10	17.08	17.58	18.04	18.16	18.37	18.39
11	17.75	16.74	15.87	15.85	15.89	16.17	17.15	17.58	17.87	18.16	18.34	18.36
12	17.65	16.82	15.83	15.71	15.87	16.10	17.08	17.57	17.92	18.37	18.41	18.32
13	17.52	16.88	15.96	16.00	15.99	16.04	17.06	17.57	18.04	18.45	18.43	18.16
14	17.47	16.61	15.68	16.14	15.87	16.06	17.07	17.52	17.82	18.45	18.33	18.12
15	17.50	16.43	15.65	15.77	15.76	16.09	17.16	17.54	17.97	18.40	18.25	18.45
16	17.78	16.58	15.83	16.06	15.42	16.13	17.18	17.60	17.97	18.36	18.23	18.65
17	17.33	17.16	15.60	15.98	15.25	16.27	17.12	17.67	18.04	18.40	18.23	18.75
18	17.20	17.05	15.46	15.93	15.05	16.28	17.09	17.68	18.04	18.42	18.25	18.66
19	17.03	16.94	15.41	16.13	14.93	16.30	17.15	17.67	18.00	18.47	18.13	18.44
20	17.05	16.43	15.39	16.15	.....	16.31	17.14	17.71	17.99	18.45	18.04	18.21
21	17.25	17.07	15.23	16.03	.....	16.51	17.05	17.75	18.26	18.42	18.24	17.98
22	17.19	17.15	15.29	15.81	.....	16.54	17.08	17.73	18.43	18.38	18.13	18.38
23	16.74	17.05	15.30	15.85	14.92	16.57	17.24	17.71	18.30	18.31	18.08	18.67
24	16.93	16.68	15.24	15.67	14.92	16.51	17.30	17.74	18.22	18.31	17.95	18.53
25	17.15	16.49	15.43	15.67	14.99	16.59	17.35	17.82	18.10	18.31	18.10	18.26
26	16.88	16.44	15.50	15.97	15.09	16.79	17.38	17.80	18.01	18.27	18.29	18.29
27	16.75	16.43	15.43	15.97	15.34	16.73	17.35	17.77	17.97	18.24	18.47	18.15
28	17.05	16.65	15.40	15.74	15.41	16.83	17.27	17.71	18.09	18.28	18.60	18.09
29	17.04		15.54	15.58	15.27	16.95	17.31	17.76	18.14	18.44	18.36	18.13
30	16.87		15.38	15.58	15.23	16.91	17.40	17.81	18.28	18.44	18.37	18.40
31	16.89		15.33		15.33		17.38	17.85		18.43		18.43

Harlan County

8315-3650-2. J. D. White. Lat. 36°51', long. 83°19'. Drilled unused water-table well, diameter 6 inches, depth 101 feet, cased to 22. Highest water level 23.58 below lsd, May 23, 1953; lowest 32.29 below lsd, Oct. 17, 1951. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.25	29.06	26.70	26.63	27.03	.....	.....	29.07	29.44	30.21	30.82	31.21
2	30.77	29.02	27.12	26.88	27.04	.....	.....	29.09	29.37	30.23	30.86	31.16
3	30.80	28.73	27.06	26.90	27.29	.....	26.87	29.16	29.39	30.25	30.80	31.08
4	31.00	28.80	26.60	27.03	27.29	.....	26.99	29.14	29.42	30.15	30.81	31.10
5	30.94	28.83	26.81	27.08	27.12	.....	27.03	29.09	29.58	29.97	30.89	31.23
6	30.99	28.56	26.80	26.78	26.91	.....	26.92	29.15	29.58	30.10	30.90	.....
7	31.03	28.63	26.61	26.76	26.40	25.11	26.95	.....	29.65	30.37	30.87	31.42
8	30.68	28.63	26.56	26.97	26.03	25.27	26.96	29.18	29.75	30.30	30.92	31.30
9	30.45	28.94	26.66	26.86	25.87	.....	27.09	29.17	29.75	30.20	30.92	30.99
10	30.49	28.87	26.54	26.70	25.62	.....	27.20	29.29	29.72	30.17	.....	31.40

154 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8315-3650-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	30.62	28.37	26.53	26.92	25.38	.....	27.28	29.30	29.61	30.18	30.90	31.37
12	30.88	28.06	26.47	26.60	25.29	.....	27.23	29.30	29.51	30.35	.....	31.21
13	30.69	28.18	26.49	26.89	25.25	.....	27.22	29.25	29.74	30.49	.....	31.08
14	30.63	28.05	26.45	27.17	25.09	.....	27.24	29.27	29.71	30.48	30.98	31.05
15	30.64	27.65	26.31	26.94	25.14	.....	27.37	29.30	29.69	30.42	30.91	31.50
16	30.60	27.78	26.66	26.86	25.09	.....	27.46	29.36	29.77	30.38	30.90	31.45
17	30.36	27.96	26.59	27.01	24.90	.....	.....	29.36	29.86	30.49	30.94	31.54
18	30.25	28.09	26.25	26.71	24.93	.....	27.37	29.40	29.90	30.53	31.04	31.47
19	30.12	27.91	26.53	26.94	24.74	.....	27.41	29.39	29.85	30.55	31.00	31.38
20	30.01	27.58	26.65	27.07	24.49	.....	27.41	29.39	29.82	30.52	30.91	31.27
21	30.06	27.54	26.60	27.14	24.03	.....	28.13	29.42	29.95	30.57	31.09	31.23
22	30.02	27.77	26.57	27.08	23.70	.....	28.24	29.41	30.18	30.54	30.93	31.39
23	29.65	27.62	26.46	27.03	23.60	.....	28.54	29.36	30.14	30.46	30.99	31.56
24	29.42	27.16	26.51	27.08	23.65	.....	28.76	29.39	30.09	30.50	30.80	31.49
25	29.88	26.80	26.62	26.98	23.70	.....	28.88	29.42	30.02	30.66	31.02	31.33
26	29.82	26.60	26.84	26.88	23.68	.....	28.94	29.41	29.93	30.68	31.28	31.39
27	29.57	26.53	26.72	27.14	.....	.....	28.94	29.34	29.85	30.56	31.15	31.49
28	29.45	26.75	26.59	27.21	.....	.....	28.96	29.33	30.06	30.51	31.36	31.37
29	29.43	.....	26.79	27.15	.....	.....	28.98	29.32	30.16	30.71	31.16	31.49
30	29.40	.....	26.90	26.99	.....	.....	29.07	29.40	30.22	30.86	31.16	31.54
31	29.20	.....	26.77	.....	.....	.....	29.07	29.42	.....	30.76	.....	31.65

Henderson County

8720-3745-34. Isidore Varble. Lat. 37°49', long. 87°22'. Driven unused water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 37 feet, perforations 35-37. Highest water level 14.39 below lsd, Mar. 31, 1952; lowest 22.02 below lsd, Dec. 30, 1953. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	21.08	Mar. 10	20.49	May 20	20.14	Sept. 30	21.57
28	21.23	18	20.35	June 24	20.59	Oct. 30	21.76
Feb. 11	21.01	Apr. 13	20.75	July 20	20.89	Dec. 2	21.81
Mar. 5	21.03	28	20.47	Aug. 21	21.26	30	22.02

8720-3750-41. R. V. Purgeason. Lat. 37°52', long. 87°24'. Driven unused water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 24 feet, perforations 22-24. Highest water level 9.95 below lsd, Mar. 31, 1952; lowest 18.72 below lsd, Dec. 31, 1953. Records available: 1949, 1951-53.

Jan. 15	17.35	Apr. 28	15.93	Aug. 28	17.56	Oct. 10	18.08
28	17.02	May 20	15.70	Sept. 3	17.61	20	18.18
Feb. 11	16.80	June 23	16.14	9	17.76	29	18.27
Mar. 5	16.68	July 20	16.72	16	17.80	Dec. 2	18.54
18	16.07	Aug. 18	17.38	23	17.93	31	18.72
Apr. 13	16.07	19	17.28	30	17.99		

8720-3750-152. Robert Willingham. Lat. 37°51', long. 87°21'. Driven unused artesian well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 33 feet, perforations 26-29. Highest water level 14.70 below lsd, Apr. 7, 1952; lowest 19.85 below lsd, Dec. 30, 1953. Records available: 1951-53.

Jan. 15	18.34	Mar. 18	18.32	June 24	18.43	Oct. 30	19.41
28	18.48	Apr. 13	18.56	July 20	18.63	Dec. 2	19.58
Feb. 11	18.35	28	18.37	Aug. 21	18.89	30	19.85
Mar. 5	18.65	May 20	18.40	Sept. 30	19.19		

8730-3745-221. R. R. Roberts. Lat. 37°46', long. 87°34'. Drilled unused artesian well in Anvil Rock sandstone member of Lisman formation, diameter 5 inches, depth 106 feet, cased to 20. Land-surface datum is 433 feet above msl. Highest water level 30.41 below lsd, May 4, 1951; lowest 35.53 below lsd, Dec. 23, 1953. Records available: 1949-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.09	34.14	33.73	33.02	32.64	32.69	32.77	33.22	33.70	34.33	34.59	.....
2	33.50	33.85	33.54	33.24	32.95	32.80	32.63	33.24	33.63	34.24	34.58	34.76
3	33.89	33.83	33.24	33.11	33.14	32.72	32.79	33.31	33.56	34.34	34.58	34.50
4	34.01	34.00	33.70	33.28	33.18	32.62	32.89	33.22	33.68	34.23	34.64	34.79
5	34.01	33.66	33.92	33.19	33.00	32.62	32.88	33.27	33.88	34.08	34.75	34.72

8730-3745-221--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	33.92	33.72	33.93	32.81	32.97	32.59	32.80	33.34	33.82	34.20	34.69	34.80
7	33.97	33.88	33.87	32.99	32.86	32.70	32.91	33.39	33.94	34.50	34.62	35.10
8	33.83	33.94	33.88	33.04	32.92	32.61	32.92	33.32	34.00	34.30	34.60	34.88
9	33.91	34.24	.....	32.87	33.04	32.77	33.10	33.43	33.97	34.16	34.66	34.54
10	33.85	34.05	.....	33.08	32.92	32.83	33.18	33.51	33.87	34.11	34.62	35.07
11	34.19	33.50	33.53	33.10	32.90	32.85	33.13	33.53	33.61	34.07	34.57	35.06
12	34.23	33.67	33.42	32.90	32.84	32.75	33.03	33.52	33.73	34.41	34.75	34.98
13	34.04	33.84	33.55	33.21	32.99	32.56	32.96	33.48	33.94	34.50	34.78	34.70
14	34.05	33.61	33.22	33.31	32.87	32.58	33.98	33.44	33.59	34.48	34.66	34.79
15	34.06	33.70	33.39	32.70	32.94	32.68	33.12	33.46	33.85	34.38	34.56	35.12
16	34.47	33.51	33.68	33.16	32.66	32.55	33.14	33.45	33.86	34.33	34.55	35.46
17	33.79	34.22	33.44	33.01	32.63	32.71	33.05	33.58	33.95	34.40	34.62	35.49
18	33.93	34.03	33.08	33.07	32.73	32.73	33.00	33.59	33.93	34.43	34.66	35.30
19	33.82	33.95	33.41	33.21	32.73	32.71	33.05	33.56	33.88	34.45	34.60	34.98
20	33.83	33.47	33.40	33.27	32.75	32.68	33.08	33.56	33.88	34.46	34.38	34.78
21	34.08	34.10	33.24	33.13	32.66	32.82	33.02	33.62	34.22	34.42	34.77	34.64
22	34.09	34.28	33.19	32.84	32.59	32.86	33.00	33.60	34.42	34.41	34.58	35.20
23	33.60	34.27	33.30	32.97	32.85	32.74	33.20	33.56	34.22	34.26	34.57	35.50
24	.....	33.78	33.26	32.84	32.76	32.73	33.29	33.57	34.10	34.34	34.42	35.24
25	.....	33.54	33.45	32.71	32.72	32.76	33.34	33.67	33.92	34.40	34.64	34.93
26	.....	33.49	33.52	32.92	32.73	32.95	33.36	33.69	33.86	34.32	34.91	35.03
27	.....	33.49	33.34	33.07	32.97	32.86	33.30	33.59	33.91	34.24	e34.90	34.95
28	h34.07	33.84	33.19	32.83	33.04	32.89	33.21	33.60	34.01	34.37	35.23	34.89
29	34.14		33.31	32.70	32.76	32.97	33.23	33.57	34.07	34.59	34.84	34.98
30	33.91		33.20	32.48	32.55	32.92	33.32	33.67	34.27	34.61	.....	35.27
31	33.86		32.93		32.53		33.30	33.73		34.57		35.34

e Estimated.

h Tape measurement.

8730-3750-143. Audie Wilson. Lat. 37°52', long. 87°34'. Drilled unused artesian well in sandstone and shale of Carbonade 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 41.95 below lsd, Dec. 31, 1953. Records available: 1949-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.50	39.37	38.72	38.14	37.82	37.68	38.16	39.32	40.13	40.71	e41.18	41.60
2	39.49	39.33	39.10	38.12	37.89	37.62	38.20	39.34	40.14	40.71	e41.20	41.59
3	39.55	39.32	39.01	38.07	37.89	37.61	38.25	39.39	40.16	40.73	e41.21	41.60
4	39.46	39.30	39.11	38.07	37.86	37.60	38.28	39.40	40.19	40.73	e41.23	41.64
5	39.46	39.26	39.06	38.04	37.87	37.56	38.31	39.42	40.19	40.75	e41.24	41.63
6	39.45	39.26	39.02	38.01	37.88	37.55	38.37	39.45	40.20	40.78	e41.26	41.65
7	39.57	39.26	38.93	38.00	37.88	37.54	38.40	39.49	40.24	40.79	e41.27	41.65
8	39.59	39.24	38.93	37.97	37.91	37.55	38.44	39.51	40.25	40.80	e41.29	41.66
9	39.60	39.22	38.89	37.96	37.93	37.55	38.48	39.53	40.27	40.82	e41.30	41.68
10	39.60	39.19	38.84	37.98	37.93	37.55	38.53	39.55	40.29	40.84	e41.31	41.70
11	39.63	39.17	38.82	37.94	37.95	37.58	38.54	39.58	40.30	40.86	e41.33	41.70
12	39.63	39.17	38.80	37.96	37.95	37.56	38.58	39.63	40.34	40.88	e41.34	41.70
13	39.62	39.15	38.80	37.97	37.98	37.56	38.61	39.64	40.36	40.97	e41.36	41.73
14	39.62	39.11	38.76	37.93	37.95	37.60	38.67	39.66	40.38	40.90	e41.37	41.74
15	39.61	39.13	38.78	37.89	37.98	37.61	38.71	39.68	40.39	40.92	e41.39	41.74
16	39.62	39.09	38.71	37.94	37.98	37.63	38.76	39.70	40.41	40.94	e41.40	41.76
17	39.59	39.11	38.67	37.92	38.01	37.68	38.76	39.76	40.44	40.96	41.40	e41.78
18	39.60	39.10	38.67	37.95	37.98	37.72	38.80	39.76	40.48	40.97	41.41	e41.79
19	39.58	39.09	38.62	37.94	37.98	37.75	38.84	39.78	40.47	40.98	41.42	e41.80
20	39.59	39.04	38.56	37.95	37.94	37.76	38.89	39.81	40.48	40.99	41.44	e41.82
21	39.67	39.11	38.53	37.91	37.91	37.83	38.90	39.83	40.51	41.01	41.45	e41.83
22	39.55	39.12	38.45	37.89	37.91	37.85	38.96	39.86	40.54	41.03	41.47	e41.84
23	39.50	39.13	38.44	37.90	37.88	37.88	39.00	39.89	40.55	41.06	41.47	e41.85
24	39.54	39.13	38.42	37.84	37.84	37.92	39.03	39.89	40.56	41.10	41.48	41.85
25	39.52	39.11	38.41	37.86	37.80	37.95	39.05	39.94	40.59	41.10	e41.51	41.85
26	39.57	39.10	38.36	37.87	37.80	38.00	39.09	39.96	40.59	41.12	e41.54	41.86
27	39.45	38.72	38.29	37.85	37.78	38.02	39.12	39.99	40.62	e41.13	41.56	41.88
28	39.46	38.72	38.28	37.83	37.75	38.08	39.14	40.02	40.70	e41.13	41.56	41.89
29	39.43		38.24	37.82	37.70	38.10	39.20	40.04	40.69	h41.14	e41.57	41.90
30	39.40		38.17	37.82	37.67	38.14	39.25	40.05	40.70	e41.16	41.58	41.93
31	39.36		38.15		37.47		39.28	40.08		e41.17		41.94

e Estimated.

h Tape measurement.

8730-3750-209. Russell E. Toone. Formerly James Barker. Lat. 37°52', long. 87°34'. Driven unused artesian and water-table well in alluvium of Pleistocene and Recent age, diameter 1½ inches, depth 55 feet, perforations 53-55. Highest water level 32.64 below lsd, Apr. 20, 1951; lowest 49.62 below lsd, Dec. 31, 1953. Records available: 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	47.15	Apr. 28	43.00	Aug. 5	45.73	Oct. 29	48.56
28	46.51	May 19	43.31	21	46.47	Nov. 13	48.88
Feb. 11	45.65	June 23	42.95	Sept. 9	47.23	Dec. 2	49.16
Mar. 4	45.01	July 6	43.84	30	47.88	16	49.40
18	44.42	20	44.78	Oct. 20	48.38	31	49.62
Apr. 10	43.20						

8735-3745-1. W. C. Caton. Lat. 37°48', long. 87°38'. Drilled unused artesian well in alluvium of Pleistocene and Recent age, diameter 4 inches, depth 54 feet, cased to 48. Land-surface datum is 385 feet above msl. Highest water level 10.80 below lsd, Feb. 24, 1950; lowest 25.66 below lsd, Dec. 30, 1953. Records available: 1949-53.

Jan. 15	20.65	Mar. 18	16.54	June 23	17.36	Oct. 29	25.15
30	19.06	Apr. 10	15.45	July 20	20.14	Dec. 2	25.62
Feb. 11	18.55	28	14.56	Aug. 21	21.46	30	25.66
Mar. 5	17.79	May 21	14.88	Sept. 30	23.64		

Hickman County

8855-3640-1. Kentucky Water Service Co. Depot and Short Sts., Clinton. Drilled unused artesian well in Holly Springs sand, 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: 1950-52. Measurement discontinued.

Hopkins County

8735-3720-11. R. K. Brooks. Lat. 37°24', long. 87°37'. Drilled unused artesian well in Lisman formation, diameter 6 inches, depth 50 feet. Land-surface datum is about 425 feet above msl. Highest water level 1.06 below lsd, May 18, 1953; lowest 16.48 below lsd, Dec. 26, 1952. Records available: 1952-53. Recording gage installed July 30, 1952.

Daily noon water level from recorder graph, 1952

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.85	9.55	9.75	9.83	9.88
2	8.88	9.48	9.76	9.83	9.85
3	8.91	9.52	9.78	9.83	9.86
4	8.95	9.55	9.78	9.85	9.79
5	9.01	9.57	9.77	9.83	9.76
6	9.06	9.59	9.76	9.84	9.77
7	9.09	9.60	9.78	9.86	9.77
8	9.10	9.61	9.78	9.87	9.77
9	9.12	9.63	9.77	9.85	9.70
10	9.15	9.64	9.76	9.85	9.42
11	9.18	9.65	9.77	9.87	8.89
12	9.20	9.66	9.77	9.87	8.51
13	9.25	9.67	9.77	9.87	8.27
14	9.25	9.67	9.78	9.87	8.14
15	9.28	9.68	9.78	9.89	8.19
16	9.29	9.68	9.80	9.89	8.07
17	9.34	9.66	9.80	9.89	8.01
18	9.37	9.66	9.82	9.89	8.66
19	9.39	9.67	9.82	9.76	10.51
20	9.41	9.69	9.85	9.76	12.66
21	9.43	9.71	9.87	9.79	13.74
22	9.44	9.72	9.86	9.79	14.85
23	9.48	9.73	9.86	9.82	15.51
24	9.50	9.74	9.85	9.83	15.33
25	9.52	9.75	9.85	9.81	15.35
26	9.54	9.76	9.83	9.78	16.47
27	9.55	9.75	9.87	9.82	16.00
28	h8.59	9.55	9.75	9.82	9.84	.....
29	h9.57	9.75	9.83	9.84	.....
30	h8.71	9.53	9.76	9.83	9.87	h14.14
31	8.80	9.55		9.83		13.66

h Tape measurement.

8735-3720-11--Continued.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.31	5.97	5.51	3.70	4.42	5.59	7.41	8.18	9.22	9.85	10.18	10.30
2	12.94	5.97	4.43	3.81	4.73	5.72	7.35	8.23	9.22	9.86	10.19	10.30
3	12.65	6.01	3.67	3.86	5.00	5.87	7.40	8.28	9.23	9.89	10.19	10.29
4	12.40	6.14	3.84	4.06	5.16	5.95	7.47	8.26	9.25	9.91	10.21	10.27
5	.....	6.13	4.20	4.26	4.94	6.06	7.49	8.31	9.32	9.90	10.23	10.24
6	.....	6.11	4.61	4.13	4.71	6.17	7.48	8.35	9.34	9.92	10.24	10.22
7	.....	6.02	4.86	3.76	4.58	6.27	7.54	8.38	9.39	9.96	10.25	10.27
8	.....	6.01	5.04	3.82	4.47	6.31	7.57	8.38	9.44	9.98	10.25	10.28
9	.....	6.16	5.21	3.70	4.51	6.48	7.67	8.42	9.47	9.97	10.27	10.27
10	.....	6.18	5.30	3.99	4.63	6.58	7.73	8.47	9.48	9.97	10.29	10.28
11	.....	6.01	5.41	4.27	4.80	6.67	7.75	8.52	9.47	9.96	10.28	.....
12	.....	5.88	5.47	4.34	4.94	6.71	7.74	8.56	9.48	9.98	10.30	.....
13	.....	5.83	5.31	4.54	5.12	6.70	7.73	8.57	9.54	10.02	10.30	.....
14	.....	5.75	5.01	4.75	5.18	6.72	7.75	8.59	9.53	10.03	10.31	.....
15	.....	5.77	3.84	4.76	4.95	6.80	7.83	8.63	9.55	10.05	10.30	.....
16	.....	5.77	4.44	4.98	4.00	6.83	7.88	8.67	9.58	10.05	10.30	.....
17	.....	6.10	4.70	5.11	1.95	6.93	7.80	8.72	9.61	10.05	10.30	.....
18	.....	6.16	3.75	5.13	2.07	6.98	7.77	8.77	9.63	10.06	10.30	.....
19	.....	6.20	4.11	4.65	1.75	7.02	7.82	8.80	9.65	10.09	10.30	.....
20	.....	6.07	4.59	4.50	2.35	7.05	7.85	8.83	9.66	10.10	10.29	.....
21	.....	5.67	4.83	4.51	2.92	7.15	7.85	8.87	9.72	10.11	10.30	.....
22	.....	5.33	4.90	4.56	3.33	7.22	7.84	8.91	9.78	10.12	10.24	.....
23	.....	5.21	.....	4.77	3.75	7.27	7.94	8.93	9.80	10.12	10.25	.....
24	.....	5.09	.....	4.91	3.94	7.28	8.00	8.95	9.80	10.12	10.23	.....
25	.....	5.06	.....	4.82	4.23	7.30	8.06	8.99	9.77	10.13	10.21	.....
26	.....	5.11	.....	4.83	4.50	7.39	8.09	9.03	9.76	10.14	10.22	.....
27	.....	5.19	.....	4.96	4.82	7.42	8.08	9.06	9.75	10.10	10.21	.....
28	.....	5.43	.....	4.99	5.06	7.45	8.08	9.08	9.78	10.10	10.25	.....
29	h5.77	.....	.....	5.08	5.17	7.41	8.12	9.09	9.79	10.12	10.29	.....
30	5.73	.....	h4.17	4.55	5.26	7.43	8.17	9.14	9.83	10.15	10.30	.....
31	5.82	.....	3.87	.....	5.39	.....	8.18	9.18	.....	10.16	.....	.....

h Tape measurement.

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 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	17.69	June 12	18.73	Sept. 10	19.04	Nov. 20	18.74
Mar. 18	18.24	July 28	19.05	Oct. 9	18.87	Dec. 17	19.13
Apr. 28	18.17						

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 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	8.47	June 12	8.56	Sept. 10	9.36	Nov. 20	9.20
Mar. 4	8.43	July 28	9.09	Oct. 9	9.26	Dec. 17	9.48
Apr. 28	8.25						

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 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: 1946-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.36	15.86	16.04	15.55	15.63	15.55	16.10	16.39	16.68	e16.6	16.58	16.48
2	16.25	15.84	15.97	15.59	15.70	15.63	16.12	16.39	16.60	e16.6	16.56	16.47
3	16.22	15.80	15.93	15.61	15.75	15.67	16.14	16.42	16.49	e16.6	16.55	16.45
4	16.24	15.82	15.76	15.67	15.81	15.74	16.20	16.43	16.59	e16.6	16.55	16.45
5	16.19	15.80	15.76	15.67	15.80	15.78	16.20	16.38	16.61	h16.53	16.57	16.50

158 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

41-16-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	16.23	15.86	15.61	15.67	15.88	15.79	16.16	16.38	16.61	16.53	16.58	16.46
7	16.29	15.85	15.50	15.73	15.88	15.70	16.12	16.42	16.61	16.56	16.58	16.51
8	16.27	15.85	15.38	15.75	15.88	15.66	16.11	16.40	16.64	16.56	16.59	16.48
9	16.28	15.88	15.33	15.72	15.86	15.66	16.11	16.35	16.65	16.56	16.63	16.46
10	16.23	15.93	15.30	15.71	15.84	15.72	16.13	16.38	16.65	16.56	16.63	16.48
11	16.18	15.95	15.30	15.70	15.80	15.81	16.13	16.38	16.64	16.53	16.63	16.53
12	16.12	15.97	15.38	15.58	15.74	15.88	16.17	16.35	16.62	16.52	16.64	16.53
13	16.10	16.09	15.53	15.64	15.71	15.81	16.20	16.44	16.66	16.52	16.64	16.52
14	16.09	16.07	15.56	15.69	15.68	15.84	16.22	16.49	16.59	16.53	16.62	16.51
15	16.08	16.05	15.54	15.64	15.68	15.91	16.24	16.49	16.60	16.53	16.57	16.62
16	16.09	16.12	15.64	15.66	15.68	15.93	16.25	16.48	16.62	16.54	16.53	16.63
17	e16.06	16.16	15.65	15.67	15.56	15.94	16.26	16.47	16.62	16.54	16.51	16.73
18	e16.03	16.15	15.63	15.64	15.44	15.93	16.31	16.47	16.64	16.56	16.51	16.73
19	h15.99	16.14	15.66	15.56	15.37	15.92	16.30	16.48	16.66	16.57	16.51	16.71
20	15.96	16.09	15.64	15.47	15.37	16.06	16.31	16.48	16.68	16.58	16.50	16.70
21	16.01	16.15	15.51	15.46	15.36	16.03	16.31	16.52	16.70	16.58	16.52	16.60
22	16.02	16.15	15.40	15.46	15.35	16.05	16.28	16.59	16.72	16.57	16.51	16.60
23	15.99	16.13	15.46	15.50	15.31	16.13	16.27	16.61	16.71	16.54	16.51	16.67
24	15.98	16.09	15.48	15.56	15.25	16.07	16.26	16.67	16.66	16.54	16.48	16.71
25	15.97	16.11	15.61	15.51	15.25	16.06	16.29	16.67	16.65	16.54	16.48	16.71
26	15.98	16.10	15.75	15.45	15.26	16.10	16.33	16.66	16.65	16.54	16.54	16.69
27	15.93	16.07	15.79	15.53	15.28	16.11	16.33	16.64	16.60	16.53	16.50	16.69
28	15.90	16.08	15.79	e15.58	15.34	16.13	16.35	16.56	16.58	16.56	16.54	16.68
29	15.84		15.79	15.63	15.34	16.15	16.37	16.56	e16.6	16.58	16.50	16.63
30	15.84		15.67	15.56	15.39	16.15	16.40	16.63	e16.6	16.60	16.49	16.63
31	15.84		15.57		15.52		16.39	16.68		16.60		16.64

e Estimated.

h Tape measurement.

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 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	15.10	June 12	15.54	Sept. 10	15.79	Nov. 20	15.58
Mar. 25	15.37	July 31	15.57	Oct. 9	15.64	Dec. 17	15.95
Apr. 28	15.17						

43-15-1. City of Louisville. Letterle Ave. and Lloyd St. 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: 1937-53.

Jan. 5	32.61	Apr. 6	32.07	June 29	32.76	Oct. 9	33.59
12	32.55	13	32.10	July 6	32.87	19	33.28
19	32.35	20	31.95	20	32.84	26	33.29
26	32.41	27	32.07	Aug. 10	33.22	Nov. 2	33.86
Feb. 2	32.40	May 4	32.13	17	33.52	9	34.47
9	32.42	11	32.22	24	33.59	16	34.35
16	32.45	18	31.62	31	33.67	23	34.15
24	32.51	25	31.90	Sept. 8	33.68	30	33.92
Mar. 2	32.50	June 1	32.13	14	33.63	Dec. 7	34.09
9	32.02	8	32.17	21	33.74	14	34.20
16	32.01	15	32.25	28	33.54	21	34.44
23	32.07	22	32.50	Oct. 5	33.46	28	34.26
30	32.10						

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 70.36 below lsd, Dec. 17, 1953. Records available: 1943-53.

Jan. 21	68.82	June 25	68.14	Sept. 10	69.25	Nov. 20	70.32
Mar. 4	68.42	July 31	68.47	Oct. 12	69.85	Dec. 17	70.36
Apr. 28	67.98						

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 39.48 below lsd, Nov. 20, 1953. Records available: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	37.90	June 12	37.52	Sept. 10	38.12	Nov. 20	39.48
Mar. 19	37.46	July 31	37.49	Oct. 9	38.67	Dec. 17	39.05
Apr. 30	36.86						

45-14-2. City of Louisville. South Fourth and York Sts. 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: 1937-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	67.38	66.43	65.71	65.25	65.21	67.31	70.09	71.96	72.76	72.92	71.94	70.16
2	67.31	66.39	65.67	65.27	65.29	67.41	70.18	72.02	72.79	72.95	71.87	70.12
3	67.29	66.36	65.63	65.26	65.40	67.51	70.26	72.07	72.84	72.98	71.80	70.10
4	67.27	66.34	65.62	65.24	65.47	67.60	70.36	72.13	72.90	73.01	71.75	70.05
5	67.23	66.30	65.62	65.23	65.52	67.69	70.42	72.19	72.95	73.02	71.69	70.00
6	67.19	66.27	65.61	65.20	65.59	67.79	70.47	72.27	72.98	73.05	71.62	69.95
7	67.16	66.26	65.59	65.16	65.65	67.89	70.54	72.34	72.98	73.06	71.55	69.92
8	67.11	66.24	65.57	65.16	65.68	67.98	70.62	72.40	72.99	73.02	71.48	69.80
9	67.08	66.22	65.56	65.13	65.71	68.06	70.71	72.44	72.98	72.93	71.42	69.73
10	67.04	66.20	65.53	65.13	65.75	68.18	70.79	72.48	72.98	72.85	71.34	69.70
11	67.02	66.15	65.50	65.16	65.78	68.28	70.85	72.49	72.98	72.78	72.26	69.66
12	67.01	66.11	65.48	65.12	65.88	68.39	70.90	72.51	72.98	72.71	71.20	69.61
13	66.96	66.10	65.46	65.12	65.94	68.49	70.93	72.53	73.01	72.66	71.13	69.56
14	66.93	66.06	65.45	65.12	66.01	68.60	70.99	72.54	72.99	72.61	71.06	69.51
15	66.90	66.03	65.43	65.08	66.03	68.70	71.04	72.57	72.99	72.55	70.99	69.49
16	66.88	66.00	65.49	65.07	66.02	68.78	71.10	72.61	72.96	72.51	70.93	69.45
17	66.84	66.01	65.47	65.06	66.01	68.87	71.13	72.64	72.95	72.48	70.88	69.41
18	66.82	65.98	65.41	65.03	66.05	68.95	71.19	72.64	72.94	72.44	70.82	69.34
19	66.79	65.95	65.43	65.03	66.10	69.04	71.23	72.64	72.93	72.40	70.77	69.28
20	66.74	65.91	65.43	65.02	66.19	69.13	71.25	72.64	72.94	72.39	70.72	69.22
21	66.72	65.93	65.41	65.00	66.25	69.22	71.29	72.63	72.94	72.38	70.68	69.19
22	66.70	65.93	65.40	64.96	66.32	69.31	71.34	72.62	72.95	72.37	70.63	69.15
23	66.66	65.89	65.40	64.95	66.43	69.39	71.42	72.61	72.94	72.37	70.58	69.14
24	66.61	65.83	65.39	64.99	66.53	69.48	71.50	72.58	72.91	72.36	70.53	69.09
25	66.61	65.79	65.39	65.03	66.62	69.58	71.57	72.58	72.89	72.34	70.48	69.04
26	66.59	65.75	65.39	65.10	66.70	69.67	71.63	72.60	72.87	72.30	70.44	68.98
27	66.54	65.72	65.36	65.16	66.83	69.78	71.67	72.63	72.86	72.25	70.38	68.94
28	66.52	65.72	65.34	65.15	66.93	69.88	71.70	72.65	72.84	72.22	70.33	68.89
29	66.50		65.33	65.12	67.01	69.95	71.76	72.68	72.83	72.17	70.26	68.87
30	66.48		65.32	65.14	67.10	70.01	71.83	72.71	72.86	72.10	70.21	68.83
31	66.45		65.28		67.20		71.89	72.74		72.01		68.80

e Estimated.

h Tape measurement.

45-15-4. City of Louisville. Fifth and Jefferson Sts. 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: 1937-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	75.57	May 25	72.75	Aug. 17	74.91	Oct. 19	77.00
26	75.12	June 1	72.86	24	75.20	26	77.13
Feb. 3	74.92	8	72.92	31	75.48	Nov. 16	77.25
16	74.62	15	73.05	Sept. 8	75.82	23	77.20
Mar. 4	74.19	22	73.17	14	76.06	30	77.13
16	73.90	29	73.32	21	76.29	Dec. 7	77.04
19	73.82	July 20	73.89	28	76.48	21	76.87
Apr. 30	72.93	Aug. 3	74.33	Oct. 12	76.87	28	76.78
May 18	72.80	10	74.62				

160 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

45-15-36. Kentucky Hotel. Fifth and Walnut Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 104 feet, screen 84-104. Land-surface datum is 460 feet above msl. Highest water level 70.09 below lsd, Apr. 7, 1952; lowest 84.80 below lsd, Aug. 29, 1949. Records available: 1948-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.78	71.87	70.87	70.55	71.70	75.17	79.04	81.50	82.39	82.37	78.97	76.19
2	72.65	71.55	70.80	70.59	72.05	75.49	79.18	81.44	82.46	82.31	78.77	76.11
3	72.64	71.54	70.76	70.54	72.04	75.66	79.35	81.38	82.57	82.36	78.73	76.06
4	72.58	71.50	70.84	70.57	71.85	75.79	79.35	81.58	82.89	82.34	78.78	76.05
5	72.50	71.46	70.85	70.48	72.31	75.93	79.16	81.69	82.74	82.21	78.57	76.04
6	72.48	71.45	70.81	70.39	72.39	76.08	79.18	81.76	82.60	82.04	78.39	75.97
7	72.44	71.45	70.79	70.42	72.36	76.13	79.44	81.79	82.37	81.77	78.21	75.88
8	72.37	71.44	70.75	70.46	72.25	78.17	79.57	81.83	82.26	81.34	78.03	75.89
9	72.33	71.41	70.68	70.43	72.26	76.43	79.69	81.68	82.39	80.99	77.84	75.82
10	72.31	71.42	70.66	70.66	72.43	76.59	79.76	81.66	82.42	80.76	77.73	75.81
11	72.29	71.36	70.64	70.63	72.69	76.77	79.78	81.80	82.50	80.72	77.62	75.74
12	72.24	71.38	70.68	70.57	72.98	76.90	79.67	81.84	82.82	80.44	77.55	75.70
13	72.22	71.32	70.77	70.49	73.28	77.06	79.68	81.87	82.50	80.36	77.44	75.61
14	72.19	71.26	70.76	70.50	72.97	77.09	79.89	81.94	82.32	80.34	77.35	75.47
15	72.19	71.25	70.77	70.39	72.75	77.11	80.07	82.00	82.34	80.67	77.37	75.39
16	72.22	71.15	70.72	70.41	72.69	77.31	80.20	81.87	82.34	80.71	77.33	75.31
17	72.11	71.23	70.69	70.36	73.02	77.47	80.27	81.82	82.34	80.69	77.42	75.23
18	72.05	71.11	70.68	70.38	73.06	77.61	80.39	82.00	82.36	80.63	77.39	75.14
19	71.98	71.08	70.72	70.33	73.29	77.74	80.33	82.02	82.44	80.53	77.43	75.05
20	71.97	71.04	70.72	70.25	73.47	77.88	80.28	82.04	82.35	80.68	77.45	74.96
21	71.95	71.20	70.69	70.24	73.66	77.92	80.54	82.06	82.28	80.69	77.50	74.85
22	71.93	71.12	70.66	70.21	73.85	77.96	80.66	82.07	82.27	80.78	77.30	74.84
23	71.86	71.01	70.82	70.32	74.10	78.15	80.81	81.96	82.04	80.83	77.11	74.80
24	71.84	70.96	70.70	70.78	74.21	78.28	80.92	81.90	81.85	80.74	77.01	74.73
25	71.83	70.92	70.66	71.05	74.29	78.42	81.00	82.10	82.04	80.39	76.90	74.64
26	71.75	70.91	70.61	71.18	74.59	78.56	80.83	82.15	82.01	80.03	76.77	74.58
27	71.71	70.92	70.57	70.93	74.85	78.67	80.77	82.25	81.92	80.03	76.61	74.52
28	71.70	70.94	70.58	70.83	74.93	78.66	81.08	82.31	81.97	79.79	76.52	74.43
29	71.69		70.54	70.95	75.07	78.68	81.20	82.37	82.11	79.56	78.39	74.41
30	71.65		70.46	71.32	75.14	78.89	81.32	82.24	82.19	79.32	76.26	74.39
31	71.61		70.46		75.07		81.40	82.17		79.13		74.35

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 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: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	46.83	June 3	47.57	Sept. 3	47.84	Nov. 12	48.21
Feb. 27	47.07	July 8	47.69	Oct. 7	47.99	Dec. 11	48.45
Apr. 14	47.32						

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 93-113. Land-surface datum is 456.09 feet above msl. Highest water level 70.38 below lsd, Apr. 10, 1952; lowest 75.70 below lsd, Nov. 8, 1950. Records available: 1945, 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	71.94	June 9	73.02	Sept. 8	74.22	Nov. 18	75.03
Mar. 17	72.02	July 17	73.02	Oct. 8	74.88	Dec. 16	74.92
Apr. 22	71.77						

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 71.08 below lsd, Feb. 3, 1945. Records available: 1935-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	58.83	June 3	60.07	Sept. 3	60.67	Nov. 12	61.87
Mar. 12	58.97	July 16	59.55	Oct. 7	61.39	Dec. 15	62.65
Apr. 23	59.41						

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: 1935-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	48.04	June 3	49.05	Sept. 3	49.53	Nov. 12	50.85
Mar. 6	48.16	July 8	48.78	Oct. 7	50.29	Dec. 15	51.43
Apr. 23	48.40						

47-12-3. City of Louisville. 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: 1935-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	41.63	June 3	42.35	Sept. 3	42.69	Nov. 12	43.70
Apr. 27	41.70	July 8	42.47	Oct. 7	43.20	Dec. 11	44.10
Apr. 14	41.99						

47-12-4. Joseph E. Seagram & Sons Co. Seventh 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 55.53 below lsd, Apr. 6, 1953; lowest 88.37 below lsd, Mar. 9, 1944. Records available: 1943-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.98	e55.74	55.89	55.96	56.00	58.10	58.40	56.33	61.74	63.28	61.56	64.59
2	57.83	57.07	57.18	55.79	55.86	59.32	57.59	56.20	61.49	63.31	61.56	65.00
3	59.21	57.72	58.39	55.68	55.77	57.36	57.23	57.23	61.75	62.82	63.83	65.30
4	57.35	56.68	e57.03	55.64	57.59	56.73	57.57	57.41	62.93	60.90	64.47	66.06
5	56.82	56.22	e56.45	55.58	58.26	56.46	58.43	58.00	61.89	61.48	65.13	62.98
6	56.53	56.02	e56.18	56.86	56.68	56.26	59.30	57.21	59.58	62.91	65.51	61.64
7	56.37	55.90	e56.03	57.82	56.22	56.14	59.75	56.99	59.29	63.17	62.56	63.49
8	56.22	55.83	e55.93	57.13	55.99	58.28	59.43	56.43	61.81	63.14	61.23	64.93
9	56.12	57.88	57.43	56.35	55.87	59.43	57.99	56.77	61.33	63.35	63.17	64.97
10	56.03	59.11	58.03	56.06	55.76	58.63	57.48	58.16	61.23	63.35	64.53	65.81
11	56.00	57.71	56.71	55.90	57.43	58.31	57.19	59.23	61.23	61.14	64.03	66.58
12	57.98	56.78	56.24	55.75	58.14	57.17	56.96	59.24	61.96	61.60	65.41	64.28
13	59.05	56.43	56.02	57.20	57.26	57.25	58.70	57.27	59.83	63.08	66.00	62.39
14	57.29	56.17	55.86	57.84	56.46	56.71	58.58	56.88	61.38	63.18	62.45	64.23
15	56.72	56.05	55.79	56.64	56.15	58.59	59.49	56.63	62.85	62.99	61.36	65.48
16	56.48	57.47	57.36	56.17	55.93	e58.9	57.71	56.48	62.43	63.06	63.33	66.16
17	56.24	58.68	58.15	55.94	55.81	59.65	57.22	58.32	62.27	63.39	64.93	66.67
18	56.13	57.28	56.87	55.81	57.60	60.14	56.93	59.04	62.33	61.28	62.87	67.13
19	57.54	56.63	56.36	55.71	58.90	60.48	58.02	57.81	62.79	61.97	65.40	63.58
20	59.44	56.28	56.12	56.64	57.74	60.73	59.25	57.12	60.31	63.32	66.38	62.36
21	57.68	56.16	55.95	57.79	56.76	59.99	60.09	56.78	61.44	63.68	63.15	64.43
22	56.91	56.06	55.83	56.70	56.38	60.96	59.78	56.56	62.63	63.78	61.70	63.10
23	56.51	57.50	56.84	56.15	56.18	61.38	59.58	56.39	62.65	63.78	60.98	61.88
24	56.33	58.38	57.68	55.89	56.01	59.25	57.98	58.42	62.73	64.03	64.12	63.78
25	56.23	56.82	57.03	55.74	57.79	58.28	57.47	59.59	62.85	61.68	65.41	e61.1
26	56.10	56.33	56.38	55.67	58.52	57.78	57.15	58.73	62.75	61.94	62.34	.....
27	56.00	56.09	56.09	57.05	57.97	57.38	56.92	59.10	60.99	63.63	61.28	.....
28	55.94	55.97	55.92	57.80	56.92	57.15	56.74	58.90	61.75	64.07	60.70	h60.18
29	55.90		55.82	57.11	56.49	59.13	57.78	61.18	63.26	64.06	60.28	59.97
30	55.83		57.18	56.27	56.25	59.83	56.78	58.23	63.25	64.26	62.79	e61.5
31	e55.79		56.37		56.09		56.51	59.48		63.39		e62.4

e Estimated.

h Tape measurement.

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 52.06 below lsd, Apr. 22, 1953; lowest 79.4 below lsd, Sept. 20, 1943. Records available: 1941-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	52.40	June 9	52.30	Sept. 9	54.68	Nov. 17	55.89
Mar. 6	52.47	July 29	52.70	Oct. 7	54.92	Dec. 15	56.48
Apr. 22	52.06						

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: 1944-53.

Jan. 29	65.84	Apr. 22	66.02	Sept. 8	67.80	Nov. 18	68.56
Mar. 17	65.85	June 23	66.91	Oct. 8	68.18	Dec. 16	68.75

50-10-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	25.08	25.31	25.54	25.71	25.90	.....	.....	h26.30	.....	.....	.....	.....
12	25.07	25.36	25.54	25.74	25.91	.....	.....	.....	.....	h26.74	.....	.....
13	25.08	25.37	25.57	25.78	25.93	.....	h26.08	.....	.....	.....	.....	.....
14	25.08	25.35	25.53	25.77	25.92	.....	.....	.....	h26.49	.....	.....	h27.28
15	25.09	25.39	25.60	25.71	25.93	h25.90	.....	.....	.....	.....	.....	.....
16	25.14	25.36	25.60	25.79	25.90	.....	.....	.....	.....	.....	h27.05	.....
17	25.02	25.42	25.59	25.77	25.89	.....	.....	h26.30	.....	.....	.....	.....
18	25.10	e25.40	25.59	25.83	25.92	.....	.....	.....	.....	.....	.....	.....
19	25.12	e25.42	25.63	25.79	25.92	.....	.....	.....	.....	h26.81	.....	.....
20	25.15	e25.44	25.61	25.80	25.92	.....	h26.13	.....	.....	.....	.....	.....
21	25.17	e25.47	25.61	25.80	25.91	.....	.....	.....	h26.58	.....	.....	h27.35
22	25.16	e25.46	25.63	25.77	25.93	h25.95	.....	.....	.....	.....	.....	.....
23	25.12	e25.46	25.64	25.82	25.95	.....	.....	.....	.....	.....	h27.10	.....
24	25.20	25.46	25.63	25.78	25.92	.....	.....	h26.34	.....	.....	.....	.....
25	25.22	25.46	25.65	25.81	25.92	.....	.....	.....	.....	.....	.....	.....
26	25.18	25.48	25.65	25.83	25.95	.....	.....	.....	.....	h26.86	.....	.....
27	25.20	25.49	25.64	25.84	25.96	.....	h26.17	.....	.....	.....	.....	.....
28	25.24	e25.51	25.65	25.82	25.96	.....	.....	.....	h26.63	.....	.....	h27.42
29	25.26	.....	25.67	25.82	25.93	h26.00	.....	.....	.....	.....	.....	.....
30	25.23	.....	25.63	25.82	25.92	.....	.....	.....	.....	.....	h27.16	.....
31	25.24	.....	25.63	.....	25.95	.....	.....	h26.39	.....	.....	.....	.....

e Estimated.

h Tape measurement.

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 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: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	60.72	June 2	60.83	Sept. 2	61.58	Nov. 13	61.70
Mar. 4	61.02	July 7	60.86	Oct. 7	61.82	Dec. 10	62.78
Apr. 17	60.60						

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. Highest water level 57.73 below lsd, May 3, 1948; lowest 85.31 below lsd, Aug. 31, 1953. Records available: 1945, 1947-53.

Jan. 5	81.54	Apr. 13	82.07	July 13	83.34	Oct. 13	83.21
19	81.86	20	81.94	20	83.76	19	82.88
26	82.06	27	81.85	27	84.04	26	82.54
Feb. 2	82.10	May 5	81.68	Aug. 10	84.52	Nov. 2	82.39
9	81.99	11	82.00	17	84.49	9	82.23
16	81.33	18	82.05	24	85.03	17	81.99
24	81.47	25	82.05	31	85.31	23	81.00
Mar. 2	82.21	June 1	82.10	Sept. 8	84.68	Dec. 1	81.15
9	82.25	8	82.17	14	84.26	8	81.44
17	82.29	15	82.41	21	83.98	15	81.46
25	82.16	22	82.80	28	83.68	21	81.48
30	82.08	29	83.02	Oct. 8	83.32	28	81.32
Apr. 7	82.12	July 6	83.34				

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 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: 1945-53.

Jan. 15	31.32	June 3	32.45	Sept. 1	32.88	Nov. 10	33.38
Mar. 3	31.54	July 8	32.60	Oct. 7	33.11	Dec. 10	33.62
Apr. 16	32.20						

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 103-105. Land-surface datum is 440.20 feet above msl. Highest water level 22.66 below lsd, Apr. 21, 1948; lowest 60.95 below lsd, Nov. 12, Dec. 11, 1953. Records available: 1945-53.

Jan. 28	51.45	June 2	51.76	Sept. 3	60.42	Nov. 12	60.95
Mar. 13	49.29	July 16	59.12	Oct. 8	60.84	Dec. 11	60.95
Apr. 22	50.25						

52-7-2. Rubber Reserve Co. Johnstown Road, west of Dixie Highway. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen 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: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	35.39	Apr. 16	36.34	July 7	36.64	Nov. 10	37.54
Mar. 3	35.58	June 2	36.52	Oct. 8	37.21	Dec. 10	37.85

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 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: 1944-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	32.63	June 3	30.32	Sept. 1	36.68	Nov. 13	37.70
Mar. 3	31.75	July 9	34.45	Oct. 6	37.25	Dec. 10	37.97
Apr. 17	30.43						

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 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: 1944-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	54.90	June 3	52.34	Sept. 2	58.03	Nov. 13	59.11
Mar. 3	53.43	July 9	55.79	4	58.06	Dec. 10	59.38
Apr. 17	52.20	Sept. 1	58.02	Oct. 6	58.62		

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 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: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	55.59	June 3	52.04	Sept. 2	57.12	Nov. 13	58.35
Mar. 3	53.90	July 9	54.82	4	57.18	Dec. 10	58.71
Apr. 17	52.45	Sept. 1	57.11	Oct. 6	57.81		

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 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: 1945-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	35.39	June 2	34.81	Sept. 1	35.98	Nov. 12	37.22
Mar. 3	35.53	July 9	34.95	4	36.03	Dec. 10	37.62
Apr. 17	35.04	Aug. 25	35.80	Oct. 6	36.67		

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 97-99. Land-surface datum is 434.30 feet above msl. Highest water level 21.49 below lsd, Apr. 24, 1948; lowest 50.57 below lsd, Dec. 31, 1953. Records available: 1945-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.00	38.54	38.95	36.30	39.96	37.93	45.74	47.12	47.76	47.81	48.12	48.46
2	47.00	38.40	39.22	36.42	40.45	38.24	45.82	47.06	47.79	47.94	48.09	48.46
3	47.07	38.51	39.56	36.62	40.80	38.82	45.95	47.11	47.73	47.96	48.14	48.54
4	47.03	38.71	38.82	37.09	41.16	39.47	45.82	47.04	47.72	47.98	48.10	48.58
5	46.96	38.97	37.81	37.45	41.58	39.92	45.75	47.11	47.78	47.97	48.15	48.65
6	46.74	39.35	36.72	37.82	41.85	39.86	45.77	47.09	47.81	47.98	48.17	48.68
7	46.79	39.86	35.87	38.06	41.92	39.53	45.44	47.11	47.79	47.98	48.20	48.81
8	46.76	40.43	35.52	38.03	41.68	39.52	45.82	47.10	47.77	47.96	48.22	48.88
9	45.64	41.32	35.50	38.01	41.35	39.92	45.80	47.14	47.76	47.99	48.26	48.91
10	44.32	41.97	35.75	38.16	40.30	40.65	45.93	47.15	47.72	47.99	48.28	49.06
11	42.82	42.47	36.18	38.15	39.20	41.17	45.97	47.14	47.72	47.99	48.30	49.14
12	41.35	42.58	36.74	38.10	38.27	41.68	46.13	47.08	47.74	48.01	48.33	49.20
13	40.62	42.49	37.67	38.27	37.75	42.01	46.25	47.13	47.77	48.02	48.35	49.30
14	40.38	42.52	38.86	38.31	37.46	42.96	46.33	47.21	47.76	48.06	48.37	49.40
15	40.41	42.30	39.34	37.98	37.63	43.54	46.43	47.37	47.76	48.08	48.38	49.46
16	40.66	41.76	39.12	38.01	37.86	43.77	46.53	47.40	47.84	48.06	48.38	49.50
17	40.65	41.50	38.60	37.84	37.9	44.07	46.52	47.48	47.82	48.04	48.37	49.60
18	40.52	41.07	38.25	37.85	37.28	44.18	46.55	47.54	47.81	48.03	48.38	49.65
19	40.34	40.88	38.07	37.58	36.72	43.89	46.52	47.65	47.84	48.04	48.37	49.65
20	40.44	40.67	37.67	37.20	36.56	44.03	46.58	47.66	47.84	48.03	48.34	49.79

52-12-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	40.65	40.82	37.40	37.12	36.42	44.25	46.70	47.70	47.88	48.04	48.36	49.95
22	40.65	40.82	37.23	37.08	36.22	44.59	46.70	47.77	47.91	48.03	48.27	50.01
23	40.55	40.89	37.34	37.24	35.69	44.88	46.77	47.80	47.90	48.00	48.43	49.97
24	40.75	40.46	37.57	37.32	34.82	45.00	46.63	47.83	47.92	48.01	48.30	50.11
25	40.57	39.72	38.05	37.52	34.52	45.18	46.72	47.81	47.84	48.06	48.37	50.05
26	40.17	39.12	38.72	37.78	34.83	45.37	46.85	47.75	47.89	48.06	48.46	50.16
27	39.92	38.82	38.59	38.10	35.39	45.48	46.77	47.79	47.94	48.07	48.44	50.24
28	39.51	38.85	37.94	38.42	35.89	45.58	46.86	47.75	47.88	48.09	48.44	50.34
29	38.89		37.32	39.01	36.26	45.68	46.91	47.79	47.84	48.10	48.37	50.30
30	38.58		36.73	39.41	36.75	45.72	46.98	47.82	47.83	48.10	48.46	50.42
31	38.55		36.34		37.43		47.16	47.80		48.10		50.52

e Estimated.

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 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: 1945-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.96	30.91	30.55	29.96	29.68	e29.71	30.05	e30.87	31.66	32.28	e32.74	33.09
2	30.76	30.80	30.42	30.10	29.77	h29.71	30.05	30.88	31.67	32.29	32.75	33.09
3	30.90	30.72	30.29	29.99	29.86	29.67	30.10	30.92	31.69	32.31	32.76	33.09
4	30.98	30.83	30.36	30.03	29.81	29.63	30.13	30.93	31.72	32.32	32.77	33.11
5	30.92	30.75	30.64	29.98	29.65	29.63	30.15	30.96	31.77	32.32	32.79	33.13
6	31.00	30.66	30.61	29.83	29.69	29.64	30.15	31.00	31.78	32.35	32.80	33.11
7	30.97	30.77	30.40	29.91	29.67	29.67	30.21	31.03	31.82	32.39	32.81	33.17
8	30.86	30.74	30.44	30.00	29.72	29.66	30.22	31.04	31.85	32.39	32.82	33.17
9	30.96	30.83	30.41	29.83	29.80	29.69	30.28	31.08	31.87	32.40	32.83	33.15
10	30.92	30.71	30.32	29.90	29.75	29.70	30.31	31.11	31.87	32.41	32.85	33.20
11	31.06	30.47	30.30	29.97	29.72	29.71	30.32	31.13	31.87	32.42	32.85	33.20
12	31.20	30.56	30.31	29.75	29.73	29.69	30.33	31.15	31.90	32.47	32.87	33.20
13	30.95	30.67	30.34	29.93	29.78	29.67	30.34	31.16	31.95	e32.49	32.88	33.20
14	30.99	30.60	30.23	30.01	29.77	29.70	30.38	31.18	31.95	e32.49	32.89	33.19
15	31.00	30.53	30.14	29.67	29.77	29.74	30.43	31.21	31.99	e32.51	32.89	33.24
16	31.12	30.50	30.43	29.84	29.64	29.73	e30.44	31.23	32.02	e32.52	32.90	33.26
17	30.78	30.76	30.24	29.79	29.57	29.77	e30.48	31.27	32.05	e32.53	32.92	33.27
18	30.83	30.62	29.92	29.73	29.66	29.80	e30.51	31.29	32.06	e32.55	32.93	33.27
19	30.83	30.57	30.24	29.89	29.65	29.80	e30.55	31.31	32.07	e32.57	32.93	33.27
20	30.87	30.45	30.32	29.85	29.72	29.81	e30.58	31.33	32.09	e32.58	32.94	33.27
21	31.01	30.67	30.18	29.81	29.66	29.84	e30.60	31.37	32.13	e32.59	32.97	33.27
22	31.06	30.72	30.16	29.64	29.65	29.88	e30.62	31.39	32.17	e32.61	32.96	33.29
23	30.76	30.59	30.13	29.71	e29.68	29.90	e30.64	31.41	32.17	e32.62	32.98	33.33
24	30.81	30.45	30.14	29.73	e29.68	29.91	e30.66	31.45	32.18	e32.65	32.98	33.33
25	31.12	30.42	30.21	29.61	e29.68	29.93	e30.69	31.48	32.18	e32.67	33.00	33.33
26	30.93	30.42	30.22	29.69	e29.71	29.98	e30.73	31.50	32.18	e32.67	33.04	33.33
27	30.82	30.46	30.08	29.81	e29.69	29.99	e30.75	31.52	32.19	e32.67	33.04	33.33
28	30.97	30.62	30.02	29.68	e29.63	30.01	e30.79	31.54	32.23	e32.68	33.08	33.34
29	30.95		30.11	29.63	e29.60	30.04	e30.83	31.57	32.24	e32.71	33.08	33.35
30	30.84		30.11	29.54	e29.53	30.05	e30.85	31.60	32.26	e32.72	33.08	33.38
31	30.81		29.97		e29.63		e30.86	31.63		e32.73		33.39

e Estimated.

h Tape measurement.

53-10-1. Louisville Gas & Electric Co. 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 54-56. Land-surface datum is 438.72 feet above msl. Highest water level 22.14 below lsd, Apr. 19, 1948; lowest 46.42 below lsd, Feb. 5, 1948. Records available: 1943-53. Maximum reflects local surface seepage.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	42.82	June 2	38.08	Sept. 2	44.49	Nov. 10	45.43
Feb. 26	40.37	July 7	42.38	Oct. 6	45.05	Dec. 10	45.70
Apr. 16	39.55						

Johnson County

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, reported cased to 82. Land-surface datum is about 619 feet above msl. Highest water level 28.09 below lsd, Mar. 25, 1952; lowest 47.80 below lsd, Nov. 3, 1952. Records available: 1949-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.47	.....	.....	42.18	43.95	43.29	44.78	46.33	47.04	47.24	47.17	46.98
2	.....	42.08	41.75	42.60	44.02	43.58	44.70	46.28	47.04	47.23	47.15	46.86
3	42.96	42.38	40.30	42.62	43.90	43.76	44.98	46.03	47.07	47.25	47.15	46.88
4	41.73	42.82	38.70	42.88	43.89	43.97	45.13	46.01	47.11	47.23	47.14	46.98
5	42.07	42.91	37.15	43.02	43.84	44.21	44.42	45.97	47.09	47.19	47.13	46.86
6	42.35	43.10	36.97	43.01	43.89	44.43	44.39	46.08	47.03	47.27	47.13	46.97
7	42.40	43.39	38.39	43.40	42.47	44.47	44.06	46.16	47.10	47.30	47.14	46.93
8	42.37	43.52	39.46	43.28	40.40	44.04	44.03	46.19	47.12	47.23	47.15	46.91
9	42.58	43.67	40.18	42.80	39.40	44.17	44.20	46.34	46.97	47.23	47.14	46.89
10	42.77	43.54	40.68	42.77	40.12	44.39	44.19	46.41	46.94	47.24	47.13	47.01
11	43.01	43.39	41.19	42.72	40.85	44.49	45.37	46.46	46.93	47.26	47.17	46.91
12	42.85	43.65	41.51	42.47	41.43	43.71	44.60	46.50	47.00	47.35	47.17	46.90
13	42.70	43.52	41.89	42.73	41.94	43.78	44.78	46.54	47.05	47.28	47.15	46.75
14	42.46	43.00	42.08	42.73	42.18	44.11	45.01	46.59	47.00	47.27	47.13	46.99
15	42.46	42.71	42.13	42.04	42.41	44.14	45.19	46.64	47.08	47.26	47.18	46.75
16	42.62	42.39	42.17	42.14	42.51	43.99	45.35	46.67	47.09	47.27	47.11	46.76
17	42.18	42.38	42.00	42.20	42.61	44.23	45.42	46.75	47.17	47.28	47.09	46.58
18	41.63	41.90	41.73	42.24	42.69	44.48	45.56	46.75	47.14	47.27	47.09	46.47
19	41.87	41.77	41.71	42.57	42.50	44.61	45.70	46.68	47.11	47.25	47.06	.....
20	41.99	41.78	41.25	42.38	36.29	44.70	45.75	46.68	47.17	47.25	47.06	.....
21	41.72	42.04	41.14	42.38	30.85	43.88	45.84	46.74	47.22	.....	47.12	46.51
22	41.78	39.75	41.48	42.48	32.05	43.88	45.89	46.72	47.23	.....	47.04	46.64
23	42.20	37.05	41.78	42.72	36.95	43.93	45.85	46.77	47.17	47.20	47.05	46.72
24	.....	38.35	41.80	42.94	39.15	43.78	46.15	46.81	47.14	47.30	46.98	46.67
25	.....	39.71	41.15	43.04	40.22	43.91	46.05	46.89	47.14	47.28	47.07	46.68
26	.....	40.44	40.30	43.22	40.90	45.07	46.00	46.88	47.17	47.20	47.08	46.79
27	.....	40.96	40.49	43.46	41.67	45.15	46.01	46.90	47.17	47.18	47.05	46.80
28	.....	41.59	40.91	43.49	42.08	45.23	46.19	46.94	47.23	47.20	47.01	46.77
29	.....	.....	.....	43.62	42.31	45.37	46.18	46.98	47.24	47.26	46.88	46.87
30	.....	.....	.....	43.75	42.63	45.25	46.27	47.02	47.25	47.24	46.98	46.91
31	.....	.....	41.95	.....	43.05	.....	46.35	47.04	.....	47.17	.....	46.90

h Tape measurement.

8245-3745-404. Kentucky Water Co. Lat. 37°46', long. 82°45'. Drilled unused artesian and water-table well in Breathitt formation, diameter 6 inches, depth 115 feet. Highest water level 25.26 below lsd, Mar. 24, 1952; lowest 28.75 below lsd, Nov. 29, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.65	26.41	26.64	26.42	27.14	26.63	27.19	28.10	28.34	28.60	28.68	28.62
2	27.36	26.48	26.68	26.59	27.17	26.64	27.14	28.05	28.35	28.54	28.63	28.61
3	27.24	26.44	26.29	26.61	27.27	26.66	27.23	28.00	28.33	28.55	28.59	28.55
4	27.24	26.62	26.00	26.72	27.29	26.71	27.31	27.90	28.36	28.49	28.61	28.45
5	27.10	.....	26.00	26.76	27.21	26.78	27.36	27.80	28.35	28.44	28.64	.....
6	27.16	.....	26.01	26.66	27.17	26.81	27.37	27.80	28.28	28.47	28.64	.....
7	27.00	.....	26.05	26.73	27.01	26.72	27.44	27.80	28.26	28.64	28.60	.....
8	26.50	.....	26.13	26.81	26.92	26.62	27.49	27.77	28.31	28.57	28.60	28.59
9	26.19	.....	26.22	26.70	26.88	26.66	27.56	27.80	28.31	28.52	28.60	28.41
10	26.07	.....	26.26	26.73	26.84	26.66	.....	27.88	28.27	28.50	28.62	28.55
11	26.10	.....	26.34	26.84	26.83	26.61	.....	27.92	28.20	28.47	28.57	28.55
12	26.30	.....	26.35	26.81	26.83	26.52	.....	27.93	28.19	28.56	28.65	28.45
13	26.26	.....	26.47	26.86	26.81	26.49	.....	27.92	28.31	28.64	28.67	28.41
14	26.33	.....	26.44	26.99	26.83	26.54	.....	27.93	28.26	28.64	28.66	28.22
15	26.40	.....	.....	26.87	26.84	26.54	.....	27.97	28.29	28.61	28.59	28.46
16	26.53	26.62	26.47	26.89	26.83	26.56	.....	27.99	28.32	28.58	28.58	28.47
17	26.41	.....	26.42	26.92	26.81	.....	.....	28.06	28.39	28.62	28.62	28.52
18	26.32	.....	26.33	26.85	26.60	.....	.....	28.10	28.40	28.64	28.64	28.50
19	26.17	.....	26.25	26.95	26.33	.....	.....	28.08	28.36	28.64	28.64	28.44
20	26.17	26.61	26.30	26.97	26.18	.....	.....	28.13	28.37	28.64	28.55	28.29

8245-3745-404--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	26.20	26.58	26.30	26.99	26.08	.....	27.86	28.18	28.45	28.62	28.56	28.20
22	26.22	26.53	26.34	26.97	26.07	.....	27.86	28.19	28.59	28.59	28.50	28.28
23	26.05	26.45	26.36	26.98	26.23	.....	27.93	28.18	28.55	28.53	28.51	28.46
24	26.00	26.30	26.36	27.00	26.23	.....	28.00	28.21	28.50	28.50	28.43	28.51
25	26.20	26.25	26.31	26.96	26.17	27.23	28.04	28.23	28.45	28.57	28.43	28.34
26	26.23	26.26	26.30	27.01	26.18	27.32	28.05	28.25	28.41	28.60	28.56	28.31
27	26.16	26.32	26.24	27.13	26.39	27.30	28.03	28.25	28.34	28.52	28.52	28.38
28	26.23	26.55	26.21	27.13	26.53	27.29	28.04	28.25	28.44	28.51	28.71	28.31
29	26.29		26.36	27.13	26.54	27.32	28.07	28.25	28.49	28.56	28.70	28.32
30	26.30		26.44	27.08	26.54	27.26	28.11	28.29	28.53	28.68	28.58	28.38
31	26.29		26.43		26.63		28.12	28.33		28.68		28.48

h Tape measurement.

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 45.45 below lsd, Oct. 21, 1952. Records available: 1949-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	45.05	Jan. 4	44.52	Jan. 7	44.65	Jan. 10	43.79
2	44.46	5	44.41	8	44.18	11	43.89
3	44.24	6	44.68	9	43.99	12	44.47

8250-3750-24. Pluney Blevins. Lat. 37°51', long. 82°51'. Drilled unused water-table well in sandstone of Lee formation, diameter 6 inches, depth 51 feet. Highest water level 26.6 below lsd, Mar. 22, 1952; lowest 30.44 below lsd, Dec. 23, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.73	.....	29.09	28.79	29.17	29.17	29.55	29.82	30.01	30.21	30.27	30.33
2	29.47	28.98	28.70	29.01	29.26	29.29	29.50	29.69	29.98	30.20	30.29	30.28
3	29.36	28.98	27.97	28.99	29.38	29.29	29.60	29.66	29.94	30.22	30.25	30.26
4	29.39	29.15	27.85	29.07	29.38	29.28	29.66	29.60	29.94	.....	30.27	30.30
5	29.35	29.12	28.22	29.08	29.28	29.32	29.67	29.66	30.00	.....	30.30	30.30
6	29.42	29.08	28.36	28.94	29.23	29.33	29.58	29.72	30.00	.....	30.29	30.25
7	29.27	29.20	28.52	28.99	29.02	29.32	29.57	29.73	30.03	.....	30.27	30.37
8	28.26	29.23	28.59	29.04	29.00	29.33	29.59	29.67	30.07	.....	30.26	30.30
9	.....	29.40	28.70	28.93	28.99	.....	29.58	29.74	30.06	.....	30.29	30.16
10	28.45	29.38	28.71	28.88	29.00	.....	29.65	29.78	30.02	.....	30.31	30.38
11	.....	29.13	28.76	28.90	28.96	.....	29.67	29.80	29.93	.....	30.27	30.33
12	.....	28.92	28.78	28.75	28.98	29.32	29.65	29.83	29.93	.....	30.35	30.28
13	.....	29.01	28.88	28.96	29.05	29.28	29.65	29.78	30.10	.....	30.34	30.14
14	28.89	28.98	28.88	29.08	29.04	.....	29.68	29.78	29.98	.....	30.32	30.33
15	28.94	28.80	28.70	28.88	29.06	.....	29.75	29.81	30.02	30.21	30.26	30.32
16	.....	28.86	28.75	28.97	29.01	.....	29.78	29.82	30.06	30.17	30.25	30.40
17	.....	29.05	28.72	28.99	28.90	.....	29.75	29.86	30.15	30.23	30.28	30.37
18	.....	29.08	28.44	28.87	28.87	.....	29.73	.....	30.09	30.21	30.31	30.35
19	.....	29.05	28.57	28.89	28.68	29.51	29.74	29.88	30.01	30.22	30.27	30.28
20	.....	28.92	28.68	28.89	28.62	29.51	29.75	29.88	30.03	30.23	30.22	.....
21	.....	28.68	28.70	28.94	28.65	29.54	29.75	29.91	30.14	30.23	30.30	30.20
22	.....	28.75	.....	28.89	28.68	.....	29.73	29.89	30.20	30.20	30.20	30.27
23	.....	28.76	28.77	28.95	28.89	.....	.....	29.89	30.15	30.14	30.24	30.40
24	.....	28.69	.....	29.00	28.88	29.47	.....	29.91	30.12	30.20	30.17	30.40
25	.....	28.70	.....	28.98	28.88	29.51	.....	29.96	30.07	30.24	30.26	30.30
26	.....	28.73	.....	29.02	28.89	29.58	.....	29.94	30.04	30.20	30.38	30.29
27	.....	28.86	.....	29.16	29.13	29.54	.....	29.95	30.02	30.14	30.32	30.37
28	.....	29.04	.....	29.14	29.21	29.57	.....	29.91	30.13	30.18	30.41	30.27
29	.....	.....	.....	29.12	29.11	29.58	.....	29.93	30.25	30.24	30.27	30.29
30	.....	.....	.....	29.07	29.06	29.57	.....	29.97	30.20	30.30	30.30	30.34
31	.....	.....	.....	.....	29.13	.....	29.85	30.02	.....	30.26	.....	30.39

Kenton County

8430-3900-17. C. J. Harris. Lat. 39°00', long. 84°33'. Dug unused 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 30.92 below lsd, Dec. 27-28, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.47	24.34	26.40	26.49	26.44	26.69	28.66	28.91	29.93	30.41	30.65	30.80
2	26.48	24.68	26.39	26.56	26.50	26.81	28.66	28.94	29.95	30.43	30.66	30.81
3	26.41	24.95	25.61	26.60	26.63	26.92	28.69	29.00	29.95	30.44	30.66	30.83
4	26.51	25.41	24.04	26.63	26.71	27.01	28.75	29.04	29.95	30.45	30.67	30.83
5	26.55	25.74	23.98	26.68	26.70	27.10	28.80	29.06	29.97	30.45	30.68	30.83
6	26.66	25.88	24.07	26.64	26.66	27.23	28.12	29.12	30.00	30.44	30.70	30.84
7	26.70	26.20	24.49	26.52	26.62	27.36	27.85	29.17	30.03	30.44	30.72	30.84
8	26.06	26.39	24.76	26.51	26.61	27.49	27.70	29.21	30.06	30.46	30.73	30.84
9	25.10	26.50	25.28	26.47	26.68	27.60	27.63	29.25	30.11	30.47	30.76	30.85
10	24.57	26.49	25.59	26.45	26.71	27.69	27.62	29.30	30.14	30.47	30.76	30.84
11	24.24	26.38	25.82	26.53	26.72	27.52	27.63	29.39	30.16	30.46	30.77	30.84
12	24.41	26.34	26.08	26.50	26.75	27.48	27.64	29.44	30.15	30.46	30.78	30.85
13	24.43	26.39	26.25	26.51	26.79	27.40	27.65	29.48	30.17	30.50	30.80	30.86
14	24.69	26.41	26.32	26.60	26.88	27.40	27.69	29.51	30.22	30.51	30.81	30.83
15	24.98	26.37	26.13	26.59	26.94	27.44	27.78	29.54	30.22	30.53	30.81	30.82
16	25.31	26.38	26.09	26.50	26.98	27.48	27.87	29.57	30.25	30.54	30.82	30.82
17	25.41	26.52	26.03	26.54	25.45	27.51	27.95	29.60	30.27	30.55	30.82	30.83
18	23.24	26.58	25.80	26.06	23.72	27.60	28.00	29.64	30.31	30.56	30.82	30.85
19	23.30	26.61	25.30	24.67	23.84	27.70	28.05	29.67	30.32	30.57	30.82	30.87
20	23.62	26.58	25.21	24.01	24.33	27.79	28.11	29.70	30.34	30.57	30.82	30.87
21	24.04	26.34	25.32	24.02	24.81	27.88	28.16	29.73	30.36	30.58	30.82	30.87
22	24.48	26.13	25.59	24.23	25.35	27.99	28.20	29.75	30.38	30.59	30.81	30.87
23	24.64	26.00	25.82	24.62	25.91	28.10	28.27	29.76	30.41	30.59	30.78	30.87
24	24.62	26.00	26.08	25.19	26.29	28.18	28.38	29.79	30.43	30.59	30.77	30.89
25	24.68	26.00	26.27	25.54	26.39	28.25	28.49	29.82	30.43	30.59	30.75	30.90
26	25.08	26.00	26.38	25.88	26.42	28.34	28.57	29.85	30.43	30.62	30.74	30.91
27	25.16	26.07	26.39	26.24	26.50	28.43	28.63	29.87	30.41	30.62	30.74	30.92
28	22.70	28.28	26.40	26.38	26.59	28.47	28.71	29.89	30.40	30.62	30.75	30.92
29	23.08		26.48	26.41	26.61	28.54	28.76	29.90	30.40	30.61	30.76	30.91
30	23.43		26.52	26.40	26.57	28.61	28.82	29.91	30.40	30.62	30.77	30.91
31	23.81		26.52		26.59		28.88	29.91		30.63		30.91

8430-3900-103. Summe & Ratterman. 224 East 20th St., Covington. Lat. 39°04', long. 84°30'. Drilled unused water-table well in alluvium, diameter 6 inches, depth 150 feet. Land-surface datum is about 515 feet above msl. Highest water level 46.31 below lsd, Aug. 7, 1951; lowest 49.05 below lsd, Dec. 23-24, 1953. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.25	48.16	48.35	48.14	48.20	48.32	48.33	48.52	48.55	48.69	48.76	48.85
2	48.02	48.10	48.18	48.27	48.26	48.36	48.22	48.51	48.50	48.63	48.79	48.79
3	48.03	48.08	48.10	48.23	48.38	48.30	48.34	48.55	48.44	48.65	48.71	48.70
4	48.14	48.18	48.13	48.27	48.34	48.20	48.35	48.46	48.42	48.61	48.76	48.62
5	48.10	48.15	48.29	48.30	48.23	48.20	48.32	48.45	48.52	48.52	48.62	48.89
6	48.20	48.09	48.32	48.17	48.24	48.19	48.25	48.50	48.52	48.52	48.62	48.89
7	48.19	48.19	48.35	48.22	48.18	48.18	48.30	48.51	48.56	48.71	48.75	48.93
8	48.15	48.21	48.28	48.28	48.21	48.14	48.27	48.46	48.61	48.67	48.70	48.85
9	48.15	48.42	48.34	48.18	48.29	48.20	48.37	48.48	48.61	48.59	48.79	48.65
10	48.15	48.41	48.27	48.19	48.28	48.23	48.41	48.53	48.55	48.56	48.80	48.84
11	48.15	48.12	....	48.27	48.25	48.22	48.40	48.59	48.41	48.50	48.72	48.89
12	48.26	48.15	....	48.12	48.25	48.15	48.36	48.57	48.40	48.68	48.85	48.80
13	48.16	48.27	....	48.25	48.29	48.11	48.33	48.54	48.53	48.76	48.85	48.74
14	48.17	48.23	....	48.37	48.24	48.16	48.36	48.51	48.47	48.74	48.82	48.62
15	48.16	48.15	....	48.15	48.25	48.15	48.43	48.52	48.50	48.70	48.75	48.86
16	48.38	48.14	48.29	48.22	48.18	48.10	48.45	48.54	48.51	48.72	48.75	48.94
17	48.07	48.42	48.20	48.24	48.09	48.13	48.41	48.55	48.58	48.76	48.79	48.97
18	48.04	48.37	48.15	48.18	48.17	48.19	48.35	48.56	48.56	48.76	48.82	48.97
19	48.03	48.38	48.22	48.24	48.17	48.20	48.38	48.55	48.51	48.77	48.84	48.92
20	48.05	48.21	48.21	48.25	48.23	48.19	48.40	48.56	48.49	48.76	48.71	48.92
21	48.10	48.37	48.25	48.28	48.20	48.22	48.38	48.58	48.58	48.77	48.79	48.72
22	48.15	48.46	48.25	48.18	48.18	48.28	48.33	48.57	48.72	48.74	48.66	48.78
23	48.00	48.43	48.25	48.25	48.35	48.32	48.41	48.53	48.69	48.63	48.65	49.04
24	47.91	48.28	48.20	48.27	48.30	48.30	48.50	48.54	48.60	48.65	48.51	49.00
25	48.14	48.21	48.29	48.17	48.27	48.31	48.51	48.59	48.52	48.74	48.57	48.83

8430-3900-103--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	48.19	48.13	48.34	48.20	48.27	48.36	48.50	48.59	48.49	48.71	48.72	48.82
27	48.06	48.14	48.26	48.24	48.43	48.41	48.48	48.57	48.41	48.60	48.66	48.76
28	48.10	48.33	48.23	48.27	48.47	48.38	48.48	48.54	48.53	48.62	48.90	48.76
29	48.13		48.32	48.23	48.35	48.48	48.48	48.52	48.55	48.73	.....	48.78
30	48.08		48.33	48.13	48.25	48.39	48.53	48.53	48.61	48.82h	48.80	48.85
31	48.04		48.20		48.23		48.54	48.54		48.77		48.93

h Tape measurement.

8430-3905-15. City Ice and Fuel Co. Second and Scott Sts., Covington. Lat. 39°05', long. 84°30'. 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 24.62 below lsd, Feb. 4, 1952; lowest 55.82 below lsd, Sept. 8-10, 1953. Records available: 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.84	.....	.....	37.78	41.77	44.15	51.57	54.51	55.60	53.74	51.38	50.35
2	48.79	h39.68	h41.13	38.26	42.62	44.50	51.73	54.55	55.62	53.92	51.29	50.28
3	48.87	.....	.....	38.73	43.29	44.95	51.91	54.62	55.68	54.10	51.26	50.23
4	48.83	.....	.....	39.18	43.89	45.30	52.07	54.64	55.71	54.21	51.21	50.12
5	48.75	.....	.....	39.44	44.93	45.37	52.11	54.69	55.78	54.28	51.17	50.22
6	48.70	.....	.....	39.54	45.64	45.23	52.24	54.78	55.80	54.35	51.12	50.09
7	48.66	.....	.....	39.72	45.78	45.23	52.38	54.83	55.80	54.41	51.05	50.17
8	48.68	.....	.....	39.76	45.96	45.48	52.43	54.86	55.82	54.22	50.97	50.16
9	48.18	h43.01	.....	39.82	45.81	45.85	52.54	54.90	55.82	54.02	50.95	50.07
10	47.00	.....	38.30	39.90	44.81	46.41	52.63	54.89	55.82	53.86	50.85	50.07
11	45.10	.....	38.94	40.03	43.72	46.81	52.70	54.92	55.77	53.41	50.83	50.10
12	43.71	.....	39.88	39.92	43.06	47.06	52.83	54.95	55.50	53.28	50.84	50.06
13	.....	.....	40.79	40.01	42.89	47.52	52.93	55.02	e55.20	53.15	50.83	50.00
14	.....	.....	41.42	40.13	43.10	48.13	53.05	55.06	54.69	52.95	50.77	49.89
15	.....	.....	41.43	39.79	43.60	48.50	53.15	55.11	54.33	52.78	50.72	50.00
16	.....	.....	41.11	39.70	43.89	48.84	53.24	55.15	54.10	52.67	50.69	50.00
17	.....	.....	40.81	39.83	44.52	49.15	53.35	55.16	53.95	52.57	50.67	50.01
18	.....	.....	40.27	39.94	44.48	49.40	53.40	55.19	53.77	52.47	50.63	49.94
19	h42.96	.....	40.01	39.72	44.37	49.50	53.45	55.23	e53.58	52.35	50.60	49.87
20	.....	.....	39.64	39.60	44.42	49.47	53.59	55.25	e53.39	52.27	50.52	49.81
21	.....	.....	39.43	39.64	44.30	49.49	53.70	55.29	53.20	52.22	50.50	49.74
22	.....	.....	39.34	39.59	43.76	49.88	53.76	55.35	53.19	52.14	50.50	49.76
23	.....	h46.20	39.49	39.56	42.73	50.12	53.82	55.38	53.02	52.07	50.43	49.91
24	.....	.....	39.92	39.73	41.95	50.35	53.90	55.42	52.89	51.99	50.39	49.90
25	.....	.....	40.58	39.81	41.93	50.57	53.97	55.44	52.72	51.96	50.40	49.77
26	41.91	.....	40.78	40.01	42.29	50.66	54.02	55.43	52.61	51.89	50.40	49.70
27	41.49	.....	39.83	40.31	42.79	50.95	54.07	55.43	52.49	51.75	50.39	49.75
28	40.98	.....	38.90	40.67	43.12	51.09	54.17	55.44	52.52	51.67	50.42	49.72
29	40.43	.....	38.14	41.02	43.34	51.27	54.28	55.47	53.05	51.60	50.37	49.73
30	40.29	.....	37.70	41.38	43.53	51.38	54.35	55.53	53.44	51.56	50.30	.....
31	.....	.....	37.62	.....	43.91	.....	54.46	55.57	.....	51.48	.....	.....

e Estimated.

h Tape measurement.

Laurel County

8400-3705-40. J. R. Hale. 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 47.92 below lsd, May 19, 1953; lowest 225± below lsd, Oct. 22, 1947. Records available: 1947, 1950-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.87	49.04	48.70	49.65	48.42	48.80	49.31	.....	51.92	53.06	53.33	53.55
2	50.55	49.01	48.50	50.01	48.47	48.89	49.23	51.21	51.91	53.05	53.26	53.37
3	50.48	48.88	48.42	49.32	48.74	48.91	49.24	51.18	51.88	53.12	53.23	53.16
4	50.62	48.97	48.28	49.16	48.80	48.92	49.49	51.19	52.43	53.01	53.19	53.02
5	50.92	48.99	48.48	49.08	48.63	48.93	49.59	50.89	52.79	53.10	53.25	53.10
6	51.10	48.83	48.66	48.77	48.59	49.07	49.67	50.65	52.87	53.06	53.25	52.89
7	51.08	48.87	48.72	48.99	48.48	49.01	49.61	50.55	52.89	53.49	53.15	53.21
8	50.67	48.94	48.68	48.77	48.42	48.99	49.70	50.36	52.87	53.31	53.17	53.11
9	50.18	49.17	48.73	48.72	48.48	49.01	49.93	50.35	53.36	53.24	53.12	52.83
10	49.87	49.16	48.76	48.60	48.43	49.11	49.89	50.41	52.92	53.21	53.15	53.02

8400-3705-40--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	49.84	48.83	48.65	48.72	48.48	49.07	49.74	50.65	52.64	53.09	53.06	53.05
12	49.99	48.70	48.71	48.50	48.58	49.02	49.58	50.73	52.57	53.38	53.12	52.89
13	49.95	48.80	48.62	48.61	48.62	48.91	49.56	50.78	52.72	53.51	53.16	52.75
14	49.90	48.75	48.53	48.79	48.44	48.88	49.57	50.83	52.70	53.49	53.13	52.58
15	49.85	48.63	48.39	48.65	48.43	48.88	49.63	50.83	52.61	53.54	53.08	52.85
16	49.83	48.64	48.57	48.56	48.34	48.83	49.64	50.84	.....	53.53	52.99	52.96
17	49.65	48.90	48.58	48.64	48.20	48.75	49.63	50.83	52.81	53.54	53.03	53.07
18	49.54	48.97	48.27	48.42	48.12	48.79	49.70	50.76	52.78	53.57	53.03	53.07
19	49.43	48.97	48.40	48.56	48.00	48.79	49.94	50.86	52.77	53.68	53.00	52.96
20	49.31	48.71	48.62	48.55	48.06	48.78	50.11	50.96	52.63	53.62	52.87	52.83
21	49.30	48.76	48.52	48.56	48.14	48.88	51.04	51.16	52.91	53.61	52.94	52.62
22	49.33	48.88	48.51	48.49	48.07	48.98	51.00	51.21	53.13	53.63	52.88	52.70
23	49.15	48.89	48.46	48.51	48.27	49.09	50.70	51.11	53.08	53.46	52.78	52.99
24	48.92	48.70	48.39	48.54	48.39	49.10	50.68	51.07	53.03	53.44	52.57	53.05
25	49.16	48.53	48.48	48.50	48.38	49.18	50.72	51.05	52.92	53.53	52.64	52.85
26	49.18	48.41	48.88	48.43	48.52	49.20	50.88	51.03	52.80	53.63	53.03	52.77
27	49.09	48.39	49.16	48.63	48.65	49.29	50.96	51.03	52.68	53.57	53.48	52.90
28	49.04	48.76	49.27	48.55	48.73	49.41	51.08	51.36	52.92	53.51	53.77	52.70
29	49.09		49.51	48.53	48.73	49.37	51.37	51.18	52.99	53.54	53.82	52.67
30	49.08		49.76	48.38	48.71	49.30	51.63	51.30	53.11	53.73	53.95	53.11
31	49.01		49.67		48.79		51.58	51.54		53.44		53.06

Lincoln County

8440-3725-3. W. Goebel Scott. Lat. 37°26', long. 84°42'. Dug unused water-table well in shales and sandstones of Mississippian age, diameter 36 inches, depth 15 feet. Land-surface datum is about 985 feet above msl. Highest water level 1.41 below lsd, May 18-20, 1953; lowest 10.78 below lsd, Dec. 31, 1953. Records available: 1953. Recording gage installed Apr. 22, 1953.

Daily noon water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.81	....	9.22	9.71	10.21	10.57
2	3.75	....	8.77	....	9.21	9.72	10.23	10.58
3	3.89	....	8.83	....	9.19	9.75	10.25	10.58
4	3.89	....	8.84	....	9.20	9.72	10.27	10.59
5	2.60	....	8.85	....	9.24	9.70	....	10.60
6	3.20	....	8.84	....	9.27	9.71	....	10.60
7	3.71	....	8.81	....	9.30	9.80	....	10.61
8	3.89	....	8.81	....	9.35	9.82	....	10.61
9	8.89	....	9.35	9.81	10.36	10.62
10	8.93	....	9.35	9.80	10.37	10.63
11	8.93	....	9.32	9.80	10.38	10.63
12	8.91	....	9.31	9.84	10.40	10.64
13	8.89	....	9.35	9.90	10.42	10.64
14	8.92	....	9.35	9.92	10.43	10.65
15	8.95	....	9.35	9.93	10.43	10.65
16	8.98	....	9.35	9.94	10.44	10.66
17	2.45	8.63	8.96	....	9.40	9.96	10.46	10.68
18	1.41	8.67	8.93	9.07	9.42	9.99	10.46	10.69
19	1.41	8.69	....	9.09	9.42	10.00	10.48	10.70
20	1.41	8.70	....	9.10	9.42	10.03	10.48	10.71
21	2.75	8.73	....	9.13	9.52	10.04	10.49	10.73
22	4.31	3.93	8.79	....	9.13	9.57	10.05	10.49	10.73
23	4.89	5.06	8.80	....	9.12	9.60	10.04	10.49	10.73
24	5.40	....	8.80	....	9.13	9.60	10.07	10.50	10.73
25	8.81	....	9.16	9.58	10.09	10.50	10.73
26	8.85	....	9.17	9.55	10.09	10.52	10.75
27	8.86	....	9.17	9.54	10.09	10.53	10.75
28	8.88	....	9.16	9.60	10.10	10.55	10.75
29	8.88	....	9.16	9.62	10.13	10.55	10.76
30	8.85	....	9.18	9.68	10.18	10.56	10.77
31	9.21		10.20		10.78

8440-3725-4. Omer Lewis. Lat. 37°27', long. 84°40'. Drilled unused water-table well in shales and sandstones of Mississippian age, diameter 6 inches, depth 33 feet. Land-surface datum is about 1,060 feet above msl. Highest water level 7.66 below lsd, Dec. 14, 1953; lowest 8.53 below lsd, June 10-11, 1953. Records available: 1953. Recording gage installed Apr. 1, 1953.

Daily noon water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.28	8.28	8.42	8.49	....	7.99	7.82	....	7.92
2	....	8.29	8.47	8.47	....	7.98	7.82	....	7.92
3	....	8.32	8.47	8.46	....	7.95	7.82	....	7.86
4	....	8.32	8.47	8.46	....	7.92	7.81	....	7.79
5	....	8.32	8.47	8.46	....	7.90	7.69	....	7.88
6	....	8.32	8.50	8.44	....	7.90	7.67	....	7.78
7	....	8.29	8.49	8.44	....	7.90	7.75	....	7.90
8	....	8.29	8.49	8.40	....	7.92	7.75	....	7.90
9	....	8.33	8.51	8.42	....	7.92	7.74	....	7.80
10	....	8.33	8.53	8.42	....	7.90	7.71	....	7.82
11	....	8.32	8.53	8.42	....	7.83	7.68	....	7.87
12	....	8.32	8.49	8.42	....	7.78	7.70	....	7.86
13	....	8.35	8.45	8.41	....	7.80	7.75	....	7.83
14	....	8.34	8.44	8.40	....	7.80	7.76	....	7.67
15	....	8.35	8.45	8.41	....	7.79	7.76	....	7.79
16	....	8.30	8.44	8.41	....	7.80	7.75	....	7.84
17	....	8.28	8.43	8.38	....	7.81	7.75	7.81	7.93
18	....	8.28	8.48	8.35	8.15	7.81	7.75	7.86	7.93
19	....	8.27	8.48	8.31	8.08	7.81	7.76	7.86	7.93
20	....	8.28	8.48	8.30	8.06	7.81	7.76	7.82	7.85
21	....	8.27	8.48	8.27	8.06	7.81	7.76	7.84	7.75
22	8.29	8.36	8.49	8.26	8.06	7.81	7.76	7.79	7.74
23	8.28	8.38	8.49	....	8.05	7.81	7.72	7.78	7.90
24	8.28	8.39	8.49	....	8.02	7.81	7.67	7.71	7.97
25	8.26	8.39	8.49	....	8.03	7.81	7.69	7.70	7.90
26	8.27	8.39	8.49	....	8.03	7.81	7.75	7.80	7.88
27	8.31	8.41	8.49	....	8.03	7.74	7.71	7.80	7.97
28	8.30	8.48	8.49	....	8.02	7.76	7.69	7.93	7.97
29	8.29	8.42	8.49	....	8.00	7.78	7.73	7.93	7.97
30	8.27	8.41	8.49	....	7.99	7.80	7.76	7.92	8.07
31	....	8.41	....	....	7.99	....	....	....	8.18

McCracken County

8830-3655-129. Jack Reid. Lat. 36°58', long. 88°32'. Dug unused water-table well in alluvial sand, diameter 24 inches, depth 36 feet. Land-surface datum is 337.97 feet above msl. Highest water level 11.80 below lsd, Mar. 25, 1952; lowest 29.48 below lsd, Nov. 10, 1953. Records available: 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	27.76	June 2	21.30	Aug. 25	27.80	Nov. 3	29.45
30	25.04	23	25.11	Sept. 1	28.07	10	29.48
Feb. 25	23.83	30	25.65	8	28.32	17	29.40
Mar. 26	21.29	July 7	25.78	15	28.50	24	29.16
Apr. 21	22.47	14	26.22	21	28.72	Dec. 1	29.35
28	22.66	21	26.45	29	28.81	8	29.09
May 5	22.16	28	26.77	Oct. 6	29.10	15	29.07
12	22.79	Aug. 4	27.13	23	29.25	22	29.15
19	19.27	11	27.29	27	29.37	29	29.21
26	19.35	18	27.63				

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 57.73 below lsd, Feb. 12, 1952; lowest 77.84 below lsd, Dec. 17, 1952. Records available: 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.98	....	....	70.08	71.39	e70.20	76.20	76.74	77.06	77.26	77.31	77.14
2	76.92	....	....	70.04	71.00	e70.64	76.15	76.70	77.09	77.35	77.34	77.20
3	76.93	....	....	69.88	70.95	71.43	76.23	76.78	77.07	77.40	77.28	77.15
4	76.92	72.85	....	69.80	71.15	72.20	76.45	76.74	77.00	77.37	77.28	77.12
5	76.97	73.02	....	69.80	71.31	72.92	76.43	76.76	76.97	77.35	77.27	77.18

8830-3700-87--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	76.95	73.22	.....	69.87	71.25	73.51	76.31	76.72	76.90	77.23	77.27	77.09
7	76.86	73.22	.....	69.95	71.24	74.04	76.48	76.74	76.94	77.25	77.26	77.19
8	76.76	73.41	.....	70.10	71.85	74.52	76.50	76.78	77.02	77.25	77.25	77.28
9	77.61	73.40	.....	70.33	72.19	74.72	76.50	76.73	77.04	77.23	77.28	77.14
10	77.73	74.00	66.81	70.60	72.65	74.88	76.42	76.66	77.06	77.15	77.27	77.11
11	77.43	74.77	66.98	70.90	72.75	75.00	76.51	76.81	77.07	77.18	77.22	77.15
12	76.58	74.37	67.22	71.23	.....	75.09	76.51	76.78	77.04	77.30	77.23	77.35
13	75.52	73.51	67.50	71.57	.....	75.33	76.44	76.86	77.00	77.26	77.25	77.28
14	74.88	.....	67.95	71.66	.....	75.69	76.65	76.81	77.01	77.20	77.27	77.18
15	73.99	.....	68.22	71.64	.....	75.78	76.64	76.80	77.05	77.08	77.26	77.12
16	73.93	.....	68.52	71.75	.....	75.51	76.62	76.79	77.06	77.24	77.36	77.34
17	73.93	.....	68.82	71.80	.....	75.48	76.65	76.78	77.08	77.15	77.34	77.42
18	73.99	.....	69.01	71.83	.....	75.75	76.58	76.92	77.12	77.22	77.33	77.29
19	74.29	.....	68.89	71.73	69.12	75.70	76.52	76.92	77.08	77.32	77.30	77.33
20	74.11	.....	.....	71.66	68.06	75.68	76.51	76.91	77.10	77.27	77.24	77.32
21	74.01	.....	.....	71.64	67.66	75.82	76.58	76.99	77.16	77.26	77.26	77.19
22	73.76	.....	.....	71.57	67.59	75.98	76.47	76.90	77.19	77.33	77.16	77.30
23	73.48	.....	.....	71.53	67.70	76.14	76.55	76.85	77.20	77.35	77.10	77.46
24	73.12	.....	68.55	71.55	68.06	76.06	76.55	77.02	77.20	77.37	77.15	77.46
25	73.02	.....	68.30	71.49	68.58	76.08	76.62	76.98	77.21	77.42	77.16	77.48
26	.....	.....	68.40	71.45	68.77	76.10	76.63	77.03	77.15	77.49	77.19	77.29
27	.....	.....	68.72	71.53	68.78	76.18	76.71	77.02	77.18	77.35	77.26	77.35
28	.....	.....	69.15	71.71	68.75	76.15	76.59	77.03	77.19	77.33	77.27	77.40
29	.....	.....	69.56	72.02	68.83	76.16	76.67	77.07	77.15	77.33	77.18	77.42
30	.....	.....	69.87	72.13	69.22	76.10	76.67	77.04	77.18	77.33	77.27	77.29
31	.....	.....	70.02	.....	69.65	.....	76.75	77.05	.....	77.32	.....	77.35

e Estimated.

8840-3700-265. J. Earl Ham. Lat. 37°02', long. 88°43'. Dug unused artesian well in Holly Springs sand, diameter 24 inches, depth 86 feet. Land-surface datum is about 475 feet above msl. Highest water level 80.94 below lsd, Mar. 3, 1953; lowest 81.92 below lsd, Feb. 21, 1953. Records available: 1952-53. Recording gear installed Nov. 11, 1952.

Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 1	h81.88	Nov. 21	81.46	Dec. 5	81.41	Dec. 19	81.38
Sept. 24	h81.88	22	81.40	6	81.36	20	81.35
Oct. 7	h81.97	23	81.63	7	81.36	21	81.46
Nov. 5	h81.58	24	81.48	8	81.29	22	81.21
11	81.47	25	81.15	9	81.24	23	81.50
12	81.47	26	81.61	10	81.47	24	81.61
13	81.39	27	81.72	11	81.39	25	81.60
14	81.29	28	81.68	12	81.55	26	81.52
15	81.42	29	81.46	13	81.48	27	81.51
16	81.50	30	81.62	14	81.49	28	81.49
17	81.42	Dec. 1	81.32	15	81.47	29	81.28
18	81.37	2	81.40	16	81.44	30	81.25
19	81.37	3	81.42	17	81.37	31	81.46
20	81.39	4	81.30	18	81.47		

h Tape measurement.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	81.56	81.61	81.33	81.42	81.30	81.40	81.19	.....	81.25	81.42	81.42	81.38
2	81.11	81.38	81.34	81.55	81.60	81.39	81.16	.....	81.24	81.35	81.43	81.32
3	81.46	81.44	81.10	81.46	81.64	81.31	81.33	.....	81.19	81.37	81.38	81.07
4	81.38	81.52	81.56	81.51	81.53	81.26	81.33	81.19	81.32	81.31	81.42	81.33
5	81.55	81.29	81.65	81.43	81.55	81.28	81.30	.....	81.42	81.20	81.48	81.33
6	81.40	81.44	81.73	81.18	81.39	81.33	81.29	.....	81.34	81.34	81.44	81.35
7	81.25	81.51	81.59	81.37	81.37	81.33	81.31	.....	81.41	81.48	81.38	81.45
8	81.38	81.61	81.67	81.28	81.45	81.33	81.34	.....	81.42	81.35	81.40	81.36
9	81.31	81.71	81.53	81.26	81.47	81.45	81.43	.....	81.39	81.25	81.42	81.14
10	.....	81.50	81.48	81.50	81.38	81.43	81.45	.....	81.30	81.22	81.40	81.52

8840-3700-265--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	81.73	81.19	81.49	81.45	81.43	81.45	81.35	81.36	81.16	81.21	81.32	81.46
12	81.44	81.39	81.36	81.39	81.38	81.32	81.30	81.35	81.24	81.42	81.44	81.37
13	81.44	81.50	81.43	81.60	81.52	81.25	81.26	81.28	81.38	81.47	81.47	81.20
14	81.43	81.30	81.22	81.60	81.42	81.26	81.29	81.25	81.11	81.44	81.40	81.31
15	81.63	81.44	81.52	81.20	81.46	81.31	81.37	81.26	81.29	81.37	81.24	81.56
16	81.60	81.39	81.57	81.59	81.22	81.29	81.32	81.23	81.27	81.33	81.29	81.75
17	81.35	81.82	81.32	81.35	81.27	81.37	81.27	81.33	81.29	81.38	81.34	81.73
18	81.31	81.57	81.25	81.46	81.30	81.33	81.28	81.36	81.28	81.39	81.36	81.68
19	81.19	81.42	81.49	81.42	81.38	81.32	81.28	81.33	81.22	81.40	81.29	81.37
20	81.28	81.08	81.33	81.49	81.40	81.29	81.26	81.31	81.24	81.40	81.14	81.19
21	81.54	81.30	81.35	81.31	81.38	81.41	81.21	81.34	81.50	81.37	81.43	81.12
22	81.45	81.84	81.21	81.14	81.33	81.40	81.28	81.33	81.58	81.35	81.27	81.57
23	81.07	81.71	81.46	81.25	81.49	81.37	.....	81.29	81.38	81.25	81.24	81.76
24	81.47	81.41	81.42	81.19	81.39	81.28	.....	81.29	81.30	81.29	81.12	81.53
25	81.63	81.27	81.63	81.13	81.36	81.33	.....	81.34	81.24	81.31	81.29	81.27
26	81.38	81.26	81.68	81.28	81.42	81.51	.....	81.33	81.18	81.24	81.45	81.36
27	81.31	81.32	81.50	81.42	81.53	81.33	.....	81.31	81.20	81.22	81.59	81.25
28	81.58	81.49	81.39	81.34	81.46	81.41	81.26	81.26	81.29	81.30	81.64	81.26
29	81.55	.....	81.45	81.15	81.26	81.43	.....	81.23	81.30	81.48	81.35	81.34
30	81.45	.....	81.34	81.16	81.19	81.33	.....	81.32	81.43	81.46	81.38	.....
31	81.44	.....	81.19	.....	81.27	.....	.....	81.33	.....	81.40	.....	.....

e Estimated.

Muhlenberg County

8700-3710-3. City of Drakesboro. Lat. 37°11', long. 87°04'. Drilled unused artesian well in Anvil Rock sandstone member of Lisman formation, diameter 8 inches, depth 176 feet. Land-surface datum is about 430 feet above msl. Highest water level 1.94 below lsd, Feb. 3, 1953; lowest 12.10 below lsd, Dec. 4, 1953. Records available: 1952-53. Recording gage installed Aug. 15, 1952.

Daily noon water level from recorder graph, 1952

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.22	6.35	6.40	6.20	17	6.21	6.14	6.36	6.43	4.93
2	6.01	6.45	6.41	6.21	18	6.21	6.13	6.38	6.20	4.99
3	6.09	6.48	6.52	6.17	19	6.22	6.22	6.33	5.61	4.98
4	6.11	6.45	6.40	4.86	20	6.24	6.25	6.48	5.77	4.98
5	6.13	6.52	6.33	4.44	21	6.25	6.27	6.46	5.87	4.99
6	6.14	6.53	6.44	4.76	22	6.27	6.25	6.41	5.92	4.96
7	6.16	6.50	6.51	4.90	23	6.29	6.31	6.40	6.09	5.02
8	6.17	6.44	6.43	4.92	24	6.29	6.31	6.38	6.09	5.03
9	6.19	6.43	6.39	4.90	25	6.29	6.31	6.39	5.97	5.05
10	6.20	6.38	6.39	4.10	26	6.34	6.30	6.39	6.16	5.05
11	6.20	6.36	6.40	4.42	27	6.32	6.31	6.34	6.21	5.10
12	6.22	6.30	6.40	4.62	28	6.31	6.35	6.44	6.24	5.12
13	6.27	6.30	6.40	4.69	29	6.34	6.38	6.50	6.20	5.10
14	6.21	6.30	6.36	4.79	30	6.24	6.36	6.42	6.21	5.12
15	h6.09	6.20	6.36	6.40	4.85	31	6.23	.....	6.38	.....	4.94
16	6.11	6.17	6.36	6.44	4.91						

h Tape measurement.

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.88	4.52	4.65	3.74	3.99	4.84	7.28	6.11	8.78	10.42	11.40	h11.99
2	4.55	4.51	3.84	4.01	4.21	4.97	7.32	6.14	8.82	10.43	11.42	11.99
3	4.51	4.58	2.92	4.09	4.28	5.08	7.41	6.22	8.89	10.48	11.44	11.92
4	4.60	4.63	....	4.20	4.04	5.19	7.45	6.26	8.98	10.50	11.49	11.99
5	4.71	4.61	....	4.23	3.86	5.33	7.38	6.05	9.13	10.47	11.55	11.98
6	4.73	4.54	....	3.80	4.02	5.46	7.40	5.97	9.20	10.58	11.56	11.15
7	4.14	4.55	....	3.85	4.09	5.49	7.51	6.00	9.29	10.69	11.56	11.57
8	3.61	4.61	....	3.84	4.17	5.61	7.55	6.00	9.39	10.66	11.60	11.58
9	....	4.67	....	3.90	4.24	5.83	7.63	5.98	9.43	10.66	11.64	11.51
10	3.61	4.64	....	4.06	4.29	5.97	7.70	5.96	9.45	10.67	11.64	11.67

174 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8700-3710-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	4.48	....	4.12	4.35	6.10	7.74	6.02	9.42	10.68	11.64	11.65
12	....	4.15	....	3.89	4.36	6.19	7.77	6.12	9.49	10.83	11.70	11.63
13	....	4.29	....	4.04	4.30	6.27	7.80	6.08	9.62	10.69	11.74	11.56
14	....	4.34	....	4.12	3.91	5.55	7.86	6.08	9.55	10.81	11.73	11.56
15	....	4.45	....	4.07	4.05	5.66	7.94	6.39	9.66	10.93	11.72	11.70
16	....	4.45	....	4.25	3.27	5.82	7.99	6.45	9.69	10.94	11.75	11.80
17	3.17	4.61	....	4.25	3.17	6.02	6.60	6.35	9.79	11.00	11.77	11.80
18	3.87	4.60	....	3.31	3.55	6.18	6.35	6.20	9.83	11.04	11.81	11.77
19	4.16	4.62	....	3.78	3.54	6.32	5.98	6.26	9.86	11.08	11.79	11.67
20	4.36	4.55	....	3.98	3.84	6.44	5.95	6.21	9.88	11.12	11.76	11.61
21	4.47	4.49	....	4.07	4.02	6.57	5.89	6.71	10.04	11.14	11.87	11.55
22	4.49	4.51	....	4.12	4.13	6.68	5.84	7.17	10.16	11.16	11.70	11.76
23	4.34	4.54	....	4.22	4.20	6.77	5.85	7.46	10.16	11.12	11.63	11.75
24	3.65	4.52	....	4.17	4.27	6.84	5.88	7.70	10.17	11.18	11.62	11.65
25	4.08	4.52	....	4.12	4.34	6.94	5.90	7.91	10.12	11.22	11.70	11.68
26	4.22	4.55	....	4.23	4.41	7.03	5.94	8.07	10.11	11.22	11.75	11.64
27	4.34	4.60	....	4.28	4.48	7.08	5.95	8.20	10.14	11.20	11.90	11.63
28	4.24	4.65	....	4.29	4.52	7.14	5.97	8.31	10.22	11.25	11.95	11.65
29	4.35	....	....	4.33	4.54	7.19	6.03	8.42	10.28	11.32	11.85	11.76
30	4.38	....	h4.32	3.63	4.64	7.26	6.10	8.56	10.38	11.35	11.94	11.77
31	4.43	....	4.27	....	4.72	....	6.11	8.67	....	11.37	....	11.73

h Tape measurement.

Ohio County

8650-3720-8. E. C. Heflin. Second St. and Central Ave., Beaver Dam. Lat. 37°24', long. 86°53'. Drilled unused artesian well in Caseyville sandstone, diameter 6 inches, depth 265 feet. Highest water level 116.39 below lsd, Mar. 10, 1952; lowest 137.67 below lsd, July 31, 1952. Records available: 1948, 1951-53.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	123.02	120.39	120.42	118.49	118.12	121.44	129.72	130.95	.....	131.89	128.69	126.46
2	122.70	119.80	119.43	118.60	118.28	121.55	129.65	129.86	.....	132.42	127.79	126.34
3	122.71	120.47	119.43	119.16	119.41	122.34	129.78	129.70	.....	132.40	128.04	126.35
4	122.49	120.67	119.67	119.10	118.64	122.84	129.57	130.77	.....	132.45	128.32	126.38
5	121.97	120.86	119.41	118.81	118.37	123.31	129.08	130.98	.....	131.39	128.74	126.40
6	122.10	121.01	119.72	118.07	119.26	123.89	127.97	131.10	.....	131.24	129.42	126.96
7	122.87	121.42	119.87	118.25	119.09	123.54	128.41	131.60	132.91	131.24	130.07	127.38
8	.....	122.02	119.45	119.05	119.21	123.02	127.77	132.86	133.12	131.26	130.07	127.87
9	.....	121.12	119.09	118.95	119.24	123.86	129.80	132.28	.....	131.07	128.70	128.00
10	.....	121.34	119.46	119.22	119.34	124.74	128.92	131.68	.....	131.72	128.79	128.39
11	.....	121.74	119.48	119.67	118.54	125.33	128.91	131.49	.....	131.37	128.31	128.42
12	121.05	121.77	119.80	119.60	118.76	126.99	128.74	131.98	.....	130.22	128.24	127.11
13	120.78	121.91	119.70	118.83	118.72	128.16	127.69	132.12	.....	131.27	128.42	124.97
14	121.19	121.62	119.86	119.33	118.95	.....	129.87	131.98	132.39	131.99	128.30	125.44
15	122.21	121.15	119.82	119.15	119.14	.....	131.13	132.14	132.55	132.14	127.88	125.34
16	121.94	120.24	119.43	119.35	119.39	.....	131.44	132.49	132.98	132.07	127.39	125.42
17	121.24	120.55	119.30	119.10	118.94	128.44	.....	132.13	133.11	132.68	127.39	134.83
18	121.16	121.06	119.17	118.95	119.25	128.42	.....	132.16	133.06	133.09	127.74	125.51
19	120.45	121.25	119.50	118.13	118.17	128.39	.....	133.28	.....	131.41	128.27	125.32
20	121.29	120.76	119.41	117.80	118.40	129.04	.....	133.20	132.83	131.32	127.80	125.16
21	121.48	121.09	119.29	118.57	130.17	.....	133.02	132.38	131.68	128.24	127.94	.....
22	121.51	121.49	119.37	118.22	118.83	129.91	128.79	133.56	132.58	131.95	127.73	127.96
23	121.65	120.47	118.22	119.02	118.85	130.69	129.18	132.89	132.56	132.04	126.74	129.01
24	121.35	120.56	118.61	118.77	118.74	131.36	128.86	131.92	132.11	131.87	126.89	129.23
25	120.93	120.27	118.98	118.70	118.15	132.48	129.17	132.56	132.07	131.94	126.87	127.64
26	120.37	120.02	119.21	118.41	119.65	132.95	128.78	132.96	131.89	130.42	126.81	127.69
27	120.46	119.85	119.26	117.69	120.44	132.24	128.10	133.32	131.31	130.56	126.14	126.96
28	120.59	120.32	119.08	117.98	121.68	131.75	128.94	.....	130.72	130.27	126.38	126.86
29	120.76	.....	119.09	118.14	121.22	129.96	128.98	.....	131.94	130.01	126.04	.....
30	120.72	.....	118.37	118.13	122.08	129.96	129.98	.....	131.46	129.10	125.72	.....
31	120.51	.....	118.71	.....	122.42	.....	130.59	.....	.....	128.96	.....	.....

h Tape measurement.

Pulaski County

8435-3655-1. R. Bausch. Lat. 36°59', long. 84°36'. Drilled unused water-table well in limestone of Fort Payne chert, diameter 6 inches, depth 146 feet. Highest water level 83.99 below lsd, Aug. 11, 1953; lowest 90.99 below lsd, Nov. 8, 1952. Records available: 1952-53. Recording gage installed Sept. 24, 1952.

Daily noon water level from recorder graph, 1952

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 24	90.48	Nov. 9	90.98	Nov. 26	89.90	Dec. 12	88.89
25	90.48	10	90.97	27	89.69	13	88.82
26	90.48	11	90.87	28	89.55	14	88.80
27	90.49	12	90.77	29	89.41	15	88.79
28	90.49	13	90.72	30	89.31	16	88.78
29	90.49	14	90.68	Dec. 1	89.27	17	88.78
30	90.52	15	90.64	2	89.27	18	88.80
Oct. 1	90.52	16	90.64	3	89.27	19	88.82
2	90.58	17	90.64	4	89.30	20	88.88
3	90.60	18	90.64	5	89.30	21	88.91
4	90.60	19	90.62	6	89.23	22	88.96
5	90.68	20	90.54	7	89.18	23	89.01
6	90.69	21	90.50	8	89.13	24	89.09
7	90.70	22	90.45	9	89.07	25	89.14
8	90.70	23	90.30	10	88.99	26	89.19
Nov. 7	90.98	24	90.08	11	88.92	27	89.23
8	90.99	25	90.00				

Daily noon water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	87.55	86.66	.....	86.80	86.63	84.41	84.83	84.95	85.63	85.19	85.33
2	.....	87.50	86.63	.....	86.69	86.45	84.68	84.70	85.03	85.60	85.10	85.33
3	.....	87.46	86.44	.....	86.60	86.23	84.96	84.57	85.05	85.54	85.13	85.32
4	.....	87.48	86.32	.....	86.49	86.02	85.13	84.45	85.05	85.45	85.22	85.29
5	.....	87.60	86.16	.....	86.33	85.80	85.22	84.32	85.06	85.33	85.40	85.29
6	.....	.....	86.16	.....	86.19	85.61	85.26	.....	84.96	85.23	85.54	85.25
7	88.78	.....	86.16	.....	86.04	85.45	.....	.....	84.87	85.30	.....	85.25
8	88.68	.....	86.16	.....	85.93	85.29	.....	.....	84.77	85.34	.....	85.18
9	88.49	.....	86.03	.....	85.84	85.48	.....	.....	84.77	85.34	.....	85.06
10	88.33	.....	86.15	.....	85.83	85.80	.....	.....	84.78	85.37	.....	84.91
11	88.25	.....	86.16	.....	85.83	85.57	85.07	83.99	84.75	85.53	.....	84.82
12	88.20	.....	86.16	.....	85.82	85.70	84.96	84.15	84.71	85.56	85.84	84.73
13	88.16	.....	86.10	.....	85.79	85.77	84.85	84.48	84.75	85.76	85.84	84.62
14	88.16	87.45	86.10	.....	85.56	85.77	84.75	84.63	85.02	85.84	85.82	84.49
15	88.16	87.26	86.07	.....	85.52	85.76	84.57	84.72	85.22	85.88	85.77	84.41
16	88.17	87.25	86.00	.....	85.42	85.69	84.44	84.76	85.41	85.90	85.72	84.32
17	88.17	87.40	85.85	.....	85.22	85.62	84.46	84.80	85.53	85.91	85.69	84.28
18	88.12	87.46	85.72	.....	85.32	85.53	84.70	84.80	85.59	85.91	85.67	84.14
19	88.06	87.49	85.56	.....	85.27	85.42	84.94	84.79	85.61	85.91	85.67	.....
20	88.00	87.45	85.42	87.21	85.17	85.31	85.23	84.71	85.60	85.91	85.65	.....
21	87.99	87.27	85.32	87.22	85.13	85.20	85.42	84.62	85.57	85.90	85.64	.....
22	87.96	87.21	.....	87.21	85.10	85.09	85.57	84.53	85.54	85.84	85.59	.....
23	87.87	87.08	.....	87.25	85.07	84.97	85.66	84.41	85.53	85.75	85.55	.....
24	87.85	86.94	.....	87.07	85.02	84.88	85.70	84.32	85.54	85.63	85.47	.....
25	.....	86.80	.....	86.96	85.02	84.77	85.70	84.20	85.62	85.65	85.43	.....
26	.....	86.72	.....	86.94	.....	84.67	85.62	84.20	85.68	.....	85.41	.....
27	.....	86.65	.....	86.99	86.42	84.61	85.52	84.45	85.70	85.57	85.38	.....
28	.....	86.66	.....	86.99	86.80	84.57	85.40	84.60	85.71	85.51	85.38	.....
29	.....	.....	.....	86.91	86.96	84.52	85.27	84.71	85.68	85.47	85.35	.....
30	87.63	.....	.....	86.93	86.96	84.46	85.14	84.77	85.65	85.38	85.33	.....
31	87.58	.....	.....	.....	86.82	.....	85.00	84.82	.....	85.28	.....	.....

h Tape measurement.

Rowan County

8320-3810-1. Nick Trkula. Lat. 38°12', long. 83°24'. Dug unused water-table well in shales and sandstones of Mississippian age, diameter 30 inches, depth 24 feet. Land-surface datum is about 780 feet above msl. Highest water level 6.16 below lsd, Apr. 12, 1953; lowest 15.37 below lsd, Dec. 19, 1953. Records available: 1953. Recording gage installed Apr. 2, 1953.

8320-3810-1--Continued.

Daily noon water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	11.31	11.67	12.22	12.57	12.82	13.52	14.29	15.02
2	10.35	11.32	11.72	12.18	12.58	12.81	13.54	14.33	15.05
3	10.36	11.38	11.70	12.24	12.21	12.81	13.57	14.34	15.04
4	10.38	11.47	11.74	12.29	12.32	12.82	13.56	14.38	14.88
5	10.40	11.49	.....	12.28	12.07	12.89	13.51	14.43	15.07
6	10.38	10.98	11.77	12.14	12.22	12.92	13.52	14.46	15.00
7	8.92	11.26	11.82	11.48	12.33	12.96	13.65	14.47	15.10
8	8.50	8.29	.....	11.69	12.35	13.02	13.68	14.48	15.14
9	8.55	8.85	11.88	11.92	12.13	13.05	13.66	14.51	15.12
10	7.70	9.55	11.91	12.08	12.22	13.04	13.65	14.54	15.12
11	8.55	10.75	11.40	12.10	12.34	12.98	13.65	14.54	15.20
12	6.50	11.23	11.50	12.14	12.41	12.96	13.71	14.59	15.21
13	6.90	11.29	.....	12.16	12.45	13.08	13.80	14.63	15.21
14	8.92	11.32	.....	12.19	12.48	13.06	13.85	14.64	15.07
15	9.55	11.34	.....	12.25	12.53	13.06	13.84	14.64	15.21
16	8.90	9.95	.....	12.30	12.57	13.09	13.85	14.65	15.23
17	9.25	9.09	.....	12.32	12.63	13.16	13.90	14.67	15.31
18	.....	7.31	11.99	12.24	12.65	13.17	13.93	14.69	15.36
19	8.51	.....	12.02	12.27	12.64	13.16	13.96	14.73	15.37
20	8.95	.....	12.03	12.29	12.58	13.17	13.98	14.71	15.32
21	10.48	.....	12.05	12.29	12.62	13.22	14.01	14.73	15.24
22	10.44	10.97	12.12	12.29	12.64	13.34	14.02	14.73	15.18
23	10.44	11.32	12.14	12.35	12.64	13.37	13.98	14.74	14.97
24	10.95	11.34	12.15	12.42	12.67	13.36	13.98	14.72	14.87
25	11.16	11.37	12.17	12.48	12.70	13.34	14.05	14.72	14.75
26	11.26	11.38	12.18	12.51	12.72	13.33	14.08	14.79	14.67
27	11.28	11.47	12.22	12.51	12.73	13.28	14.05	14.83	14.72
28	11.30	11.57	12.24	12.51	12.74	13.37	14.06	14.93	14.66
29	11.29	11.55	12.26	12.53	12.74	13.42	14.13	14.98	14.67
30	11.31	11.57	12.25	12.56	12.76	13.47	14.22	14.98	14.69
31	.....	11.58	.....	12.58	12.79	.....	14.26	.....	14.77

8320-3810-2. Nick Trkula. Lat. 38°12', long. 83°24'. Drilled unused water-table well in shales and sandstones of Mississippian age, diameter 5 inches, depth 33 feet. Land-surface datum is about 780 feet above msl. Highest water level 13.21 below lsd, May 22, 1953; lowest 18.21 below lsd, Nov. 13, 1953. Records available: 1953. Recording gage installed Apr. 23, 1953.

Daily noon water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.39	15.98	16.08	.....	17.16	17.63	17.70
2	15.40	16.11	16.11	.....	17.28	17.65	17.69
3	15.48	16.07	15.87	.....	17.17	17.62	17.67
4	15.69	.....	15.90	.....	17.16	17.61	17.59
5	15.53	.....	15.62	.....	17.12	17.67	17.69
6	15.61	15.96	15.68	.....	17.25	17.70	17.50
7	15.63	15.70	.....	17.26	14.64	17.63
8	15.66	15.62	15.70	.....	17.24	17.66	17.57
9	15.73	15.60	15.75	.....	17.21	17.66	17.50
10	15.39	15.70	15.73	.....	17.25	17.69	17.58
11	14.95	15.67	15.81	.....	17.26	17.73	17.58
12	14.82	15.67	15.86	.....	17.35	17.73	17.51
13	15.00	15.72	15.84	.....	17.36	17.79	17.51
14	15.37	15.79	15.90	.....	17.42	17.65	17.32
15	15.18	15.93	15.89	.....	17.44	17.70	17.35
16	15.25	15.93	16.13	.....	17.40	17.70	17.34
17	15.42	15.96	16.10	16.85	17.49	17.72	17.32
18	15.53	15.62	16.27	16.95	17.53	17.77	17.30
19	15.62	15.67	.....	16.98	17.49	17.76	17.16
20	15.82	15.75	.....	16.92	17.47	17.73	17.13
21	15.70	15.75	.....	16.95	17.53	17.76	17.05
22	13.21	15.79	15.82	.....	17.08	17.48	17.72	17.05
23	13.53	15.82	15.86	.....	17.04	17.45	17.69	17.09
24	h13.25	13.77	16.00	15.86	.....	17.03	17.62	17.67	17.03
25	14.27	15.91	15.90	.....	17.01	17.60	17.65	16.99

8320-3810-2--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	14.47	15.92	16.04	.....	16.98	17.53	17.72	16.98
27	14.67	15.95	16.00	.....	17.10	17.49	17.76	16.94
28	14.83	15.98	15.99	.....	17.10	17.64	17.74	16.81
29	14.98	15.98	15.99	.....	17.14	17.58	17.71	16.81
30	15.05	16.06	16.10	.....	17.16	17.60	17.67	16.84
31	15.08		16.21	.....		17.62		16.81

h Tape measurement.

Scott County

8430-3820-7. W. T. Nelson. Lat. 38°21', long. 84°32'. Dug unused water-table well in shale and limestone of Eden formation, diameter 36 inches, depth 20 feet. Land-surface datum is about 990 feet above msl. Highest water level 18.30 below lsd, Mar. 27, 1953; lowest 19.53 below lsd, Dec. 28-31, 1953. Records available: 1953. Recording gage installed Feb. 11, 1953.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.06	18.36	18.54	18.55	18.65	18.93	19.16	19.31	19.45	19.49
2	19.06	18.37	18.55	18.56	18.66	18.94	19.16	19.32	19.45	19.49
3		18.38	18.57	18.58	18.68	18.95	19.17	19.33	19.45	19.49
4		18.39	18.58	18.59	18.69	18.95	19.17	19.32	19.45	19.49
5		18.41	18.58	18.60	18.71	18.96	19.18	19.33	19.45	19.50
6		18.40	18.59	18.62	18.70	18.97	19.19	19.33	19.46	19.49
7		18.38	18.60	18.63	18.71	18.97	19.19	19.34	19.46	19.49
8		18.39	18.61	18.65	18.72	18.97	19.20	19.34	19.46	19.49
9		18.40	18.62	18.66	18.73	18.98	19.21	19.35	19.46	19.49
10		18.41	18.63	18.67	18.74	18.99	19.21	19.35	19.47	19.48
11	h18.98		18.42	18.64	18.68	18.75	19.00	19.22	19.36	19.47	19.49
12			18.43	18.65	18.69	18.76	19.01	19.22	19.36	19.47	19.49
13			18.44	18.67	18.70	18.77	19.02	19.23	19.37	19.47	19.49
14			18.46	18.68	18.70	18.78	19.02	19.23	19.38	19.47	19.49
15			18.47	18.69	18.72	18.79	19.03	19.23	19.38	19.47	19.49
16			18.47	18.68	18.45	18.80	19.04	19.24	19.39	19.47	19.49
17			18.49	18.41	18.46	18.81	19.05	19.24	19.39	19.48	19.50
18			18.48	18.37	18.48	18.81	19.06	19.25	19.40	19.48	19.50
19			18.42	18.37	18.50	18.82	19.07	19.25	19.41	19.48	19.51
20			18.43	18.39	18.52	18.83	19.07	19.25	19.41	19.48	19.51
21			18.45	18.39	18.53	18.83	19.08	19.26	19.42	19.48	19.51
22			18.45	18.40	18.55	18.84	19.08	19.27	19.42	19.48	19.51
23			18.46	18.42	18.56	18.85	19.09	19.28	19.42	19.47	19.51
24			18.47	18.44	18.57	18.86	19.10	19.28	19.43	19.47	19.52
25	19.03		18.48	18.45	18.58	18.87	19.10	19.29	19.43	19.47	19.52
26	19.04	.....	18.49	18.46	18.59	18.88	19.12	19.29	19.44	19.47	19.52
27	19.04	18.30	18.50	18.48	18.61	18.89	19.12	19.29	19.44	19.48	19.52
28	19.05	18.32	18.52	18.50	18.63	18.89	19.13	19.30	19.44	19.48	19.53
29		18.33	18.53	18.51	18.63	18.91	19.14	19.30	19.44	19.49	19.53
30		18.34	18.53	18.52	18.64	18.91	19.14	19.31	19.45	19.49	19.53
31		18.35		18.53		18.92	19.15		19.45		19.53

h Tape measurement.

Union County

8755-3735-10. J. A. Schneider. Lat. 37°39', long. 87°56'. Drilled unused artesian well in fault zone in middle part of Pennsylvanian system, diameter 6 inches, depth 59 feet. Highest water level 3.48 below lsd, Feb. 4, 1952; lowest 18.06 below lsd, Dec. 1, 1953. Records available: 1951-53. Recording gage removed Nov. 18, 1953.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.28	9.20	8.23	5.84	4.98	5.82	7.77	10.29	12.67	14.29	15.03	h18.06
2	12.18	9.14	8.03	5.87	5.00	5.92	7.82	10.37	12.73	14.33	15.04	.....
3	12.14	9.09	7.68	5.85	5.08	5.98	7.97	10.49	12.74	14.37	15.05	.....
4	12.12	9.11	e7.24	5.88	5.13	6.05	8.06	10.58	12.81	14.39	15.07	.....
5	12.07	9.06	6.81	5.90	5.03	6.14	8.10	10.66	12.90	14.37	15.09	.....

178 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

8755-3735-10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	12.04	8.99	6.69	5.79	5.03	6.23	8.18	10.75	12.97	14.41	15.10	.....
7	12.02	9.00	6.66	5.65	5.05	6.30	8.30	10.85	13.03	14.46	15.10	.....
8	8.99	6.66	5.62	5.11	6.33	8.40	10.87	13.10	14.48	15.10	.....
9	9.04	6.68	5.48	5.17	6.41	8.53	10.96	13.16	14.49	15.11	.....
10	9.02	6.67	5.48	5.23	6.49	8.64	11.04	13.21	14.51	15.12	.....
11	8.92	6.67	5.51	5.31	6.54	8.73	11.11	13.25	14.55	15.11	.....
12	6.68	5.41	5.34	6.58	8.80	11.18	13.31	14.60	15.13	.....
13	6.72	5.46	5.41	6.61	8.88	11.24	13.41	14.64	15.13	.....
14	6.67	5.50	5.41	6.59	8.98	11.29	13.43	14.66	15.14	.....
15	6.47	5.44	5.14	6.62	9.11	11.36	13.50	14.69	15.13	.....
16	6.30	5.54	5.01	6.64	9.20	11.43	13.56	14.72	15.13	.....
17	8.96	6.17	5.57	4.72	6.72	9.27	11.54	13.63	14.75	15.14	.....
18	8.95	6.00	5.45	4.46	6.77	9.33	11.62	13.68	14.77	15.15	.....
19	8.93	6.01	5.19	4.34	6.82	9.43	11.69	13.71	14.80	.....	.....
20	5.99	5.04	4.38	6.88	9.53	11.76	13.75	14.83	.....	.....
21	8.59	5.96	4.98	4.45	6.97	9.61	11.85	13.82	14.86	.....	.....
22	8.54	5.93	4.96	4.56	7.04	9.54	11.93	13.90	14.88	.....	.....
23	8.44	5.85	5.02	4.74	7.10	9.62	12.00	13.95	14.89	.....	.....
24	8.31	5.80	5.03	4.82	7.17	9.68	12.07	13.99	14.91	.....	.....
25	8.22	5.83	4.97	4.96	7.25	9.75	12.16	14.03	14.94	.....	.....
26	8.19	5.85	5.03	5.10	7.36	9.81	12.23	14.07	14.95	.....	.....
27	8.18	5.85	5.12	5.29	7.42	9.87	12.30	14.09	14.90	.....	.....
28	8.24	5.85	5.15	5.46	7.52	9.94	12.36	14.15	14.94	.....	.....
29	5.90	5.19	5.53	7.62	10.02	12.43	14.19	14.98	.....	.....
30	9.27	.....	5.92	5.06	5.60	7.70	10.13	12.51	14.25	15.00	.....	h14.46
31	9.20	.....	5.86	.....	5.70	.....	10.21	12.59	.....	15.01	.....	.....

b Pumped recently.

e Estimated.

h Tape measurement.

MARYLAND

By Claire A. Richardson

Scope of Water-Level Program

The observation-well program in Maryland was continued during 1953 in cooperation with the State Department of Geology, Mines and Water Resources. Measurements were made in 64 observation wells: 10 in the Appalachian Plateau and Ridge and Valley provinces, 15 in the Piedmont province, and 39 in that part of the Coastal Plain province west of Chesapeake Bay. Continuous recording gages were maintained throughout the year on 9 wells, and for part of the year on 1 other well. Figure 29 shows the location of observation wells.

Precipitation

The annual precipitation in Maryland in 1953 was 43.62 inches, which was 0.83 inch above normal. In March and May the rainfall was more than 2 inches above normal; from June through November, however, there was a deficiency in rainfall, amounting to as much as 1.67 inches in June.

Interpretation of Water-Level Fluctuations

Appalachian Plateau and Ridge and Valley provinces. --The water levels in all but one well in this area showed a net decline for the year, the average net decline being 5.50 feet. The net decline in one well (Wa-Bh 3 near Hagerstown, Washington County) amounted to 20.20 feet. Record highs were reached in 2 wells, and record lows were reached in 3 wells. Most highs for the year occurred in March, April, and May; most lows occurred in October, November, and December. Although this pattern conforms to the usual seasonal cycle found in water-table wells in Maryland, the average net decline for 1953 was more than twice that for 1952. This was due chiefly to the deficiency in rainfall which lasted from June through November.

Piedmont province. --The water levels in all observation wells in this area showed a net decline for the year, the average net decline being 4.61 feet. The net decline in one well (Fr-Fc 1 near Point of Rocks, Frederick County) amounted to 14.02 feet. Record highs were reached in 4 wells, and record lows were reached in 3 wells. Some highs occurred in January but most occurred in the period from April through June. All lows occurred in the last four months of the year. As in the Appalachian Plateau and Ridge and Valley provinces of the State, these highs and lows occurred at the usual time of year, except for the period of highs in January. These were probably caused by an above-normal precipitation in November and December 1952 and January 1953. Figure 30 shows water levels in wells Car-Bf 1 and Mont-Be 1 and precipitation at Westminster.

Coastal Plain (western part). --The water levels in most wells in this area showed a slight net decline for the year, the average net decline being only 0.35 foot. One well (AA-Cd 10 near Crownsville, Anne Arundel County) showed a net decline of 6.32 feet, and one (AA-Df 14 near Carrs Point, Anne Arundel County) showed a net rise of 5.05 feet. Record highs were reached in 4 wells, and record lows were reached in 5 wells. Most highs occurred in April; most lows occurred in September and October. Although some observation wells in this area are artesian and, therefore, are not usually subject to the seasonal fluctuations in water levels found in water-table wells, the highs and lows for this area generally occurred in the spring and fall, respectively, due chiefly to seasonal changes in the pumpage from the artesian strata. The average net change for the wells was about the same as in 1952.

Baltimore industrial area. --The water levels in most wells in this area showed a net rise for the year, the average net rise being 1.05 feet. One well (2S1E-16 in the Harbor district of Baltimore) showed a net rise of 8.04 feet. Record highs were reached in 4 wells, and record lows were reached in 2 wells. Most highs occurred in March, July, and December; most lows occurred in July and October. Net rises for the year occurred in the Curtis Bay, Harbor, Highlandtown, Dundalk, and Back River districts. Net declines for the year occurred in the Fairfield, Sparrows Point, Bay Shore Park, and Poplar districts. All of the observation wells in the Baltimore industrial area end in either the Patuxent or the Patapsco formation. The net rise in water level in wells ending in the Patuxent formation was 1.49 feet, and in the Patapsco formation 1.47 feet. All wells in the Baltimore industrial area, with one or possibly two

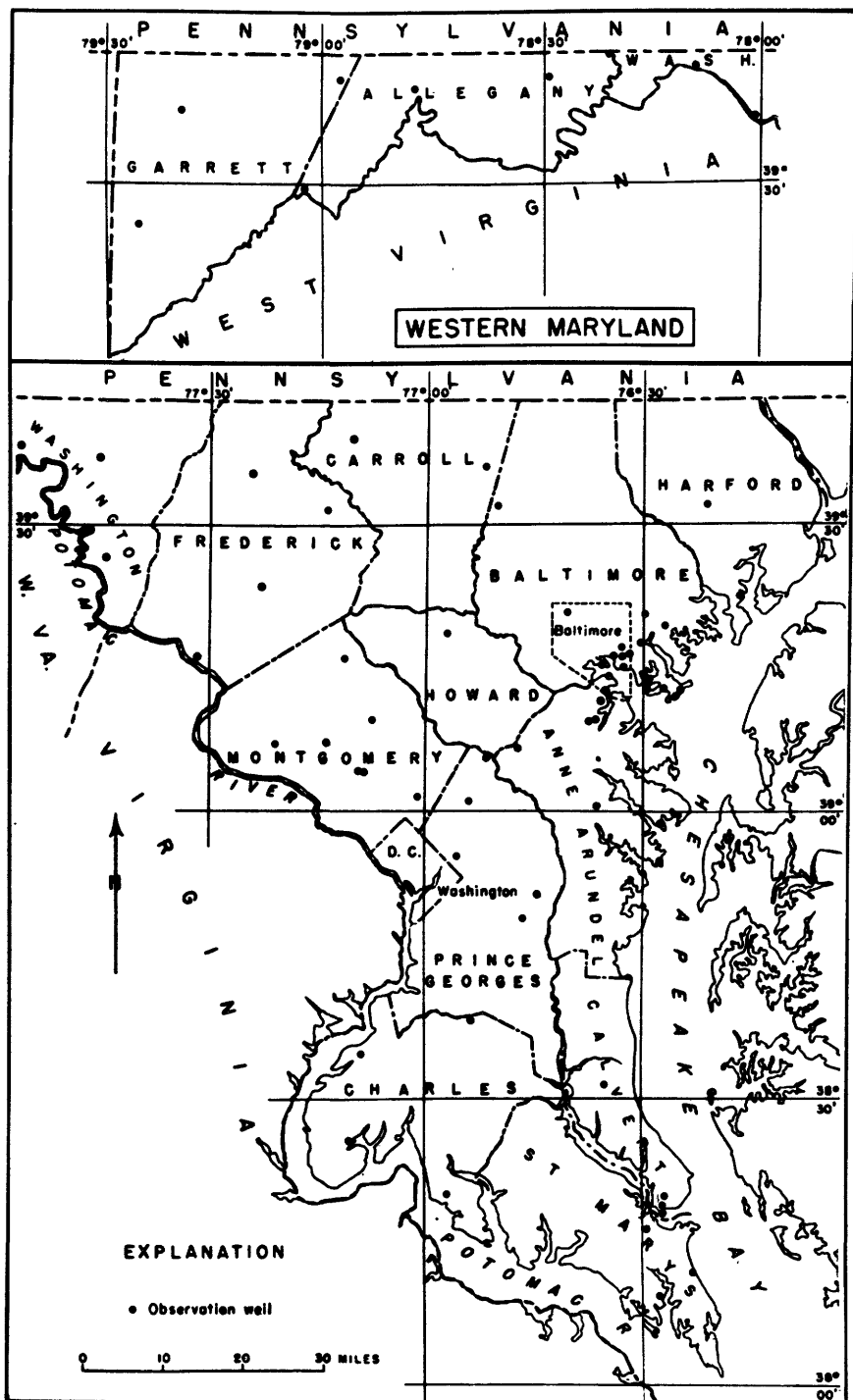


Figure 29. --Location of observation wells in western and central Maryland, 1953.

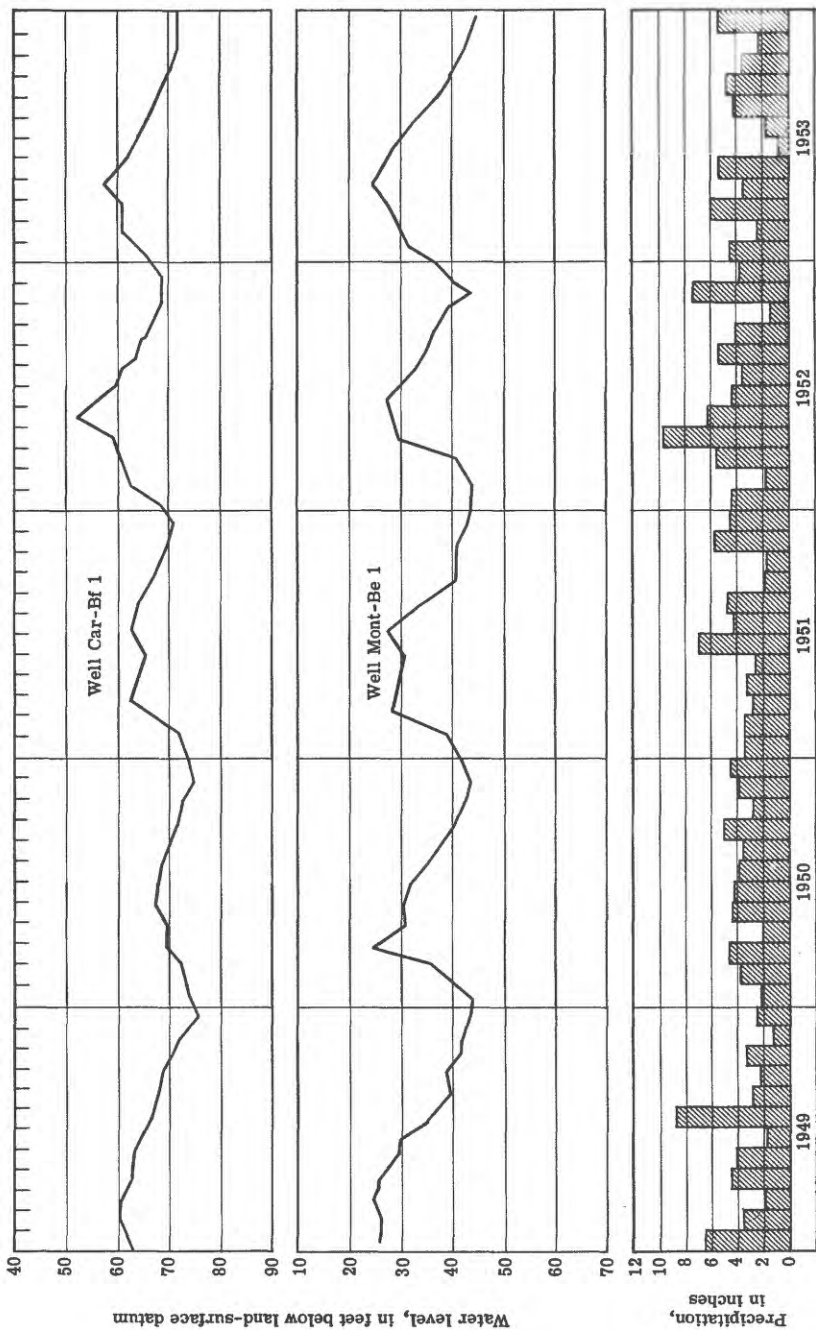


Figure 30. --Water levels in wells Car-Bf 1 and Mont-Be 1 and precipitation at Westminster, Md., 1949-53.

exceptions, are artesian wells and therefore do not reflect the seasonal change occurring in water-table wells. However, a seasonal fluctuation due to increased use of water in summer for air conditioning can be noted in some wells. Most changes in water level in wells in this area are due chiefly to changes in pumping rather than to natural causes alone. Inasmuch as the pumpage records are incomplete, it is rarely possible to indicate the source of such changes.

Well-Numbering System

All wells outside of Baltimore City are grouped by counties. Each county is divided into 5-minute quadrangles. Each quadrangle from north to south is designated by uppercase letters and from west to east by lowercase letters. The wells are numbered in each 5-minute quadrangle in the order in which they were inventoried. A different well-numbering system is used for wells within Baltimore. All wells within the city limits are referred to mile squares which are in turn referred to the Washington Monument, located 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.

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°21'06", long. 76°37'58". Drilled unused water-table well in rocks of Precambrian 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: 1943-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.39	May 11	8.79	July 8	10.15	Oct. 21	12.20
Mar. 20	8.22	26	9.15	Sept. 1	11.51	Dec. 4	12.41
Apr. 22	7.85	June 9	9.14	Oct. 9	12.27	21	11.34
May 1	8.40	12	9.25				

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 101.97 below lsd, Mar. 30, 1953; lowest 124.51 below lsd, June 20, 1947. Records available: 1944-53.

Jan. 26	114.22	June 12	106.79	Sept. 1	114.68	Nov. 9	113.52
Mar. 30	101.97	July 29	119.30	Oct. 8	121.50	Dec. 23	111.77

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 36.16 below lsd, July 11, 1952, Dec. 31, 1953; lowest 58.15 below lsd, Apr. 6, 1944. Records available: 1944-53.

Feb. 9	37.51	June 17	41.32	Sept. 2	41.27	Nov. 23	38.36
Mar. 16	36.20	July 14	39.84	Oct. 12	36.56	Dec. 31	36.16
Apr. 17	36.19						

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 feet above msl. Highest water level 30.60 below lsd, July 29, 1949; lowest 37.44 below lsd, June 3, 1944. Records available: 1943-53.

Jan. 26	33.77	June 12	32.98	Sept. 1	32.50	Nov. 9	33.28
Mar. 30	32.44	July 29	31.51	Oct. 8	36.18	Dec. 23	32.18

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 about 18 feet above msl. Highest water level 80.89 below lsd, June 22, 1943; lowest 103.70 below lsd, Oct. 15, 1948. Records available: 1943-53.

Jan. 26	94.60	June 12	101.05	Sept. 1	97.78	Nov. 9	91.82
Mar. 30	95.19	July 29	94.42	Oct. 8	97.74	Dec. 23	96.06

3S5E-3. Federal Yeast Corp. Dundalk. 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. 22, 1945. Records available: 1943-53. Jan. 26, 43.05; Mar. 30, 43.01; June 12, 43.14; July 29, 40.79; Sept. 1, 42.87; Nov. 9, 42.34; Dec. 23, 41.96.

483E-3. Virginia-Carolina Chemical Corp. Fairfield. 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 40.37 below lsd, Aug. 28, 1952; lowest 72.11 below lsd, Oct. 24, 1947. Records available: 1947-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	62.00	.....	72.16	67.08	66.56	.....	66.21	59.82	.....	64.53	62.53	62.94
2	60.58	.....	69.71	67.38	66.34	.....	66.34	59.03	.....	65.32	60.85	63.47
3	60.82	.....	68.89	67.98	65.61	.....	66.50	57.82	63.33	65.38	62.62	63.43
4	61.49	.....	67.28	68.19	64.32	.....	66.38	59.41	63.33	62.64	63.80	63.47
5	61.40	.....	70.23	68.00	64.50	.....	65.08	59.32	63.15	60.53	64.66	63.86
6	62.87	.....	70.81	66.81	64.98	.....	63.20	59.78	62.09	62.20	66.14	62.48
7	64.23	.....	71.07	66.66	65.19	.....	61.46	60.26	60.78	63.78	66.76	61.06
8	64.23	.....	70.25	67.52	65.62	.....	61.40	60.48	60.25	64.20	64.70	62.44
9	64.08	.....	68.65	67.85	65.70	.....	61.92	59.99	62.80	64.47	62.31	63.41
10	64.08	65.28	69.05	68.55	65.52	.....	62.15	59.52	64.25	64.80	63.97	63.88
11	63.27	68.83	69.68	68.81	65.35	.....	62.30	60.31	65.00	61.44	65.21	64.39
12	62.92	69.31	69.31	68.65	67.24	.....	61.39	60.70	64.83	61.08	65.77	64.37
13	62.95	69.57	68.82	67.38	67.72	.....	57.30	60.50	61.30	63.22	66.40	61.52
14	63.85	69.58	68.65	68.32	68.25	.....	57.17	61.36	60.62	64.76	66.52	59.42
15	64.33	69.12	68.18	68.56	66.58	.....	57.17	61.39	62.68	65.75	64.91	58.98
16	65.29	66.73	65.77	68.88	68.98	.....	57.41	59.50	64.08	66.79	.....	60.20
17	65.85	69.50	66.30	69.29	68.14	.....	57.50	.....	64.56	66.76	63.92	61.70
18	65.21	70.01	66.63	69.27	67.29	.....	57.21	.....	65.22	63.24	65.57	61.99
19	64.64	70.47	66.98	66.58	67.99	69.67	56.40	.....	65.18	61.90	66.55	62.40
20	66.70	70.71	67.43	64.65	68.25	69.52	55.74	.....	61.60	63.60	67.07	61.63
21	.....	70.52	67.73	67.50	68.65	68.75	56.13	.....	60.85	64.35	67.02	60.48
22	.....	70.60	67.16	67.63	68.65	67.60	56.21	.....	62.80	64.85	65.45	60.88
23	.....	69.14	66.33	68.75	69.03	67.82	56.90	.....	63.83	65.23	63.05	62.16
24	.....	68.70	66.72	68.84	69.15	68.45	57.65	.....	64.53	65.00	64.15	62.42
25	.....	68.15	67.27	68.82	67.41	68.67	57.75	.....	64.80	61.53	64.79	62.18
26	.....	69.40	68.50	68.38	.....	68.82	57.12	.....	64.93	60.59	64.68	60.43
27	.....	71.66	68.51	67.04	.....	68.80	57.06	.....	64.20	62.69	61.66	58.70
28	.....	72.50	68.18	67.57	.....	68.22	58.30	.....	61.66	63.60	61.05	57.99
29	.....	.....	67.61	68.38	.....	66.23	58.88	.....	63.52	64.12	61.05	60.70
30	.....	.....	67.23	67.56	.....	65.83	59.57	.....	63.95	65.05	60.69	62.02
31	.....	.....	67.15	.....	.....	.....	60.12	.....	.....	65.05	.....	63.56

6S2E-6. U. S. Industrial Alcohol Co. Birch St. and Curtis Ave. Lat. 39°13'20", long. 76°35'09". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 228 feet. Land surface datum is 20 feet above msl. Highest water level 47.04 below lsd, Oct. 12, 1953; lowest 124.13 below lsd, Dec. 22, 1944. Records available: 1943-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	60.55	June 18	51.52	Sept. 2	51.79	Nov. 23	49.15
Mar. 16	52.62	July 14	48.22	Oct. 12	47.04	Dec. 31	50.10
Apr. 17	55.34						

Allegheny 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 7.57 below lsd, July 23, 1953. Records available: 1949-53.

Feb. 16	3.07	May 1	4.20	July 16	4.44	Nov. 3	6.62
Mar. 5	3.14	19	3.06	23	7.57	15	6.45
Apr. 2	3.68	June 4	3.47	Aug. 17	5.45	19	6.33
15	3.18	18	4.84	Sept. 30	6.43	30	5.57
21	2.87	July 2	4.30	Oct. 15	6.85	Dec. 31	5.20

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 18.85 below lsd, July 22, 1952. Records available: 1946-53.

Jan. 5	12.22	Apr. 21	12.00	July 23	14.30	Nov. 13	13.66
Feb. 10	11.67	May 5	11.45	Aug. 3	17.73	19	13.53
Mar. 6	10.95	June 19	11.53	Sept. 8	16.55	Dec. 8	17.00
31	12.13	30	14.50	Oct. 5	13.59		

All-DA 1. Cumberland & Pennsylvania Railroad Co. Westernport. Lat. $39^{\circ}29'38''$, long. $79^{\circ}02'37''$. 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	2.76	Apr. 18	2.56	July 24	3.86	Nov. 4	4.65
Feb. 4	2.57	May 1	3.15	Aug. 3	4.52	19	4.76
Mar. 10	2.00	29	3.66	Sept. 2	4.74	Dec. 3	4.69
Apr. 1	2.16	July 2	4.64	30	5.01		

Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot. Curtis Bay. Lat. $39^{\circ}12'09''$, long. $76^{\circ}35'39''$. Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 109 feet. Land-surface datum is 45 feet above msl. Highest water level 29.96 below lsd, June 18, 1953; lowest 35.71 below lsd, Jan. 8, 1947. Records available: 1946-53.

Feb. 9	31.53	Apr. 17	30.55	July 14	30.01	Nov. 23	30.84
Mar. 16	30.89	June 18	29.96	Oct. 12	30.75	Dec. 31	31.46

AA-Ad 29. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. $39^{\circ}10'18''$, long. $76^{\circ}37'02''$. Drilled unused artesian well in Patuxent formation, diameter 3 to 2 inches, depth 530 feet, screen 450-530. Land-surface datum is 40 feet above msl. Highest water level 14.15 above lsd, Sept. 1, 1952; lowest 10.88 above lsd, June 10, 1948. Records available: 1948-53.

Daily lowest water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.12	13.12	12.94	13.40	13.56	13.56	13.47	13.49	13.47	13.15	12.99	12.69
2	13.12	13.08	12.87	13.36	13.45	13.52	13.53	13.52	13.49	13.05	12.97	12.67
3	13.48	13.18	12.87	13.34	13.36	13.52	13.51	13.45	13.48	13.02	13.00	12.67
4	13.22	13.12	13.10	13.37	13.31	13.55	13.38	13.46	13.45	13.06	12.94	12.70
5	13.17	13.09	13.04	13.34	13.39	13.59	13.40	13.56	13.49	13.16	12.84	12.72
6	13.09	13.10	13.01	13.35	13.47	13.60	13.45	13.47	13.55	13.23	12.84	12.72
7	13.04	13.25	12.93	13.41	13.55	13.62	13.50	13.45	13.52	13.07	12.89	12.72
8	13.06	13.18	12.94	13.32	13.55	13.57	13.49	13.48	13.40	12.57	12.88	12.71
9	13.24	13.08	12.88	13.32	13.48	13.59	13.45	13.62	13.31	13.00	12.87	12.73
10	13.30	13.04	12.86	13.33	13.46	13.57	13.37	13.60	13.32	13.06	12.85	12.78
11	13.43	13.04	12.84	13.42	13.50	13.51	13.33	13.53	13.37	13.11	12.87	12.70
12	13.20	13.21	12.87	13.43	13.50	13.50	13.35	13.52	13.45	13.01	12.80	12.72
13	13.18	13.14	13.13	13.49	13.51	13.55	13.38	13.57	13.47	12.92	12.76	12.62
14	13.15	13.10	13.10	13.35	13.51	13.55	13.38	13.62	13.38	12.90	12.77	12.88
15	13.15	13.15	13.15	13.30	13.55	13.52	13.35	13.62	13.42	12.95	12.82	12.85
16	13.13	13.18	13.23	13.48	13.49	13.53	13.36	13.60	13.48	13.05	12.90	12.74
17	13.11	13.07	13.22	13.42	13.47	13.59	13.39	13.60	13.39	12.95	12.84	12.61
18	13.22	12.96	13.25	13.44	13.65	13.57	13.47	13.55	13.25	12.91	12.81	12.59
19	13.30	12.95	13.32	13.44	13.60	13.57	13.48	13.51	13.26	12.96	12.80	12.58
20	13.30	12.97	13.19	13.41	13.57	13.57	13.47	13.49	13.36	12.97	12.80	12.65
21	13.28	13.11	13.11	13.42	13.50	13.57	13.46	13.45	13.35	12.92	12.80	12.73
22	13.18	13.01	13.11	13.30	13.57	13.58	13.47	13.42	13.20	12.92	12.81	12.81
23	13.19	12.95	13.15	13.45	13.57	13.52	13.54	13.49	13.09	13.01	12.96	12.66
24	13.41	12.96	13.29	13.37	13.49	13.42	13.52	13.52	13.06	13.05	13.02	12.60
25	13.27	13.10	13.41	13.41	13.50	13.39	13.41	13.47	13.11	12.98	13.01	12.64
26	13.11	13.21	13.40	13.55	13.58	13.41	13.41	13.48	13.21	12.93	12.87	12.73
27	13.12	13.22	13.38	13.48	13.48	13.39	13.49	13.49	13.30	12.95	12.65	12.64
28	13.27	13.11	13.38	13.40	13.39	13.40	13.53	13.50	13.30	12.97	12.71	12.65
29	13.13		13.40	13.36	13.35	13.43	13.49	13.55	13.20	13.25	12.65	12.72
30	13.10		13.38	13.41	13.45	13.44	13.52	13.49	13.16	13.06	12.67	12.74
31	13.13		13.35		13.55		13.55	13.50		13.00		12.67

AA-Ad 30. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. $39^{\circ}10'18''$, long. $76^{\circ}37'02''$. Drilled unused water-table well in Patapsco formation, diameter 4 inches, depth 15 feet. Land-surface datum is 40 feet above msl. Highest water level 7.99 below lsd, Mar. 30, 1953; lowest 12.16 below lsd, Jan. 25, 1950. Records available: 1948-53.

AA-Ad 30--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.62	8.78	9.05	8.02	8.23	....	....	9.75	10.21	10.20	10.20	10.01
2	9.61	8.77	9.08	8.06	8.25	....	....	9.77	10.24	10.21	10.17	10.01
3	9.58	8.75	9.10	8.10	8.27	....	....	9.78	10.27	10.22	10.16	10.02
4	9.56	8.74	9.10	8.12	8.30	....	....	9.80	10.31	10.23	10.15	10.04
5	9.55	8.74	9.11	8.14	8.30	....	....	9.80	10.32	10.24	10.15	10.05
6	9.53	8.73	9.15	8.14	8.31	....	....	9.81	10.32	10.24	10.15	10.06
7	9.54	8.72	9.17	8.15	8.31	....	....	9.82	10.26	10.24	10.15	10.07
8	9.54	8.69	9.17	8.17	8.32	....	....	9.83	10.21	10.26	10.15	10.07
9	9.50	8.67	9.17	8.20	8.36	....	....	9.83	10.19	10.27	10.15	10.07
10	9.39	8.70	9.18	8.20	8.36	....	....	9.79	10.17	10.27	10.15	10.07
11	9.28	8.70	9.19	8.20	8.38	....	....	9.75	10.15	10.27	10.14	10.07
12	9.16	8.70	9.19	8.20	8.40	....	....	9.75	10.14	10.27	10.14	10.06
13	9.11	8.70	9.15	8.20	8.41	....	....	9.75	10.13	10.27	10.14	10.05
14	9.02	8.70	9.11	8.14	8.42	....	....	9.76	10.12	10.27	10.14	10.02
15	9.02	8.70	9.10	8.12	8.43	....	....	9.79	10.11	10.28	10.14	9.98
16	8.98	8.70	9.00	8.12	8.45	....	9.51	9.81	10.11	10.29	10.12	9.92
17	8.98	8.67	8.80	8.15	8.45	....	9.57	9.81	10.11	10.30	10.13	9.86
18	8.94	8.72	8.73	8.15	8.43	....	9.61	9.82	10.12	10.31	10.14	9.82
19	8.89	8.75	8.62	8.11	8.42	8.68	9.66	9.84	10.12	10.33	10.15	9.79
20	8.86	8.75	8.55	8.07	8.42	8.73	9.69	9.86	10.13	10.35	10.15	9.75
21	8.85	8.73	8.51	8.07	8.44	8.77	9.69	9.87	10.13	10.36	10.15	9.72
22	8.83	8.80	8.49	8.08	8.44	8.80	9.69	9.88	10.14	10.36	10.15	9.71
23	8.84	8.84	8.47	8.09	8.44	8.81	9.69	9.88	10.15	10.36	10.14	9.70
24	8.84	8.87	8.46	8.13	8.50	....	9.62	9.91	10.15	10.36	10.12	9.70
25	8.81	8.89	8.42	8.15	8.50	....	9.59	9.92	10.15	10.36	10.09	9.70
26	8.82	8.91	8.37	8.15	8.51	....	9.58	9.97	10.15	10.36	10.05	9.70
27	8.82	8.95	8.27	8.17	8.55	....	9.56	10.01	10.15	10.36	10.04	9.68
28	8.79	9.00	8.14	8.20	8.56	....	9.59	10.05	10.15	10.36	10.02	9.68
29	8.80	....	8.05	8.22	....	....	9.62	10.10	10.17	10.35	10.01	9.69
30	8.80	....	8.00	8.23	....	....	9.67	10.13	10.19	10.31	10.01	9.70
31	8.80	....	8.02	....	....	....	9.71	10.16	....	10.25	....	9.72

AA-Bb 18. William J. Harris. 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 11	21.40	June 19	20.49	Sept. 3	20.14	Nov. 24	21.35
25	21.29	26	19.12	Oct. 13	20.98	Dec. 29	20.61

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 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: 1949-53.

Feb. 11	114.75	Apr. 16	111.52	Sept. 3	116.56	Nov. 23	115.91
25	119.48	June 18	111.44	Oct. 12	115.51	Dec. 30	119.84
Mar. 17	112.98	July 14	111.84				

AA-Df 14. U. S. Naval Academy. 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 83.87 below lsd, Sept. 2, 1952. Records available: 1946-53.

Feb. 9	74.29	Apr. 16	72.18	Sept. 2	75.33	Nov. 23	71.54
25	68.93	June 18	73.38	Oct. 12	74.08	Dec. 30	69.29
Mar. 17	73.84	July 14	70.20				

AA-Ef 3. C. 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: 1946-53.

Feb. 9	5.62	Apr. 16	5.46	Sept. 2	6.55	Nov. 23	6.04
25	6.28	June 18	5.36	Oct. 12	6.02	Dec. 30	6.03
Mar. 17	5.52	July 14	5.95				

Baltimore County

Bal-Cb 2. H. F. Schaefer. Near Woodensburg. Lat. 39°31'13", long. 76°49'12". Dug unused water-table well in Peters Creek quartzite, diameter 4 feet, reported depth 60 feet. Land-surface datum is 710 feet above msl. Highest water level 32.90 below lsd, May 13, 1952; lowest 45.44 below lsd, Nov. 28, 1950. Records available: 1949-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	36.14	Mar. 20	34.86	May 19	36.19	June 9	37.14
27	33.75	Apr. 22	34.96	26	36.64	July 20	38.55
Feb. 17	35.22						

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 used for forest fire prevention, 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: 1944-53.

Jan. 13	4.17	Mar. 30	4.18	July 29	4.24	Nov. 9	4.30
26	4.12	Apr. 27	4.07	Sept. 1	4.53	Dec. 10	3.90
Mar. 16	3.98	June 12	4.18	Oct. 9	4.63	23	4.22

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 56.10 below lsd, May 1, 1952; lowest 64.55 below lsd, Dec. 28, 1950. Records available: 1944-53.

Jan. 13	57.14	Mar. 30	57.68	July 29	58.37	Nov. 9	59.27
26	57.23	Apr. 27	57.80	Sept. 1	56.60	Dec. 10	56.92
Mar. 16	60.25	June 12	56.33	Oct. 9	60.50	23	57.33

Bal-Fe 19. Paul Jones & Co., Inc. Dundalk. Baltimore & Ohio Railroad and 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 76.14 below lsd, July 28, 1952; lowest 97.42 below lsd, June 9, 1951. Records available: 1944-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	92.12	90.26	91.57	92.44	.....	.....	91.26	88.85	92.11	91.60	88.27	90.06
2	91.29	90.62	92.11	92.60	.....	.....	91.05	85.80	92.76	91.73	88.39	91.18
3	91.38	91.26	92.95	92.97	.....	.....	91.32	86.65	93.07	91.73	89.45	91.13
4	90.67	91.69	93.10	92.98	.....	.....	90.91	88.53	93.39	89.11	90.15	91.12
5	90.63	94.38	93.99	91.23	.....	.....	88.51	88.54	93.24	88.69	90.62	90.92
6	91.65	92.71	94.97	90.40	.....	.....	89.27	88.87	90.73	89.80	90.81	89.93
7	91.90	92.55	94.73	91.47	.....	.....	90.40	88.90	88.49	90.59	90.82	89.55
8	92.32	91.62	91.63	94.32	.....	.....	91.00	88.08	89.72	91.10	88.98	90.27
9	92.31	90.63	93.26	94.88	.....	.....	91.43	85.96	90.78	91.28	90.47	90.68
10	91.95	92.47	95.09	93.71	.....	.....	91.53	85.97	91.87	91.15	90.98	90.41
11	91.55	92.56	95.17	92.54	.....	.....	90.90	87.21	90.60	89.00	92.80	90.52
12	92.10	92.88	94.18	91.07	.....	.....	88.56	87.72	91.40	90.20	92.46	91.08
13	91.00	93.26	94.45	91.05	.....	92.57	86.51	87.92	89.71	95.62	92.77	88.40
14	91.07	93.05	94.19	92.01	.....	90.30	84.84	88.01	90.14	96.33	92.77	88.28
15	91.34	90.67	92.52	92.64	.....	90.97	83.90	87.28	90.87	95.18	90.42	88.83
16	91.96	91.15	91.80	92.99	.....	92.15	83.22	86.32	91.08	95.37	89.97	89.60
17	94.39	92.03	92.35	93.27	.....	94.40	82.86	87.39	91.36	96.23	91.92	89.82
18	93.97	92.22	92.61	93.19	.....	95.01	81.79	88.45	91.51	91.70	91.65	90.16
19	91.19	92.41	92.98	91.78	.....	93.90	81.08	89.68	91.20	90.95	91.82	90.17
20	91.88	92.53	93.20	90.97	.....	93.00	81.83	89.99	88.55	90.91	92.70	87.33
21	91.94	92.48	93.64	.....	.....	90.70	84.52	90.91	88.92	91.18	91.94	89.34
22	91.72	90.45	91.45	.....	.....	89.65	85.19	90.99	90.18	91.18	90.87	90.43
23	91.50	89.93	89.62	.....	.....	91.37	83.16	89.05	90.62	92.74	89.75	90.48
24	91.41	91.19	91.61	.....	.....	92.93	83.11	90.11	90.94	91.35	89.96	89.75
25	90.96	91.85	91.87	.....	.....	92.43	82.91	91.20	90.94	88.22	.....	92.79
26	90.70	92.45	92.48	.....	.....	92.34	82.79	91.95	90.52	89.65	.....	94.66
27	91.26	92.83	92.58	.....	.....	91.44	86.43	92.11	88.37	90.33	90.52	95.37
28	91.65	92.75	92.50	.....	.....	89.74	88.01	92.17	88.82	90.72	90.52	.....
29	91.99	.....	90.36	.....	.....	89.40	89.20	91.87	90.07	90.98	89.48	.....
30	92.04	.....	90.90	.....	.....	90.85	90.58	90.40	90.95	91.25	89.01	.....
31	91.98	.....	92.10	.....	.....	.....	90.58	90.80	.....	90.95	.....	.....

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: 1943-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	45.81	June 12	46.58	Sept. 1	46.53	Nov. 9	44.73
Mar. 30	45.53	July 29	45.19	Oct. 9	46.08	Dec. 23	44.65

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 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, 1949-53.

Jan. 26	95.79	June 12	97.65	Sept. 1	99.77	Nov. 9	111.77
Mar. 30	106.88	July 29	93.15	Oct. 8	101.71	Dec. 23	101.28

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 283-304. Land-surface datum is 10 feet above msl. Highest water level 48.54 below lsd, June 6, 1950; lowest 100.40 below lsd, June 12, 1953. Records available: 1943-53. Jan. 26, 82.40; Mar. 30, 76.28; June 12, 100.40; Nov. 9, 86.77; Dec. 23, 81.13.

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 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: 1943-53.

Jan. 26	52.44	June 12	69.81	Sept. 1	67.63	Nov. 9	55.01
Mar. 30	47.69	July 29	74.41	Oct. 9	62.56	Dec. 23	49.23

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: 1943-53. Jan. 26, 45.97; Mar. 30, 48.22; June 12, 47.65; Sept. 1, 45.76; Oct. 9, 46.91; Nov. 9, 48.00; Dec. 23, 48.70.

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 30.98 below lsd, June 12, 1953. Records available: 1947-53. Jan. 26, 26.39; Mar. 30, 24.55; June 12, 30.98; Aug. 19, 29.55; Dec. 23, 26.37.

Calvert County

Cal-Dc 18. A. Goldstein. Prince Frederick. Lat. 38°32'25", long. 76°34'05". 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: 1947-53. Measurement discontinued.

Feb. 9	19.23	June 18	18.24	Sept. 2	19.03	Nov. 23	19.63
Mar. 17	18.74	July 14	18.76	Oct. 12	19.59	Dec. 29	18.80
Apr. 16	18.87						

Cal-Gd 5. U. S. Navy. Occupied by Tidewater Fisheries Commission. Near Solomons. 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 233-248. Land-surface datum is 10 feet above msl. Highest water level 17.98 below lsd, May 16, 1950; lowest 22.23 below lsd, Sept. 18, 1951. Records available: 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.38	19.26	19.52	18.90	18.95	.....	19.81	20.47	.....	20.80	20.25	20.17
2	19.08	19.27	19.44	18.94	18.90	.....	19.83	20.30	.....	20.95	20.30	20.28
3	18.97	19.23	19.13	19.03	18.82	.....	19.85	20.39	20.66	20.83	20.33	19.88
4	19.29	19.18	19.07	19.04	18.96	.....	19.97	20.26	20.51	20.80	20.53	19.73
5	19.29	19.13	19.51	19.17	19.00	.....	19.90	20.32	20.45	20.71	20.58	20.09
6	19.25	19.01	19.67	19.16	19.00	.....	19.75	20.48	20.70	20.60	20.73	20.06
7	19.46	19.06	19.83	18.84	18.89	.....	20.05	20.30	20.67	20.92	20.81	20.18
8	19.49	19.16	19.52	19.17	18.97	.....	19.85	20.15	20.88	20.90	20.25	20.21
9	19.07	19.20	19.43	18.74	19.07	.....	20.07	20.22	21.00	20.87	20.39	20.28
10	18.99	19.71	19.40	18.83	19.05	.....	20.01	20.37	20.75	20.78	20.34	20.28

Cal-Gd 5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	18.73	19.70	19.53	19.04	19.00	.....	19.99	20.52	20.75	20.53	20.17	20.35
12	19.48	19.04	19.30	18.82	19.15	.....	19.95	20.52	20.66	20.53	20.10	20.86
13	19.35	19.08	19.24	19.06	19.12	.....	19.92	20.46	20.83	20.72	20.20	20.11
14	19.42	19.15	19.37	19.47	19.18	.....	19.96	20.62	20.87	20.62	20.30	19.63
15	19.47	19.07	19.18	19.45	19.23	.....	19.97	20.65	20.84	20.66	20.25	20.02
16	19.44	19.27	19.16	19.34	19.23	.....	20.10	20.41	21.06	20.76	20.25	20.29
17	19.64	19.87	.....	19.32	19.20	.....	20.23	20.33	20.87	20.73	20.20	20.53
18	19.38	19.87	19.10	19.15	.....	.....	20.14	20.63	20.87	20.73	20.24	20.46
19	19.27	19.81	19.13	19.22	.....	19.25	20.12	20.72	20.75	20.66	20.28	20.42
20	19.22	19.86	19.19	19.22	.....	19.34	20.20	20.84	20.70	20.68	20.33	20.19
21	19.19	19.47	19.21	19.38	.....	19.33	20.20	20.78	20.72	20.77	20.24	20.16
22	19.22	19.64	19.12	19.43	.....	19.34	20.04	20.80	20.95	20.52	20.14	19.96
23	18.92	19.74	19.06	19.20	.....	19.43	19.94	20.70	20.94	20.29	19.89	20.09
24	18.80	19.56	18.90	19.36	.....	19.56	20.31	20.78	20.97	20.04	19.92	20.13
25	19.25	19.50	19.05	19.01	.....	19.49	20.38	20.72	20.93	20.88	19.75	19.99
26	19.67	19.22	19.27	19.01	.....	19.56	20.39	20.72	20.79	20.27	19.95	20.00
27	19.51	19.14	19.23	19.09	.....	19.77	20.35	20.55	20.72	20.30	20.11	19.99
28	18.95	18.46	18.97	19.17	.....	19.72	20.50	20.60	20.61	20.25	20.25	20.00
29	19.12	.....	19.09	19.20	.....	19.80	20.50	20.60	20.73	20.20	20.34	19.66
30	19.37	.....	19.22	19.07	.....	15.80	20.40	20.65	20.74	20.66	19.92	19.70
31	19.25	.....	19.17	.....	.....	.....	20.56	20.60	.....	20.52	.....	19.77

Cal-Gd 6. U. S. Navy. Occupied by Tidewater Fisheries Commission. Near Solomons. Lat. 38°19'58", long. 76°27'08". Drilled unused artesian well in Aquia greensand, diameter 8 to 6 inches, depth 493 feet, cased to 472, screen 469-493. Land-surface datum is 10 feet above msl. Highest water level 25.72 below lsd, May 16, 1950; lowest 34.73 below lsd, Sept. 9, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.45	29.34	29.37	29.05	29.66	30.52	32.68	33.98	34.12	33.56	32.71	.....
2	29.18	29.41	29.35	29.18	29.76	30.70	32.71	33.79	34.11	33.70	.....	.....
3	28.94	29.33	29.11	29.32	29.82	30.84	32.80	33.87	34.16	33.62	32.71	.....
4	29.26	29.23	28.99	29.32	30.02	30.83	32.97	33.78	34.07	33.57	32.86	.....
5	29.27	29.22	29.37	29.42	30.06	30.92	32.92	33.75	34.06	33.55	32.95	.....
6	29.21	29.11	29.50	29.45	30.04	31.03	32.78	33.95	34.30	33.44	.....	.....
7	29.36	29.03	29.77	29.10	29.94	31.16	33.03	33.84	34.31	33.62	32.99	.....
8	29.36	29.10	29.48	29.42	30.05	31.23	32.90	33.73	34.57	33.63	32.66	.....
9	28.91	29.20	29.47	29.07	30.15	31.23	33.11	33.68	34.73	33.62	32.84	.....
10	28.78	29.65	29.50	29.08	30.18	31.56	33.16	33.82	34.50	33.50	32.79	.....
11	28.55	29.63	29.63	29.32	30.14	31.66	33.15	33.96	34.48	33.27	.....	.....
12	29.33	28.88	29.50	29.24	30.16	31.66	33.15	33.97	34.35	.....	32.53	.....
13	29.20	28.96	29.41	29.39	30.17	31.50	33.04	33.91	34.32	.....	.....	.....
14	29.31	29.05	29.53	29.83	30.30	31.57	33.12	33.89	34.36	.....	32.72	.....
15	29.34	28.86	29.40	29.88	30.41	31.59	33.21	33.94	34.16	.....	32.67	.....
16	29.28	29.11	29.48	29.75	30.50	31.77	33.36	33.81	34.24	.....	32.73	.....
17	29.46	29.62	29.53	29.70	30.50	31.74	33.50	33.67	34.08	.....	32.65	.....
18	29.21	29.63	29.47	29.57	30.40	31.60	33.40	33.77	34.10	.....	32.63	.....
19	29.13	29.60	29.47	29.65	30.58	31.59	33.36	33.67	33.96	.....	32.60	.....
20	29.06	29.64	29.55	29.65	30.59	31.67	33.45	33.77	33.91	.....	32.60	.....
21	29.05	29.24	29.56	29.85	30.56	31.74	33.48	33.72	33.93	.....	32.49	.....
22	29.09	29.44	29.50	29.61	30.32	31.83	33.38	33.66	34.18	.....	32.43	.....
23	28.86	29.55	29.42	29.60	30.77	31.93	33.41	33.66	34.19	.....	.....	.....
24	28.68	29.36	29.17	29.89	30.83	32.07	33.79	33.75	34.19	.....	.....	.....
25	29.15	29.21	29.22	29.60	30.81	32.14	33.92	33.77	34.08	.....	.....	.....
26	28.66	28.91	29.36	29.61	30.70	32.25	33.97	33.82	33.83	.....	.....	.....
27	29.53	28.86	29.34	29.76	31.01	32.53	33.90	33.75	33.68	32.96	.....	.....
28	29.04	29.21	29.12	29.88	31.32	32.51	33.97	33.80	33.56	32.79	.....	.....
29	29.21	.....	29.23	29.66	31.26	32.61	33.97	33.86	33.61	32.55	.....	.....
30	29.44	.....	29.30	29.89	31.02	32.14	33.90	33.92	33.57	33.05	.....	.....
31	29.32	.....	29.27	.....	30.68	.....	34.06	33.93	.....	.....	.....	.....

Carroll County

Car-Bb 1. Mrs. Joe Elliott. 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, 1949; lowest 7.06 below lsd, Nov. 2, 1953. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	2.07	Apr. 21	2.62	Aug. 4	6.12	Nov. 2	7.06
27	1.32	May 4	2.70	Sept. 1	6.30	17	6.61
Feb. 2	2.57	June 3	2.07	14	5.53	Dec. 2	6.28
Mar. 10	2.04	July 16	5.61	30	6.36	29	2.81
Apr. 13	1.75	21	5.91	Oct. 8	6.77		

Car-Bf 1. Town of Hampstead. Hampstead. Lat. 39°36'40", long. 76°51'00". Drilled unused water-table well in Wissahickon formation, diameter 8 inches, reported depth 400 feet. Land-surface datum is 933 feet above msl. Highest water level 52.30 below lsd, May 13, 1952; lowest 76.03 below lsd, Dec. 14, 1949. Records available: 1946-47, 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	66.23	60.60	61.05	.....	.....	61.84	63.95	66.58	68.64	70.18	71.70	72.71
2	66.22	60.82	61.16	.....	59.00	61.90	63.95	66.67	68.70	70.25	71.72	72.74
3	65.94	.....	61.20	.....	59.33	61.99	64.07	66.76	68.79	70.30	71.77	72.77
4	65.86	.....	60.98	.....	59.46	62.00	64.18	66.79	68.89	70.34	71.82	72.81
5	65.86	.....	60.97	.....	59.46	62.04	64.23	66.85	68.97	70.37	71.86	.....
6	65.90	.....	61.03	.....	59.51	62.13	64.24	66.95	69.00	70.42	71.89	.....
7	65.92	.....	61.20	.....	59.51	62.20	64.37	67.01	69.04	70.50	71.92	.....
8	65.92	.....	61.12	.....	59.58	62.30	64.45	67.07	69.10	70.55	71.96	.....
9	65.85	.....	61.21	.....	59.76	62.31	64.60	67.10	69.12	70.59	71.98	.....
10	65.80	.....	61.32	.....	59.85	62.43	64.72	67.21	69.14	70.63	71.98	.....
11	65.58	.....	61.42	.....	59.96	62.52	64.80	67.31	69.14	70.68	72.10	.....
12	65.28	.....	61.42	.....	60.11	62.56	64.86	67.37	69.15	70.75	72.10	.....
13	65.15	.....	61.28	.....	60.22	62.56	64.95	67.43	69.19	70.82	72.14	.....
14	64.89	.....	61.24	.....	60.28	62.65	65.04	67.46	.....	70.87	72.17	.....
15	64.66	.....	61.20	.....	60.40	62.74	65.15	67.55	69.28	70.90	72.21	.....
16	64.40	.....	61.09	.....	60.48	62.80	65.23	67.60	69.33	70.96	72.24	.....
17	64.25	.....	61.09	.....	60.49	62.81	65.28	67.67	69.40	71.01	72.27	.....
18	63.89	60.86	61.07	.....	60.50	62.87	.....	67.73	69.48	71.07	72.31	.....
19	63.53	61.04	60.75	.....	60.62	62.97	.....	67.78	69.51	71.12	72.35	.....
20	63.22	61.08	60.89	.....	60.80	63.04	.....	.....	69.56	71.16	72.37	.....
21	63.01	61.04	60.92	.....	60.89	63.12	65.60	.....	69.64	71.20	72.41	.....
22	62.75	61.19	60.92	.....	60.88	63.23	65.65	.....	69.72	71.24	72.45	.....
23	62.67	61.26	60.87	57.93	61.07	63.34	65.73	.....	69.79	71.26	72.47	.....
24	62.32	61.22	60.59	58.25	61.18	63.47	65.90	68.10	69.85	71.31	72.49	.....
25	.....	61.02	.....	58.24	61.27	63.55	66.00	68.17	69.88	71.37	72.52	.....
26	.....	60.86	.....	58.22	61.20	63.63	66.06	68.23	69.92	71.40	72.55	.....
27	61.90	60.72	.....	58.41	61.51	63.75	66.13	68.28	69.95	71.45	72.57	.....
28	61.47	60.81	.....	.....	61.71	63.80	66.25	68.34	70.02	71.54	72.61	.....
29	61.27	.....	.....	.....	61.78	63.89	66.32	68.40	70.09	71.68	72.65	.....
30	61.23	.....	.....	.....	61.74	63.92	66.41	68.48	70.12	71.64	72.68	71.40
31	61.13	.....	.....	.....	61.75	.....	66.50	68.56	.....	71.66	.....	71.40

Charles County

Ch-Bf 2. Maryland State Police, Barracks "H". Near Mattawoman. Lat. 38°39'06" long. 76°52'50". Dug domestic water-table well in deposits of Pleistocene age, diameter 5 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: 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	14.06	June 19	13.66	Sept. 3	15.22	Nov. 24	15.95
Mar. 18	13.34	July 15	13.70	Oct. 13	15.92	Dec. 30	15.64
Apr. 17	12.83						

Ch-Cb 7. U. S. Navy. Indian Head. Lat. 38°34'24", long. 77°11'48". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 400 feet. Land-surface datum is 36 feet above msl. Highest water level 57.55 below lsd, Apr. 18, 1952; lowest 62.36 below lsd, Oct. 8, 1953. Records available: 1952-53.

Lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 8, 1952	h57.55	Oct. 7, 1953	62.33	Oct. 24, 1953	61.50	Nov. 9, 1953	61.16
Aug. 31, 1953	h61.19	8	62.36	25	61.60	10	61.17
Sept. 22	62.08	9	62.32	26	61.60	11	61.13
23	62.09	10	62.31	27	61.45	12	61.00
24	62.10	11	62.26	28	61.31	13	60.93
25	62.07	12	62.13	29	61.16	14	60.92
26	62.04	13	62.12	30	61.51	15	60.93
27	62.01	14	62.22	31	61.47	16	60.94
28	62.02	15	62.20	Nov. 1	61.36	17	60.94
29	62.06	16	62.24	2	61.25	18	60.90
30	62.07	17	62.31	3	61.27	19	60.86
Oct. 1	62.07	18	62.32	4	61.25	20	60.85
2	62.19	19	62.25	5	61.38	21	60.85
3	62.22	20	62.20	6	61.33	22	60.80
4	62.17	21	62.12	7	61.57	23	60.72
5	62.16	22	61.96	8	61.40	24	60.55
6	62.13	23	61.75				

h Tape measurement.

Ch-Dc 2. Bernward C. Juhle. Near Ironsides. Lat. 38°27'24" long. 77°09'28". Dug farm water-table well in deposits of Pleistocene age, diameter 4 feet, depth 39 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: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	18.52	Apr. 3	15.82	July 5	24.31	Sept. 10	18.63
Feb. 14	17.15	June 15	30.40	Aug. 12	19.26	Oct. 14	19.15
Mar. 10	16.64						

Ch-Ee 16. J. B. Bowling. Wayside. 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 11.74 below lsd, May 1, 1952; lowest 20.65 below lsd, Dec. 20, 1949. Records available: 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	13.07	June 19	14.49	Sept. 3	15.51	Nov. 24	15.73
Mar. 18	12.41	July 15	15.01	Oct. 13	15.75	Dec. 30	15.06
Apr. 17	12.69						

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 32.62 below lsd, Nov. 13, 1952. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	13.92	Feb. 2	11.40	July 23	16.85	Cct. 8	30.87
Mar. 10	11.65	Apr. 15	10.07	Aug. 5	19.55	Nov. 3	22.85
Apr. 21	11.18	May 4	11.95	Sept. 2	30.58	Dec. 2	18.71

Fr-Cg 1. A. B. Potts. Johnsville. Lat. 39°31'58", long. 77°13'56". Dug domestic water-table well in Ijamsville phyllite; diameter 36 inches, depth 43 feet, cribbed with stone. Land-surface datum is 586 feet above msl. Highest water level 32.40 below lsd, Jan. 10, 1949; lowest 41.22 below lsd, Sept. 15, 1953. Records available: 1946-53. Jan. 27, 34.55; Feb. 17, 36.08; Mar. 20, 35.08; Apr. 21, 36.09; May 19, 33.43; July 23, 38.30; Sept. 15, 41.22.

Fr-Ee 1. Mrs. Roy Putman. Near Frederick. Lat. 39°24'10", long. 77°22'42". Dug domestic water-table well in Frederick limestone, diameter 43 inches, depth 58 feet, cribbed with stone. 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, Dec. 29, 1947. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	46.84	Apr. 14	44.20	July 23	45.05	Cct. 7	48.08
Mar. 11	45.43	May 6	44.17	Aug. 5	45.09	Nov. 3	49.08
Apr. 20	44.67	June 1	43.44	Sept. 23	47.50	Dec. 3	50.06
Feb. 3	45.91	29	43.23				

Fr-Fc 1. Montgomery Orrison. Near Point of Pocks. Lat. 39°16'40", long. 77°31'18". Dug domestic water-table well in New Oxford formation. diameter 4 feet, depth 28 feet, cribbed with stone. Land-surface datum is 240 feet above msl. Highest water level 5.50 below lsd, Jan. 13, 1953; lowest 22.97 below lsd, Oct. 10, 1947. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	5.50	May 7	8.33	July 24	12.25	Oct. 5	15.70
Mar. 12	8.71	June 2	8.24	Aug. 7	13.24	Nov. 10	18.23
Apr. 15	6.78	July 17	12.35	26	12.43	Dec. 4	19.52
20	7.96						

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 sandstone, 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: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	7.86	Apr. 20	7.62	July 23	7.85	Nov. 10	8.29
Feb. 10	7.67	May 7	7.48	Aug. 12	8.14	19	8.10
Mar. 16	7.29	June 8	7.60	Sept. 8	8.40	Dec. 10	8.19
Apr. 2	7.36	July 6	7.75	Oct. 14	8.30		

Gar-Bc 1. E. H. Ault. Accident. Lat. 39°37'49", long. 79°19'05". Dug domestic water-table well in Catskill formation, diameter 36 inches, depth 20 feet, cribbed with stone. Land-surface datum is 2,415 feet above msl. Highest water level 8.88 below lsd, Apr. 2, 1953; lowest 19.65 below lsd, Dec. 9, 1953. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	9.11	Apr. 20	11.27	July 6	17.54	Oct. 6	18.60
Feb. 9	11.56	May 6	15.30	Aug. 14	17.77	Nov. 19	19.34
Mar. 5	10.29	June 8	16.30	Sept. 7	18.12	Dec. 9	19.65
Apr. 2	8.88						

Gar-Eb 23. Mrs. Arthur Nally (Tenant: Ray Porter). Oakland. 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 18.62 below lsd, Apr. 29, 1952; lowest dry, Nov. 14, 1952, Oct.-Dec., 1953. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	23.47	Apr. 20	22.17	July 23	34.91	Nov. 9	(f)
Feb. 9	22.25	May 6	25.91	Aug. 12	33.38	19	(f)
Mar. 10	21.67	June 9	27.92	Oct. 6	(f)	Dec. 9	(f)
Apr. 2	20.52	July 7	23.27				

f Dry.

Harford County

Har-Cc 8. Maryland Water Works Co. Bynum. Lat. 39°33'59", long. 76°21'57". Drilled unused water-table well in rocks (gabbro) of Precambrian age, depth 50 feet. Land-surface datum is 410 feet above msl. Highest water level 1.11 below lsd, Jan. 13, 1953; lowest 8.57 below lsd, Sept. 10, 1947. Records available: 1946-53. Jan. 13, 1.11; Feb. 16, 1.26; Mar. 16, 1.28; Apr. 27, 1.32; June 15, 1.22; July 24, 1.37.

Har-Ed 24. U. S. Army. 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 120-135. Land-surface datum is 13 feet above msl. Highest water level 14.43 below lsd, Mar. 14, 1951; lowest 35.37 below lsd, Nov. 7, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.58	33.57	33.22	32.88	33.05	33.83	34.00	33.76	34.02	34.58
2	33.88	33.50	33.34	33.17	33.03	33.60	34.02	34.21	34.03	34.66
3	33.52	33.75	33.42	33.32	33.24	33.77	33.75	34.11	34.06	34.05
4	33.24	33.67	33.55	33.27	33.31	33.39	33.72	33.96	34.40	33.62
5	33.52	33.92	33.54	33.27	33.31	33.66	33.27	33.90	34.59	34.42
6	33.96	33.87	33.64	33.27	33.20	33.80	33.69	33.95	35.27	34.43
7	34.39	33.66	33.23	33.30	33.26	33.38	33.96	34.31	35.37	34.55
8	34.29	34.18	33.31	33.35	33.45	33.48	34.01	34.30	33.62	34.52
9	33.96	33.52	33.41	33.30	33.32	33.26	34.27	33.67	34.37	34.52
10	34.00	33.41	33.41	32.61	33.54	33.56	33.90	33.90	34.35	.....

192 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

Har-Ed 24--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	34.12	33.80	33.35	33.00	33.40	33.73	33.60	33.85	34.15	.....
12	33.97	33.67	33.20	33.01	33.37	33.73	33.55	33.55	34.06	34.53
13	33.82	33.63	33.23	32.75	33.25	33.67	34.14	34.20	34.22	.....
14	33.95	34.33	33.37	33.08	33.26	34.27	34.14	34.08	34.37	.....
15	33.83	34.30	33.40	32.95	33.44	34.27	33.73	34.01	34.30	.....
16	33.85	33.85	33.44	33.05	33.49	33.83	33.98	33.90	34.33	.....
17	34.04	33.91	34.12	33.21	32.86	33.65	33.72	34.05	34.24	34.25	.....
18	34.15	33.89	33.76	33.15	33.03	33.66	33.82	33.82	33.97	34.25	.....
19	33.70	33.75	34.06	33.26	33.03	33.43	33.82	33.80	34.05	34.33	34.65
20	33.86	33.95	34.06	33.27	33.01	33.27	33.82	33.46	33.96	34.38	.....
21	33.26	33.95	33.35	33.27	32.96	33.25	33.83	33.70	34.29	34.27	34.50
22	33.69	33.94	33.41	32.97	33.05	33.31	33.61	34.17	34.13	34.20	.....
23	33.75	33.94	33.38	33.66	33.06	32.92	33.53	34.14	33.80	33.93	34.39
24	33.29	33.70	33.73	33.67	33.34	33.47	33.33	34.07	33.66	34.11	34.53
25	33.20	33.88	33.48	33.24	33.12	33.75	33.87	33.94	34.06	33.80	34.05
26	32.92	34.11	33.27	33.27	32.86	33.56	33.82	33.88	34.07	34.00	34.38
27	32.56	34.07	33.58	33.52	33.15	33.50	33.75	33.88	33.78	34.38	34.28
28	33.48	33.54	33.60	33.88	33.30	33.73	33.85	33.91	33.82	34.53	34.15
29		33.80	33.69	33.75	33.01	33.73	33.88	33.93	33.80	34.76	33.95
30		34.24	33.59	33.08	33.16	33.55	33.91	33.92	34.45	34.22	34.01
31		33.99		33.16		33.80	33.81		34.27		34.16

Howard County

How-Bd 1. S. D. Slack. Slack's Corner. Lat. 39°18'10", long. 76°57'56". Dug domestic and stock water-table well in Wissahickon formation, diameter 5 to 4 feet, depth 48 feet, cribbed with stone. Land-surface datum is 630 feet above msl. Highest water level 30.28 below lsd, July 5, 1952; lowest 45.84 below lsd, Feb. 16, 1948. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	34.39	Apr. 13	31.31	July 20	32.59	Nov. 9	36.96
Feb. 9	33.55	20	31.16	Aug. 12	33.34	13	36.81
11	33.27	May 6	30.85	Sept. 14	35.00	Dec. 8	37.59
23	32.84	June 8	31.43	Oct. 8	35.65	29	38.81
Mar. 9	32.83	12	31.24	Nov. 5	36.64		

Montgomery County

Mont-Be 1. Mount Lebanon Church. Near Damascus. Lat. 39°16'46", long. 77°10'05". Drilled unused water-table well in Ijamsville phyllite, 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 44.67 below lsd, Dec. 29, 1953. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	31.33	Apr. 20	24.59	Sept. 4	37.70	Nov. 13	42.50
Feb. 11	30.20	June 12	28.02	23	39.40	Dec. 29	44.67
Mar. 23	27.68	July 20	32.06	Oct. 1	39.94		

Mont-Cf 1. Village of Mount Zion. Mount Zion. Lat. 39°11'00", long. 77°06'09". Dug public-supply water-table well in rocks of Precambrian age, diameter 36 inches, depth 26 feet, cribbed with stone. Highest water level 6.20 below lsd, Mar. 22, 1953; lowest 15.98 below lsd, Nov. 6, 1951. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	6.96	Mar. 22	6.20	July 20	10.64	Nov. 13	15.26
Feb. 11	7.08	Apr. 20	9.24	Sept. 4	13.34	Dec. 29	12.22
20	6.90	June 12	8.13	23	13.80		

Mont-Dc 1. J. D. Byrd. 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 2.17 below lsd, Feb. 6, 1952; lowest 17.10 below lsd, Oct. 24, 1949. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	2.90	Mar. 23	2.86	Sept. 4	14.79	Nov. 13	15.18
Feb. 11	4.06	Apr. 20	4.02	23	15.93	Dec. 29	4.50
20	3.35	June 12	8.11				

Mont-De 1. Washington Suburban Sanitary Commission. Gaithersburg. Lat. 39°08'31", long. 77°12'18". Drilled unused water-table well in Wissahickon formation, diameter 6 inches, depth 81 feet. Land-surface datum is 460 feet above msl. Highest water level 5.50 below lsd, June 1, 1953; lowest 57.00 below lsd, Aug. 25, 1948. Records available: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	5.95	Mar. 2	6.73	June 12	7.40	Oct. 1	14.50
27	5.93	Apr. 8	5.89	July 6	10.00	Nov. 2	14.89
Feb. 9	6.53	May 5	6.00	Sept. 4	21.00	30	12.25
11	6.33	June 1	5.50	23	14.51	Dec. 29	10.28

Mont-Ef 8. City of Rockville. Rockville. Lat. 39°04'39", long. 77°08'16". Drilled unused water-table well in Peters Creek quartzite, 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 1953.

Mont-Ef 9. City of Rockville. Rockville. Lat. 39°04'50", long. 77°07'48". Drilled unused water-table well in Peters Creek quartzite, 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 1953.

Mont-Eg 1. Walter M. Brown. Near Colesville. Lat. 39°04'00", long. 77°01'31". Dug unused water-table well in Wissahickon formation, depth 20 feet, lined with loose stones. Land-surface datum is 280 feet above msl. Highest water level 8.96 below lsd, Apr. 28, 1952; lowest 18.41 below lsd, Oct. 6, 1932. Records available: 1932-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.95	11.72	12.81	12.78	14.78	16.17	16.85	17.08	17.04	16.65
2	14.01	11.89	12.92	12.81	14.83	16.20	16.89	17.10	17.04	16.65
3	13.46	13.99	12.03	13.06	12.51	14.88	16.25	16.92	17.12	17.03	16.64
4	13.54	13.72	12.12	13.13	13.00	14.96	16.28	16.95	17.13	17.02	16.63
5	13.65	13.80	12.24	13.14	13.11	15.01	16.30	16.92	17.15	17.01	16.62
6	13.69	13.90	12.33	13.16	13.22	15.04	16.34	16.78	17.15	17.01	16.58
7	13.52	13.97	12.36	13.01	13.27	15.10	16.38	16.74	17.16	16.98	16.30
8	13.52	13.98	12.53	13.98	13.37	15.15	16.37	16.77	17.18	16.97	16.36
9	13.65	14.03	12.62	13.04	13.44	15.19	16.28	16.78	17.19	16.95	16.38
10	13.72	14.05	12.60	13.10	13.53	15.27	16.31	16.79	17.19	16.94	16.25
11	13.72	14.11	12.70	13.15	13.61	15.32	16.35	16.79	17.19	16.93	16.25
12	13.64	15.10	12.71	13.21	13.68	15.36	16.37	16.78	17.20	16.92	.....
13	13.74	13.62	12.38	13.27	13.70	15.40	16.39	16.77	17.21	16.91	.....
14	13.82	13.60	12.20	13.23	13.74	15.45	16.40	16.79	17.22	16.88	.....
15	13.47	13.38	12.20	13.23	13.82	15.50	16.41	16.79	17.22	16.86	.....
16	13.40	12.94	12.05	13.31	13.88	15.55	16.43	16.81	17.22	16.84	.....
17	13.45	12.57	12.05	13.09	13.94	15.60	16.45	16.84	17.22	16.83	.....
18	13.54	12.82	12.09	12.76	14.00	15.64	16.47	16.87	17.23	16.82	.....
19	13.56	12.70	12.04	12.70	14.07	15.69	16.49	16.88	17.23	16.81	.....
20	13.57	12.74	12.04	12.47	14.13	15.74	16.51	16.90	17.23	16.81	.....
21	13.52	12.79	12.16	12.41	14.19	15.79	16.54	16.92	17.23	16.80	.....
22	13.64	12.81	12.29	12.39	14.25	15.82	16.57	16.95	17.23	16.79	.....
23	13.71	12.81	12.33	12.43	14.32	15.76	16.59	16.98	17.23	16.71	.....
24	13.72	12.41	12.52	12.57	14.39	15.88	16.61	16.99	17.22	16.69	.....
25	13.72	.....	12.55	12.66	14.45	15.94	16.65	17.00	17.22	16.67	.....
26	13.73	11.54	12.53	12.70	14.51	15.97	16.67	17.00	.....	16.67	.....
27	13.78	11.50	12.59	12.86	14.58	16.00	16.70	17.01	.....	16.67	.....
28	13.87	11.49	12.74	13.02	14.64	16.03	16.73	17.03	.....	16.67	.....
29	11.54	12.84	13.12	14.68	16.07	16.76	17.04	.....	16.67	.....
30	11.60	12.86	13.14	14.73	16.11	16.79	17.07	.....	16.66	.....
31	11.67	.....	13.01	.....	16.14	16.82	.....	.....	.....	.....

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 179 feet above msl. Highest water level 11.56 below lsd, Apr. 17, 1953; lowest 17.06 below lsd, Sept. 22, 1951. Records available: 1949-53.

Feb. 10	12.76	Apr. 17	11.56	July 15	15.30	Oct. 13	16.79
Mar. 18	12.07	June 19	13.73	Sept. 3	16.39	Dec. 29	14.10

PG-Bd 17. Beltsville Research Center. 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 124 feet above msl. Highest water level 20.60 below lsd, May 26, 1952; lowest 23.91 below lsd, Sept. 16, 1949. Records available: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	21.48	June 19	21.68	Sept. 3	23.20	Nov. 24	21.98
Mar. 18	21.17	July 15	22.45	Oct. 13	22.65	Dec. 29	21.95
Apr. 17	20.97						

PG-Cc 3. Southern Oxygen Co., Inc. Bladensburg. 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 7.89 below lsd, Apr. 17, 1953; lowest 10.53 below lsd, Oct. 13, 1953. Records available: 1948-53.

Feb. 10	9.00	June 19	9.96	Sept. 3	10.32	Nov. 23	9.99
Mar. 18	8.05	July 15	9.63	Oct. 13	10.53	Dec. 29	9.50
Apr. 17	7.89						

PG-Df 2. Dr. Bowie. Near Leeland. 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, Apr. 16, 1953; lowest 75.56 below lsd, Nov. 19, 1951. Records available: 1948-53.

Feb. 9	73.21	June 18	72.47	Sept. 2	72.90	Nov. 23	73.12
Mar. 17	72.77	July 14	72.27	Oct. 12	73.13	Dec. 29	73.39
Apr. 16	72.25						

PG-Ef 1. Southern Maryland Agricultural Fair Assoc. Upper Marlboro. Lat. 38°48'41", long. 76°44'34". Drilled industrial artesian well in Magothy formation, diameter 8 inches, depth 235 feet. Land-surface datum is 32 feet above msl. Highest water level 4.36 above lsd, Mar. 23, 1949; lowest 1.40 above lsd, Feb. 10, 1953. Records available: 1947-53. Feb. 10, +1.40; Apr. 16, +1.94; June 18, +1.75. Measurement discontinued.

St. Marys County

St. M. -Df 26. Thomas K. Clark. Near California. 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, lined with brick and cement. Land-surface datum is 110 feet above msl. Highest water level 50.57 below lsd, June 6, 1949; lowest 54.37 below lsd, Jan. 16, 1952. Records available: 1947-53.

Feb. 9	53.62	June 18	52.91	Sept. 2	53.36	Nov. 23	53.91
Mar. 17	53.18	July 15	53.14	Oct. 13	53.87	Dec. 30	54.23
Apr. 16	52.84						

St. M. -Ef 27. J. A. Coad. 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 14.21 below lsd, Oct. 13, 1953. Records available: 1949-53.

Feb. 10	10.11	June 19	11.13	Sept. 3	13.46	Nov. 24	13.69
Mar. 17	9.70	July 15	12.53	Oct. 13	14.21	Dec. 30	13.18
Apr. 16	9.68						

St. M. -Eg 3. Mrs. J. W. Elms. Near St. James. 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: 1947-53.

Feb. 10	16.18	June 18	15.75	Sept. 3	16.15	Nov. 24	16.00
Mar. 17	15.75	July 15	16.08	Oct. 13	15.85	Dec. 30	16.03
Apr. 16	15.66						

Washington County

Wa-Ac 1. Susan Creager. 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 55.83 below lsd, Nov. 19, 1953. Records available: 1946-53.

Jan. 20	47.60	Apr. 21	50.05	July 23	54.11	Nov. 16	54.62
Feb. 11	51.25	May 4	52.70	Aug. 3	54.39	19	55.83
Mar. 9	51.35	June 19	53.53	31	54.69	Dec. 4	54.63
Apr. 3	50.07	30	54.01	Sept. 30	54.69	30	54.75

Wa-Be 2. State of Maryland. 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 18.24 below lsd, Apr. 1, 1953; lowest 35.55 below lsd, Dec. 15, 1953. Records available: 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	21.37	Apr. 21	22.10	July 23	31.20	Oct. 3	34.69
15	23.35	May 2	24.79	24	31.46	16	34.90
Mar. 2	22.13	16	27.42	Aug. 1	32.21	Nov. 3	35.17
16	22.90	June 4	21.80	17	33.50	19	35.37
Apr. 1	18.24	16	24.13	Sept. 7	33.19	Dec. 15	35.55
18	21.57	July 15	30.29	18	34.39		

Wa-Bh 3. Garland Groh. Formerly Mel Sword. (Tenant: M. M. Pike). Near Hagerstown. 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 40.75 below lsd, Nov. 13, 1952. Records available: 1946-53.

Jan. 6	27.33	Apr. 14	23.69	June 5	19.46	Aug. 4	35.07
Feb. 6	20.26	21	24.65	30	34.53	Sept. 8	38.93
Mar. 12	23.34	May 5	34.52	July 23	38.34	Oct. 6	40.20

Wa-Dh 1. John Murphy. Sharpsburg. Lat. 39°27'23", long. 77°45'08". Dug domestic water-table well in Conococheague limestone, diameter 36 inches, depth 29 feet, cribbed with stone. 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: 1946-53.

Jan. 9	21.85	Apr. 20	24.82	July 24	25.36	Oct. 5	26.45
Feb. 5	24.43	May 5	25.45	Aug. 6	25.50	Nov. 5	26.07
Mar. 9	25.22	June 4	25.35	Sept. 9	25.45	Dec. 4	26.56
Apr. 15	24.03	30	25.39				

EASTERN SHORE

By D. H. Boggess

Scope of Water-Level Program

The program of ground-water investigations of the Eastern Shore, begun in 1949, in cooperation with the Maryland Department of Geology, Mines and Water Resources, was continued in 1953. Measurements were made in 36 wells, 5 of which are equipped with recording gages. Of this group 24 are water-table wells in sand and gravel of Pleistocene age; 1 water-table well is in weathered rock probably of granitic-gabbroid origin; 1 artesian well is in sand of Pleistocene age; 2 artesian wells are in sand of Miocene age; 7 artesian wells are in sand of Eocene age; and 1 artesian well is in sand of Cretaceous age. Figure 31 shows the location of the observation wells in the Eastern Shore of Maryland.

Precipitation

The mean annual precipitation for 1953 computed from U. S. Weather Bureau records for 15 stations of the Eastern Shore was 45.22 inches. This is 2.07 inches more than the average precipitation for 38 years of record.

Average precipitation for 15 stations and departure from normal in 1953

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Precipitation	4.30	2.94	5.57	4.22	5.43	2.62	3.38	5.55	2.41	2.95	2.54	3.30
Departure	+0.83	-0.17	+1.87	+0.70	+1.76	-1.15	-1.21	+0.83	-1.01	-0.15	-0.31	+0.10

Pumpage

Average daily pumpage in millions of gallons:

Cambridge "400-foot" aquifer: Jan. 2.09; Feb. 1.96; Mar. 1.98; Apr. 2.72; May 3.12; June 3.84; July 3.79; Aug. 3.98; Sept. 4.27; Oct. 3.76; Nov. 2.83; Dec. 2.33.

Salisbury: Jan. 1.87; Feb. 1.90; Mar. 1.95; Apr. 2.07; May 2.62; June 3.48; July 4.76; Aug. 4.20; Sept. 3.47; Oct. 2.43; Nov. 1.97; Dec. 1.94.

Estimated pumpage at Rising Sun: 50,000 gallons per day.

Estimated pumpage from the West Denton "90- to 140-foot" aquifer: 400,000 gallons a day.

Interpretation of Water-Level Fluctuations

Monthly averages of water-levels in 14 water-table wells selected for areal representation and length of record showed an average rise in water level of 1.26 feet from January to April. The average water level declined 2.93 feet from April to August as a result of normal ground-water depletion when evaporation-transpiration rates are high. The average water level rose 0.53 foot during August when recharge by an average precipitation of 0.83 inch above normal was recorded. A decline in the average water level of 0.96 foot was measured during September and October when recharge by an average precipitation of 1.16 inches below normal was recorded. The average water level rose 1.37 feet during November and December as a result of greater recharge to the water table by precipitation when evapotranspiration losses are low.

Water-level records are maintained on 5 wells to the "400-foot" aquifer at Cambridge. The wells in order of increasing distance from the center of pumpage are: Dor-Ce 22, Dor-Bd 2, Tal-Ed 6, Dor-Dd 6, and Dor-Ed 1. Fluctuation of water levels in these wells in response to pumping from the Cambridge well field is shown in figure 32. Well Tal-Ed 6, about 6 miles north of the center of pumping at Cambridge, may also respond to pumping from the "400-foot" aquifer at Trappe, 3.4 miles east of the observation well. Well Dor-Ed 1, about 15 miles south of

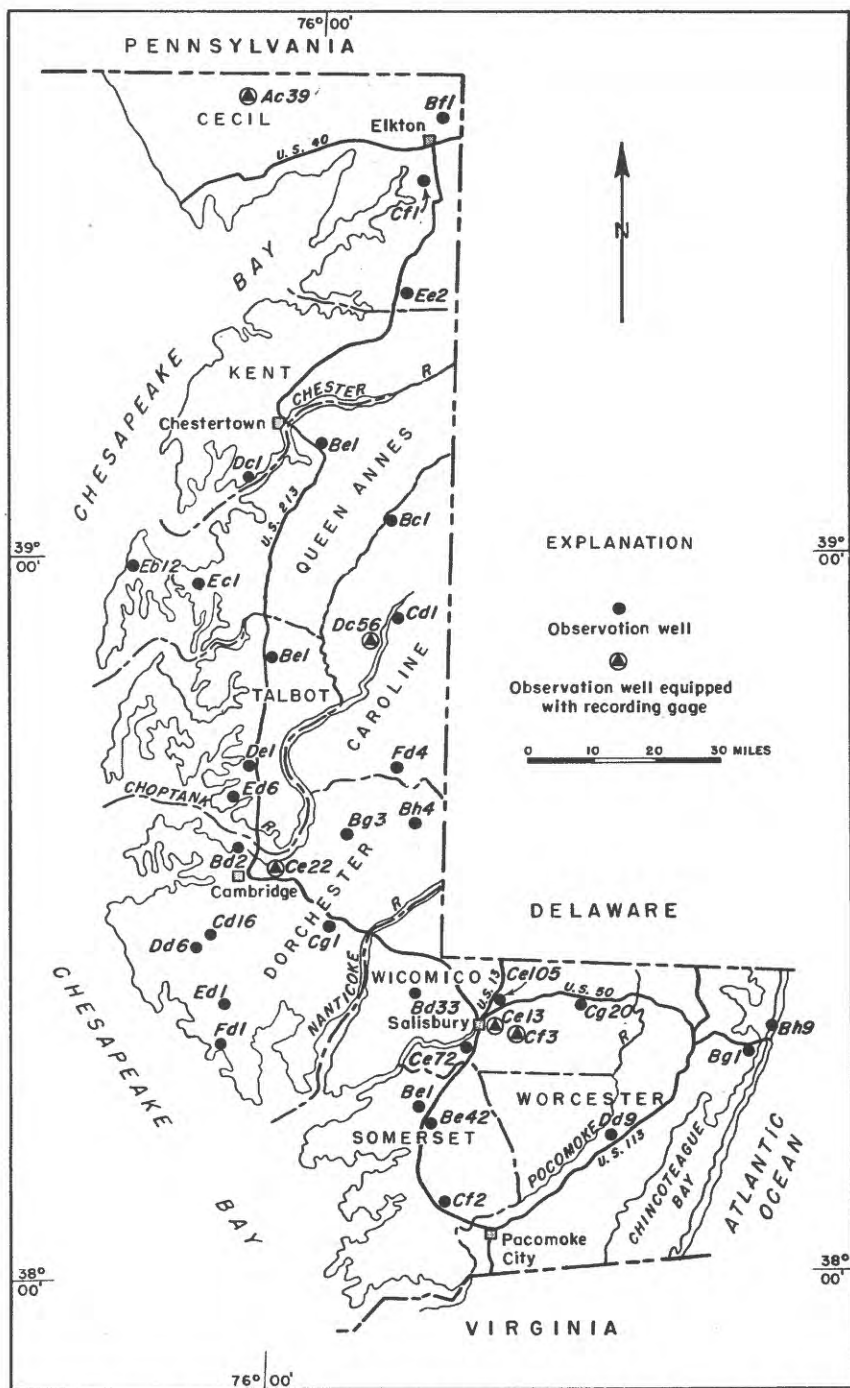


Figure 31.--Location of observation wells on Eastern Shore, Md., 1953.

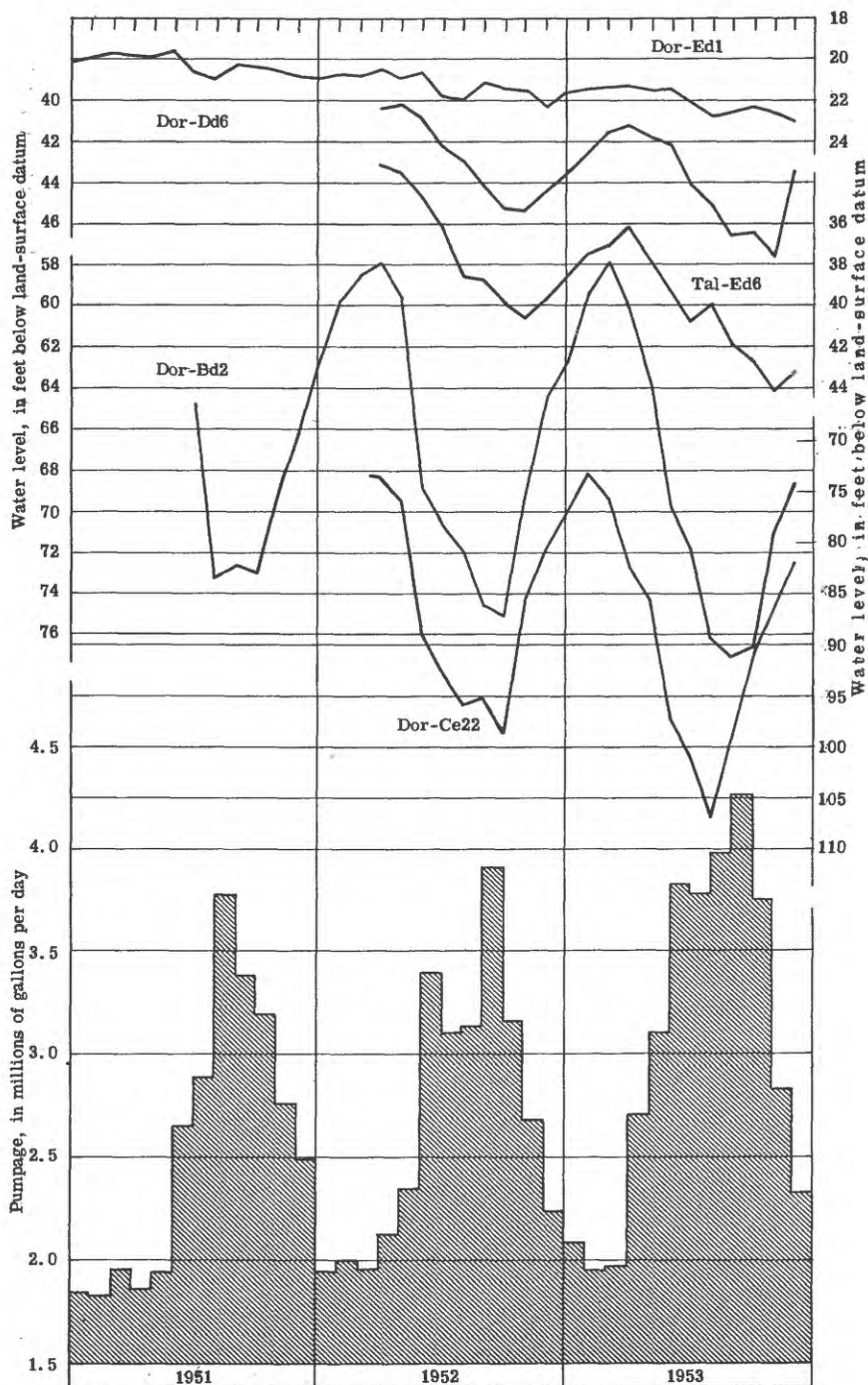


Figure 32. --Water levels in 5 wells and pumpage in the "400-foot" aquifer at Cambridge, Md., 1951-53.

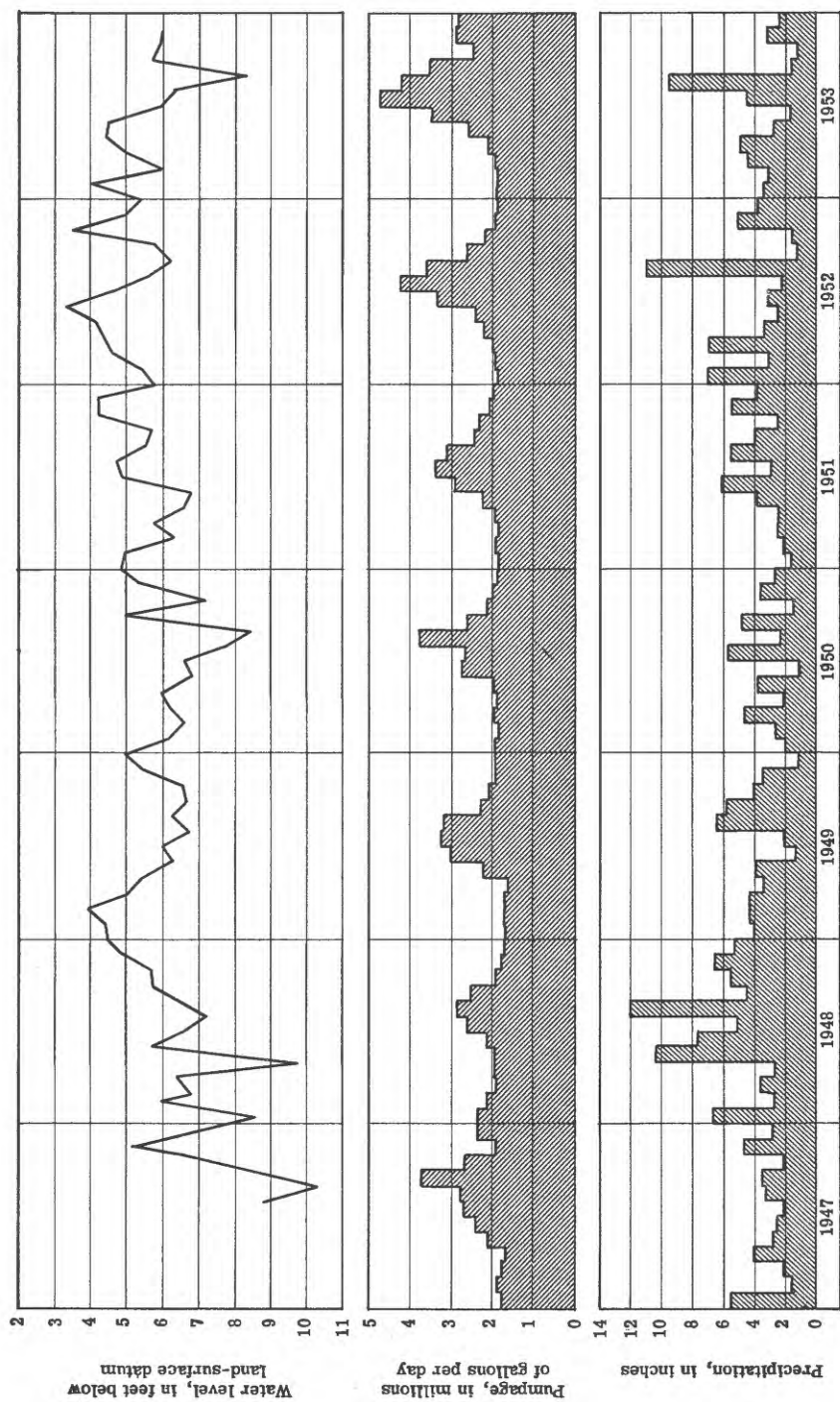


Figure 33. --Water level in well W1-Ce 13, pumpage, and precipitation at Salisbury, Md., 1947-53.

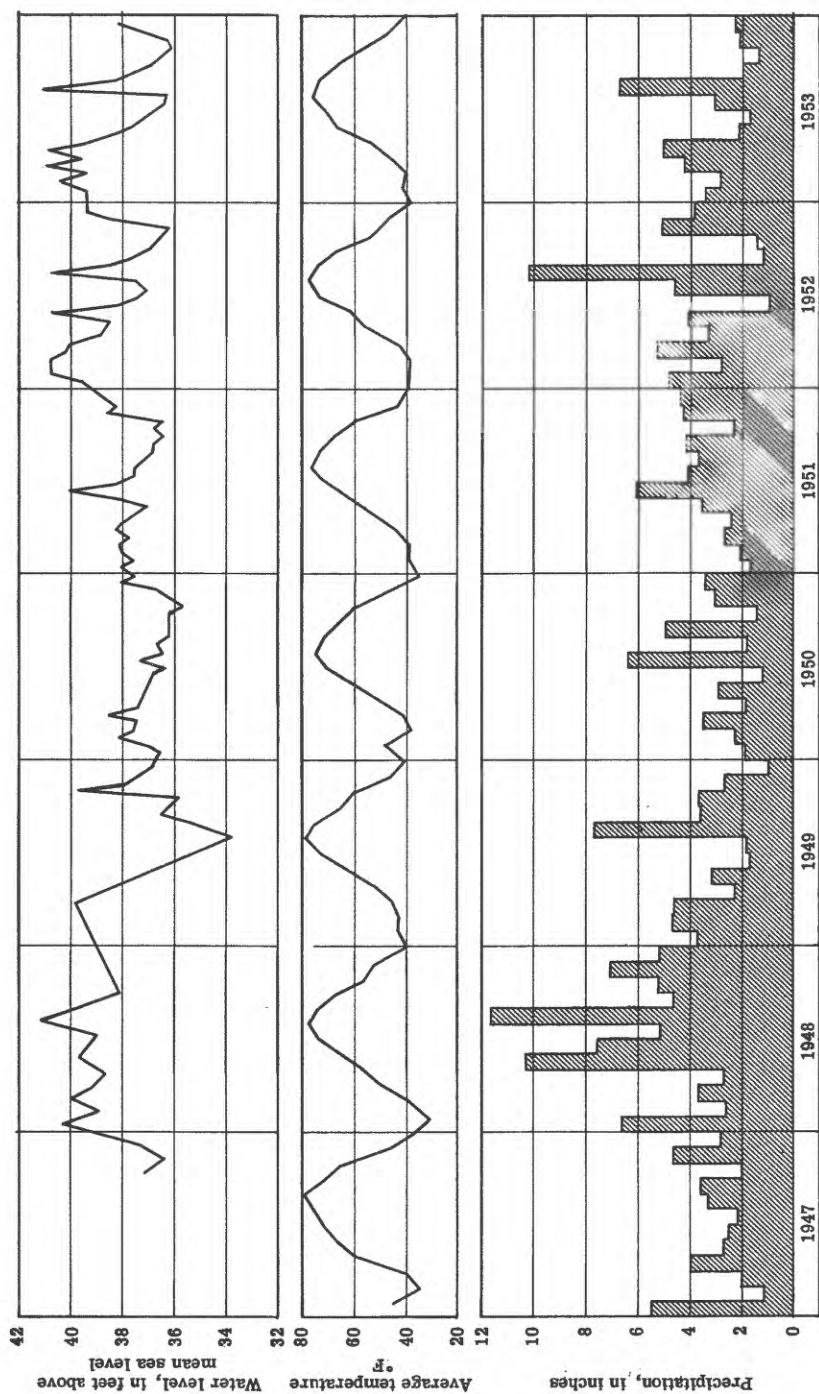


Figure 34. --Water level in well WI-Cf 3, average temperature, and precipitation at Salisbury Airport, Md., 1947-53.

Cambridge may also respond to seasonal pumping from the "400-foot" aquifer at the Robbins Brothers Cannery, 1.5 miles southeast of the observation well. Water-level records have been maintained on well Wi-Ce 13 in the Salisbury well field since 1947. Graphs of the water level in this well, pumpage from the Salisbury well field, and precipitation at Salisbury are shown on figure 33. Well Wi-Cf 3 at the Salisbury Airport is unaffected by pumping and shows fluctuations in water level from natural causes. Graphs of the water level in this well, temperature, and precipitation at the Salisbury Airport, are shown on figure 34. Well Care-Dc 56, to the "90 to 140-foot" aquifer at West Denton, showed a general downward trend in water level from January to September 28 for a total drop of 7.9 feet, chiefly in response to pumping at the chicken-processing plant. From September 28 to December 30, the water level rose 3.5 feet but was still 4.4 feet below the level of December 31, 1952, and 13.0 feet below the level of December 31, 1951.

Well-Numbering System

The numbers assigned to the observation wells on the Eastern Shore indicate their approximate location. 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; and "c" indicates the third quadrangle from the left side (west) of the map.

Well Descriptions and Water-Level Measurements

All water-level measurements are in feet above and below land-surface datum with the exception of Wi-Cf 3 and Wi-Ce 105 which are in feet above mean sea level.

Caroline County

Care-Bc 1. W. Colliers. Near Ingleside. Lat. 39°03'27", long. 75°50'46". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 21 feet. Land-surface datum is about 54 feet above msl. Highest water level 0.25 above lsd, Nov. 27, 1951; lowest 4.08 below lsd, Sept. 30, 1953. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	2.98	Apr. 30	3.16	July 31	3.83	Nov. 4	3.79
27	2.91	June 2	2.65	Sept. 1	3.76	30	3.30
Mar. 31	2.77	29	3.64	30	4.08	Dec. 29	2.98

Care-Cd 1. Lane Chicken Farm. Near Denton. Lat. 38°55'18", long. 75°49'14". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 10 feet. Land-surface datum is about 40 feet above msl. Highest water level 0.74 below lsd, Apr. 29, 1952; lowest 6.87 below lsd, Aug. 17, 1949. Records available: 1949-53.

Feb. 2	1.43	Apr. 30	1.78	July 31	4.22	Nov. 4	5.07
27	1.41	June 2	1.02	Sept. 1	3.85	30	4.50
Mar. 31	1.05	30	3.57	30	4.91	Dec. 29	3.54

Care-Dc 56. Denton Cemetery Association. West Denton. Lat. 38°53'10", long. 75°50'25". Drilled unused artesian well in sand of Miocene age, diameter 6 inches, depth 137 feet. Land-surface datum is about 13.5 feet above msl. Highest water level 12.41 below lsd, Feb. 28, 1952; lowest 36.67 below lsd, Sept. 28, 1953. Records available: 1951-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.60	.....	.....	30.26	32.69	26.80	34.03	30.63	34.54	35.17	30.10	31.05
2	.....	.....	.....	30.89	.....	28.80	34.46	29.15	33.35	35.78	29.68	31.83
3	26.25	.....	.....	30.08	.....	28.35	34.88	28.99	32.22	33.54	31.44	31.87
4	25.73	.....	.....	28.57	32.98	28.05	33.32	30.89	33.23	31.86	32.03	31.44
5	27.00	.....	.....	27.18	32.70	29.71	30.92	30.60	33.88	31.38	32.92	31.82
6	29.15	.....	.....	26.68	33.15	30.12	30.36	29.97	33.04	33.01	33.13	28.73
7	30.40	.....	30.19	27.51	33.03	30.01	30.65	31.39	33.54	33.57	32.45	29.08
8	30.72	.....	28.27	27.10	.....	30.52	30.55	32.27	34.02	.....	30.42	32.12
9	30.72	.....	27.61	26.47	.....	31.72	.....	30.69	35.02	.....	30.08	33.15
10	.....	.....	28.65	26.75	.....	32.39	.....	29.74	34.61	32.98	31.13	33.63
11	.....	.....	30.68	26.36	.....	32.38	.....	31.48	34.55	31.21	31.45	34.20
12	.....	.....	31.02	25.00	.....	32.95	.....	32.62	34.45	30.83	32.55	33.64
13	26.60	.....	30.04	.....	.....	33.40	.....	32.77	34.98	32.85	32.96	31.69
14	25.50	.....	30.00	.....	32.02	33.41	.....	33.20	34.65	34.27	31.55	31.05
15	26.00	.....	27.63	.....	32.29	33.34	.....	.....	35.21	34.64	31.06	31.71

Care-Dc 56--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	26.88	.....	.....	.....	.....	33.85	.....	.....	35.62	34.80	30.80	33.39
17	24.45	.....	.....	.....	.....	33.55	.....	.....	35.35	31.92	31.44	33.40
18	22.97	.....	.....	26.28	.....	33.99	31.25	.....	35.77	30.84	31.52	33.55
19	23.66	.....	.....	25.19	.....	34.49	.....	.....	33.47	31.37	31.25	34.02
20	.....	.....	.....	24.90	.....	.....	.....	.....	33.25	31.91	31.57	33.35
21	.....	.....	29.84	27.26	.....	.....	31.73	.....	32.10	32.47	30.68	32.73
22	.....	.....	27.95	29.60	.....	.....	30.84	33.02	33.75	32.40	29.53	33.68
23	.....	.....	27.40	29.49	31.00	.....	30.05	33.55	34.40	33.60	28.98	33.87
24	32.39	.....	29.20	30.62	28.72	33.57	31.64	34.15	34.77	32.54	30.64	32.31
25	32.61	.....	29.07	30.77	27.83	34.20	31.38	33.95	35.11	30.83	29.33	31.14
26	33.01	.....	27.87	28.95	30.37	34.57	29.25	34.50	35.46	30.38	28.54	32.04
27	33.33	.....	27.83	28.17	30.84	33.81	28.51	34.23	35.98	32.03	28.54	31.38
28	33.12	.....	27.95	30.16	29.72	.....	30.38	34.34	36.14	33.07	29.92	31.47
29	31.22	.....	28.79	31.17	31.33	.....	32.07	33.32	36.23	32.94	29.30	31.89
30	30.27	.....	27.70	31.87	29.34	.....	32.16	33.72	35.98	33.35	29.00	32.69
31	.....	.....	28.30	.....	27.29	.....	32.11	33.63	.....	31.41	.....	.....

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.80	.....	.....	31.62	33.37	29.00	34.60	33.22	35.45	36.00	31.41	31.93
2	26.75	.....	.....	32.00	.....	30.10	35.01	30.65	35.38	36.27	32.03	32.38
3	27.17	.....	.....	31.13	.....	30.47	35.89	31.12	34.00	36.10	32.93	32.25
4	27.00	.....	.....	30.65	33.75	29.71	35.92	32.48	34.52	33.64	33.55	32.20
5	29.15	.....	.....	28.57	33.64	31.10	33.32	32.44	34.94	33.56	33.95	33.01
6	30.59	.....	.....	28.35	33.58	31.06	31.69	32.11	33.90	34.20	34.00	31.82
7	31.30	.....	33.42	28.95	33.50	30.81	32.52	33.17	34.60	34.74	33.95	32.12
8	31.33	.....	30.19	28.83	.....	31.98	32.52	33.28	35.02	.....	32.45	33.15
9	31.94	.....	28.65	27.53	.....	32.91	.....	32.89	35.60	.....	31.99	33.67
10	.....	.....	30.68	28.00	.....	33.43	.....	31.95	35.70	35.27	32.35	34.09
11	.....	.....	31.47	27.97	.....	33.45	.....	33.03	35.56	32.98	33.19	34.62
12	.....	.....	31.79	26.42	.....	33.82	.....	33.57	35.44	32.85	33.34	34.76
13	27.10	.....	31.53	.....	.....	34.00	.....	33.80	35.61	34.37	33.74	33.70
14	27.23	.....	31.59	.....	33.09	33.81	.....	34.05	35.53	34.83	33.67	31.71
15	27.10	.....	30.00	.....	33.28	33.94	.....	.....	35.78	35.17	31.75	33.41
16	27.57	.....	.....	.....	.....	34.44	.....	.....	36.27	35.49	32.21	34.11
17	27.23	.....	.....	.....	.....	34.29	.....	.....	36.10	35.20	32.67	34.20
18	24.51	.....	.....	27.96	.....	34.72	32.08	.....	36.43	31.92	32.38	34.03
19	.....	.....	.....	26.28	.....	35.07	31.25	.....	36.40	32.43	32.57	34.51
20	.....	.....	.....	27.26	.....	.....	31.73	.....	34.29	32.97	32.90	34.70
21	.....	.....	31.47	29.60	.....	.....	.....	34.22	33.56	32.99	33.68	.....
22	.....	.....	29.89	29.97	.....	.....	32.10	34.67	35.13	33.60	30.69	34.18
23	.....	.....	29.20	30.83	33.06	.....	31.70	34.33	35.55	34.20	30.95	34.42
24	32.70	.....	30.30	31.57	31.00	34.58	33.22	34.95	35.67	34.07	31.62	34.67
25	33.08	.....	30.30	31.68	30.48	35.01	33.26	35.13	35.75	32.54	31.34	32.31
26	33.75	.....	29.07	31.64	31.91	35.29	31.38	35.13	36.32	32.03	29.41	33.46
27	33.77	.....	28.92	30.64	32.13	35.38	30.93	35.29	36.50	33.18	30.35	32.27
28	33.60	.....	29.00	32.01	31.68	.....	32.32	35.32	36.67	33.76	31.30	31.91
29	33.78	.....	29.80	32.57	32.23	.....	32.94	35.01	36.67	33.64	30.03	32.73
30	.....	.....	29.25	32.75	32.37	.....	33.38	34.44	36.64	34.12	31.05	33.20
31	.....	.....	30.26	.....	29.34	.....	33.30	34.61	.....	33.90	.....	.....

Care-Fd 4. N. Lannule. Near Federalsburg. Lat. 38°43'23", long. 75°46'52". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 9 feet. Land-surface datum is about 38 feet above msl. Highest water level 0.43 below lsd, Apr. 29, 1952; lowest 6.49 below lsd, Oct. 29, 1949. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	0.98	Apr. 29	1.13	July 31	4.26	Nov. 4	4.35
26	.89	June 2	1.00	Sept. 1	3.29	30	3.51
Mar. 31	.87	30	2.36	30	4.65	Dec. 29	2.32

Cecil County

Ce-Ac 39. Town of Rising Sun. Near Rising Sun. Lat. 39°42'00", long. 76°03'22". Drilled unused water-table well in weathered rock, diameter 6 inches, depth 111 feet. Land-surface datum is about 325 feet above msl. Highest water level 4.30 below lsd, Apr. 19, 1953; lowest 15.50 below lsd, Sept. 10, 1953. Records available: 1953.

Daily lowest water level from recorder graph*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	7.04	4.54	8.03	8.81	11.13	10.09	8.34	7.49
2	....	6.53	5.31	7.72	8.38	14.79	10.18	9.30	7.65
3	....	6.22	5.38	7.67	9.00	14.71	10.00	9.38	7.80
4	5.49	7.04	6.18	7.30	8.34	12.08	9.41	9.02	7.87
5	....	6.73	6.71	7.10	11.11	11.87	.....	9.32	7.71
6	4.32	6.71	6.82	6.83	8.15	10.45	9.71	9.04	7.73
7	....	6.79	5.30	7.23	8.31	10.74	9.69	8.39	6.27
8	....	7.10	6.44	7.76	8.31	11.26	11.35	8.23	6.54
9	....	7.05	6.76	....	7.64	15.00	10.08	8.43	6.85
10	5.90	6.53	6.83	8.05	9.41	15.50	9.70	8.77	6.39
11	....	7.08	6.82	8.06	10.14	.....	9.08	8.59	6.60
12	....	7.06	6.90	7.52	9.05	12.21	9.80	8.74	6.44
13	4.60	6.70	6.41	8.27	9.89	10.61	9.91	8.52	5.28
14	4.90	6.96	6.18	8.11	.....	11.51	9.58	8.09	4.75
15	4.51	7.05	6.74	8.18	.....	15.21	9.72	6.97	5.50
16	4.51	6.87	6.34	8.32	.....	15.20	9.00	7.95	5.77
17	4.63	6.93	5.78	8.51	.....	12.58	9.71	7.87	6.24
18	4.38	6.96	5.85	8.50	.....	11.80	9.11	7.81	6.45
19	4.30	....	5.98	8.06	.....	11.62	9.85	8.01	6.51
20	5.10	....	7.91	8.09	.....	10.90	9.91	7.97	6.12
21	5.19	....	7.47	8.22	.....	11.55	10.00	7.82	6.62
22	5.57	....	7.48	8.00	9.26	11.40	9.94	7.42	6.79
23	5.72	7.27	7.26	7.79	8.65	10.54	10.01	7.42	6.67
24	5.93	6.75	7.39	7.84	10.24	11.36	9.78	7.65	6.40
25	5.64	7.45	7.59	7.99	10.51	10.41	9.19	6.98	6.33
26	5.52	6.70	7.76	7.65	10.55	10.04	9.88	6.77	6.38
27	5.50	6.19	7.87	8.12	10.11	9.56	9.65	6.67	6.22
28	....	6.79	7.45	8.08	.....	10.18	11.05	6.81	6.48
29	5.89	6.96	7.95	11.30	10.90	10.02	9.24	6.81	6.64
30	5.86	6.25	7.93	10.56	9.73	9.92	9.06	7.40	6.40
31	....	5.73	....	9.80	10.92	....	8.97	....	6.50

* No record for January, February, and March.

Ce-Bf 1. Philadelphia, Baltimore & Wilmington Railroad. Iron Hill Station. Lat. 39°38'46", long. 75°47'24". Drilled unused artesian well in sand of Cretaceous age, diameter 6 inches, depth 71 feet. Land-surface datum is about 125 feet above msl. Highest water level 5.05 below lsd, June 2, 1953; lowest 9.48 below lsd, Aug. 28, 1950. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	6.22	Apr. 28	6.13	July 30	7.89	Nov. 3	8.09
27	5.98	June 2	5.05	Aug. 31	8.64	30	6.63
Mar. 31	5.87	29	7.51	Sept. 30	8.72	Dec. 29	6.88

Ce-Cf 1. State Roads Commission. Near Elkton. Lat. 39°34'05", long. 75°48'54". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 10 feet. Land-surface datum is about 10 feet above msl. Highest water level 1.42 below lsd, Jan. 28, 1952; lowest 5.44 below lsd, Aug. 28, 1950. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	2.87	Apr. 28	2.52	July 30	3.95	Nov. 3	3.97
27	2.63	June 2	2.20	Aug. 31	5.07	30	3.54
Mar. 31	2.46	29	3.21	Sept. 30	4.82	Dec. 29	3.21

Ce-Ee 2. Dr. Gilfillan. Near Cecilton. Lat. 39°23'40", long. 75°52'15". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Land-surface datum is about 71 feet above msl. Highest water level 1.13 below lsd, May 1, 1952; lowest 10.22 below lsd, Oct. 21, 1951. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	4.24	Apr. 28	2.72	July 30	5.06	Nov. 3	8.17
27	3.93	June 2	2.82	Aug. 31	6.60	30	8.63
Mar. 31	2.57	29	3.83	Sept. 30	7.54	Dec. 29	7.65

Dorchester County

Dor-Bd 2. Carleton Slagle. Near Cambridge. Lat. 38°35'30", long. 76°05'27". Hambrook Estate. Drilled unused artesian well in sand of Jackson age, diameter 6 inches, depth 380 feet. Land-surface datum is about 3 feet above msl. Highest water level 56.80 below lsd, May 12, 1952; lowest 78.22 below lsd, Sept. 18, 1953. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	63.29	Apr. 17	59.45	July 8	70.68	Oct. 9	77.20
9	62.30	24	60.52	15	70.38	16	76.72
16	62.90	May 1	60.17	24	70.85	23	77.03
23	61.72	8	60.75	31	71.76	30	76.66
30	62.75	15	61.67	Aug. 7	73.65	Nov. 6	76.20
Feb. 13	60.20	22	61.74	21	72.70	13	73.05
27	59.38	29	63.71	28	76.23	20	73.22
Mar. 6	59.12	June 5	63.23	Sept. 4	77.63	27	72.36
13	57.80	12	65.38	11	77.59	Dec. 4	71.13
20	57.46	19	66.66	18	78.22	11	71.11
27	57.85	26	68.77	25	78.01	18	70.64
Apr. 3	58.35	July 3	69.75	Oct. 2	77.10	23	68.63
10	58.37						

Dor-Bg 3. Pennsylvania Railroad. Near Hurlock. Lat. 38°36'40", long. 75°53'43". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 21 feet. Land-surface datum is about 40 feet above msl. Highest water level 5.79 below lsd, Apr. 29, 1952; lowest 9.57 below lsd, Oct. 30, 1951. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.79	May 1	6.57	July 31	8.10	Oct. 30	7.60
Feb. 28	6.63	29	7.04	Aug. 28	7.12	Dec. 2	7.93
Apr. 1	6.47	July 3	7.56	Oct. 2	8.19		

Dor-Bh 4. State Roads Commission. Finchville. Lat. 38°37'56", long. 75°46'13". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 18 feet. Land-surface datum is about 42 feet above msl. Highest water level 1.23 below lsd, Apr. 29, 1952; lowest 5.71 below lsd, Sept. 30, 1953. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	2.26	Apr. 29	2.56	July 31	5.08	Nov. 4	5.21
26	2.01	June 2	2.43	Sept. 1	4.66	30	4.40
Mar. 31	1.99	30	3.61	30	5.71	Dec. 29	3.32

Dor-Cd 16. State Roads Commission. Church Creek. Lat. 38°30'05", long. 76°09'08". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Land-surface datum is about 5 feet above msl. Highest water level 0.92 below lsd, Jan. 30, 1952; lowest 5.19 below lsd, Oct. 2, 1953. Records available: 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.54	May 1	1.83	July 31	4.30	Oct. 30	4.32
Feb. 28	1.72	29	2.54	Aug. 28	4.24	Dec. 2	3.68
Apr. 1	1.54	July 3	3.31	Oct. 2	5.19		

Dor-Ce 22. Eastern Shore State Hospital. State of Maryland. Near Cambridge. Lat. 38°33'43", long. 76°02'53". Drilled unused artesian well in sand of Jackson age, diameter 10 inches, depth 370 feet. Land-surface datum is 11.7 feet above msl. Highest water level 69.64 below lsd, Apr. 28, 1952; lowest 107.73 below lsd, Sept. 13, 1953. Records available: 1952-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.50	75.79	72.74	74.76	81.41	80.98	96.51	99.16	.....	100.79	95.38	90.83
2	77.28	75.38	72.08	75.36	81.82	81.49	97.00	93.42	.....	102.09	93.94	92.57
3	76.79	75.47	71.96	76.32	79.61	81.87	98.55	92.51	.....	101.60	97.32	93.40
4	76.74	75.74	71.66	75.49	78.23	84.53	94.80	92.98	.....	96.43	99.10	93.96
5	76.66	75.99	72.12	74.40	79.09	86.30	91.89	94.54	102.55	95.59	100.66	93.60
6	78.09	75.91	72.37	73.60	79.25	85.72	91.42	97.02	99.28	98.28	100.20	89.28
7	78.84	75.83	72.32	73.76	78.98	84.00	93.42	98.63	95.88	100.41	97.00	88.14
8	79.02	75.06	71.59	74.51	79.70	82.98	95.47	96.63	94.84	.....	93.12	90.89
9	.....	74.65	71.59	75.49	80.68	85.07	94.45	93.30	99.28	.....	92.05	92.97
10	.....	76.46	71.50	77.34	78.80	88.14	94.80	91.60	102.29	102.88	93.47	94.06
11	.....	76.64	71.71	75.80	77.95	91.90	92.51	93.78	104.75	.....	93.18	94.38
12	.....	76.07	71.63	74.40	80.54	93.09	89.90	95.30	107.04	.....	92.41	92.34
13	.....	76.35	71.48	73.92	82.66	90.75	88.43	94.59	102.00	.....	93.37	89.08
14	79.20	75.53	71.50	76.20	83.86	87.60	90.57	94.97	99.60	.....	94.50	87.92
15	79.41	74.00	71.96	76.90	84.22	85.49	92.48	93.81	100.58	.....	90.13	89.15

Dor-Ce 22--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	79.57	74.09	70.70	77.67	83.68	87.85	92.97	90.38	103.15	.....	89.40	90.05
17	78.91	74.05	71.03	78.12	80.82	90.91	93.87	89.45	105.43	101.33	92.31	88.89
18	77.24	74.51	71.24	78.22	79.48	92.10	92.79	89.75	105.30	97.55	94.92	89.20
19	76.88	74.39	71.15	76.16	82.09	93.87	90.14	89.87	105.10	95.87	97.20	88.66
20	76.84	74.39	71.45	75.46	83.26	93.14	90.13	92.00	99.12	98.66	97.80	86.15
21	77.63	73.75	71.68	77.77	84.20	90.22	90.60	95.85	97.86	101.50	95.76	85.30
22	78.20	73.72	71.21	78.70	84.12	90.03	89.88	98.78	98.67	103.47	91.28	85.71
23	78.17	73.48	70.98	79.05	83.40	92.46	89.90	97.92	100.87	103.82	89.90	85.84
24	76.92	73.16	71.00	80.01	81.15	94.99	90.23	96.83	103.03	103.68	91.78	85.58
25	76.77	73.16	71.50	79.00	80.65	96.20	89.65	99.44	103.37	97.58	94.00	83.13
26	76.67	72.73	72.85	77.20	83.00	96.82	87.72	.....	102.35	95.67	92.26	81.85
27	76.12	72.57	75.03	76.84	85.18	95.43	86.68	.....	96.71	98.63	90.80	.....
28	75.81	72.93	74.77	78.39	86.27	92.90	88.37	.....	95.24	100.80	92.18	.....
29	76.48		73.69	80.46	86.46	90.77	91.93	105.00	96.51	102.10	88.29	.....
30	76.90		73.07	81.40	85.18	94.65	95.30	.....	98.80	103.02	87.30	.....
31	76.39		74.10		82.65		98.94	.....		100.14		.....

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	80.56	76.65	73.33	76.00	82.68	82.65	98.36	101.24	.....	102.69	100.14	93.90
2	78.68	76.24	73.18	76.70	82.76	82.35	98.58	99.16	.....	103.44	97.32	94.56
3	77.69	75.93	72.57	77.76	82.02	84.25	100.61	94.68	.....	103.32	99.53	94.54
4	77.31	76.29	72.41	77.73	79.61	86.00	100.69	95.81	.....	101.60	100.73	94.59
5	78.44	76.59	72.70	75.64	79.70	87.44	94.80	97.01	104.94	98.81	101.77	95.20
6	79.54	76.41	72.84	74.79	80.28	87.49	93.42	99.00	102.55	100.96	101.76	93.60
7	80.24	76.45	72.80	74.61	80.40	86.28	96.17	99.35	99.28	.....	101.25	90.89
8	80.35	76.03	72.32	75.82	81.02	85.06	96.78	99.20	99.87	.....	97.10	92.97
9	.....	76.70	71.91	77.42	81.42	88.17	96.47	97.00	102.54	.....	94.68	94.69
10	.....	77.78	72.12	78.20	81.40	92.33	96.00	95.20	104.75	104.03	95.11	95.28
11	.....	77.69	72.39	78.21	80.86	94.02	95.49	97.03	107.09	.....	95.29	95.49
12	.....	77.45	72.30	75.80	82.89	94.75	92.80	97.20	107.69	.....	94.45	95.91
13	.....	77.62	72.21	76.80	84.56	94.77	92.10	96.83	107.73	.....	95.00	92.84
14	80.49	77.55	72.26	77.89	85.37	90.75	93.37	97.71	102.00	.....	95.92	92.62
15	80.47	75.70	71.90	79.10	85.48	87.85	94.85	97.50	103.15	.....	94.50	90.34
16	81.18	74.68	71.70	79.39	85.55	91.37	94.97	93.81	105.43	.....	92.80	90.90
17	81.19	74.94	71.81	79.59	83.68	92.19	95.53	91.83	106.88	104.15	94.92	91.05
18	79.00	75.06	71.82	79.59	82.10	94.19	95.59	91.10	106.85	101.33	97.46	91.06
19	77.75	74.91	71.82	78.92	83.90	95.21	92.82	92.53	106.82	98.66	98.34	89.47
20	78.77	75.10	72.00	78.17	84.85	95.30	92.48	96.31	105.10	101.50	99.23	88.70
21	79.23	74.63	72.21	79.92	85.28	93.14	92.49	98.78	99.38	103.47	98.91	86.15
22	79.36	74.30	71.97	79.99	85.45	92.47	90.60	100.67	101.80	104.23	95.76	86.24
23	79.39	74.01	71.87	80.89	84.97	95.12	92.53	99.70	103.90	104.63	93.40	86.41
24	79.41	73.70	71.81	81.25	83.40	96.80	92.18	99.44	104.99	104.60	94.00	86.44
25	77.31	74.20	72.85	80.77	83.00	97.80	91.90	.....	105.60	104.10	95.83	85.58
26	77.02	73.93	75.04	79.00	85.19	97.80	89.65	.....	105.70	98.63	95.82	83.22
27	76.95	73.28	76.38	78.69	86.93	96.85	89.45	.....	102.35	100.80	93.40	82.00
28	76.59	73.36	76.29	80.90	87.38	95.56	93.17	.....	96.71	102.30	93.88	.....
29	78.04		75.00	81.69	87.59	94.55	95.30	106.66	99.58	103.05	92.73	.....
30	78.08		74.78	82.53	87.63	97.22	98.94	.....	100.96	104.31	90.83	.....
31	77.18		75.73		85.51		100.86	.....		104.25		.....

Dor-Cg 1. State Roads Commission. Lat. 38°30'55", long. 75°54'24". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 12 feet. Land-surface datum is about 18 feet above msl. Highest water level 0.16 below lsd, Jan. 30, 1952; lowest 4.64 below lsd, Oct. 31, 1952. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	0.64	May 1	0.92	July 31	4.00	Oct. 30	4.06
Feb. 28	.58	29	2.00	Aug. 28	3.05	Dec. 2	2.99
Apr. 1	.59	July 3	2.96	Oct. 2	4.09		

Dor-Dd 6. J. F. Linthicum. Near Church Creek. Lat. 38°29'47", long. 76°09'41". Drilled domestic artesian well in sand of Jackson age, diameter 1½ inches, depth 375 feet. Land-surface datum is about 4 feet above msl. Highest water level 40.22 below lsd, June 2, 1952; lowest 47.60 below lsd, Dec. 2, 1953. Records available: 1952-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	43.62	May 1	41.27	July 31	44.16	Oct. 30	46.53
Feb. 28	42.55	29	41.84	Aug. 28	45.10	Dec. 2	47.60
Apr. 1	41.58	July 3	43.15	Oct. 2	46.63		

Dor-Ed 1. R. L. Simmons. Andrews. Lat. 38°21'27", long. 76°06'42". Drilled unused artesian well in sand of Jackson age, diameter 1½ inches, depth 411 feet. Land-surface datum is about 3 feet above msl. Highest water level 19.43 below lsd, Oct. 20, 1949; lowest 22.76 below lsd, Aug. 28, 1953. Records available: 1949, 1951-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	21.72	May 1	21.39	Aug. 28	22.76	Oct. 30	22.32
Feb. 28	21.56	29	21.56	Oct. 2	22.58	Dec. 2	22.70
Apr. 1	21.49	July 3	21.51				

Dor-Fd 1. State Roads Commission. Crapo. Lat. 38°19'00", long. 76°06'59". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 17 feet. Land-surface datum is about 3 feet above msl. Highest water level 0.21 below lsd, Apr. 1, 1953; lowest 5.97 below lsd, Aug. 1, 1952. Records available: 1951-53.

Jan. 30	0.30	May 1	0.58	July 31	4.17	Oct. 30	5.12
Feb. 28	.32	29	1.34	Aug. 28	1.95	Dec. 2	1.82
Apr. 1	.21	July 3	1.75	Oct. 2	4.82		

Kent County

Ken-Dc 1. Catherine Overbeck. Near Deep Point. Lat. 39°06'56", long. 76°06'52". Drilled domestic artesian well in sand of Eocene age, diameter 6 inches, depth 87 feet. Land-surface datum is about 10 feet above msl. Highest water level 7.23 below lsd, Apr. 29, 1952; lowest 10.54 below lsd, Nov. 27, 1951. Records available: 1947-48, 1951-53.

Feb. 2	8.74	Apr. 28	8.68	July 30	8.87	Nov. 3	9.80
27	8.56	June 4	8.05	Aug. 31	9.33	30	9.72
Mar. 31	8.42	29	8.59	Oct. 1	9.81	Dec. 29	9.28

Queen Annes County

QA-Be 1. State Roads Commission. Near Chestertown. Lat. 39°11'54", long. 76°02'20". Driven observation water-table well in sand of Pleistocene age, diameter 1¼ inches, depth 21 feet. Land-surface datum is about 19 feet above msl. Highest water level 1.87 above lsd, Mar. 31, 1953; lowest 3.19 below lsd, Oct. 26, 1950. Records available: 1949-50, 1952-53.

Feb. 2	+1.01	Apr. 28	+1.31	July 30	+0.91	Nov. 3	+0.20
27	+1.13	June 4	+.89	Aug. 31	+.50	30	-.23
Mar. 31	+1.87	29	+.75	Oct. 1	+.04	Dec. 29	+.48

e Estimated.

QA-Eb 12. Town of Stevensville. Stevensville. Lat. 38°58'47", long. 76°23'59". Drilled unused artesian well in sand of Eocene age, diameter 2½ inches, depth 194 feet. Land-surface datum is about 15 feet above msl. Highest water level 1.66 below lsd, June 29, 1953; lowest 3.07 below lsd, Dec. 29, 1953. Records available: 1953.

Feb. 10	2.65	Apr. 28	2.65	July 30	2.64	Nov. 3	2.65
Mar. 6	2.64	June 4	2.23	Aug. 31	2.82	30	2.88
Apr. 10	1.79	29	1.66	Oct. 1	2.75	Dec. 29	3.07

QA-Ec 1. Carey Washington. Lat. 38°57'49", long. 76°10'56". Driven observation water-table well in sand of Pleistocene age, diameter 1¼ inches, depth 21 feet. Land-surface datum is about 20 feet above msl. Highest water level 0.12 below lsd, Apr. 29, 1952; lowest 7.98 below lsd, Oct. 27, 1949. Records available: 1949-53.

Feb. 2	1.18	Apr. 28	1.41	July 30	4.62	Nov. 3	5.90
27	.56	June 4	1.11	Aug. 31	4.99	30	4.52
Apr. 1	.74	29	3.39	Oct. 1	6.02	Dec. 29	2.07

Somerset County

Som-Be 1. State Roads Commission. Near Princess Anne. Lat. 38°12'47", long. 75°43'26". Driven observation water-table well in sand of Pleistocene age, diameter 1¼ inches, depth 23 feet. Land-surface datum is about 18 feet above msl. Highest water level 0.37 above lsd, Jan. 30, 1952; lowest 4.52 below lsd, Oct. 30, 1952. Records available: 1949-53

Jan. 30	0.48	May 1	0.48	July 31	4.05	Oct. 30	3.76
Feb. 26	.20	29	2.41	Aug. 31	2.61	Dec. 2	3.09
Mar. 31	.27	June 30	3.18	Oct. 2	3.45		

Som-Be 42. E. M. Smith. Princess Anne. Lat. 38°11'52", long. 75°41'25". Drilled unused artesian well in sand of Miocene age, diameter 2 inches, depth 184 feet. Land-surface datum is about 17 feet above msl. Highest water level 6.15 below lsd, May 1, 1953; lowest 6.95 below lsd, Aug. 5, 1952. Records available: 1952-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.27	May 1	6.15	July 31	6.88	Oct. 30	c18.18
Feb. 26	6.18	29	6.39	Aug. 31	c10.59	Dec. 2	c18.41
Mar. 31	6.17	June 30	6.52	Oct. 2	c15.59		

c Nearby well being pumped.

Som-Cf 2. State Roads Commission. Near Pocomoke City. Lat. 38°06'16", long. 75°38'11". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 15 feet. Land-surface datum is about 20 feet above msl. Highest water level 0.56 below lsd, Apr. 28, 1952; lowest 5.97 below lsd, Oct. 30, 1952. Records available: 1949-53.

Jan. 30	0.99	May 1	1.05	July 31	5.46	Oct. 30	5.63
Feb. 26	.84	29	3.48	Aug. 31	3.64	Dec. 2	5.16
Mar. 31	.97	June 30	3.80	Oct. 2	5.16		

Talbot County

Tal-Be 1. Fred J. Hall. Near Easton. Lat. 38°51'08", long. 76°03'45". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 17 feet. Land-surface datum is about 20 feet above msl. Highest water level 9.01 below lsd, Apr. 29, 1952; lowest 13.57 below lsd, Oct. 26, 1949. Records available: 1949-53. Feb. 2, 10.95; Feb. 27, 10.70; Apr. 1, 10.02; Apr. 28, 10.31; June 3, 10.44; June 4, 10.46. Measurement discontinued.

Tal-De 1. L. Lowman. Lat. 38°41'22", long. 76°03'43". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 17 feet. Land-surface datum is about 48 feet above msl. Highest water level 0.13 below lsd, Apr. 29, 1952; lowest 7.66 below lsd, Aug. 4, 1952. Records available: 1949-53.

Feb. 2	1.32	Apr. 28	1.58	July 30	5.10	Nov. 3	6.20
27	1.06	June 3	1.56	Aug. 31	4.55	30	6.34
Apr. 1	.66	29	4.22	Oct. 1	5.71	Dec. 29	5.05

Tal-Ed 6. Rogers Firth. Near Trappe. Lat. 38°38'49", long. 76°06'34". Drilled unused artesian well in sand of Jackson age, diameter 1½ inches, depth 327 feet. Land-surface datum is about 10 feet above msl. Highest water level 33.22 below lsd, Apr. 29, 1952; lowest 44.12 below lsd, Nov. 30, 1953. Records available: 1952-53.

Feb. 2	38.72	Apr. 28	36.23	July 30	40.82	Nov. 3	42.77
27	37.61	June 3	37.95	Aug. 31	40.00	30	44.12
Apr. 1	37.19	29	39.47	Oct. 1	41.90	Dec. 29	43.24

Wicomico County

Wi-Bd 33. State Roads Commission. Near Hebron. Lat. 38°25'07", long. 75°44'07". Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 13 feet. Land-surface datum is 22.5 feet above msl. Highest water level 3.84 below lsd, Feb. 1, 1952; lowest 6.96 below lsd, Aug. 3, 1951. Records available: 1950-53.

Jan. 30	4.33	May 1	4.45	July 31	6.17	Oct. 30	6.22
Feb. 28	4.15	29	5.24	Aug. 28	5.50	Dec. 2	5.86
Apr. 1	4.23	July 3	5.78	Oct. 2	6.12		

Wi-Ce 13. City of Salisbury. Lat. 38°21'50", long. 75°35'22". On south bank of South Prong of Wicomico River, 600 feet east of tidewater dam. Drilled unused water-table well in sand of Pleistocene age, diameter 16 to 10 inches, depth 65 feet. Land-surface datum is about 10 feet above msl. Highest water level 1.07 below lsd, Aug. 5, 1948; lowest 10.72 below lsd, Aug. 30, 1947. Records available: 1947-53.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.70	2.61	3.54	2.82	1.84	2.32	3.32	5.01	....	4.48	4.54	4.78
2	2.72	3.46	2.82	1.83	2.05	4.37	4.94	....	4.56	4.52	4.72
3	2.69	3.57	2.88	1.78	1.89	4.21	4.74	....	4.72	4.78	4.67
4	2.77	3.27	3.16	1.83	1.73	3.47	4.75	5.03	4.65	4.59	4.25
5	2.89	3.34	3.13	2.08	2.80	3.54	4.64	5.03	4.57	4.76	4.04

Wi-Ce 13 --Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	....	3.09	3.37	3.11	2.13	2.06	3.21	....	4.81	4.34	....	3.79
7	....	2.87	3.46	2.82	2.03	1.82	2.85	....	4.51	4.66	....	3.79
8	e3.50	2.66	3.58	2.82	2.06	1.75	2.91	....	4.30	4.75	....	3.70
9	....	2.63	3.34	2.85	2.28	1.76	2.58	....	4.14	4.48	....	3.63
10	3.12	2.49	3.30	2.72	2.32	2.39	2.83	....	4.08	4.71	....	3.65
11	....	2.36	3.41	2.96	2.37	2.31	3.03	....	....	4.63	....	3.56
12	....	2.16	3.11	2.97	2.35	2.42	2.46	....	3.92	4.38	....	3.66
13	....	2.23	2.66	2.81	2.82	2.35	2.69	....	4.14	4.75	....	3.49
14	....	2.14	2.54	2.63	2.94	2.35	2.84	....	3.93	4.60	4.53	3.28
15	....	1.68	2.60	2.76	3.19	2.70	2.67	....	3.78	4.53	4.63	3.36
16	....	1.54	2.65	2.91	3.35	2.80	3.40	....	3.75	4.75	4.63	3.34
17	3.22	1.45	2.71	2.79	3.35	3.05	4.54	....	4.22	4.77	4.80	3.37
18	2.72	1.71	2.57	2.55	3.19	3.02	6.09	....	4.10	4.64	4.92	3.54
19	2.45	1.81	2.65	2.48	3.51	3.36	e4.58	....	3.92	4.51	4.69	3.53
20	2.57	1.65	2.92	2.16	3.19	3.26	6.33	....	3.60	4.67	4.68	3.54
21	2.27	1.85	2.86	2.10	3.14	3.71	4.86	....	3.50	4.88	4.70	3.48
22	2.02	1.86	2.92	2.06	3.15	3.74	4.94	3.94	3.45	4.43	4.43	3.61
23	2.09	2.22	2.86	1.83	3.06	3.68	e4.23	3.53	3.03	4.52	4.16	3.57
24	2.02	2.52	2.90	1.89	3.24	3.50	4.51	....	3.24	4.23	4.47	3.52
25	2.00	2.53	2.82	2.08	3.10	3.60	4.46	....	3.89	4.52	4.58	3.50
26	2.19	3.03	2.87	2.01	3.16	3.63	4.29	....	4.21	4.58	4.57	3.47
27	2.24	3.15	2.85	1.90	3.25	4.59	4.19	....	4.12	4.68	4.79	3.52
28	2.09	3.50	3.00	1.91	3.15	3.68	4.65	....	4.35	4.68	4.80	3.47
29	2.53	....	2.91	1.99	3.23	3.89	....	7.48	4.50	4.48	4.80	3.50
30	2.54	....	2.99	1.92	3.07	3.73	....	7.03	4.47	4.71	4.68	3.54
31	2.70	....	2.95	....	2.45	....	....	....	....	4.78	....	3.57

e Estimated.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.27	3.78	5.94	4.90	4.30	4.36	5.90	6.20	....	5.62	5.84	5.90
2	....	5.62	6.38	4.82	3.84	4.46	6.17	6.17	....	5.56	5.84	5.97
3	....	5.17	6.64	5.22	3.85	3.95	6.25	5.98	....	6.06	5.92	5.96
4	....	5.40	6.56	5.52	4.34	4.36	6.08	6.06	6.29	5.81	5.88	5.98
5	....	5.89	6.10	5.32	4.40	5.30	5.99	5.84	6.26	5.68	5.88	5.50
6	....	6.46	6.31	5.14	4.39	4.24	6.00	6.01	5.89	5.87	....	5.14
7	....	5.31	6.81	4.65	4.11	3.34	e5.82	....	6.15	5.90	....	5.11
8	5.20	4.96	6.40	4.92	4.18	3.92	5.14	....	5.84	5.60	....	5.31
9	....	5.52	5.41	5.24	4.25	4.10	5.45	....	5.72	5.82	....	4.91
10	4.90	3.12	5.69	5.09	4.36	4.65	5.73	....	5.75	5.81	....	5.20
11	....	4.85	5.88	5.52	2.68	4.74	5.90	....	....	5.83	....	4.98
12	....	2.39	5.60	5.52	5.22	4.92	5.92	....	5.78	5.83	....	5.18
13	....	4.40	4.61	4.86	5.23	4.41	5.64	....	5.34	5.92	....	4.80
14	....	5.58	5.68	4.38	5.76	5.17	5.69	....	5.27	6.19	5.67	4.70
15	....	5.60	5.69	5.31	5.32	5.25	5.29	....	5.36	5.66	5.78	4.64
16	....	3.89	4.76	4.72	6.18	5.31	5.81	....	5.54	5.84	5.82	4.72
17	6.70	3.93	5.57	4.77	6.21	5.67	6.02	....	5.90	6.14	6.09	5.02
18	5.25	3.91	4.42	5.04	5.72	5.95	6.26	....	5.26	6.06	6.05	5.12
19	4.92	4.38	5.39	4.20	5.93	6.05	7.04	....	5.61	5.81	6.06	4.99
20	5.38	4.30	5.13	4.17	5.30	6.25	7.32	....	5.11	6.28	5.99	5.04
21	5.54	4.25	5.05	3.72	5.62	6.25	7.31	....	5.09	6.38	6.14	4.84
22	5.71	4.35	5.27	4.39	5.78	6.30	7.20	5.31	4.91	5.97	5.84	5.34
23	5.42	4.83	4.82	3.08	5.97	6.09	6.93	4.54	4.63	6.15	5.56	4.96
24	3.28	4.78	4.74	4.47	6.03	5.89	5.61	....	4.72	5.81	5.91	4.93
25	4.66	5.34	4.62	4.81	5.50	6.10	5.95	....	5.63	5.87	5.78	4.80
26	4.87	5.08	4.72	4.91	5.44	6.28	5.61	....	5.50	6.15	5.75	4.89
27	5.27	5.65	5.18	4.14	5.45	6.39	5.63	....	5.34	6.37	6.07	4.91
28	5.48	6.51	5.32	4.40	5.32	6.39	5.86	....	5.81	5.78	5.90	5.00
29	5.37	....	4.97	4.36	5.45	6.01	....	8.48	5.45	5.79	5.93	5.03
30	4.85	....	5.07	3.76	5.55	5.77	....	8.27	5.67	5.85	6.08	5.06
31	5.87	....	4.98	....	3.74	....	....	....	....	5.95	....	4.92

e Estimated.

Wi-Ce 72. Pine Bluff Sanatorium. Near Salisbury. Lat. 38°20'38", long. 75°37'32". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 44 feet. Land-surface datum is about 16 feet above msl. Highest water level 20.74 below lsd, June 2, 1952; lowest 22.85 below lsd, Aug. 6, 1949. Records available: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	21.77	May 1	21.45	July 31	22.35	Oct. 30	22.34
Feb. 26	21.78	29	21.64	Aug. 31	21.98	Dec. 2	22.51
Mar. 31	21.49	June 30	22.12	Oct. 2	22.29		

Wi-Ce 105. W. F. Messick. Lat. 38°22'30", long. 75°35'20". Salisbury. Near intersection of Brown and Naylor Sts. Driven unused water-table well in sand of Pleistocene age, diameter 1½ inches, depth 62 feet. Land-surface datum is about 39.56 feet above msl. Highest water level 12.76 above msl, May 7, 10-11, 1953; lowest 9.13 above msl, Nov. 30, 1951. Records available: 1951-53.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.11	10.69	11.02	11.75	12.50	12.18	11.56	11.01	11.60	11.26	10.82	10.20
2	10.13	10.68	11.04	11.77	12.53	12.14	11.55	11.01	11.63	11.47	10.58	10.20
3	10.20	10.72	11.05	11.78	12.47	12.11	11.53	11.00	11.67	11.22	10.77	9.92
4	10.18	10.73	11.12	11.81	12.50	12.08	11.48	10.99	11.92	11.19	10.78	10.12
5	10.19	10.73	11.09	11.84	12.68	12.07	11.47	10.99	11.67	11.20	10.68	9.84
6	10.46	10.76	11.11	11.86	12.72	12.06	11.46	10.96	11.93	11.19	.....	10.08
7	10.17	10.78	11.12	11.92	12.76	12.05	11.45	10.94	11.93	11.40	10.48	9.79
8	10.19	10.83	11.16	11.88	12.74	12.01	11.43	10.92	11.68	11.36	10.67	9.76
9	10.22	10.79	11.18	11.91	12.74	11.99	11.40	10.91	11.92	11.08	10.41	9.74
10	10.22	10.81	11.20	11.96	12.76	11.96	11.38	10.89	11.68	11.07	10.40	9.72
11	10.26	10.83	11.20	11.89	12.76	11.96	11.36	10.88	11.90	11.06	10.38	9.65
12	10.24	10.88	11.22	11.98	12.75	11.93	11.33	10.85	11.93	11.02	10.35	9.64
13	10.23	10.87	11.26	12.01	12.73	11.93	11.32	10.85	11.92	10.98	10.56	9.61
14	10.24	10.84	11.26	11.98	12.73	11.90	11.31	10.87	11.90	11.22	10.30	9.62
15	10.28	10.91	11.28	12.13	12.73	11.87	11.27	10.85	11.86	11.19	10.56	9.56
16	10.29	10.87	11.32	12.06	.....	11.86	11.26	10.92	11.82	11.17	10.28	9.52
17	10.28	10.89	11.31	12.03	12.71	11.84	11.25	11.01	11.60	10.90	10.26	9.50
18	10.33	10.86	11.33	12.07	12.71	11.83	11.22	11.10	11.81	10.91	10.50	9.46
19	10.36	10.87	11.36	12.10	12.64	11.80	11.21	11.19	11.54	10.90	10.48	9.42
20	10.38	10.91	11.38	12.13	12.57	11.77	11.19	11.28	11.79	10.83	10.44	9.40
21	10.40	10.93	11.38	12.14	12.41	11.76	11.17	11.37	11.58	10.81	10.19	9.40
22	10.40	10.91	11.41	12.16	12.41	11.75	11.17	11.17	11.67	10.80	10.42	9.37
23	10.43	10.92	11.45	12.22	12.40	11.71	11.16	11.26	11.66	11.04	10.43	9.60
24	10.48	10.96	11.52	12.22	12.32	11.68	11.11	11.57	11.41	10.78	10.14	9.58
25	10.50	10.94	11.53	12.26	12.30	11.67	11.09	11.62	11.66	10.74	10.40	.....
26	10.49	10.91	11.56	12.31	12.33	11.64	11.07	11.35	.....	10.71	.....	9.54
27	10.53	11.01	11.59	12.34	12.28	11.63	11.09	11.46	11.40	10.68	10.32	9.51
28	10.60	11.01	11.61	12.35	12.22	11.61	11.09	11.76	11.38	10.69	10.04	9.50
29	10.58	.....	11.66	12.38	12.19	11.58	11.06	11.78	11.32	10.68	10.26	9.48
30	10.60	.....	11.72	12.42	12.22	11.56	11.05	11.81	11.29	10.88	10.23	9.47
31	10.66	.....	11.71	.....	12.21	.....	11.04	11.79	.....	10.60	.....	9.46

Wi-Cf 3. Salisbury Airport. Lat. 38°20'40", long. 75°31'15". 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 42.17 above msl, Jan. 29, 1952; lowest 31.45 above msl, Sept. 18, 1947. Records available: 1947-53.

Daily noon water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.40	39.44	39.28	39.58	39.23	37.78	36.84	36.34	38.30	36.86	36.18	.....
2	39.66	.....	39.21	39.81	39.15	37.72	36.81	36.34	38.26	36.82	36.16	.....
3	40.12	39.34	39.16	39.71	38.90	37.67	36.77	36.29	38.17	36.80	36.16	.....
4	39.99	.....	39.57	39.67	38.88	37.66	36.72	36.29	38.08	36.80	36.14	.....
5	39.80	.....	39.83	39.54	38.94	37.61	36.70	36.27	38.03	36.80	36.11	36.49
6	39.57	38.94	39.79	39.46	38.86	37.56	36.70	36.25	37.98	36.78	.....	36.52
7	39.47	38.98	39.58	40.34	38.86	37.54	36.65	36.24	37.91	36.69	.....	36.47
8	39.57	39.10	39.60	40.62	38.81	37.48	36.64	36.24	37.81	36.65	.....	36.46
9	40.50	39.03	39.39	40.50	38.69	37.48	36.60	36.26	37.72	36.67	.....	36.49
10	41.47	39.04	39.41	40.48	38.63	37.43	36.57	36.36	37.70	36.66	.....	36.56
11	.....	39.08	39.28	40.27	38.59	37.38	36.54	36.30	37.68	36.62	.....	.....
12	40.82	39.32	39.35	40.26	38.52	37.35	36.52	36.26	37.68	36.58	.....	36.59
13	40.56	39.21	41.58	40.65	38.45	37.38	36.50	36.24	37.58	36.52	.....	36.87
14	40.27	39.12	41.42	41.43	38.40	37.31	36.47	36.63	37.51	.....	36.21	37.98
15	.....	40.57	41.12	41.04	38.37	37.28	36.44	41.19	37.50	.....	36.23	38.08

210 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

Wi-Cf 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	41.21	41.40	41.24	38.29	37.25	36.41	.....	37.44	.....	36.19	38.06
17	39.76	40.83	41.16	41.07	38.31	37.25	36.39	.....	37.34	36.45	36.17	37.92
18	39.95	40.41	40.82	40.82	38.26	37.20	36.37	.....	37.28	36.42	36.16	37.87
19	40.09	40.21	40.80	40.80	38.17	37.17	36.24	.....	37.27	36.41	36.15	.....
20	40.01	40.05	40.52	40.67	38.16	37.14	36.31	.....	37.26	36.39	.....	.....
21	40.02	40.14	40.22	40.37	38.09	37.10	36.30	.....	37.25	36.36	36.12	.....
22	39.78	40.34	40.08	40.13	38.12	37.07	36.28	39.64	.....	36.35	36.12	37.65
23	39.80	40.22	39.99	40.08	38.05	37.05	36.80	39.50	.....	36.36	36.30	37.55
24	40.03	40.19	40.01	39.75	37.95	36.98	36.77	39.30	.....	36.32	36.51	37.50
25	39.89	40.01	40.00	39.74	37.96	36.96	36.68	39.09	.....	36.28	36.59	37.58
26	39.64	39.95	40.52	39.66	38.01	36.93	36.62	38.97	37.04	36.26	36.61	37.56
27	39.66	39.75	40.46	39.49	37.84	36.90	36.59	38.86	37.10	36.24	36.62	37.38
28	39.73	39.46	40.27	39.32	37.77	36.88	36.54	38.74	37.00	36.34	36.60	37.46
29	39.60		40.04	39.21	37.74	36.89	36.47	38.64	36.92	36.30	.....	37.39
30	39.44		39.87	39.18	37.84	36.86	36.42	38.53	36.89	36.22	.....	37.35
31	39.49		39.69		37.82		36.38	38.42		36.20		37.32

Wi-Cg 20. State Roads Commission. Near Parsonsburg and Pittsville. Lat. 38°23'33", long. 75°26'45". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 25 feet. Land-surface datum is about 60 feet above msl. Highest water level 3.84 below lsd, Jan. 31, 1950; lowest 7.51 below lsd, July 31, 1952. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.35	May 1	4.50	July 31	5.87	Oct. 30	6.77
Feb. 26	4.19	29	5.50	Aug. 31	4.49	Dec. 2	5.46
Mar. 31	4.36	June 30	6.20	Oct. 2	6.26		

Worcester County

Wor-Bg 1. Near Herring Creek. Lat. 38°20'30", long. 75°06'21". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 14 feet. Land-surface datum is about 10 feet above msl. Highest water level 2.85 below lsd, June 2, 1952; lowest 6.47 below lsd, Aug. 16, 1949. Records available: 1949-53.

Jan. 30	3.59	May 1	3.09	July 31	6.29	Oct. 30	5.04
Feb. 26	3.51	29	4.57	Aug. 31	4.60	Dec. 2	3.94
Mar. 31	3.56	June 30	4.90	Oct. 2	5.65		

Wor-Bh 9. Lester Esham. Ocean City. Lat. 38°20'33", long. 75°05'00". Drilled unused artesian well in sand of Pleistocene age, diameter 1½ inches, depth 89 feet. Land-surface datum is about 5 feet above msl. Highest water level 2.54 below lsd, Nov. 2, 1951; lowest 5.30 below lsd, Oct. 30, 1952. Records available: 1950-53. Jan. 30, 4.00; Feb. 26, 4.07; Mar. 31, 3.73; May 1, 3.56; May 29, 4.50. Measurement discontinued.

Wor-Dd 9. State Roads Commission. Snow Hill. Lat. 38°11'20", long. 75°22'45". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 20 feet. Land-surface datum is about 20 feet above msl. Highest water level 9.88 below lsd, Mar. 31, 1952; lowest 12.16 below lsd, Dec. 31, 1949. Records available: 1949-53.

Jan. 30	11.01	May 1	10.38	July 31	11.39	Oct. 30	11.20
Feb. 26	10.97	29	10.80	Aug. 31	9.95	Dec. 2	11.54
Mar. 31	10.26	June 30	11.13	Oct. 2	10.94		

NORTH CAROLINA

By H. E. LeGrand and Marjorie M. Streicher

Scope of Water-Level Program

The observation-well program, begun in 1931, was continued in 1953. This program is a part of the investigations of the ground-water resources being conducted in cooperation with the North Carolina Department of Conservation and Development. Water-level measurements were made in 42 observation wells, 5 of which were measured daily. Figure 35 shows the location of observation wells in the State.

Interpretation of Water-Level Fluctuations

The Coastal Plain, representing the eastern two-fifths of the State, is one of two major ground-water provinces in North Carolina. It is underlain by beds of unconsolidated and semi-consolidated sands, clays, and limestones that dip gently toward the coast. 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. The other major ground-water province represents the Piedmont and Mountain sections, occupying the western three-fifths of the State. It is underlain by various igneous and metamorphic rocks. 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. It should be emphasized that withdrawal of ground water has had no widespread effect on the regional water levels; this is due either to the low water-yielding capacity of some of the deposits or to the great dispersion in population and consequent small withdrawal of water, or to a combination of these factors. 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 do wells in the Piedmont, because the water table is generally closer to the surface and the surficial deposits are more permeable in the Coastal Plain. With normal precipitation, the cycle of water-table fluctuations begins with a gradual rise usually starting 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, little or no rainfall reaches the water table because the amount used by vegetation and evaporation is large. The range in water level in the artesian aquifers is generally slight except near the areas of recharge and near the areas where water is pumped from the same aquifer. Well 13, Hertford County, for example, is remote from pumping and from recharge to the aquifer which it penetrates and, consequently, expresses a water level which fluctuated only 0.48 foot between December 1950 and December 1953. In 1953 the average rainfall at all Weather Bureau stations in the State was 45.85 inches, which was 3.38 inches below normal. The unseasonably dry weather in October and November resulted in below-average water levels in water-table wells during the late autumn. Although some recovery of the water level was noted in some wells at the end of December, 21 of 27 water-table wells had lower water levels at the end of the year than at the beginning of the year. Water levels in 11 of 13 artesian wells were lower at the end of the year than at the beginning of the year, but in only 2 of these did the water level reach an alltime low during 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.

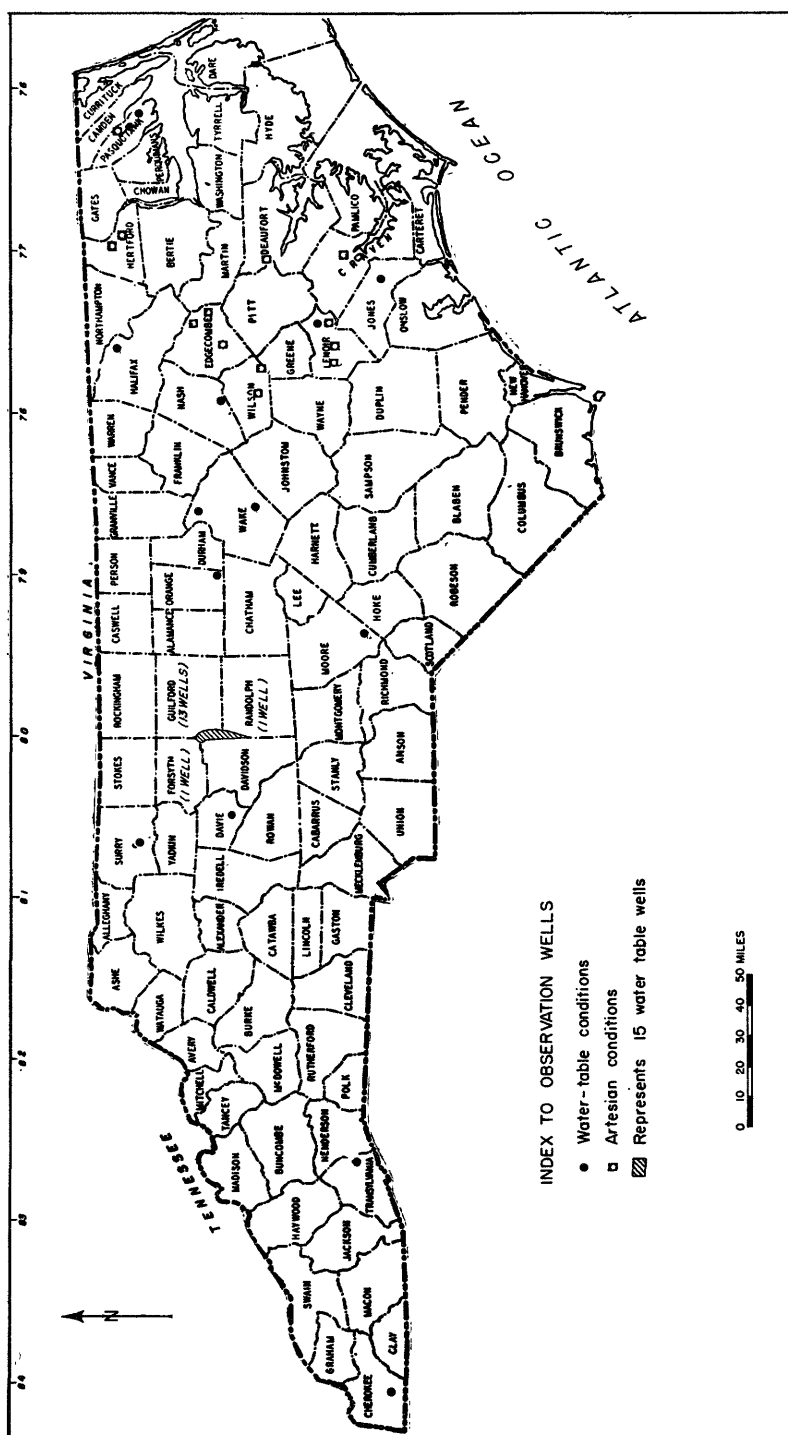


Figure 35. --Location of observation wells in North Carolina, 1953.

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: 1948-53. Mar. 5, 6.96; Mar. 24, 8.12; July 28, 8.58; Aug. 25, 7.51; Nov. 18, 9.17; Dec. 29, 7.99.

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 43.36 below lsd, Dec. 31, 1953. Records available: 1943-53.

Daily mean water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.40	41.39	40.06	39.54	39.63	39.67	40.13	40.74	41.40	42.05	42.62	43.15
2	42.39	41.37	40.01	39.53	39.68	39.68	40.13	40.75	41.41	42.07	42.65	43.17
3	42.36	41.34	39.98	39.54	39.74	39.70	40.14	40.77	41.43	42.09	42.66	43.19
4	42.35	41.32	39.90	39.55	39.78	39.71	40.18	40.79	41.45	42.11	42.67	43.19
5	42.35	41.31	39.88	39.56	39.79	39.72	40.20	40.80	41.47	42.12	42.70	43.21
6	42.36	41.29	39.91	39.54	39.67	39.72	40.22	40.81	41.49	42.11	42.72	43.22
7	42.36	41.25	39.89	39.51	39.70	39.74	40.23	40.85	41.54	42.14	42.75	43.25
8	42.35	41.25	39.85	39.55	39.70	39.75	40.26	40.87	41.57	42.18	42.77	43.26
9	42.26	41.26	39.83	39.57	39.71	39.78	40.28	40.89	41.59	42.19	42.79	43.26
10	42.08	41.25	39.80	39.56	39.72	39.79	40.31	40.92	41.62	42.19	42.82	43.27
11	42.02	41.20	39.77	39.57	39.71	39.79	40.34	40.96	41.63	42.21	42.84	43.28
12	42.06	41.00	39.74	39.56	39.70	39.80	40.36	40.98	41.64	42.23	42.86	43.27
13	42.06	40.94	39.71	39.55	39.70	39.81	40.37	41.00	41.65	42.26	42.87	43.27
14	42.04	40.95	39.69	39.62	39.68	39.79	40.39	41.01	41.67	42.30	42.89	43.26
15	42.01	40.88	39.66	39.63	39.68	39.81	40.42	41.03	41.70	42.32	42.91	43.28
16	41.98	40.74	39.64	39.61	39.67	39.85	40.45	41.05	41.72	42.34	42.92	43.29
17	41.94	40.69	39.65	39.63	39.66	39.85	40.47	41.07	41.75	42.36	42.93	43.30
18	41.90	40.71	39.61	39.63	39.65	39.86	40.49	41.09	41.78	42.38	42.94	43.30
19	41.86	40.70	39.59	39.63	39.64	39.88	40.49	41.12	41.80	42.40	42.95	43.30
20	41.83	40.64	39.60	39.65	39.63	39.90	40.51	41.13	41.81	42.41	42.95	43.30
21	41.76	40.44	39.60	39.68	39.65	39.92	40.54	41.17	41.85	42.43	42.98	43.30
22	41.74	40.30	39.60	39.69	39.65	39.94	40.55	41.19	41.89	42.45	42.99	43.29
23	41.71	40.30	39.58	39.69	39.66	39.96	40.56	41.21	41.93	42.47	42.99	43.30
24	41.65	40.28	39.57	39.70	39.65	39.98	40.59	41.23	41.95	42.48	43.00	43.32
25	41.63	40.22	39.56	39.69	39.66	40.00	40.63	41.25	41.96	42.49	43.02	43.32
26	41.63	40.14	39.57	39.69	39.66	40.03	40.66	41.27	41.95	42.50	43.04	43.33
27	41.58	40.11	39.56	39.70	39.65	40.05	40.67	41.30	41.95	42.52	43.06	43.34
28	41.53	40.09	39.55	39.72	39.67	40.08	40.68	41.31	41.97	42.54	43.09	43.35
29	41.50		39.55	39.74	39.69	40.10	40.71	41.32	42.01	42.55	43.11	43.34
30	41.47		39.56	39.68	39.68	40.12	40.72	41.35	42.03	42.57	43.13	43.35
31	41.43		39.55		39.67		40.75	41.38		42.60		43.36

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. Highest water level 9.35 below lsd, July 28, 1950; lowest 12.08 below lsd, Nov. 29, 1950. Records available: 1947-53. Feb. 5, 11.59; Mar. 23, 11.32; Dec. 29, 10.08.

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. Highest water level 6.91 below lsd, July 28, 1950; lowest 18.00 below lsd, Sept. 4, 1952. Records available: 1947-53. Feb. 5, 13.59; Mar. 24, 13.43; Apr. 13, 15.33; June 16, 17.16; Dec. 29, 14.65.

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. Highest water level 3.96 below lsd, July 28, 1950; lowest 7.74 below lsd, Nov. 30, 1949. Records available: 1947-52. Measurement discontinued.

Davie County

1. Kurfee. Mocksville. 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: 1932-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.60	24.39	21.98	19.17	19.58	20.73	21.61	22.93	24.11	24.58	25.14	25.96
2	25.68	24.36	.....	19.21	19.64	20.83	21.62	22.96	24.15	24.61	25.16	25.99
3	25.71	24.31	21.80	19.25	19.76	20.87	21.63	22.60	24.19	24.65	25.19	26.01
4	25.40	24.27	21.72	19.26	19.81	20.91	21.68	22.52	24.21	24.68	25.20	26.03
5	25.08	24.25	21.60	19.28	19.82	20.94	21.72	22.73	21.80	24.69	25.22	26.05
6	25.24	24.20	21.61	19.27	19.82	20.97	21.75	22.82	20.05	24.71	25.25	26.00
7	25.37	23.42	21.53	19.22	19.82	20.10	21.79	22.90	22.44	24.76	25.27	25.97
8	25.33	23.82	21.43	19.33	19.84	20.58	21.83	22.94	23.16	24.79	25.30	26.03
9	25.28	23.95	21.42	19.34	19.89	20.80	21.88	22.98	23.56	24.81	25.33	26.05
10	25.22	23.97	21.38	19.30	19.93	20.81	21.94	23.05	23.80	24.83	25.36	26.05
11	25.17	23.95	21.33	19.36	19.95	20.95	22.00	23.14	23.90	24.85	25.39	26.07
12	25.10	23.46	21.22	.....	19.98	21.01	22.03	23.26	23.95	24.89	25.42	25.80
13	24.96	23.64	21.13	19.00	20.02	21.01	22.07	23.33	24.00	24.92	25.46	25.60
14	.....	23.68	21.11	19.35	20.05	21.02	22.11	23.39	24.01	24.94	25.49	25.18
15	.....	22.20	21.04	19.40	20.09	21.10	22.17	23.44	24.07	24.94	25.52	25.51
16	.....	22.50	21.01	19.31	20.13	21.12	22.22	23.48	24.10	24.94	25.55	25.64
17	.....	22.90	20.99	19.36	20.16	21.13	22.27	23.55	24.14	24.92	25.59	25.69
18	.....	23.03	20.91	19.36	20.17	21.16	22.31	23.59	24.20	24.92	25.62	25.70
19	.....	23.06	20.87	19.34	.....	21.20	22.35	23.63	24.25	24.93	25.65	25.70
20	.....	22.00	20.88	19.39	.....	21.23	22.40	23.66	24.28	24.93	25.68	25.69
21	24.81	20.66	20.88	19.43	.....	21.26	22.46	23.68	24.31	24.94	25.71	25.66
22	24.87	21.70	20.85	19.46	.....	21.30	22.49	23.72	24.36	24.96	25.74	25.63
23	24.70	22.07	17.80	19.46	.....	21.33	22.52	23.75	24.41	24.97	25.75	25.60
24	23.08	22.14	17.20	19.48	.....	21.37	22.60	23.79	24.46	24.98	25.78	25.58
25	24.02	22.13	18.82	19.49	.....	21.41	22.66	23.83	24.48	25.01	25.79	25.56
26	24.38	22.07	18.99	19.48	.....	21.45	22.71	23.87	24.51	25.05	25.82	25.53
27	24.49	22.03	19.05	19.53	.....	21.49	22.75	23.91	24.42	25.07	25.85	25.51
28	24.50	22.00	19.05	19.60	.....	21.53	22.78	23.95	24.49	25.09	25.88	25.50
29	24.49	.....	19.12	19.61	20.69	21.57	22.82	23.98	24.52	25.09	25.91	25.49
30	24.48	.....	19.17	19.60	20.68	21.59	.....	24.02	24.55	25.11	25.95	25.48
31	24.44	.....	19.18	.....	20.69	.....	22.88	24.06	.....	25.13	.....	25.47

Edgecombe County

23. John Lane. Lat. 35°58', long. 77°27'. Drilled domestic artesian well in sand of Tuscaloosa formation, diameter 4 inches, depth 100 feet, cased to 100. Highest water level 1.70 below lsd, July 27, 1950; lowest 12.18 below lsd, June 11, 1953. Records available: 1946-53. Mar. 23, 2.58; June 11, 12.18; July 29, 6.97; Aug. 25, 6.86; Dec. 21, 5.50.

59. I. W. Calhoun. Lat. 35°56', long. 77°39'. Drilled unused artesian well in sand of Tuscaloosa formation, diameter 4 inches, depth 164 feet, cased to 164. Highest water level 27.98 below lsd, July 2, 1949; lowest 30.36 below lsd, Dec. 28, 1951. Records available: 1946-53. Mar. 23, 29.60; June 11, 29.84; July 22, 29.88; Aug. 25, 29.86; Dec. 21, 29.90.

70. W. Z. Wilson. Coakley. Lat. 35°55', long. 77°25'. Drilled unused artesian well in sand of Tuscaloosa formation, 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: 1946-53. Mar. 23, 38.39; June 11, 38.15; July 29, 38.50; Aug. 25, 38.55; Dec. 21, 39.06.

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 33 feet, lined with tile. Highest water level 24.33 below lsd, Nov. 29, 1948; lowest 29.77 below lsd, Dec. 31, 1951. Records available: 1948-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	28.20	Apr. 23	26.69	July 31	27.10	Oct. 27	28.70
Feb. 26	27.65	May 26	26.48	Aug. 26	27.67	Nov. 24	29.00
Mar. 31	27.03	June 30	26.75	Sept. 30	28.19	Dec. 29	29.45

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: 1934-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.50	27.09	27.63	28.05
2	26.49	27.12	27.65	28.06
3	26.50	27.14	27.66	28.07
4	26.53	27.09	27.66	28.06
5	26.54	27.03	27.70	28.08
6	26.56	27.04	27.71	28.07
7	26.62	27.17	27.72	28.09
8	26.68	27.22	27.75	28.10
9	26.71	27.17	27.76	28.09
10	26.69	27.14	27.79	28.09
11	25.72	.....	.....	.....	.....	.....	.....	26.67	27.17	27.80	28.12
12	26.60	27.24	27.83	28.12
13	26.68	27.32	27.86	.....
14	26.74	27.33	27.86	.....
15	26.73	27.27	27.84	.....
16	25.75	.....	26.74	27.28	27.86	.....
17	26.80	27.35	27.90	.....
18	26.85	27.38	27.94	.....
19	26.84	27.39	27.95	.....
20	26.80	27.39	27.95	.....
21	26.85	27.41	27.96	.....
22	26.95	27.43	27.97	.....
23	24.31	.....	25.52	.....	.....	27.00	27.36	27.94	.....
24	26.99	27.36	27.97	.....
25	26.96	27.46	27.97	.....
26	24.80	.....	.....	24.93	.....	.....	26.39	26.93	27.51	28.01	.....
27	27.13	.....	.....	.....	.....	.....	.....	26.42	26.86	27.49	28.02	.....
28	27.05	.....	.....	.....	.....	.....	.....	26.42	26.95	27.43	28.04	.....
29	27.11	.....	.....	.....	.....	.....	.....	26.43	27.04	27.47	28.05	28.46
30	27.14	.....	.....	.....	.....	25.55	.....	26.45	27.07	27.54	28.04	.....
31	23.97	.....	.....	.....	25.92	26.47	.....	27.62	.....	.....

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: 1934-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	30.58	Apr. 23	28.64	June 30	27.50	Aug. 26	29.13
Feb. 26	29.80	May 26	28.32	July 31	28.73	Oct. 27	30.25
Mar. 31	29.12						

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: 1934-53. Measurement discontinued.

Jan. 27	21.08	Apr. 23	21.38	July 31	22.17	Oct. 27	22.58
Feb. 26	20.96	May 26	21.81	Aug. 26	22.33	Nov. 24	22.68
Mar. 31	21.07	June 30	21.88	Sept. 30	22.47	Dec. 29	22.75

8. E. J. Welch. 1501 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: 1934-53. Measurement discontinued.

Jan. 27	25.53	Apr. 23	23.22	July 31	26.72	Oct. 27	29.20
Feb. 26	21.98	May 26	24.67	Aug. 26	27.55	Nov. 24	29.80
Mar. 31	21.34	June 30	25.20	Sept. 30	28.57	Dec. 29	30.12

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 26.57 below lsd, Apr. 23, 1953; lowest 36.29 below lsd, July 27, 1941. Records available: 1934-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	28.95	Apr. 23	26.57	July 31	29.21	Oct. 27	32.15
Feb. 26	27.73	May 26	27.32	Aug. 27	30.28	Nov. 24	32.74
Mar. 31	26.70	June 30	28.04	Sept. 30	31.46	Dec. 29	32.48

14. Clodfelter Dairy. Near Springfield Church, 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: 1934-53. Measurement discontinued.

Jan. 27	13.99	Apr. 23	11.66	July 31	13.89	Oct. 27	16.00
Feb. 26	11.78	May 26	12.84	Aug. 27	13.60	Nov. 24	16.48
Mar. 31	10.80	June 30	12.98	Sept. 30	15.45	Dec. 29	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 31.18 below lsd, Dec. 29, 1953. Records available: 1948-53. Measurement discontinued.

Jan. 27	27.04	Apr. 23	23.04	July 31	26.18	Oct. 27	29.05
Feb. 26	25.55	May 26	26.01	Aug. 27	27.15	Nov. 24	30.86
Mar. 31	23.26	June 30	26.42	Sept. 30	28.61	Dec. 29	31.18

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: 1948-53. Measurement discontinued.

Jan. 27	39.43	Apr. 23	38.45	July 31	37.56	Oct. 27	38.10
Feb. 26	39.52	May 26	38.07	Aug. 27	37.22	Nov. 24	38.10
Mar. 31	38.55	June 30	37.69	Sept. 30	37.43	Dec. 29	38.97

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 5.39 below lsd, Mar. 31, 1953; lowest 9.37 below lsd, Oct. 30, 1951. Records available: 1948-53. Measurement discontinued.

Jan. 27	6.29	Apr. 23	5.60	July 31	7.84	Oct. 27	9.10
Feb. 26	5.47	May 26	6.75	Aug. 26	8.40	Nov. 24	9.34
Mar. 31	5.39	June 30	6.99	Sept. 30	8.58	Dec. 29	8.90

I-23. E. W. Callaway. Lat. 36°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: 1948-53. Measurement discontinued.

Jan. 27	35.61	Apr. 23	34.62	July 31	34.21	Oct. 27	34.80
Feb. 26	35.47	May 26	34.55	Aug. 26	34.33	Nov. 24	35.14
Mar. 31	34.88	June 30	34.29	Sept. 30	34.67	Dec. 29	35.27

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: 1948-53. Measurement discontinued.

Jan. 27	31.83	Apr. 23	30.25	July 31	30.78	Oct. 27	32.20
Feb. 26	31.12	May 26	30.26	Aug. 26	31.31	Nov. 24	32.55
Mar. 31	30.57	June 30	30.31	Sept. 30	31.85	Dec. 29	32.75

I-46. Virtle 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 15.89 below lsd, Nov. 24, 1953. Records available: 1948-53. Measurement discontinued.

Jan. 27	12.70	Apr. 23	10.56	July 31	12.50	Oct. 27	14.58
Feb. 26	10.80	May 26	11.25	Aug. 26	12.78	Nov. 24	15.89
Mar. 31	11.05	June 30	11.53	Sept. 30	13.88	Dec. 29	15.65

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 45.38 below lsd, Sept. 30, 1953. Records available: 1948-53. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	38.72	Apr. 23	36.76	Sept. 30	45.38	Nov. 24	44.45
Feb. 26	36.56	June 30	37.38	Oct. 27	43.49	Dec. 29	44.10
Mar. 31	36.22	Aug. 27	43.65				

Halifax County

1. Freuler. 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: 1932-53.

Jan. 31	6.65	Apr. 14	4.88	June 2	6.66	Sept. 30	9.34
Feb. 4	6.71	21	5.27	29	7.41	Oct. 6	9.60
28	5.53	26	5.33	Aug. 3	8.57	20	9.95
Mar. 9	5.41	May 30	6.45	31	8.97	Nov. 17	10.36
28	5.00						

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 26.84 below lsd, Apr. 21, 1952; lowest 29.62 below lsd, Feb. 25, 1948. Records available: 1947-53. Mar. 23, 26.86; June 11, 27.06; July 29, 27.06; Aug. 25, 27.08; Dec. 21, 27.13.

14. Town of Winton. Lat. 36°24', long. 76°56'. Drilled unused artesian well in sand of Cretaceous(?) and Eocene 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: 1946-53. Mar. 23, 26.71; June 11, 26.61; July 29, 26.73; Aug. 25, 26.70; Dec. 21, 26.85.

Jones County

1. George E. Weeks. 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: 1941-53.

Jan. 7	4.8	Apr. 1	2.5	June 24	6.5	Sept. 29	1.5
14	2.3	8	2.6	July 1	7.1	Oct. 7	1.5
21	2.1	15	4.5	15	8.0	14	6.5
28	2.1	22	5.5	22	8.1	21	7.4
Feb. 4	2.2	29	5.6	Aug. 5	8.7	28	7.8
11	1.2	May 6	7.0	12	8.2	Nov. 4	7.9
18	1.5	13	7.0	19	2.2	11	5.8
25	1.2	20	7.6	26	5.2	18	6.5
Mar. 4	1.2	27	7.8	Sept. 2	7.0	Dec. 2	3.5
11	2.3	June 3	7.5	9	7.2	9	2.9
18	2.9	10	7.8	16	7.8	16	1.5
25	1.1	17	7.0	23	7.3	29	1.0

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. Highest water level 8.45 below lsd, Dec. 31, 1948; lowest 16.33 below lsd, Nov. 17, 1953. Records available: 1947-53. Nov. 17, 16.33; Dec. 30, 15.57.

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 9.86 below lsd, Nov. 17, 1953. Records available: 1947-53. Nov. 17, 9.86; Dec. 30, 7.24.

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. Measurement discontinued.

218 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

31. Kinston. Lat. 35°16', long. 77°37'. Drilled unused artesian well in Black Creek formation, diameter 1½ inches, depth 300-400 feet. Highest water level 3.96 above lsd, Feb. 26, 1948; lowest 1.41 below lsd, Nov. 17, 1953. Records available: 1947-53. Feb. 5, 0.49; May 13, 0.46; June 16, 0.66; Nov. 17, 1.41; Dec. 30, 1.21.

Moore County

1. Pure Oil Station. 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 31.90 below lsd, Sept. 1, 1952; lowest dry, May 17-Dec. 31, 1951, Jan. 1-Feb. 4, Aug. 2-30, 1952. Records available: 1944-53.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.80	34.01	33.74	33.66	33.79	33.76	33.97	.....	41.13	43.00	44.36	45.27
2	33.38	34.08	33.79	33.71	33.79	33.78	34.06	.....	41.20	43.05	44.40	45.30
3	33.43	34.11	33.72	33.74	33.81	33.78	34.10	.....	41.27	43.10	44.44	45.33
4	33.64	34.17	33.57	33.74	33.81	33.79	34.10	.....	41.35	43.14	44.47	45.36
5	33.76	34.25	33.59	33.77	33.78	33.80	.....	.....	41.42	43.19	44.50	45.39
6	33.87	34.32	33.59	33.75	33.78	33.80	.....	38.47	41.48	43.22	44.54	45.42
7	33.95	34.36	33.61	33.75	33.76	33.77	.....	38.56	41.55	43.27	44.57	45.45
8	33.99	34.44	33.64	33.82	33.74	33.75	.....	38.65	41.63	43.33	44.61	45.48
9	34.02	34.55	33.73	33.80	33.63	33.79	.....	38.74	41.70	43.37	44.64	45.52
10	34.10	34.65	33.77	33.78	33.62	33.79	.....	38.84	41.77	43.41	44.67	45.54
11	34.16	34.75	33.82	33.83	33.65	33.80	.....	38.94	41.84	43.45	44.69	45.57
12	34.28	34.82	33.83	33.78	33.69	33.81	.....	39.04	41.89	43.50	44.73	45.60
13	34.38	34.91	32.60	33.81	33.71	33.80	.....	39.15	41.95	43.55	44.76	45.63
14	34.46	35.00	32.87	33.85	33.72	33.77	.....	39.25	42.02	43.60	44.78	44.20
15	34.52	33.92	32.97	33.83	33.72	33.80	.....	39.37	42.08	43.64	44.81	41.83
16	34.62	32.90	33.08	33.79	33.73	33.80	.....	39.50	42.15	43.69	44.84	40.64
17	34.70	33.16	33.16	33.84	33.72	33.76	35.46	.....	39.62	42.21	43.73	44.86
18	34.77	33.42	33.22	33.81	33.72	33.78	.....	39.74	42.28	43.77	44.89	39.72
19	34.86	33.53	33.34	33.81	33.72	33.82	.....	39.85	42.34	43.82	44.92	39.62
20	34.92	33.61	33.48	33.83	33.73	33.83	.....	39.96	42.39	43.86	44.95	39.60
21	35.05	33.67	33.56	33.82	33.73	33.84	.....	40.06	42.45	43.91	44.98	39.61
22	35.18	33.74	33.60	33.82	33.73	33.82	.....	40.20	42.52	43.95	45.00	39.66
23	35.30	33.58	33.62	33.81	33.72	33.82	36.29	40.30	42.58	43.98	45.03	39.74
24	35.37	33.49	33.52	33.83	33.73	33.84	.....	40.40	42.64	44.02	45.05	39.85
25	34.10	33.54	33.22	33.82	33.73	33.83	.....	40.51	42.70	44.06	45.07	39.96
26	33.50	33.59	33.33	33.80	33.73	33.84	.....	40.60	42.75	44.12	45.11	40.06
27	33.59	33.63	33.42	33.81	33.75	33.87	.....	40.69	42.80	44.17	45.14	40.21
28	33.71	33.71	33.48	33.82	33.77	33.88	.....	40.79	42.84	44.20	45.18	40.33
29	33.83		33.57	33.81	33.75	33.91	.....	40.87	42.90	44.23	45.22	40.45
30	33.92		33.62	33.79	33.74	33.92	.....	40.96	42.96	44.27	45.24	40.57
31	33.97		33.65		33.75		.....	41.04		44.32		40.70

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: 1932-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.38	Apr. 4	6.16	July 4	7.54	Oct. 5	13.53
10	5.90	11	7.17	11	8.43	10	13.63
17	6.33	13	3.57	15	8.91	17	13.71
24	6.97	18	3.66	18	6.25	24	13.71
31	6.80	25	5.56	26	9.10	31	13.72
Feb. 4	7.11	May 2	7.02	Aug. 1	10.72	Nov. 7	13.73
7	7.22	9	7.37	8	11.28	11	13.73
14	1.88	16	7.73	15	11.79	17	13.72
21	3.18	23	8.25	22	12.14	21	13.69
28	2.70	30	8.87	29	12.42	Dec. 2	13.70
Mar. 7	2.43	June 6	9.49	Sept. 5	12.67	5	13.70
9	2.89	13	8.55	12	12.90	11	7.64
14	3.33	20	2.66	19	13.14	19	10.52
21	3.56	27	5.35	26	13.35	28	11.75
28	4.64	29	6.11	Oct. 3	13.49		

Orange County

1. McCauley. 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 46.41 below lsd, Jan. 21, 1952. Records available: 1938-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	43.97	Apr. 6	40.68	July 13	40.70	Oct. 5	43.18
12	43.84	13	40.34	20	40.87	12	43.40
19	43.71	20	40.13	27	41.09	19	43.60
26	43.48	27	39.97	Aug. 3	41.30	26	43.78
Feb. 2	43.29	May 4	39.96	10	41.46	Nov. 2	43.94
9	43.14	11	39.78	17	41.71	16	44.27
16	42.77	13	43.86	24	41.94	23	44.39
23	42.60	18	39.74	31	42.19	30	44.60
Mar. 2	42.35	25	39.78	Sept. 8	42.45	Dec. 7	44.68
9	42.19	June 1	39.79	14	42.63	14	44.55
16	41.81	22	40.20	21	42.82	21	44.76
23	41.59	29	40.38	28	42.99	28	44.86
30	41.09	July 6	40.48				

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: 1935-53.

Jan. 7	2.58	Apr. 8	1.79	July 14	5.70	Oct. 16	5.18
14	1.69	15	1.87	22	5.82	23	5.28
21	2.05	22	2.23	29	5.99	28	5.42
28	1.86	29	2.99	Aug. 5	6.01	Nov. 4	5.55
Feb. 4	.89	May 6	2.96	12	6.02	11	5.10
11	.58	20	3.30	18	.60	18	4.74
18	.62	27	3.51	26	2.74	25	2.75
25	.49	June 3	4.49	Sept. 2	4.84	Dec. 2	3.43
Mar. 4	.55	11	4.89	9	5.03	9	3.81
11	1.49	17	5.09	16	5.28	16	.64
18	1.39	24	5.30	23	5.54	23	.80
25	1.54	July 1	5.45	30	3.83	30	.44
Apr. 1	2.22	8	5.55	Oct. 7	4.72		

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, 1953. Mar. 23, 10.74; July 23, 11.42; Aug. 25, 9.90; Dec. 29, 10.78.

200. Elizabeth City. 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: 1946-53. Mar. 23, 25.26; July 23, 32.13; Aug. 25, 33.72.

Randolph County

25. J. S. White. Near 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: 1934-53. Measurement discontinued.

Jan. 27	28.02	May 26	27.27	Aug. 27	27.62	Nov. 24	29.80
Mar. 31	25.75	June 30	27.99	Sept. 30	28.49	Dec. 29	29.81
Apr. 23	26.29	July 31	27.71	Oct. 27	29.02		

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, 1949-53.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	44.64	Mar. 23	44.63	June 28	45.70	Oct. 2	45.17
8	44.75	Apr. 5	45.75	July 4	45.58	10	45.19
11	44.66	12	45.85	14	45.49	18	45.24
24	44.88	26	45.99	25	45.38	27	45.31
Feb. 2	45.14	May 4	46.01	27	45.36	Nov. 5	45.41
12	45.25	6	46.03	31	45.31	16	45.56
19	45.31	7	46.02	Aug. 14	45.24	28	45.71
21	44.83	17	46.03	20	45.19	Dec. 7	45.85
Mar. 1	45.36	30	46.10	29	45.16	14	45.98
8	45.45	June 7	45.88	Sept. 3	45.22	17	46.00
15	44.92	17	45.75	19	45.12	22	46.09

Transylvania County

1. C. F. Baldwin. 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: 1932-53

Daily mean water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.29	35.64	34.30	32.72	31.57	31.13	31.70	33.21	34.88	36.44	37.48	38.40
2	36.27	35.61	34.25	32.67	31.55	31.13	31.72	33.27	34.94	36.48	37.52	38.43
3	36.27	35.57	34.20	32.59	31.54	31.13	31.73	33.34	34.96	36.52	37.54	38.45
4	36.27	35.52	34.15	32.57	31.54	31.13	31.79	33.39	34.98	36.54	37.58	38.46
5	36.28	35.48	34.10	32.55	31.50	31.13	31.83	33.43	35.08	36.56	37.62	38.48
6	36.28	35.43	34.06	32.49	31.46	31.13	31.88	33.47	35.15	36.59	37.64	38.50
7	36.27	35.38	34.01	32.43	31.45	31.12	31.90	33.56	35.21	36.64	37.67	38.52
8	36.26	35.34	33.97	32.39	31.43	31.13	31.96	33.61	35.30	36.69	37.70	38.52
9	36.24	35.33	33.91	32.34	31.41	31.14	32.01	33.72	35.33	36.71	37.73	38.52
10	36.23	35.28	33.85	32.31	31.41	31.15	32.06	33.76	35.36	36.73	37.77	38.53
11	36.22	35.22	33.82	32.26	31.39	31.15	32.13	33.79	35.43	36.79	37.81	38.53
12	36.22	35.14	33.77	32.21	31.38	31.16	32.16	33.84	35.47	36.81	37.87	38.54
13	36.21	35.13	33.66	32.21	31.36	31.16	32.21	33.88	35.52	36.83	37.90	38.54
14	36.21	35.10	33.63	32.16	31.34	31.16	32.25	33.93	35.57	36.87	37.91	38.54
15	36.18	35.01	33.59	32.13	31.33	31.19	32.34	34.01	35.63	36.92	37.93	38.55
16	36.16	34.98	33.54	32.06	31.31	31.21	32.38	34.05	35.68	36.95	37.95	38.56
17	36.13	34.94	33.50	32.03	31.30	31.22	32.44	34.08	35.74	36.98	37.97	38.60
18	36.10	34.91	33.44	31.98	31.29	31.24	32.47	34.19	35.81	37.01	38.01	38.62
19	36.07	34.80	33.39	31.94	31.26	31.23	32.53	34.20	35.84	37.05	38.04	38.64
20	36.05	34.71	33.34	31.91	31.26	31.38	32.57	34.25	35.90	37.08	38.07	38.64
21	36.03	34.55	33.30	31.87	31.26	31.36	32.63	34.31	35.94	37.12	38.09	38.63
22	36.01	34.55	33.25	31.85	31.24	31.34	32.68	34.36	36.01	37.13	38.13	38.63
23	35.93	34.51	33.21	31.82	31.22	31.39	32.74	34.40	36.04	37.17	38.15	38.63
24	35.90	34.47	33.13	31.78	31.21	31.41	32.82	34.46	36.12	37.20	38.20	38.63
25	35.89	34.43	33.10	31.76	31.21	31.45	32.85	34.52	36.17	37.25	38.22	38.62
26	35.86	34.41	33.04	31.70	31.19	31.50	32.93	34.56	36.20	37.29	38.26	38.61
27	35.84	34.38	32.98	31.67	31.18	31.53	32.95	34.61	36.24	37.32	38.28	38.60
28	35.82	34.34	32.93	31.66	31.17	31.56	33.06	34.67	36.31	37.34	38.32	38.58
29	35.78		32.86	31.64	31.16	31.58	33.12	34.72	36.35	37.38	38.34	38.57
30	35.73		32.83	31.60	31.16	31.63	33.15	34.78	36.39	37.42	38.37	38.56
31	35.68		32.79		31.14		33.16	34.82		37.45		38.54

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: 1932-53.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.38	Apr. 5	3.98	July 12	9.96	Oct. 4	11.65
10	4.48	12	3.40	18	9.60	11	11.71
17	5.48	19	4.18	26	10.18	12	11.81
24	4.10	26	4.98	Aug. 2	10.39	18	11.80
Feb. 1	4.63	May 3	5.60	9	10.63	Nov. 1	11.89
8	4.25	10	5.73	16	10.84	8	11.96
15	4.38	17	6.24	23	11.80	15	12.80
21	5.15	23	6.78	30	11.20	22	12.80
Mar. 1	3.98	June 14	8.63	Sept. 6	11.33	29	12.10
7	3.84	21	7.18	13	11.40	Dec. 6	12.13
15	3.38	28	7.62	22	11.61	13	11.68
22	3.89	July 5	8.21	27	11.35	28	10.80
29	3.48						

2. Baptist parsonage. Garner. Lat. 35°43', long. 78°37'. Dug domestic water-table well in weathered granite gneiss, diameter 7 feet, depth 30 feet. Highest water level 23.50 below lsd, Sept. 1, 1949; lowest 29.46 below lsd, Dec. 1, 1953. Records available: 1946-53. Jan. 2, 28.12; Feb. 2, 27.68; Mar. 2, 26.86; Apr. 1, 25.96; May 1, 25.78; Nov. 2, 29.23; Dec. 1, 29.46.

Wilson County

122. M. P. Whitley. Near Wilson. Lat. 35°42', long. 77°57'. Drilled domestic artesian well in sand of Tuscaloosa formation, diameter 6 inches, depth 212 feet, cased to 211. Highest water level 12.31 below lsd, Feb. 26, 1948; lowest 22.86 below lsd, Dec. 28, 1951. Records available: 1947-53. Feb. 25, 14.96; Dec. 30, 22.19.

149. Town of Stantonsburg. Lat. 35°36', long. 77°49'. Drilled municipal artesian well in sand of Tuscaloosa formation, diameter 6 inches, depth 151 feet, cased to 151. Highest water level 19.31 below lsd, Nov. 26, 1947; lowest 23.95 below lsd, Dec. 28, 1951. Records available: 1947-53. Feb. 25, 22.69; Nov. 17, 23.89; Dec. 30, 23.49.

151. W. R. Rogers. Near Stantonsburg. Lat. 35°36', long. 77°50'. Jetted domestic artesian well in sand of Tuscaloosa formation, 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. Measurement discontinued.

SOUTH CAROLINA

By George E. Siple

Scope of Water-Level Program

The maintenance of a Federal and State observation-well program was continued during 1953, and included as part of the cooperative agreement for ground-water investigations, begun in 1946, with the South Carolina Research, Planning and Development Board. Periodic tape or pressure-gage measurements were made in 15 wells in the Coastal Plain province. One well was equipped with a recording gage. Water-level measurements were made in wells in Aiken, Barnwell, and Allendale Counties, the records of which will be included in a report being prepared for the U. S. Atomic Energy Commission. Figure 36 shows the location of observation wells listed in this report.

Precipitation

The average annual precipitation as reported by the U. S. Weather Bureau was 47.38 inches during 1953, which was 0.06 inch below normal. Ordinarily the heaviest rainfall is received during July and the least during November. In 1953 there were two periods of very dry weather, July-August and October-November. Temperatures for the year averaged 64.0 or 0.8 above normal. Rainfall was somewhat below normal during January but above normal during February and March. During April rainfall was about 37 percent below normal, but slightly above normal in May and near normal in June. July was unusually dry with most areas receiving 2 inches less rain than normally. During August rainfall was 20 percent below normal but averaged 36 percent above normal in September. October and November were very dry, the rainfall in October being only 18 percent of normal. The second heaviest rainfall since 1887 occurred in December.

Interpretation of Water-Level Fluctuations

The Coastal Plain aquifers consist of deposits of sand, gravel, and limestone ranging from Late Cretaceous to Recent in age. These deposits crop out in belts generally in a northeast-southwest direction, dipping from 8 to 30 feet per mile to the southeast. Water-table aquifers are present throughout the entire Coastal Plain and artesian aquifers may be found in most of the area. Water-level fluctuations in the water-table aquifers can generally be correlated with the amount of precipitation in immediate area. This correlation, however, is more apparent during the period from November or December through the following April or May. Thus, the annual cycle of water-level changes show a gradual rise of water levels in the late fall or early winter, reaching a maximum in February or March, then starting to decline in April or May and continuing to decline until late summer. Normally the largest amount of rainfall is received during the months of July and August. But the nature of this rainfall results in a large amount of surface runoff, which, together with the high evaporation and transpiration, leaves little or no water to recharge the aquifer. Thus, the water levels continue to decline during this period of high rainfall. The hydrograph for Sumter 2 for the year 1953 showed an almost continuous decline in water levels for the entire year, which was exactly the reverse of the hydrograph for this well for the year 1952. But there was a deficiency of rainfall in 1953; and a greater amount of pumping in nearby wells during the year. The hydrograph for water-table well Orangeburg 2 shows a maximum range in water-level fluctuation of 1.51 feet for 1953. This was less than half the range of fluctuations for 1952; it represents the approximate range of water levels caused by pumping in the nearby well. Water-level changes in Sumter 1 reflected in general the changes in rainfall, except for the summer or early fall months when little if any of this rainfall recharges the aquifer. Fluctuations in water levels in artesian wells are caused by several factors, such as proximity to pumping wells, atmospheric pressure, oceanic tides, earth tides, and other loading phenomena. In many instances the cycle of fluctuation will show in general a similarity to that of the water-table wells in that the highs are produced in the winter and spring months followed by a recession in the summer months. Typical examples are the hydrographs for wells Dorchester 1, Florence 1, and Horry 3. Aiken well 1 is an example of a well whose water-level changes reflect correlative changes in barometric pressure. The barometric efficiency of this well was calculated to range from 33 to 40 percent. Figure 37 shows a comparison between the range of water levels observed in 1953 as compared with past maximum and minimum levels.

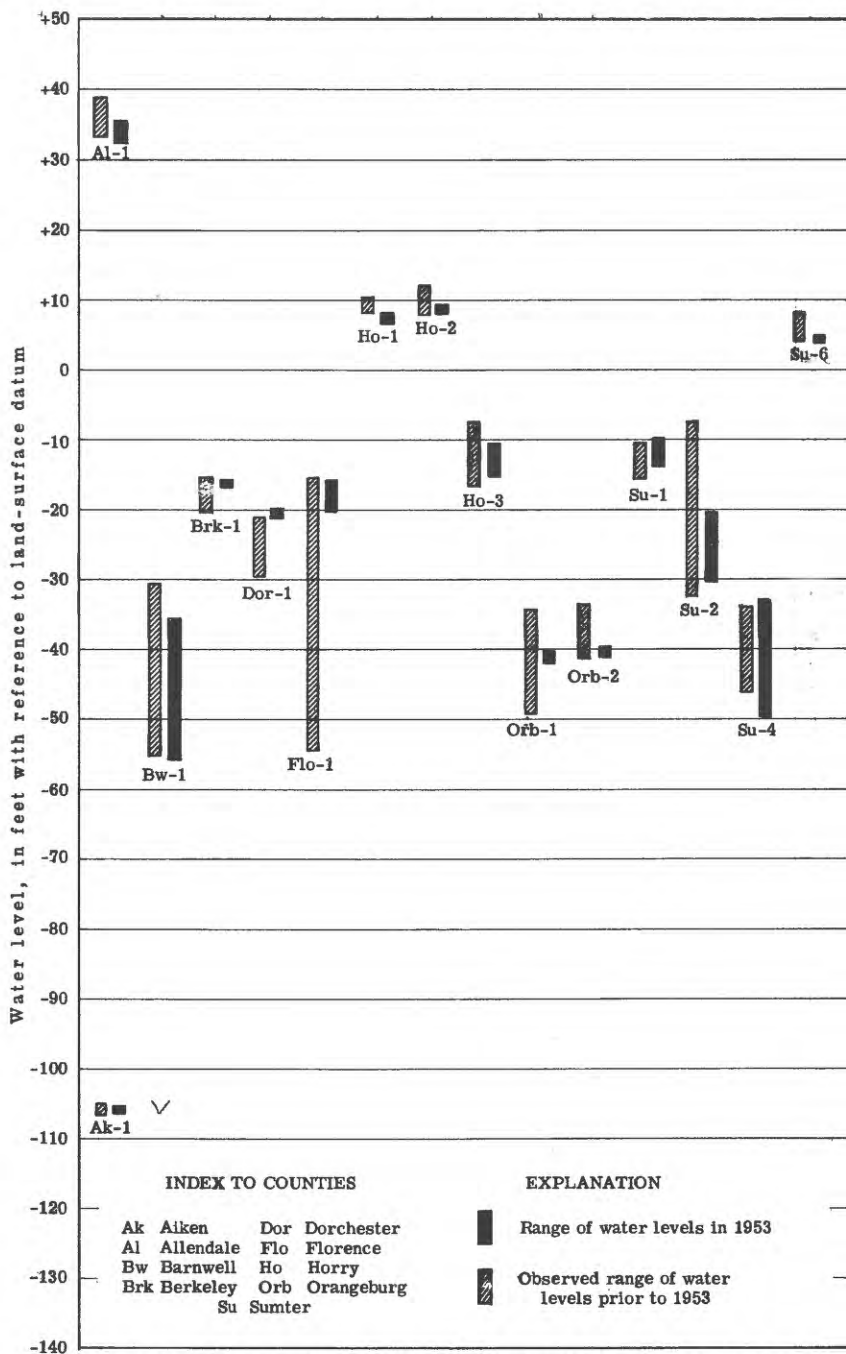


Figure 37. --Range of water levels in 1953 and range of water levels observed during period of record in selected observation wells in South Carolina.

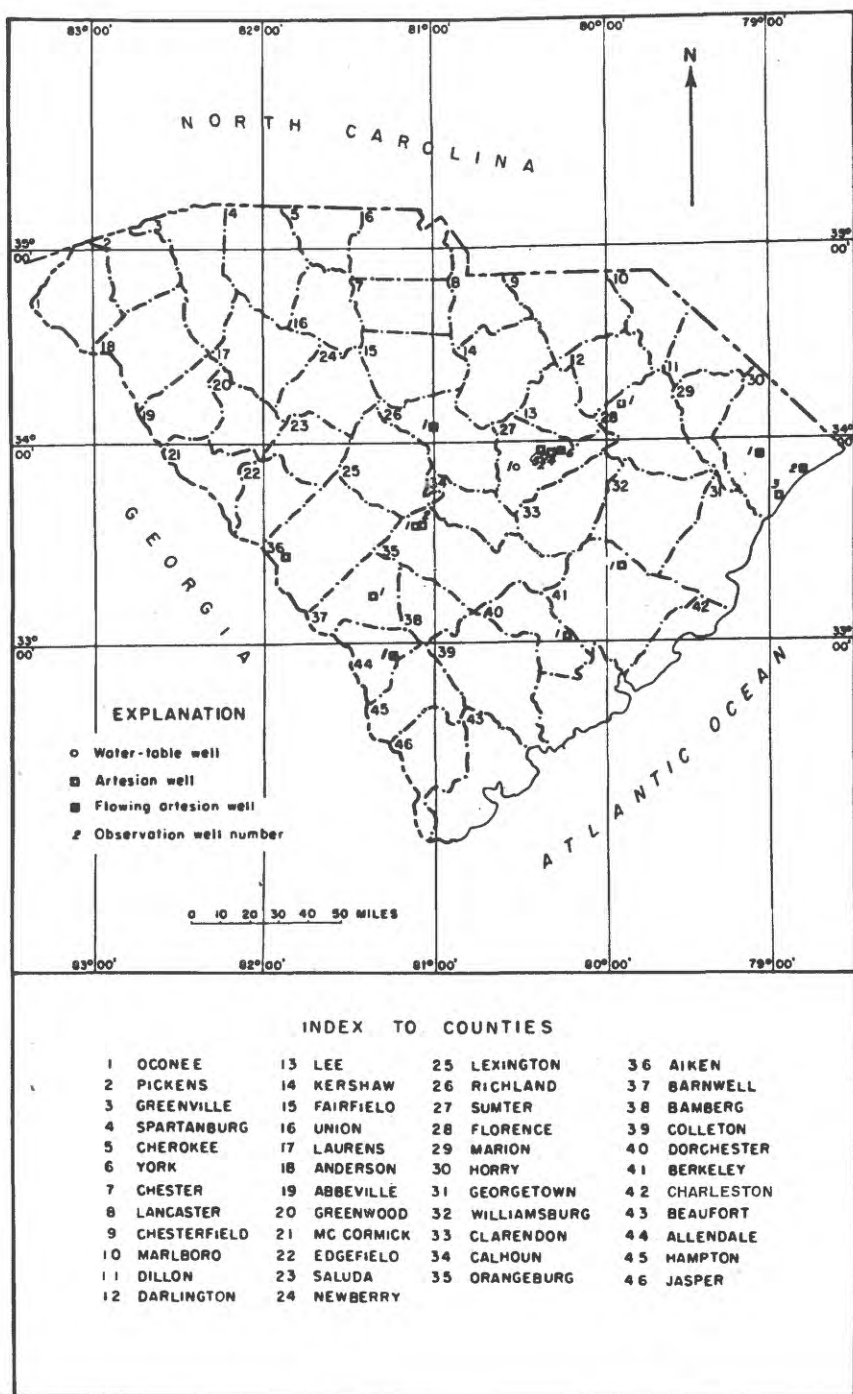


Figure 36. --Location of observation wells in South Carolina, 1953.

Well-Numbering System

Wells are arranged alphabetically by county and serially within each county.

Well Descriptions and Water-Level Measurements

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

Aiken County

1. Lyles & Lang Construction Co. Lat. 33°26', long. 81°53'. Drilled unused artesian well in sand of Late Cretaceous age, diameter 10 inches, depth 320 feet. Land-surface datum is about 254 feet above msl. Highest water level 94.50 below lsd, Apr. 2, 1952; lowest 96.10 below lsd, July 14, 1952. Records available: 1952-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	95.48	95.23	95.14	95.36	95.29	95.46	95.62	95.50	95.80	95.89	95.99
2	95.44	95.47	.....	95.14	95.41	95.38	95.44	95.58	95.49	95.83	95.97	95.99
3	95.35	95.46	95.28	95.20	95.45	95.41	95.49	95.56	95.49	95.87	95.95	95.97
4	95.44	95.47	95.13	95.27	95.45	95.44	95.52	95.60	95.46	95.86	95.90	95.93
5	95.48	95.54	95.17	95.33	95.41	95.44	95.53	95.47	95.44	95.82	95.84	.....
6	95.48	95.54	95.33	95.33	95.32	95.44	95.55	95.50	95.42	95.74	95.90	.....
7	95.50	95.46	95.33	95.22	95.20	95.43	95.53	95.58	95.49	95.85	95.93	95.93
8	95.50	95.58	.....	95.34	95.00	95.41	95.51	95.60	95.73	95.87	95.93	95.93
9	95.40	95.66	.....	95.35	94.75	95.42	95.49	95.56	95.75	95.86	95.94	95.91
10	95.30	95.67	95.39	95.33	94.64	95.44	95.50	95.63	95.74	95.77	95.90	95.87
11	95.59	95.64	95.38	95.33	94.63	95.42	95.57	95.67	95.73	95.73	95.91	95.90
12	.....	95.52	95.29	95.31	94.63	95.44	95.60	95.69	95.68	95.79	95.93	95.90
13	95.68	95.49	95.29	95.32	94.61	95.40	95.64	95.67	95.71	95.86	95.95	95.80
14	95.68	95.52	95.27	95.44	94.75	95.42	95.70	95.64	95.73	95.86	95.96	95.59
15	95.66	95.38	95.25	95.47	94.91	95.52	95.76	95.69	95.73	95.86	95.93	95.85
16	95.65	95.43	95.27	95.40	95.01	95.57	95.77	95.72	95.70	95.81	95.90	95.92
17	95.62	95.53	95.23	95.46	95.05	95.56	95.75	95.75	95.71	95.80	95.91	96.01
18	95.57	95.65	95.20	95.46	95.06	95.53	95.63	95.80	95.76	95.85	95.91	96.02
19	95.49	95.65	95.14	95.39	95.08	95.58	95.57	95.71	95.75	95.90	95.91	96.02
20	95.48	95.59	95.21	95.46	95.17	95.62	95.58	95.73	95.70	95.87	95.90	95.99
21	95.48	95.42	95.24	95.51	95.21	95.64	95.59	95.73	95.80	95.82	95.87	95.91
22	95.59	95.57	95.23	95.55	95.23	95.62	95.56	95.73	95.90	95.82	95.87	95.83
23	95.59	95.57	95.22	95.54	95.20	95.57	95.53	.....	95.94	95.78	95.82	95.87
24	95.45	95.51	95.17	95.49	95.20	95.53	95.59	.....	95.94	95.69	95.77	95.95
25	95.58	95.37	95.11	95.47	95.20	95.56	95.61	95.69	95.88	95.82	95.77	95.95
26	95.61	95.25	95.07	95.41	95.16	95.57	95.62	95.72	95.79	95.83	95.89	95.81
27	95.60	95.20	95.05	95.42	95.17	95.54	95.62	95.73	95.56	95.83	95.93	95.86
28	95.55	95.21	95.04	95.48	95.26	95.55	95.62	95.73	95.67	95.79	96.03	95.90
29	95.53		95.12	95.45	95.33	95.55	95.63	95.73	95.73	95.75	96.07	95.87
30	95.55		95.16	95.43	95.31	95.52	95.65	95.73	95.78	95.81	96.06	95.86
31	95.54		95.16		95.29		95.65	95.71		95.86		95.89

Allendale County

1. Mr. Easton. Fairfax. Lat. 32°57', long. 81°14'. Drilled unused artesian well in sands of Late Cretaceous age, diameter 8 inches, depth 660 feet. Land-surface datum is about 135 feet above msl. Highest water level 39.0 above lsd, June 19, 1947; lowest 32.2 above lsd, Aug. 27, Oct. 31, 1953. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	+34.2	Apr. 26	+34.5	July 25	+34.0	Oct. 31	+32.2
Mar. 1	+35.1	May 29	+34.0	Aug. 27	+32.2	Nov. 30	+33.4
29	+34.5	June 27	+34.5	Sept. 26	+33.4	Dec. 30	+33.4

Barnwell County

1. Town of Barnwell. Lat. 33°14', long. 81°21'. Drilled unused artesian well in sand of Tertiary age, diameter 6 inches, depth 145 feet. Land-surface datum is about 215 feet above msl. Highest water level 31.28 below lsd, Mar. 27, 1952; lowest 56.92 below lsd, Sept. 15, 1953. Records available: 1948-53.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	45.63	Apr. 21	38.35	Aug. 11	54.83	Oct. 23	49.65
20	58.79	26	47.27	18	52.70	26	48.24
28	54.88	28	48.05	25	53.60	Nov. 2	40.19
29	54.64	May 5	47.56	Sept. 1	48.36	9	32.58
Feb. 3	54.54	12	50.05	8	53.76	16	47.95
11	50.54	19	51.54	15	56.92	17	46.33
18	48.00	29	53.07	21	56.00	23	42.88
Mar. 1	44.72	June 2	56.77	28	54.20	27	38.63
3	44.10	9	52.94	Oct. 5	50.11	Dec. 7	37.00
17	37.93	27	53.87	12	51.89	14	40.54
24	36.38	July 21	53.28	19	49.53	17	38.60
29	38.51	28	54.28	20	49.38	21	39.59
Apr. 14	37.21	Aug. 4	52.36	22	50.64	28	41.22

Berkeley County

1. Santee River Hardwood Co. Saint Stephen. Lat. 33°25', long. 79°56'. Drilled unused artesian well in sand of Late 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: 1946-53.

Feb. 1	16.60	Apr. 26	16.38	July 25	16.99	Oct. 31	17.00
Mar. 1	16.40	May 29	16.74	Aug. 27	16.82	Nov. 30	16.95
29	16.25	June 27	16.65	Sept. 26	16.90	Dec. 30	16.61

Dorchester County

1. Town of Summerville. Near town hall on Main St. Lat. 33°01', long. 80°10'. Drilled unused artesian well in sand of Late Cretaceous age, diameter 8 inches, depth 925 feet. Land-surface datum is about 70 feet above msl. Highest water level 19.70 below lsd, Dec. 30, 1953; lowest 28.22 below lsd, Apr. 30, 1949. Records available: 1948-53.

Feb. 1	20.42	Apr. 26	20.03	July 25	22.36	Oct. 31	21.48
Mar. 1	20.10	May 29	20.72	Aug. 27	22.48	Nov. 30	21.10
29	19.97	June 27	21.56	Sept. 26	22.21	Dec. 30	19.70

Florence County

1. Town of Timmons ville. Near reservoir. Lat. 34°08', long. 79°51'. Drilled unused artesian well in sand of Late 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: 1950-53.

Feb. 1	16.75	Apr. 26	16.82	July 26	19.47	Oct. 30	20.60
Mar. 1	16.27	May 29	18.60	Aug. 30	20.15	Dec. 1	19.79
29	16.27	June 28	19.38	Sept. 27	19.83	30	20.03

Horry County

1. St. Paul's Baptist Church. Lat. 33°53', long. 79°03'. Drilled unused artesian well in sand of Late 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 6.7 above lsd, Aug. 29, 1953. Records available: 1947-53.

Feb. 1	+8.1	Apr. 26	+8.1	July 26	+7.0	Dec. 1	+7.5
Mar. 1	+8.4	May 29	+8.4	Aug. 29	+6.7	30	+7.0
29	+8.1	June 28	+7.3	Sept. 27	+7.0		

2. K. C. Ellsworth. Briarcliff Acres. Lat. 33°48', long. 78°42'. Drilled domestic artesian well in Black Creek formation, diameter 10 inches, depth 587 feet. Land-surface datum is about 25 feet above msl. Highest water level 12.5 above lsd, Jan. 31, 1951; lowest 8.1 above lsd, Mar. 29, July 25, 1953. Records available: 1947-53. Feb. 1, +8.7; Mar. 29, +8.1; Apr. 26, +8.7; May 29, +9.3; July 25, +8.1.

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 17.79 below lsd, Aug. 26, 1952. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	12.55	Apr. 26	12.57	July 25	15.57	Oct. 31	13.17
Mar. 1	12.25	May 29	14.00	Aug. 27	13.54	Dec. 1	13.03
29	11.16	June 28	13.87	Sept. 27	12.75	30	10.97

Orangeburg County

1. Town of North. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sand 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: 1946-53.

Jan. 29	41.07	Apr. 26	39.80	July 25	40.26	Oct. 31	40.97
Mar. 1	41.38	May 29	39.80	Aug. 27	40.25	Nov. 30	40.90
29	40.18	June 27	39.94	Sept. 26	40.74	Dec. 30	40.95

2. Town of North. Lat. 33°37', long. 81°07'. Drilled unused artesian well in sand of Tertiary age, diameter 10 inches, depth 125 feet. Land-surface datum is about 280 feet above msl. Highest water level 33.12 below lsd, Mar. 30, 1949; lowest 41.05 below lsd, Feb. 29, 1952. Records available: 1947-53.

Jan. 29	40.41	Apr. 25	39.73	July 25	39.55	Oct. 31	40.48
Mar. 1	40.10	May 29	38.97	Aug. 27	39.36	Nov. 30	40.20
29	39.29	June 27	39.39	Sept. 26	39.85	Dec. 30	40.44

Richland County

1. Shakespeare Manufacturing Co. Near Columbia. Lat. 34°02', long. 81°00'. Drilled unused water-table well in sand of Tuscaloosa formation, 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 84.10 below lsd, May 16, 1952. Records available: 1949-52. No measurement made in 1953.

Sumter County

1. U. S. Geol. Survey. Poinsett State Park. Near Wedgefield. Lat. 33°53', long. 80°29'. Drilled water-table well in sand of Pleistocene age, diameter 6 inches, depth 29 feet. Land-surface datum is about 190 feet above msl. Highest water level 10.15 below lsd, Mar. 29, 1953; lowest 15.56 below lsd, Feb. 1, 1952. Records available: 1942-43, 1946-49, 1951-53.

Feb. 1	13.81	Apr. 26	11.45	July 26	13.58	Dec. 1	14.45
Mar. 1	10.28	May 29	11.80	Sept. 27	14.14	30	14.41
Mar. 29	10.15	June 28	12.99	Oct. 30	14.09		

2. City of Sumter. Lat. 33°57', long. 80°22'. Jetted unused water-table well in sand 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: 1946-53.

Feb. 1	20.45	Apr. 26	23.41	July 26	25.79	Oct. 30	28.28
Mar. 1	19.70	May 29	24.40	Aug. 30	26.68	Dec. 1	29.40
29	20.85	June 28	25.73	Sept. 27	27.85	30	29.60

4. City of Sumter. Lat. 33°57', long. 80°22'. Drilled public-supply artesian well in sand of Late Cretaceous age, diameter 18 inches, depth 711 feet. Land-surface datum is about 176 feet above msl. Highest water level 32.75 below lsd, Dec. 30, 1953; lowest 48.78 below lsd, May 29, 1953. Records available: 1947-53.

Feb. 1	42.62	Apr. 26	39.30	July 26	37.90	Oct. 30	40.68
5	42.41	May 29	48.78	Aug. 30	39.58	Dec. 1	37.61
Mar. 1	38.55	June 28	34.64	Sept. 27	32.84	30	32.75
29	35.51						

5. City of Sumter. Lat. $33^{\circ}57'$, long. $80^{\circ}22'$. Drilled unused artesian well in sand of Late Cretaceous age, diameter 18 inches, depth 625 feet. Land-surface datum is about 176 feet above msl. Highest water level 25.00 below lsd, Dec. 15, 1950; lowest 48.98 below lsd, May 27, 1952. Records available: 1948-52. No measurement made in 1953.

6. Beulah Methodist Church. Near Sumter. Lat. $33^{\circ}57'30''$, long. $80^{\circ}15'$. Drilled domestic artesian well in sand 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 4.1 above lsd, May 29, June 28, 1953. Records available: 1948-53. Feb. 1, +5.1; Mar. 1, +5.3; Mar. 29, +4.5; Apr. 26, +4.5; May 29, +4.1; June 28, +4.1; Dec. 1, +4.5.

TENNESSEE

By J. H. Criner, Jr., and C. R. Lanphere

Scope of Water-Level Program

The observation-well program in Tennessee was started in Memphis in 1940 and expanded to include west Tennessee in 1947 and central and east Tennessee in 1949. The program was continued in 1953 as a part of the investigation of ground-water resources in the State, cooperatively with the Memphis Light, Gas and Water Division and the Tennessee Department of Conservation, Division of Geology. Measurements were made in 54 wells, 30 of which were equipped with recording gages. Figures 38 to 40 show the location of observation wells. A structural contour map on the Knox dolomite in Middle Tennessee was released for publication and a report on ground water in the Central Basin of Tennessee was completed during the year.

Precipitation

The following table gives the annual precipitation and departure from normal at selected stations in the Tertiary outcrop belt of west Tennessee. Most of the municipal and industrial supplies of west Tennessee are obtained from sands of Tertiary age. The average precipitation for Tennessee in 1953 was 45.58 inches which is 4.67 inches below normal.

Precipitation and departure from normal, 1940-53

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
1952	c38.87	c-3.72	45.45	-4.13	44.46	-5.25	c48.05	c1.48
1953	47.71	-5.99	46.56	-5.89	47.37	-6.33	41.32	-5.25

a Computed using 46.57 as the normal precipitation at Martin.

b Record incomplete.

c Record partially estimated.

Pumpage

The following table gives the estimated daily quantities of water pumped from the "500-foot" and "1,400-foot" sands in the Memphis area since 1941:

Average daily pumpage in the Memphis area

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

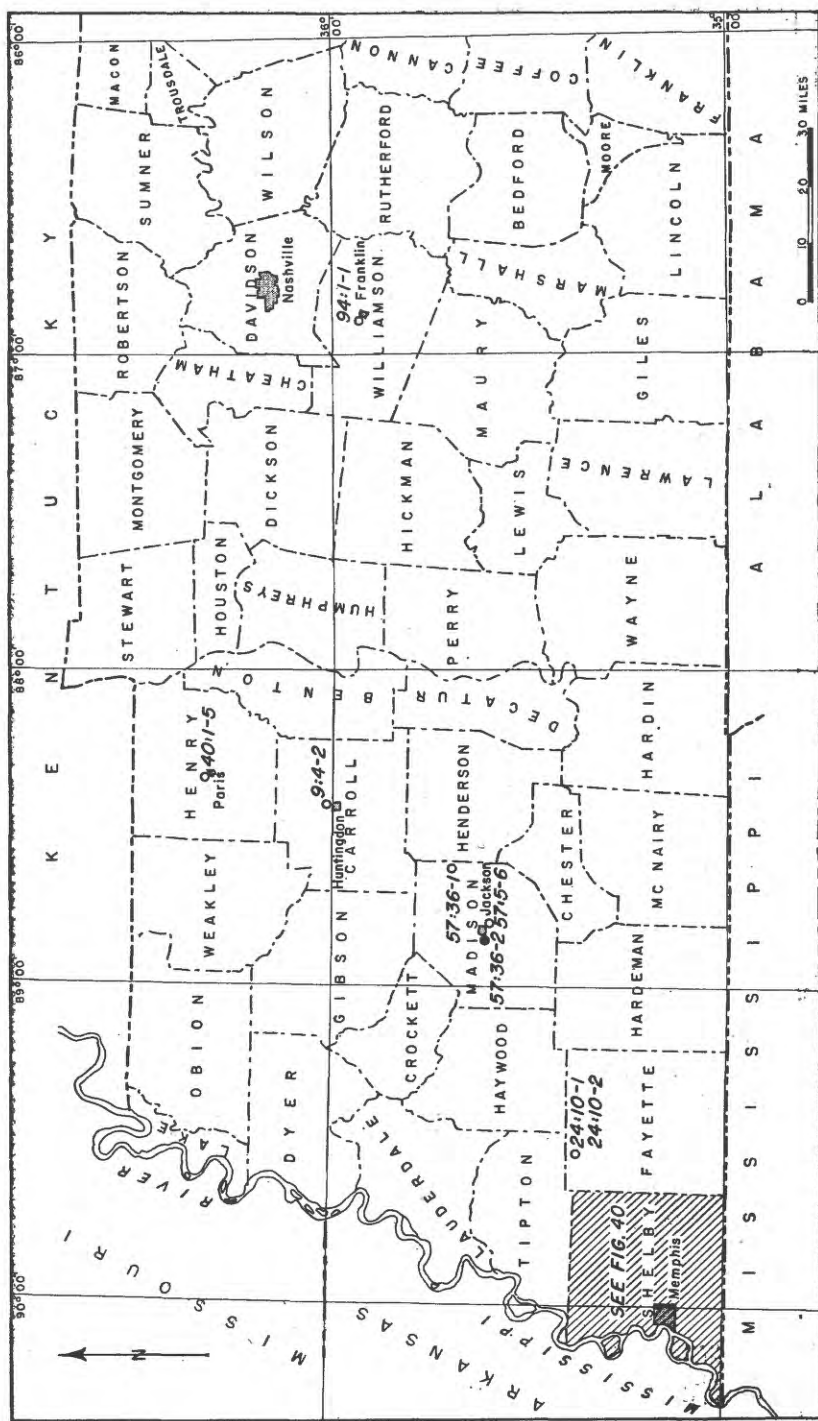


Figure 38.--Location of observation wells in western Tennessee, 1953.

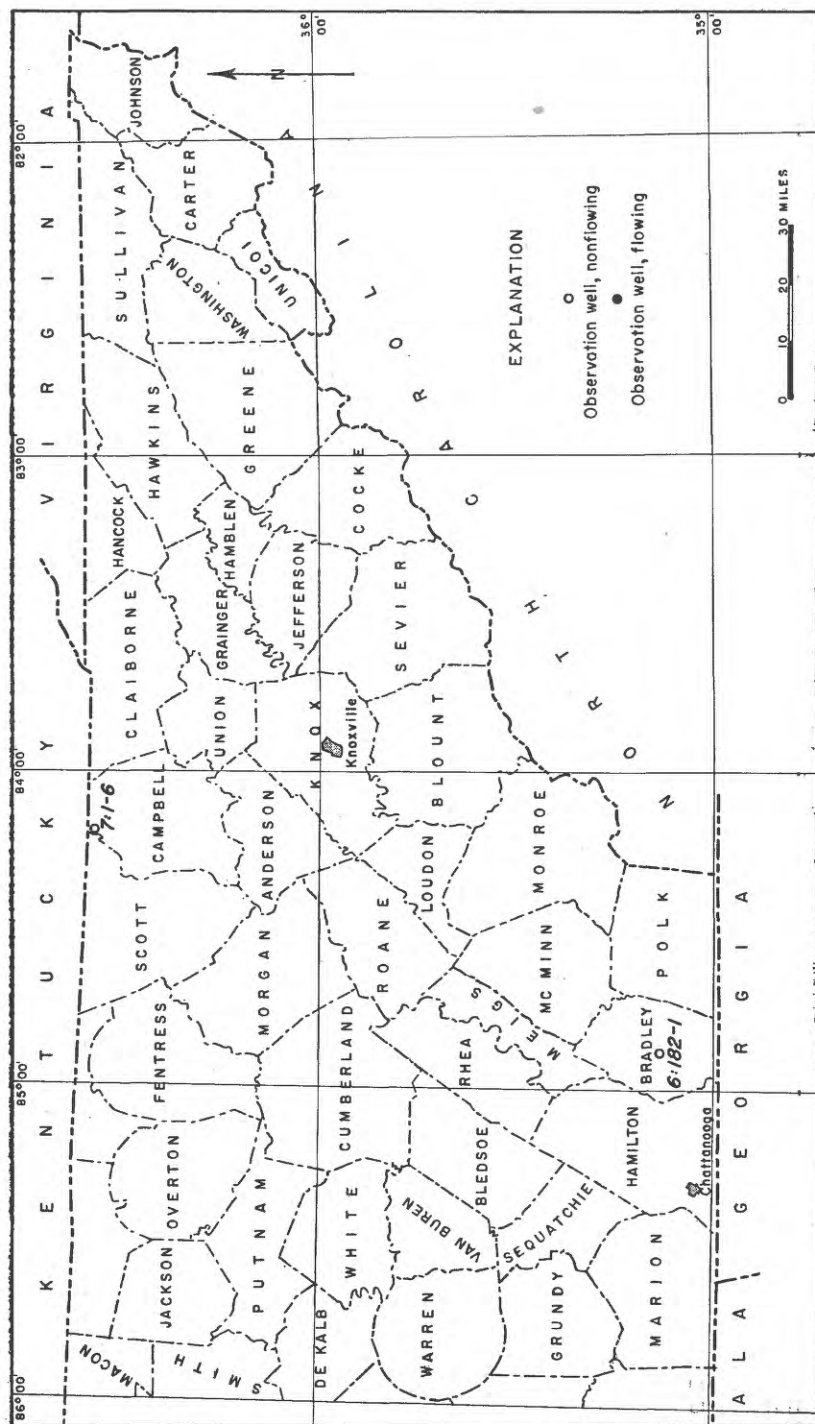


Figure 39. -- Location of observation wells in eastern Tennessee, 1953.

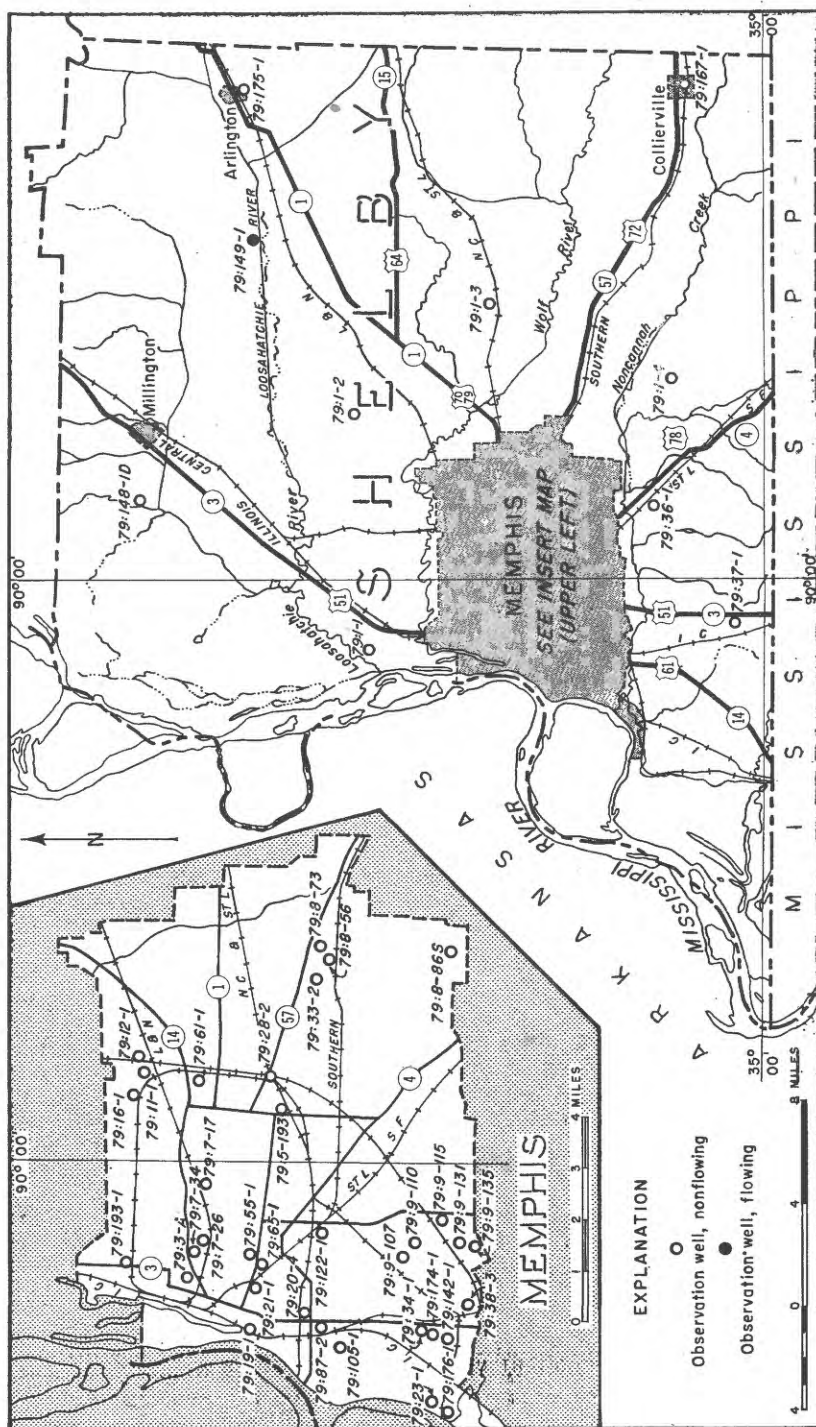


Figure 40. -- Location of observation wells in Shelby County, Tenn., 1953.

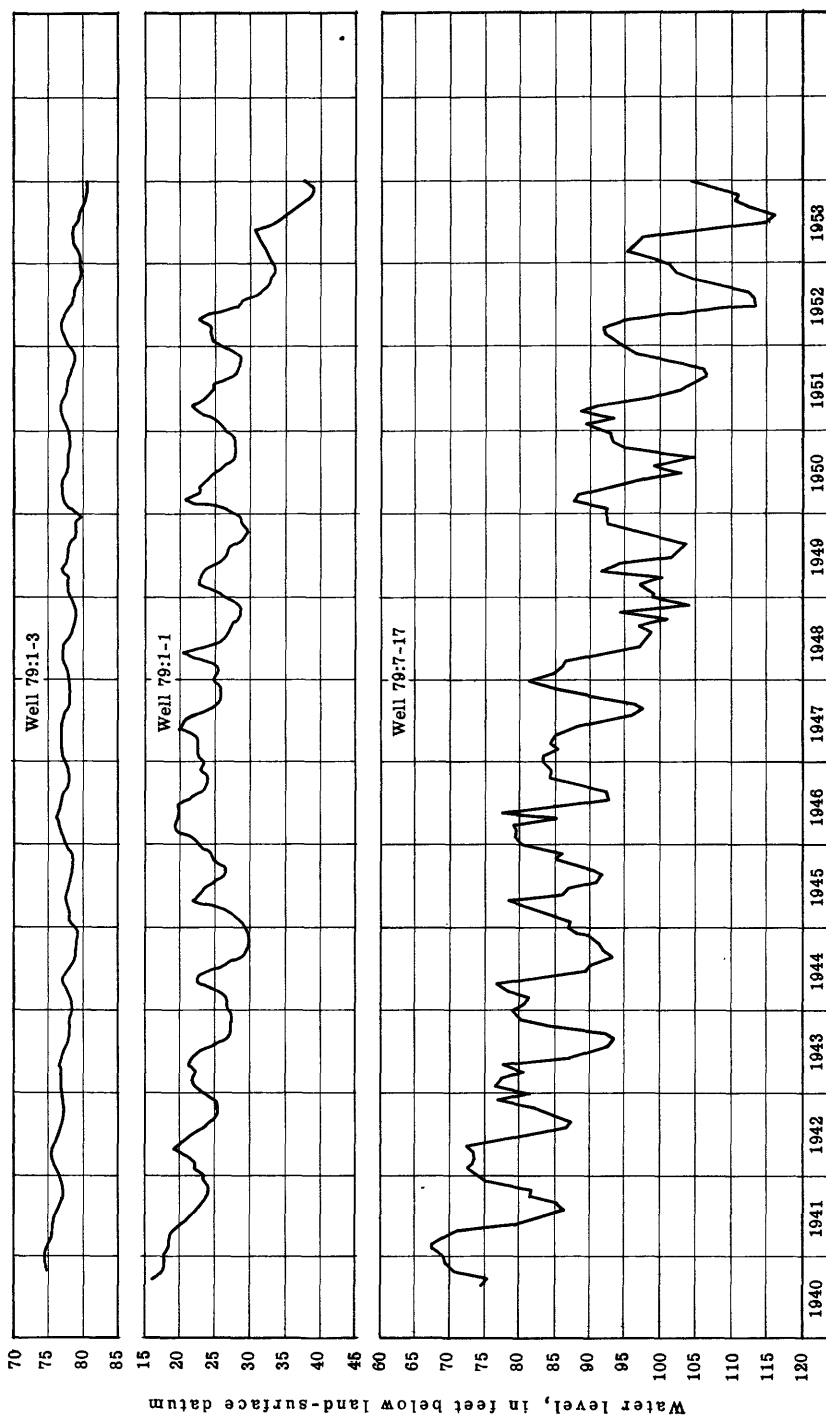


Figure 41. --Water levels in wells in the "500-foot" sand in the Memphis, Tenn., area, 1940-53.

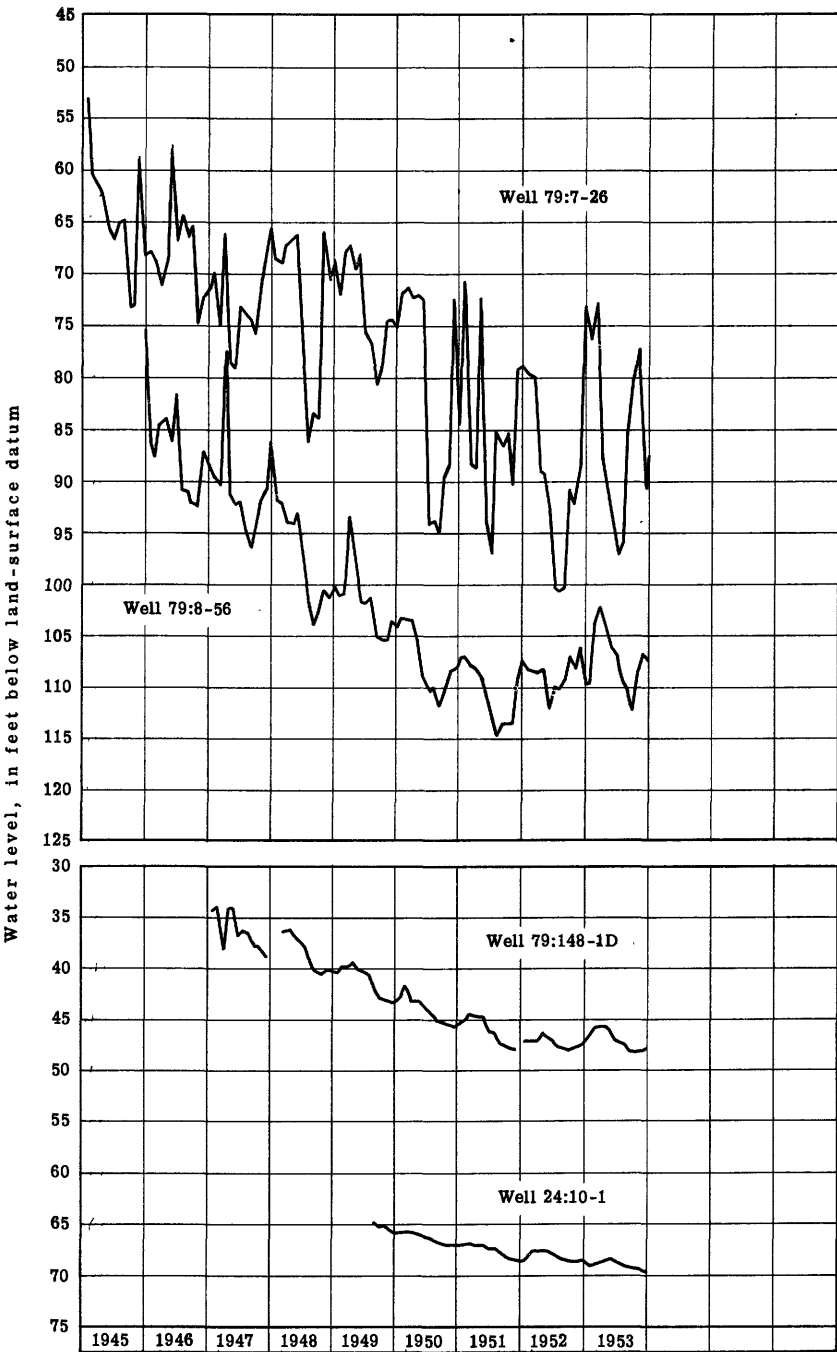


Figure 42. --Water levels in wells in the "1,400-foot" sand in the Memphis, Tenn., area.

Average daily pumpage in the Memphis area--Continued

Year	"500-foot" sand (gallons)	"1, 400-foot" sand (gallons)
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
1952	110,000,000	11,000,000
1953	116,000,000	11,000,000

Interpretation of Water-Level Fluctuations

There was a general decline of water levels in wells screened in the "500-foot" sand in the Memphis area during 1953. This fact can be attributed primarily to increased pumpage. Prolonged drought periods continuing to the end of November were a major cause of the increase, especially in municipal pumpage. The average decline of water levels in wells screened in the "500-foot" sand was about 9.6 feet from the lowest of 1952 to the lowest of 1953. The greatest decline was in the Thomas H. Allen pumping station area where wells were pumped each week throughout the year for the first time. The average decline in this area was about 21 feet. Figure 41 shows the fluctuations of water levels in three wells screened in the "500-foot" sand.

The water levels in observation wells screened in the "1, 400-foot" sand of the Memphis area ranged from 3.5 feet higher to 2.4 feet lower than the lowest levels of 1952. Figure 42 shows the fluctuations of water levels in 4 of these wells. There was no measurable increase in pumpage from the "1, 400-foot" sand and the general trend of the water level was not changed.

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. Near Cleveland. 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 24.54 below lsd, Dec. 12-14, 1953. Records available: 1950-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.85	16.18	14.74	14.92	14.95	18.52	20.40	21.77	22.84	23.71	24.36
2	20.84	16.03	14.87	14.95	15.15	18.62	20.45	21.80	22.87	23.74	24.37
3	20.80	15.60	14.92	15.00	15.32	18.74	20.50	21.84	22.90	23.76	24.39
4	20.79	14.90	15.07	15.00	15.47	18.85	20.52	21.88	22.92	23.78	24.40
5	20.80	14.30	15.12	14.60	15.64	18.90	20.56	21.93	22.94	23.82	24.42
6	20.76	14.33	15.05	13.70	15.77	18.99	20.62	21.98	22.97	23.84	24.44
7	20.70	14.42	15.24	12.63	15.92	19.07	20.66	22.03	23.02	23.86	24.45
8	20.46	14.65	15.33	12.37	16.10	19.17	20.70	22.07	23.05	23.88	24.47
9	20.48	14.74	15.38	12.45	16.28	19.28	20.77	22.12	23.08	23.90	24.49
10	20.44	14.77	15.42	12.52	16.42	19.35	20.83	22.14	23.10	23.92	24.50
11	20.36	14.77	15.49	12.61	16.55	19.41	20.87	22.17	23.14	23.95	24.53
12	19.22	14.75	15.40	12.76	16.60	19.47	20.91	22.20	23.17	23.97	24.54
13	18.35	14.70	14.96	12.95	16.68	19.53	20.94	22.24	23.20	24.00	24.54
14	18.35	14.62	15.05	13.00	16.82	19.63	20.98	22.27	23.23	24.02	24.54
15	h22.25	17.90	14.57	14.98	13.25	16.98	19.72	21.03	22.30	23.25	24.04	24.52

6:182-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	22.22	17.36	14.65	14.96	13.35	17.06	19.78	21.07	22.34	23.28	24.05	24.50
17	22.21	17.40	14.62	15.00	13.48	17.15	19.85	21.12	22.37	23.32	24.07	24.48
18	22.18	17.57	14.47	14.96	13.61	17.26	19.88	21.15	22.42	23.34	24.10	24.46
19	22.12	17.65	14.64	15.08	13.61	17.38	19.95	21.20	22.44	23.37	24.12	24.44
20	22.07	17.61	14.72	15.17	13.12	17.50	20.00	21.25	22.48	23.40	24.14	24.42
21	22.02	16.14	14.75	15.22	13.22	17.68	20.05	21.32	22.54	23.43	24.15	24.40
22	21.97	16.12	14.80	15.25	13.30	17.75	20.06	21.35	22.58	23.45	24.17	24.40
23	21.85	16.07	14.80	15.28	13.46	17.85	19.97	21.40	22.62	23.47	24.18	24.40
24	21.65	16.10	14.75	15.35	13.60	17.95	19.95	21.43	22.65	23.50	24.20	24.40
25	21.35	16.05	14.75	15.35	13.75	18.05	20.06	21.47	22.65	23.53	24.23	24.41
26	21.12	16.05	14.74	15.50	13.90	18.15	20.11	21.52	22.67	23.55	24.25	24.40
27	21.07	16.05	14.66	15.60	14.17	18.23	20.15	21.56	22.70	23.58	24.27	24.40
28	21.05	16.20	14.55	15.65	14.40	18.35	20.20	21.60	22.73	23.60	24.30	24.39
29	21.01		14.66	15.67	14.49	18.44	20.31	21.63	22.78	23.64	24.32	24.38
30	20.95		14.70	15.61	14.60	18.50	20.32	21.67	22.81	23.65	24.34	24.38
31	20.92		14.66		14.74		20.35	21.72		23.68		24.38

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: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.67	75.53	.....	74.89	75.14	75.18	73.78	74.84	75.62	76.29	76.72	77.06
2	76.63	75.55	h74.57	74.98	75.22	75.18	73.86	74.77	75.61	76.31	76.74	77.05
3	76.55	75.53	74.62	74.97	75.26	75.20	73.96	74.77	75.63	76.34	76.72	77.02
4	76.57	75.63	74.34	75.03	75.28	75.24	73.85	74.77	75.66	76.32	76.75	77.10
5	76.61	75.63	74.39	75.03	75.24	75.29	73.91	74.65	75.71	76.26	76.77	77.10
6	76.64	75.63	74.47	74.92	75.22	75.34	73.98	74.68	75.70	76.37	76.77	77.14
7	76.57	75.66	74.50	74.96	75.02	75.29	74.08	74.74	75.79	76.44	76.81	77.15
8	76.52	76.76	74.62	75.02	74.91	75.25	74.19	74.76	75.81	76.44	76.85	77.13
9	76.20	75.80	74.62	74.96	74.97	75.30	74.32	74.83	75.80	76.41	76.85	77.04
10	75.95	75.79	74.61	75.04	74.99	75.36	74.40	74.90	75.80	76.39	76.85	76.92
11	75.78	75.68	74.68	75.04	75.02	75.29	74.46	74.94	75.77	76.42	76.85	76.93
12	75.78	75.49	74.67	74.95	75.06	75.28	74.50	74.98	75.80	76.51	76.88	76.86
13	75.82	75.37	74.73	75.06	75.14	75.25	74.55	74.97	75.84	76.54	76.93	76.80
14	75.86	75.28	74.73	75.12	75.12	75.08	74.63	75.03	75.86	76.57	76.88	76.70
15	75.87	75.22	74.83	75.01	75.19	75.03	74.74	75.08	75.85	76.56	76.90	76.73
16	75.93	75.24	74.86	75.02	75.16	75.02	74.76	75.12	75.87	76.54	76.91	76.79
17	75.83	75.36	74.84	75.03	75.13	74.88	74.74	75.14	75.93	76.59	76.94	.....
18	75.82	75.38	74.77	75.09	75.13	74.92	74.75	75.16	75.97	76.65	76.99	.....
19	75.79	75.35	74.78	75.14	75.07	74.98	74.73	75.19	75.95	76.54	76.99	.....
20	75.74	75.30	74.79	75.15	74.63	75.05	74.74	75.24	75.96	76.54	76.95	.....
21	75.67	75.10	74.82	75.14	74.50	75.10	74.77	75.31	76.12	76.54	76.99	h76.60
22	75.56	74.59	74.81	75.13	74.54	74.85	74.78	75.36	76.17	76.54	76.99	76.87
23	75.43	74.48	74.83	75.18	74.67	74.75	74.88	75.34	76.16	76.51	76.96	76.96
24	75.38	74.43	74.81	75.19	74.70	73.74	74.95	75.42	76.16	76.56	76.88	76.98
25	75.54	74.35	74.87	75.18	74.77	73.85	75.01	75.45	76.14	76.60	76.92	76.89
26	75.54	74.45	74.86	75.26	74.83	74.02	75.07	75.44	76.07	76.62	77.00	.....
27	75.45	74.58	74.85	75.31	75.01	74.09	75.05	75.44	76.08	76.55	77.06	.....
28	75.47	74.64	74.86	75.31	75.07	74.16	75.04	75.45	76.15	76.62	.....	h76.81
29	75.46		74.95	75.30	75.03	74.17	75.10	75.50	76.20	76.63	.....	76.85
30	75.46		74.95	75.25	75.02	73.88	75.15	75.53	76.27	76.69	h77.04	76.96
31	75.46		74.91		75.06		75.01	75.58		76.69		76.01

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 0.84 below lsd, Apr. 24, 1952; lowest 6.57 below lsd, June 10, 1948. Records available: 1948-53.

9:4-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	1.77	Apr. 17	2.33	July 10	2.95	Oct. 2	3.48
Feb. 20	1.50	May 15	1.50	Aug. 7	2.52	30	3.23
Mar. 19	1.52	June 12	2.08	Sept. 4	3.29	Nov. 27	2.30

Fayette County

24:10-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Braden. 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 1,008-1,025. Land-surface datum is 317.5 feet above msl. Highest water level 64.89 below lsd, Aug. 31, 1949; lowest 69.58 below lsd, Dec. 5, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.95	68.80	68.57	68.43	68.24	68.33	.....	68.74	69.06	69.32	69.39	69.42
2	68.87	68.76	68.53	68.46	68.32	68.37	68.55	68.75	69.03	69.32	69.42	69.37
3	68.88	68.72	68.53	68.46	68.38	68.36	68.57	68.79	69.00	69.35	69.41	69.34
4	68.89	68.77	68.52	68.51	68.38	68.35	68.61	68.79	69.05	69.32	69.41	69.34
5	68.90	68.73	68.63	68.46	.....	68.37	68.62	68.77	69.11	69.25	69.43	69.58
6	68.90	68.72	68.65	68.30	.....	68.38	68.62	68.79	69.10	69.34	.....	69.46
7	68.88	68.73	68.65	68.34	68.28	68.39	68.62	68.82	69.14	69.38	.....	69.46
8	68.80	68.80	68.69	68.34	68.32	68.40	68.63	68.81	69.19	69.35	69.47	69.42
9	68.78	68.86	68.69	68.35	68.37	68.46	68.71	68.84	69.17	69.32	69.48	69.38
10	68.84	68.86	68.64	68.42	68.35	68.50	68.74	68.86	69.16	69.28	69.48	69.39
11	68.98	68.69	68.58	68.41	.....	68.48	68.72	68.87	69.13	69.29	69.45	69.36
12	68.98	68.63	68.57	68.43	68.29	68.48	68.70	68.88	69.13	69.35	69.48	69.35
13	68.90	68.66	68.57	68.49	68.30	68.42	68.68	68.87	69.15	69.38	69.51	69.34
14	68.89	68.63	68.53	68.50	68.30	68.39	68.69	68.86	69.10	69.40	69.51	69.36
15	68.90	68.63	68.58	68.42	68.28	68.39	68.72	68.87	69.09	69.40	69.47	69.39
16	69.00	68.75	68.63	68.49	68.20	68.41	68.73	68.87	69.11	69.40	69.45	69.50
17	68.96	68.81	68.56	68.44	68.11	68.45	68.70	68.90	69.13	69.40	69.45	69.55
18	68.88	68.78	68.53	68.46	68.11	68.45	68.70	68.92	69.15	69.42	69.44	69.55
19	68.82	68.72	68.53	68.47	68.13	68.46	68.71	68.93	69.12	69.42	69.43	69.48
20	68.81	68.61	69.51	68.51	68.16	68.47	68.72	68.93	69.12	69.45	69.40	69.35
21	68.87	68.80	68.44	68.47	68.19	68.50	68.67	68.97	69.28	69.42	69.41	69.34
22	68.86	68.81	68.44	68.41	68.20	68.53	68.49	68.98	69.34	69.42	69.32	69.52
23	68.76	68.80	68.42	68.42	68.26	68.54	68.59	68.98	69.31	69.40	69.30	69.53
24	68.82	68.70	68.49	68.39	68.27	68.53	68.65	68.98	69.27	69.38	69.21	69.53
25	68.86	68.60	68.52	.....	68.30	68.54	68.68	69.00	69.26	69.38	69.29	69.44
26	68.81	68.60	68.53	68.39	68.32	68.62	68.71	69.00	69.20	69.35	69.34	69.40
27	68.80	68.62	68.53	68.44	.....	68.59	68.71	69.00	69.20	69.24	69.41	69.36
28	68.86	68.64	68.51	68.36	68.40	68.62	68.68	68.98	69.21	69.29	69.47	69.34
29	68.85		68.52	68.27	68.36	.....	68.70	68.98	69.22	69.34	69.45	69.35
30	68.80		68.48	68.19	68.33	.....	68.74	69.00	69.30	69.37	69.41	69.43
31	68.77		68.40		68.32		68.76	69.03		69.36		69.43

24:10-2. Tennessee Division of Geology and U. S. Geol. Survey. Near Braden. 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 345-365. Land-surface datum is 317.2 feet above msl. Highest water level 37.25 below lsd, Mar. 10, 1952; lowest 39.73 below lsd, Dec. 17-18, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.97	39.03	38.81	38.66	38.56	38.48	38.74	38.92	39.16	39.38	39.52	39.60
2	38.92	39.01	38.76	38.70	38.66	38.50	38.69	38.93	39.13	39.39	39.54	39.59
3	38.94	38.97	38.70	38.70	38.71	38.49	38.73	38.95	39.12	39.41	39.53	39.52
4	38.95	39.01	38.84	38.75	38.71	38.48	38.75	38.95	39.15	39.39	39.53	39.54
5	38.98	38.99	38.91	38.72	38.64	38.49	38.77	38.93	39.20	39.33	39.56	39.54
6	38.98	38.97	38.94	38.60	38.64	38.51	38.76	38.95	39.20	39.43	39.56	39.53
7	38.96	39.00	38.94	38.59	38.59	38.51	38.77	38.98	39.22	39.42	39.56	39.56
8	38.93	39.07	38.95	38.60	38.59	38.53	38.80	38.98	39.25	39.42	39.57	39.54
9	38.89	39.12	38.95	38.60	38.62	38.58	38.83	39.00	39.25	39.38	39.57	39.49
10	38.95	39.12	38.89	38.67	38.60	38.62	38.88	39.02	39.23	39.36	39.57	39.55

24:10-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	39.00	38.94	38.80	38.67	38.57	38.60	38.87	39.02	39.20	39.36	39.55	39.54
12	39.00	38.90	38.78	38.67	38.55	38.61	38.84	39.03	39.19	39.42	39.56	39.54
13	39.00	38.94	38.79	38.75	38.55	38.56	38.83	39.02	39.22	39.44	39.59	39.51
14	39.00	38.92	38.74	38.78	38.55	38.52	38.84	39.01	39.20	39.47	39.59	39.56
15	39.00	38.86	38.82	38.71	38.53	38.53	38.87	39.02	39.18	39.47	39.57	39.60
16	39.01	38.93	38.88	38.75	38.44	38.56	38.88	39.01	39.20	39.46	39.54	39.71
17	39.01	39.05	38.84	38.72	38.31	38.59	38.86	39.04	39.23	39.46	39.54	39.73
18	39.00	39.05	38.68	38.71	38.30	38.59	38.86	39.06	39.24	39.48	39.54	39.73
19	38.96	39.01	38.76	38.76	38.31	38.60	38.87	39.07	39.22	39.48	39.53	39.69
20	38.93	38.88	38.75	38.80	38.33	38.61	38.88	39.08	39.21	39.50	39.51	39.60
21	39.00	39.04	38.70	38.76	38.32	38.64	38.84	39.09	39.33	39.49	39.54	39.47
22	39.00	39.09	38.68	38.70	38.32	38.67	38.71	39.09	39.40	39.48	39.47	39.64
23	39.00	39.08	38.68	38.70	38.36	38.68	38.78	39.09	39.37	39.46	39.44	39.70
24	39.00	38.97	38.72	38.66	38.39	38.67	38.84	39.09	39.33	39.44	39.40	39.71
25	39.06	38.83	38.79	38.61	38.42	38.68	38.88	39.11	39.30	39.45	39.48	39.66
26	39.02	38.81	38.82	38.70	38.44	38.76	38.90	39.12	39.26	39.44	39.54	39.60
27	39.00	38.83	38.77	38.74	38.49	38.73	38.90	39.12	39.25	39.36	39.61	39.59
28	39.06	38.86	38.74	38.67	38.53	38.75	38.88	39.10	39.27	39.41	39.67	39.54
29	39.07		38.74	38.60	38.49	38.78	38.91	39.10	39.30	39.46	39.66	39.52
30	39.04		38.71	38.49	38.46	38.77	38.93	39.12	39.35	39.50	39.61	39.59
31	39.00		38.63		38.45		38.94	39.13		39.50		39.68

Henry County

40:1-5. Paris Board of Public Utilities. Fentress and West Blythe Sts. 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 130.32 below lsd, Nov. 27, 1953. Records available: 1945, 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	110.28	Apr. 17	120.28	July 10	111.02	Oct. 2	111.52
Feb. 20	110.53	May 15	111.17	Aug. 7	113.66	30	113.17
Mar. 19	111.14	June 12	111.64	Sept. 4	112.48	Nov. 27	130.32

Madison County

57:5-6. City of Jackson. Mobile and Magnolia Sts. Lat. 35°36'18", long. 88°48'26". 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 63.98 below lsd, Aug. 7, 1952. Records available: 1944-45, 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	40.96	Apr. 17	33.60	July 10	36.38	Oct. 2	41.25
Feb. 20	40.07	May 15	36.39	Aug. 17	47.38	30	37.33
Mar. 19	39.45	June 12	62.94	Sept. 4	41.24	Nov. 27	36.02

57:36-1. Tennessee Division of Geology and U. S. Geol. Survey. Near Claybrook. Lat. 35°42'26", long. 88°37'47". Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 659 feet, screen 639-659. Land-surface datum is 562.7 feet above msl. Highest water level 124.50 below lsd, Mar. 10, 1952; lowest 126.78 below lsd, Nov. 13-14, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	125.83	125.75	125.61	125.47	.....	125.53	125.93	126.06	126.39	126.52	126.71	126.69
2	125.77	.....	125.53	125.49	125.50	125.56	125.89	126.07	126.39	126.62	126.73	126.69
3	125.78	.....	125.47	125.49	125.55	125.56	125.92	126.10	126.39	126.64	126.73	126.61
4	125.78	125.74	125.55	125.54	125.55	125.56	125.95	126.10	126.42	126.61	126.72	126.58
5	125.81	.....	125.61	125.54	125.48	125.58	125.96	126.10	126.46	126.57	126.76	126.58
6	125.81	.....	125.62	125.51	125.47	125.60	125.95	126.11	126.46	126.63	126.76	126.58
7	125.80	.....	125.63	125.47	125.46	125.62	125.96	126.20	126.49	126.65	126.76	126.58
8	125.72	125.76	125.66	125.47	125.48	125.64	125.93	126.19	126.49	126.64	126.76	126.58
9	125.71	125.82	125.66	125.47	125.52	125.69	125.97	126.20	126.50	126.62	126.76	126.53
10	125.74	125.81	125.64	125.50	125.51	125.72	126.00	126.21	126.49	126.59	126.77	126.55

57:36-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	125.85	.....	125.60	125.50	125.53	125.72	125.98	126.22	126.49	126.59	126.76	126.55
12	125.85	125.60	125.60	125.50	125.49	125.74	125.98	126.25	126.47	126.64	126.76	126.54
13	125.82	125.61	125.59	125.54	125.51	125.70	125.97	126.25	126.48	126.65	126.78	126.54
14	125.80	125.61	125.57	125.54	125.51	125.68	125.97	126.25	126.47	126.67	126.78	126.54
15	125.84	125.59	125.55	125.53	125.47	125.66	125.97	126.25	126.44	126.67	126.77	126.56
16	125.87	125.69	125.59	125.56	125.42	125.68	125.98	126.25	126.46	126.67	126.74	126.66
17	125.85	125.74	125.58	125.56	125.34	125.71	125.97	126.26	126.48	126.67	126.74	126.70
18	125.78	125.74	125.44	125.56	125.34	125.72	125.97	126.26	126.48	126.70	126.74	126.70
19	125.76	125.73	125.53	125.58	125.30	125.74	125.96	126.26	126.48	126.70	126.74	126.69
20	125.73	125.65	125.52	125.60	125.31	125.75	125.95	126.28	126.46	126.71	126.71	126.64
21	125.77	125.72	125.50	125.60	125.33	125.78	125.94	126.30	126.53	126.70	126.73	126.54
22	125.77	125.73	125.50	125.55	125.35	125.80	125.94	126.32	126.54	126.69	126.68	126.66
23	125.73	125.73	125.44	125.57	125.38	125.82	125.94	126.32	126.52	126.68	126.59	126.68
24	125.72	125.67	125.47	125.56	125.41	125.82	125.96	126.32	126.50	126.65	126.54	126.70
25	125.76	125.60	125.52	125.46	125.44	125.84	125.98	126.33	126.49	126.65	126.58	126.68
26	125.76	125.59	125.54	125.52	125.46	125.90	126.01	126.34	126.46	126.65	126.61	126.63
27	125.72	125.62	125.54	125.56	125.51	126.89	126.01	126.34	126.44	126.60	126.68	126.61
28	125.75	125.64	125.53	125.52	125.54	125.92	126.00	126.34	126.46	126.63	126.60	126.57
29	125.76		125.54	125.48	125.51	125.95	126.03	126.34	126.47	126.66	126.70	126.52
30	.....		125.53	.....	125.50	125.94	126.05	126.36	126.50	126.69	126.69	126.62
31	.....		125.49		125.50		126.06	126.37		126.70		126.63

h Tape measurement.

57:36-2. Tennessee Division of Geology and U. S. Geol. Survey. Near Jackson. Lat. 35°37'33", long. 88°50'49". Drilled observation artesian well in sand of Ripley formation, diameter 6 to 4 inches, depth 780 feet, screen 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, Jan. 28, Mar. 26, Nov. 3, 1952. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	+47.0	Apr. 3	+47.5	July 3	+47.0	Oct. 2	+46.5
9	47.0	10	47.5	10	47.5	9	46.5
16	47.0	17	47.0	17	47.5	16	46.5
23	47.0	24	47.0	24	47.5	23	46.5
30	47.0	May 1	47.5	31	47.5	30	46.5
Feb. 6	47.0	8	48.0	Aug. 7	47.5	Nov. 13	46.5
13	47.5	15	47.5	14	47.0	20	46.5
20	47.0	22	48.0	21	47.0	27	46.5
27	47.5	29	47.5	28	47.0	Dec. 4	46.5
Mar. 6	47.5	June 5	47.5	Sept. 4	46.5	11	46.5
13	47.5	12	47.5	11	46.5	18	46.5
20	47.5	19	47.5	18	46.5	25	46.5
27	47.5	26	47.0	25	46.5		

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 38.99 below lsd, Oct. 30, 1953. Records available: 1940-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.55	32.09	31.75	30.77	30.73	30.62	.....	35.11	36.33	37.80	38.96	37.79
2	32.45	32.04	31.48	30.85	30.84	30.80	.....	35.20	36.34	37.97	38.90	37.64
3	32.44	32.00	31.16	30.97	30.96	30.97	34.32	35.24	36.29	38.12	38.79	37.50
4	32.43	32.07	31.17	31.05	30.96	31.15	34.41	35.19	36.32	38.19	38.72	37.60
5	32.39	32.05	31.18	31.02	30.65	31.30	34.45	35.37	36.49	38.20	38.79	37.60
6	32.43	32.13	31.27	30.82	30.57	31.42	34.36	35.55	36.61	38.28	38.86	37.60
7	32.45	32.25	31.31	30.63	30.45	31.56	.....	35.73	36.67	38.32	38.97	37.60
8	32.47	32.35	31.33	30.43	30.59	31.66	.....	35.93	36.67	38.34	39.01	37.48
9	32.57	32.41	31.26	30.31	30.66	.....	.....	36.03	36.64	38.35	39.01	37.55
10	32.73	32.39	31.09	30.26	30.64	.....	.....	36.05	36.69	38.35	38.95	37.59

240 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:1-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	32.89	32.19	30.94	30.21	30.55	.....	.....	36.03	36.76	38.35	38.86	37.67
12	32.89	32.10	30.93	30.22	30.20	.....	.....	36.08	36.90	38.34	38.77	37.72
13	32.81	32.10	30.93	30.32	30.09	.....	h34.62	36.11	36.95	38.31	38.65	37.71
14	32.80	32.10	30.89	30.39	30.03	.....	.....	36.07	36.92	38.26	38.62	37.54
15	32.83	32.32	31.06	30.48	29.93	h32.38	h34.58	36.00	37.02	38.30	38.62	37.51
16	32.84	32.28	31.09	30.59	29.83	32.43	34.55	36.01	37.11	38.39	h38.62	37.43
17	32.75	32.28	31.09	30.59	29.52	32.52	34.56	35.99	37.22	38.51	.....	37.41
18	32.66	32.20	31.03	30.76	29.20	32.65	34.62	35.96	37.32	38.60	.....	37.35
19	32.53	32.12	31.12	30.80	29.34	32.78	34.67	36.00	37.33	38.70	.....	37.24
20	32.34	31.94	31.11	30.85	29.61	32.92	34.69	36.10	37.36	38.75	.....	37.22
21	32.40	32.10	31.18	30.78	29.67	33.00	34.64	36.18	37.46	38.77	.....	37.16
22	32.45	32.09	31.19	30.69	29.76	33.01	34.43	36.23	37.49	38.85	.....	37.34
23	32.35	31.98	31.00	30.71	29.79	32.98	34.53	36.22	37.45	38.90	h37.78	37.42
24	32.26	31.92	30.98	30.73	29.79	33.01	34.57	36.15	37.46	38.94	37.82	37.46
25	32.26	31.82	30.93	30.84	29.78	33.20	34.63	36.10	37.45	38.98	38.00	37.43
26	32.11	31.81	31.06	31.05	29.74	.....	34.67	36.12	37.39	38.98	38.10	37.34
27	31.94	31.82	31.01	31.09	29.85	.....	34.61	36.17	37.46	38.86	38.16	37.19
28	31.90	31.84	30.99	30.98	30.03	.....	34.57	36.19	37.49	38.88	38.18	36.93
29	31.93	.....	31.01	30.84	30.23	h33.78	34.69	36.25	37.57	38.94	38.08	36.65
30	32.01	.....	30.96	30.70	.....	.....	34.85	36.29	37.67	38.99	37.96	36.81
31	32.04	.....	30.75	.....	.....	.....	34.98	36.31	.....	38.98	.....	36.92

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 85.01 below lsd, Nov. 5-6, 1953. Records available: 1940-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	80.56	80.29	80.48	80.24	80.01	80.25	82.06	82.81	83.93	84.25	84.95	84.37
2	80.41	80.27	80.37	80.26	80.10	80.31	82.12	82.78	83.92	84.30	84.95	84.30
3	80.42	80.29	80.28	80.26	80.19	80.35	82.21	82.82	83.89	84.37	84.99	84.18
4	80.41	80.34	80.27	80.32	80.19	80.38	82.26	82.86	83.90	84.39	85.00	84.11
5	80.40	80.36	80.32	80.30	80.15	80.45	82.30	82.88	83.96	84.40	85.01	84.11
6	80.40	80.41	80.35	80.15	80.12	80.51	82.27	82.96	83.98	84.54	85.01	84.03
7	80.39	80.45	80.39	80.09	80.03	80.57	82.28	83.00	83.96	84.59	84.98	h83.98
8	80.31	80.53	80.45	80.09	79.99	80.65	82.30	83.07	83.94	84.60	84.97	.....
9	80.32	80.62	80.45	80.10	80.09	80.77	82.35	83.13	83.95	84.60	84.97	.....
10	80.39	80.62	80.42	80.15	80.15	80.84	82.38	83.20	83.95	84.59	84.98	.....
11	80.52	80.48	80.35	80.14	80.14	80.88	82.37	83.32	83.95	84.58	84.97	.....
12	80.52	80.38	80.32	.....	80.10	80.89	82.36	83.37	83.98	84.67	84.98	.....
13	80.52	80.31	80.29	80.05	80.04	80.89	82.34	83.41	84.02	84.71	84.99	.....
14	80.54	80.23	80.25	80.07	80.02	80.91	82.37	83.45	84.00	84.74	84.98	h83.95
15	80.61	80.22	80.24	80.08	79.91	81.00	82.41	83.48	83.98	84.74	84.89	84.05
16	80.66	80.40	80.28	80.13	79.82	81.00	82.41	83.49	83.98	84.74	84.81	84.14
17	80.62	80.52	80.23	80.12	79.67	81.16	82.39	83.53	83.97	84.75	84.76	84.18
18	80.54	80.55	80.16	80.15	79.58	81.22	82.39	83.56	83.96	84.77	84.72	84.18
19	80.49	80.55	80.20	80.17	79.43	81.29	82.41	83.60	83.94	84.79	84.70	84.10
20	80.51	80.48	80.19	80.21	79.43	81.37	82.41	83.63	83.87	84.82	84.63	83.99
21	80.54	80.65	80.19	80.21	79.51	81.44	82.41	83.67	83.94	84.83	84.63	83.84
22	80.54	80.65	80.20	80.19	79.65	81.49	82.30	83.71	84.01	84.84	84.46	84.10
23	80.44	80.62	80.10	80.20	79.77	81.55	82.36	83.70	83.99	84.84	h84.38	84.12
24	80.46	80.57	80.10	80.18	79.83	81.60	82.42	83.69	83.96	84.84	84.41	84.12
25	80.49	80.49	80.15	80.09	79.90	81.68	82.54	83.72	83.97	84.83	84.48	84.06
26	80.43	80.45	80.19	80.14	79.98	81.76	82.61	83.74	83.96	84.82	84.51	83.98
27	80.39	80.49	80.21	80.19	80.05	81.80	82.67	83.74	83.94	84.74	84.53	83.93
28	80.44	80.52	80.25	80.18	80.11	81.88	82.69	83.74	84.02	84.81	84.57	83.79
29	80.42	.....	80.28	80.16	80.10	81.97	82.70	83.73	84.11	84.90	84.51	83.70
30	80.37	.....	80.24	80.01	80.16	82.03	82.77	83.76	84.19	84.94	84.44	83.75
31	80.32	.....	80.20	.....	80.19	.....	82.79	83.86	.....	84.95	.....	83.76

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 80.46 below lsd, Nov. 28, Dec. 17, 23, 1953. Records available: 1940-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	79.17	79.15	78.58	78.37	78.38	78.10	79.06	79.28	79.77	80.14	80.30	80.32
2	79.10	79.12	78.54	78.42	78.49	78.18	79.00	79.30	79.75	80.12	80.32	80.30
3	79.14	79.05	78.48	78.43	78.52	78.24	79.04	79.33	79.72	80.13	80.28	80.18
4	79.15	79.12	78.65	78.51	78.51	78.26	79.09	79.35	79.81	80.12	80.26	80.31
5	79.17	79.08	78.72	78.47	78.38	78.31	.....	79.33	79.91	80.05	80.32	80.30
6	79.17	79.07	78.72	h78.24	78.36	78.32	79.08	79.37	79.87	80.12	80.32	80.34
7	79.14	79.10	.....	78.35	78.20	78.34	79.12	79.41	79.93	80.16	80.32	80.34
8	79.06	79.16	.....	78.36	78.11	78.40	79.17	79.41	79.95	80.14	80.33	80.29
9	79.07	79.21	h78.60	78.36	.....	78.47	79.23	79.46	79.94	80.10	h80.30	80.24
10	79.15	79.19	78.57	78.45	.....	78.51	.....	79.49	79.95	80.07	80.30	80.29
11	79.30	78.97	78.48	78.44	h78.03	78.50	.....	79.51	79.88	80.08	80.26	80.26
12	79.30	78.97	78.46	78.43	78.05	78.51	.....	79.53	79.89	80.18	80.29	80.24
13	79.20	78.98	78.49	78.51	78.04	78.50	h79.18	79.52	79.93	80.20	80.33	80.23
14	79.16	78.90	78.46	78.52	78.04	78.48	79.22	79.52	79.90	80.25	80.32	80.27
15	79.22	78.82	78.58	.....	77.98	78.55	79.28	79.54	79.89	80.24	80.27	80.34
16	79.28	78.85	78.64	.....	77.88	78.59	79.27	79.55	79.91	80.21	80.25	80.43
17	79.24	78.96	78.59	.....	77.73	78.64	79.21	79.55	79.93	80.21	80.27	80.46
18	79.14	78.92	78.42	.....	77.69	78.66	79.21	79.56	79.96	80.24	80.27	80.45
19	79.09	78.81	78.53	.....	77.66	78.69	79.22	79.59	79.98	80.24	80.27	80.37
20	79.11	78.63	78.51	h78.59	77.64	78.77	79.24	79.60	79.94	80.25	80.26	80.25
21	79.18	78.91	78.44	78.55	77.61	78.84	79.21	79.63	80.11	80.24	80.30	80.13
22	79.18	78.93	78.42	78.48	77.65	78.88	79.18	79.66	80.17	80.23	80.20	80.43
23	79.06	78.90	78.43	78.50	77.70	78.90	79.25	79.66	80.10	80.21	80.21	80.46
24	79.21	78.76	78.46	78.47	77.74	78.90	79.30	79.65	80.04	80.20	80.16	.....
25	79.37	78.61	.....	78.48	77.78	78.96	79.32	79.68	80.00	80.26	80.27	.....
26	79.21	78.57	.....	78.58	77.83	79.09	79.34	79.69	79.92	80.21	80.33	.....
27	79.13	78.57	.....	78.62	77.90	79.12	79.31	79.70	79.95	80.14	80.43	.....
28	79.22	78.65	.....	78.53	77.98	79.11	79.25	79.68	79.98	80.19	80.46	h80.11
29	79.22	.....	.....	78.44	77.97	79.09	79.25	79.69	80.05	80.26	.....	80.19
30	79.17	.....	h78.27	78.35	77.98	79.07	79.29	79.73	80.10	80.28	h80.32	80.37
31	79.11	.....	78.26	.....	78.02	.....	79.30	79.74	.....	80.27	.....	80.39

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 578 feet.
 Land-surface datum is 332.4 feet above msl. Highest water level 78.00 below lsd, Dec. 30,
 1940; lowest 85.77 below lsd, Dec. 18, 1953. Records available: 1940, 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	84.27	84.43	84.30	84.26	84.28	84.43	85.07	85.12	85.45	85.61	85.67	85.70
2	84.27	84.43	84.20	84.32	84.41	84.45	85.05	85.12	85.45	85.63	85.69	85.66
3	84.28	84.39	84.20	84.34	84.51	84.47	85.00	85.17	85.43	85.65	85.68	85.57
4	84.30	84.41	84.31	84.40	84.52	84.47	85.03	85.18	85.43	85.65	85.67	85.48
5	84.33	84.41	84.43	84.40	84.49	84.48	85.05	85.18	85.49	85.64	85.67	85.50
6	84.33	84.37	84.48	84.35	84.49	84.49	85.05	85.19	85.51	85.61	85.69	85.50
7	84.32	84.42	84.48	84.24	84.47	84.51	85.05	85.22	85.53	85.66	85.69	85.57
8	84.29	84.49	84.52	84.27	84.41	84.54	85.06	85.23	85.55	85.66	85.71	85.58
9	84.24	84.55	84.52	84.28	84.42	84.60	85.09	85.26	85.56	85.65	85.72	85.54
10	84.29	84.55	84.52	84.36	84.42	84.65	85.12	85.29	85.55	85.60	85.72	85.55
11	84.43	84.49	84.44	84.37	84.40	84.66	85.12	85.30	85.55	85.55	85.69	85.56
12	84.48	84.33	84.34	84.36	84.32	84.67	85.12	85.30	85.49	85.56	85.67	85.56
13	84.48	84.38	84.31	84.48	84.34	84.67	85.09	85.30	85.49	85.61	85.69	85.56
14	84.43	84.38	84.31	84.52	84.34	84.66	85.07	85.29	85.49	85.64	85.70	85.50
15	84.41	84.34	84.32	84.50	84.33	84.64	85.07	85.29	85.46	85.65	85.68	85.59
16	84.49	84.37	84.43	84.46	84.31	84.66	85.08	85.29	85.47	85.64	85.65	85.69
17	84.49	84.52	84.43	84.46	84.22	84.71	85.00	85.31	85.50	85.63	85.60	85.76
18	84.42	84.54	84.32	84.42	84.19	84.73	84.98	85.33	85.52	85.64	85.59	85.77
19	84.38	84.53	84.33	84.51	84.19	84.75	84.98	85.34	85.53	85.68	85.59	85.76
20	84.30	84.40	84.33	84.56	84.21	84.78	84.98	85.36	85.51	85.69	85.54	85.65

242 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:1-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	84.38	84.47	84.33	84.56	84.23	84.83	84.98	85.37	85.63	85.69	85.55	85.47
22	84.40	84.58	84.32	84.51	.....	84.89	.....	85.39	85.71	85.67	85.55	85.51
23	84.39	84.59	84.29	84.46	.....	84.92	.....	85.40	85.71	85.66	85.49	85.67
24	84.36	84.57	84.34	84.45	.....	84.92	.....	85.39	85.70	85.62	85.48	85.70
25	84.46	84.41	84.42	84.34	h84.32	84.93	.....	85.40	85.64	85.61	85.50	85.68
26	84.46	84.31	84.45	84.44	84.34	84.99	.....	85.41	85.57	85.60	85.58	85.61
27	84.42	84.29	84.45	84.49	84.38	85.00	h85.09	85.42	85.50	85.52	85.67	85.56
28	84.46	84.30	84.42	84.48	84.42	85.03	85.09	85.41	85.50	85.56	85.75	85.49
29	84.48		84.40	84.40	84.42	85.07	85.06	85.40	85.51	85.63	85.75	85.47
30	84.48		84.39	84.18	84.41	85.08	85.09	85.41	85.57	85.66	85.74	85.59
31	84.44		84.31		84.41		85.12	85.43		85.67		85.66

h Tape measurement.

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 71.3 below lsd, Oct. 4, 1953. Records available: 1927-32, 1936-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	60.7	60.3	58.9	58.6	60.6	h63.87	69.9	....	69.6	70.5	....	66.2
2	60.6	60.0	58.4	....	61.0	64.2	70.3	....	69.9	71.0	h69.26	66.2
3	80.4	60.0	57.7	....	61.1	64.3	70.7	h69.20	70.2	71.2	69.4	66.4
4	60.3	60.5	....	....	60.8	64.5	70.8	69.4	70.5	71.3	69.4	67.1
5	60.1	60.8	57.6	....	59.7	64.9	70.8	69.5	70.6	71.1	69.4	67.3
6	60.4	61.1	58.0	h58.14	59.5	65.4	70.2	....	70.5	....	69.4	....
7	....	61.2	58.2	58.0	59.7	65.5	69.9	70.0	70.1	....	69.4	67.4
8	61.4	61.2	58.2	58.4	....	65.2	70.0	70.0	69.5	70.7	69.4	67.0
9	....	60.8	57.4	59.1	....	65.7	70.1	70.0	69.5	70.7	69.2	66.9
10	....	60.4	56.7	....	....	66.6	70.1	69.7	69.7	70.6	68.8	67.1
11	61.5	60.3	57.0	....	59.2	67.2	70.1	69.4	69.9	70.6	68.9	67.2
12	61.2	60.4	57.8	59.7	....	67.5	70.1	69.4	70.2	70.3	69.3	67.2
13	60.9	60.4	58.6	59.1	....	67.5	69.5	69.4	70.3	70.3	69.3	67.1
14	61.0	60.4	59.2	58.6	....	67.5	69.3	69.5	70.2	70.4	69.3	66.5
15	61.1	60.1	....	58.9	....	67.0	69.4	69.5	70.0	70.6	69.3	66.0
16	61.2	59.4	59.0	58.9	59.6	67.1	69.4	69.4	70.0	....	69.0	66.1
17	61.1	59.1	58.4	58.8	59.6	67.7	69.4	69.4	70.2	....	68.7	66.5
18	60.8	59.1	58.6	58.7	58.9	68.3	69.4	69.5	70.5	....	68.9	66.7
19	60.2	59.1	58.6	58.7	58.5	68.8	69.4	69.5	70.6	h70.60	....	66.8
20	60.1	59.2	58.7	58.3	58.9	69.0	69.0	69.5	70.6	70.7	....	66.8
21	60.3	59.3	59.0	57.8	....	69.1	68.6	69.5	70.4	70.8	....	66.5
22	....	59.2	59.0	58.4	....	68.9	68.4	69.5	70.2	....	....	....
23	....	58.7	58.2	....	60.6	69.0	....	69.4	70.2	....	68.7	....
24	60.8	58.4	58.0	....	....	69.4	68.6	69.3	70.0	....	68.0	....
25	....	58.6	58.3	....	60.6	69.5	68.7	69.4	69.9	....	68.4	....
26	60.4	58.8	58.4	59.7	61.2	69.7	68.6	69.5	69.8	h70.80	....	....
27	60.1	59.0	58.7	58.7	....	69.7	68.2	69.6	69.8	....	68.4	....
28	60.4	59.0	....	59.1	63.4	69.7	67.8	69.6	69.6	....	68.1	h63.44
29	60.4	....	....	59.5	64.1	69.6	68.7	69.6	69.6	....	....	63.4
30	60.4		58.3	60.1	....	69.6	69.3	69.6	70.1	....	h66.23	....
31	60.3		57.9	....	....	....	....	69.5		....		....

h Tape measurement.

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 116.2 below lsd, Sept. 4-5, 1953. Records available: 1928-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.2	101.6	101.8	102.7	102.6	106.5	114.8	114.4	115.2	115.0	112.3	108.4
2	100.9	101.1	101.5	103.0	102.7	106.8	115.1	114.4	115.7	115.2	111.9	108.6
3	101.0	101.5	101.7	103.0	102.7	107.4	115.2	114.3	115.9	115.2	111.4	108.6
4	101.0	101.8	101.9	103.0	102.6	107.7	115.1	114.4	116.2	115.1	111.6	108.9
5	101.0	102.1	101.9	102.8	102.6	108.0	114.6	114.8	116.2	114.9	111.8	109.0

79:5-193--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	101.4	102.3	101.8	102.4	102.5	108.4	113.6	115.3	115.8	115.0	111.9	109.0
7	101.7	102.3	101.8	102.3	102.7	108.5	113.3	115.4	115.2	115.0	112.0	109.1
8	102.0	102.2	101.8	102.4	102.7	108.8	113.4	115.4	114.5	114.9	111.7	109.2
9	102.0	102.0	101.4	102.8	102.6	109.6	113.4	115.3	114.6	114.4	111.2	109.5
10	101.7	102.0	101.3	103.0	102.5	110.3	113.4	114.9	114.9	114.3	111.0	109.7
11	101.6	101.9	101.4	103.0	102.1	110.9	113.3	115.0	115.3	114.1	111.2	109.7
12	101.8	102.1	101.6	102.6	102.1	111.2	113.0	115.2	115.3	113.7	111.4	109.5
13	102.0	102.1	101.8	102.4	102.1	111.2	112.6	115.5	115.3	113.9	111.6	108.9
14	102.1	102.0	101.8	102.4	102.1	111.2	112.6	115.6	114.9	114.1	111.8	108.3
15	102.4	101.8	101.8	102.5	102.1	111.0	112.6	115.6	114.9	114.2	111.5	108.6
16	102.4	101.7	101.9	102.7	102.0	111.4	112.6	115.5	115.0	114.2	110.7	109.0
17	102.2	102.1	102.0	102.8	102.0	111.8	112.6	115.1	115.2	114.2	110.7	109.4
18	101.8	102.2	102.3	102.7	101.7	112.1	112.5	115.2	115.3	114.2	111.0	109.4
19	101.2	102.2	102.5	102.6	102.0	112.5	112.5	115.4	115.2	113.9	111.2	109.4
20	101.4	102.1	102.5	102.4	102.2	112.6	112.3	115.6	114.8	114.1	111.4	109.2
21	101.5	102.2	102.4	102.4	102.5	112.7	112.5	115.4	114.4	114.3	111.5	108.9
22	101.6	102.2	102.3	102.5	102.7	112.7	112.8	115.3	114.4	114.5	111.3	109.2
23	101.5	101.9	101.9	102.7	102.8	113.1	113.2	115.1	114.4	114.8	110.8	109.5
24	101.5	101.8	102.1	102.7	102.8	113.4	113.4	114.6	114.4	114.8	110.5	109.5
25	101.5	101.8	102.4	102.6	103.1	113.7	113.5	114.8	114.4	114.6	110.7	109.0
26	101.4	102.0	102.7	102.6	103.8	114.2	113.5	115.2	114.4	114.4	110.7	108.3
27	101.6	102.0	102.8	102.4	104.6	114.4	113.2	115.3	114.1	114.0	110.4	107.9
28	101.8	102.0	102.8	102.4	106.3	114.4	113.4	115.5	113.8	113.1	110.0	107.4
29	101.9		102.7	102.4	106.5	114.2	113.9	115.5	114.2	112.9	109.6	107.6
30	102.0		102.4	102.4	106.7	114.4	114.2	114.7	114.6	112.7	108.7	108.1
31	101.8		102.5		106.6		114.3	114.4		112.6		108.3

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 462-522. Land-surface datum is 249.9 feet above msl. Highest water level 59.9 below lsd, Dec. 26, 1940; lowest 116.2 below lsd, July 2, 1953. Records available: 1940-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	95.2	93.1	94.1	94.8	97.4	107.4	115.7	107.3	109.1	109.8	104.2	99.9
2	94.3	92.6	93.1	97.2	97.8	107.4	116.2	105.7	110.1	110.1	102.1	99.0
3	94.2	92.8	94.1	96.2	96.4	106.8	114.4	105.3	109.1	108.2	105.1	101.5
4	93.9	93.8	92.7	95.9	97.0	106.9	112.6	109.5	109.8	106.0	104.5	102.3
5	94.9	94.8	92.9	94.4	95.9	106.2	110.2	111.9	109.6	106.3	105.5	104.2
6	95.8	94.0	92.9	93.0	96.1	106.8	111.1	112.5	107.5	106.5	105.6	102.9
7	98.0	94.1	94.6	93.1	97.0	105.1	112.1	110.6	104.6	108.4	105.2	102.1
8	97.0	93.5	92.8	95.5	96.2	107.2	112.6	110.2	106.2	108.3	103.9	101.6
9	96.1	92.6	93.6	97.0	96.4	109.5	113.1	108.7	107.4	107.7	102.6	102.3
10	96.0	93.6	94.1	96.0	95.0	110.1	113.6	108.9	108.5	107.1	103.3	102.3
11	95.6	93.6	93.1	96.9	94.4	111.2	113.7	108.5	109.0	106.5	104.3	100.7
12	96.0	94.8	95.3	94.9	95.0	110.1	111.8	109.2	109.2	106.8	105.4	100.3
13	96.2	95.0	95.7	93.9	97.0	110.1	110.9	109.5	107.7	107.6	106.7	99.4
14	97.0	95.0	95.8	95.7	95.0	108.2	111.4	109.4	107.6	107.1	106.5	98.3
15	97.2	93.7	94.2	94.7	95.4	108.8	111.2	109.2	108.0	108.5	105.1	99.0
16	96.0	93.5	95.0	95.9	95.8	110.5	110.1	107.6	107.3	108.5	105.0	99.6
17	95.3	94.2	94.3	95.8	94.2	111.3	109.4	107.9	108.5	108.5	105.1	100.4
18	93.7	95.1	95.7	94.3	94.3	112.2	109.0	108.7	108.9	.....	105.2	100.4
19	92.4	94.5	95.5	94.1	95.4	112.7	107.3	108.6	108.7	107.0	106.0	100.4
20	92.9	94.5	95.7	93.0	96.5	112.7	106.9	108.3	106.3	108.0	106.4	100.3
21	92.9	94.4	96.6	94.3	97.9	112.4	106.4	108.1	105.5	109.3	105.0	99.4
22	92.3	93.9	94.5	96.6	99.4	112.1	105.5	107.9	105.7	109.7	103.9	100.7
23	93.1	92.9	94.8	97.7	100.0	113.1	106.6	106.3	105.3	110.6	102.5	100.7
24	93.3	93.3	94.2	97.2	99.9	113.5	107.0	106.3	105.3	110.7	103.4	101.1
25	93.1	93.5	94.6	96.8	102.4	114.5	106.1	107.7	106.5	108.6	103.9	100.1
26	93.5	94.1	94.6	95.1	104.1	114.9	103.4	108.3	106.3	107.1	104.1	98.8
27	94.1	94.2	94.9	95.8	106.7	114.3	104.9	109.2	104.8	107.4	103.0	.....
28	93.4	94.2	95.9	97.0	108.7	112.8	106.5	109.0	105.3	106.1	102.3	h94.78
29	93.3		94.4	96.6	108.8	112.4	108.8	109.2	107.1	105.8	100.8	98.3
30	92.8		95.1	97.2	108.4	114.2	109.3	107.7	108.4	105.2	99.7	100.3
31	92.5		95.2		106.9		107.7	107.9		106.0		101.7

h Tape measurement.

244 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

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 100.57 below lsd, July 1, 1952. Records available: 1945-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.8	72.5	69.2	83.5	91.9	92.7	95.5	75.2	74.0	77.2	75.0	87.3
2	69.9	71.8	69.2	83.9	92.1	93.4	95.6	75.3	73.8	76.8	74.9	87.5
3	70.0	71.2	69.4	84.2	92.2	83.5	....	75.3	74.0	76.9	....	87.4
4	70.0	71.3	69.6	84.4	91.7	78.7	....	75.8	74.3	76.9	....	87.1
5	70.0	71.5	h81.90	84.4	....	81.5	....	76.0	74.4	76.8	....	86.3
6	70.0	71.6	82.8	84.2	....	81.8	h93.26	75.8	74.4	76.6	90.6	85.3
7	70.0	71.8	83.0	84.4	92.3	78.6	....	75.6	74.4	76.6	79.4	86.0
8	69.9	71.9	82.8	84.0	92.9	91.3	h92.17	76.1	74.2	76.2	79.2	86.2
9	69.9	72.0	84.5	83.4	93.1	94.6	92.0	76.4	73.7	76.4	h89.06	86.5
10	70.0	71.6	84.8	83.9	82.4	95.6	....	76.5	73.7	76.4	86.6	87.1
11	70.2	71.0	....	84.0	91.5	95.7	....	76.7	73.8	76.5	86.6	87.3
12	70.2	71.1	h84.78	84.0	92.9	91.6	....	76.7	74.0	77.0	....	87.3
13	70.4	71.0	....	84.1	93.1	91.6	h90.64	77.9	74.1	77.1	....	87.3
14	70.9	70.9	....	84.2	82.6	....	91.2	77.2	75.8	75.0	85.6	87.2
15	71.3	70.7	....	84.0	81.7	h93.73	h90.95	77.4	77.4	74.6	84.8	86.3
16	71.8	70.5	h85.94	85.6	81.4	94.8	....	77.5	77.7	74.4	85.0	85.5
17	71.8	70.3	85.7	84.8	....	95.3	90.1	77.5	76.6	74.3	....	86.7
18	71.6	70.2	85.3	84.6	h92.75	96.2	76.2	77.3	76.7	74.2	87.9	85.8
19	72.9	70.1	87.2	84.9	92.4	....	74.5	77.2	76.7	74.0	88.5	85.5
20	73.6	69.9	87.5	85.2	93.5	....	73.7	77.1	76.8	75.9	87.3	85.7
21	74.0	70.1	86.4	85.0	....	....	73.0	77.2	78.5	76.1	87.4	85.7
22	72.0	70.0	85.6	84.6	91.8	h94.02	72.5	76.9	80.2	76.9	....	....
23	71.8	72.8	86.8	86.3	91.6	95.9	73.8	76.8	....	....	89.5	....
24	72.3	....	87.2	87.0	91.1	97.1	72.5	76.6	....	....	89.7	....
25	72.4	....	87.4	84.9	90.8	94.3	72.5	76.0	....	....	88.5	....
26	73.1	70.0	h82.76	84.4	91.8	94.6	72.5	77.4	....	h74.29	88.7	....
27	76.4	69.4	82.2	87.6	92.4	84.7	75.1	84.3	....	75.9	87.3	....
28	....	69.4	81.6	88.3	92.4	84.1	75.3	85.2	h75.68	76.5	87.4	....
29	73.9	....	81.2	90.4	93.5	....	72.1	74.6	77.1	77.0	87.3	83.0
30	73.2	....	82.9	90.9	93.6	....	74.7	74.1	77.0	77.2	87.3	81.8
31	73.0	....	83.3	....	93.7	....	75.0	74.0	....	75.0	....	81.3

h Tape measurement.

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 132.1 below lsd, July 3, 1953. Records available: 1944-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.9	102.0	106.5	108.1	....	121.8	131.3	118.1	118.6	123.1	113.4	115.5
2	102.2	102.4	103.8	....	112.5	121.4	131.6	117.7	118.6	123.7	113.3	115.3
3	102.6	107.6	104.2	....	112.3	116.5	132.1	115.5	118.6	123.4	117.3	116.6
4	100.4	108.8	102.7	....	105.5	116.1	131.6	122.2	118.1	120.2	118.7	117.6
5	104.4	107.6	108.0	....	105.9	117.6	120.9	126.0	116.9	117.3	118.6	117.2
6	105.7	108.6	109.4	h102.74	110.3	117.7	127.3	126.9	114.5	118.5	118.6	116.9
7	106.9	108.6	109.4	105.7	110.3	116.7	127.4	122.3	110.6	120.0	117.9	115.8
8	107.4	106.4	103.8	107.5	107.9	120.4	125.2	122.3	114.8	119.0	114.0	115.1
9	107.1	106.8	103.7	108.9	108.0	124.3	125.1	121.4	117.5	118.3	113.6	115.8
10	105.1	107.6	105.0	109.4	106.5	125.4	125.0	118.0	118.5	117.6	115.4	116.0
11	104.1	107.7	106.0	108.5	104.7	125.0	125.0	117.5	119.2	117.2	116.9	115.7
12	103.5	108.3	107.4	105.5	....	122.6	123.2	118.0	119.4	121.6	119.2	115.3
13	106.3	108.4	108.2	106.3	....	122.6	122.3	119.2	119.3	121.9	119.3	114.4
14	106.3	107.6	108.2	107.4	....	121.1	122.4	119.5	117.4	121.6	118.5	113.3
15	105.2	104.7	106.7	106.9	....	120.9	120.6	119.5	118.0	122.8	117.5	114.6
16	105.1	106.6	106.5	105.4	....	125.3	120.1	118.2	118.8	122.9	118.0	118.7
17	104.4	107.4	106.6	105.2	....	125.3	117.5	117.1	120.2	122.9	118.1	118.3
18	101.4	107.0	106.0	105.1	h104.41	126.3	113.8	118.0	122.1	121.6	118.6	117.5
19	103.8	108.7	105.3	104.2	108.1	126.3	112.4	117.5	122.1	121.8	119.2	117.5
20	103.7	107.2	108.0	103.4	110.8	126.5	111.2	113.9	118.8	122.1	119.5	117.0

79:7-34--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	104.1	106.4	108.1	106.8	111.5	125.3	110.2	113.9	117.6	122.7	118.3	112.4
22	104.8	104.8	103.3	108.6	.....	124.6	109.9	113.7	117.6	123.6	116.0	.....
23	106.2	105.6	107.8	109.0	.....	126.4	114.3	111.8	117.5	124.7	h111.35	.....
24	104.7	105.8	.....	109.0	.....	127.5	114.3	113.4	116.8	124.0	116.3	.....
25	103.2	108.3	107.3	.....	h113.05	129.7	110.8	116.1	117.5	120.4	116.6	.....
26	103.4	108.4	108.5	.....	117.6	129.0	108.5	116.0	117.2	116.0	116.7	.....
27	106.0	107.0	109.0	h105.39	123.1	125.0	108.2	118.1	116.8	.....	114.6	.....
28	106.0	106.9	.....	108.1	123.9	123.7	114.7	117.4	117.0	118.6	111.7	119.1
29	105.2	.....	.....	110.8	123.5	126.8	118.1	117.4	120.8	116.4	109.5	120.9
30	102.9	.....	105.4	.....	122.8	129.1	118.1	116.2	122.0	115.9	112.9	.....
31	102.5	.....	106.4	.....	122.5	.....	118.2	116.1	.....	115.7	.....	.....

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: 1945-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	105.6	103.9	101.5	99.7	104.4	101.2	106.5	106.0	110.0	105.7	104.0	106.0
2	107.1	103.0	101.5	96.6	104.4	101.5	106.8	105.9	110.0	105.6	105.9	105.8
3	107.6	102.8	99.9	95.8	104.4	104.4	106.9	105.8	109.7	105.5	106.2	104.5
4	107.6	103.0	99.5	95.5	104.4	105.4	107.0	106.1	110.0	105.3	106.1	105.4
5	107.7	101.3	99.5	95.2	104.6	105.4	106.6	105.7	109.8	105.0	106.6	105.6
6	107.7	100.1	99.4	99.8	104.7	105.5	105.9	107.0	109.8	104.8	103.7	106.0
7	107.8	100.2	99.3	100.3	104.8	105.7	106.0	107.5	109.6	106.4	103.4	106.1
8	108.3	100.2	99.3	99.6	104.7	105.7	106.1	107.8	109.5	106.7	103.2	105.1
9	108.5	100.1	100.7	99.5	104.7	106.3	106.7	108.1	111.3	106.9	.....	105.9
10	108.8	101.0	101.2	99.5	104.6	106.5	107.1	108.2	112.3	107.3	h105.73	106.0
11	109.1	102.0	101.3	98.9	104.2	106.8	107.2	107.6	109.4	107.4	106.0	106.0
12	109.2	102.2	101.3	98.6	104.8	106.8	107.2	108.0	108.8	107.6	106.0	105.9
13	109.2	100.1	101.4	98.6	105.7	106.7	107.1	.....	108.6	106.8	105.8	105.8
14	109.3	99.8	101.6	98.0	105.9	106.7	107.2	.....	110.1	107.1	105.8	105.6
15	109.5	99.6	102.0	98.4	106.1	106.6	107.4	.....	110.4	107.2	105.8	105.6
16	107.0	99.7	102.1	95.8	102.9	106.7	104.3	.....	107.9	107.1	105.9	106.0
17	106.6	101.9	99.7	95.4	102.2	106.6	102.9	.....	109.7	107.2	106.0	106.2
18	106.0	102.2	98.4	.....	101.9	106.5	102.3	h108.44	110.3	107.2	105.8	106.3
19	106.9	102.3	99.5	.....	101.5	106.6	102.2	.....	110.5	107.2	106.0	106.4
20	107.4	102.2	99.8	.....	101.7	106.5	104.3	.....	110.6	107.2	106.3	106.3
21	107.0	102.1	100.0	h101.78	101.4	106.3	105.2	.....	110.8	107.1	106.4	106.3
22	107.2	102.1	100.1	103.1	101.4	103.6	105.8	.....	110.9	107.1	106.2	107.1
23	107.3	101.9	100.3	103.6	101.5	103.5	106.3	.....	110.8	107.0	106.3	107.3
24	107.8	101.7	h99.84	103.8	101.3	103.4	106.6	.....	107.6	106.7	105.0	107.3
25	108.0	101.5	.....	104.1	101.2	103.4	106.9	h107.19	106.5	106.6	105.2	106.8
26	108.0	101.5	.....	104.2	101.2	103.3	107.0	107.3	106.3	107.7	105.2	105.5
27	106.6	101.5	.....	.....	101.6	103.2	107.0	107.2	106.0	108.2	105.2	104.5
28	106.9	101.6	.....	h104.02	100.6	103.2	108.6	109.1	106.0	106.5	105.3	103.7
29	105.4	.....	.....	104.1	100.6	105.7	108.9	109.6	105.9	104.7	105.2	104.6
30	105.0	.....	.....	104.3	100.3	106.3	106.6	109.7	105.7	104.3	105.9	105.9
31	104.7	.....	h99.69	.....	100.9	.....	106.4	109.9	.....	104.7	.....	106.1

h Tape measurement.

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 438-499. Land-surface datum is 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: 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	120.1	120.5	122.6	125.7	125.3	129.0	133.6	131.1	132.9	132.3	128.8	h125.42
2	120.0	120.4	124.9	125.9	125.5	129.1	133.6	131.1	132.8	132.2	128.7	126.2
3	118.4	120.4	125.0	125.6	125.5	128.8	133.0	131.2	132.5	130.7	127.2	126.6
4	118.2	121.7	125.2	125.5	125.4	128.8	133.0	132.6	130.6	130.6	.....	126.4
5	118.2	121.9	125.3	125.6	125.4	128.9	132.9	132.7	130.6	131.2	.....	126.4

246 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:8-73--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	115.5	120.4	125.3	125.3	.....	128.5	132.6	132.8	130.3	131.2	.....	126.4
7	115.5	119.7	125.3	124.4	.....	128.7	132.3	130.7	130.3	129.6	.....	.....
8	115.4	119.8	125.3	124.6	.....	129.8	132.3	130.6	132.6	129.7	.....	h127.48
9	.....	122.2	125.2	124.8	.....	130.7	132.4	130.7	132.8	129.7	.....	128.0
10	114.8	122.4	122.7	125.1	.....	131.7	132.4	132.9	132.4	129.6	h128.10	128.1
11	115.0	121.4	122.8	125.3	.....	131.7	132.3	133.1	130.8	129.4	128.1	127.1
12	114.9	121.6	122.2	125.3	h122.17	131.4	132.2	133.1	130.8	129.2	.....	127.0
13	118.5	121.8	121.5	125.7	.....	131.1	132.1	133.2	130.9	128.0	.....	126.9
14	118.6	121.7	121.1	125.8	.....	131.1	132.0	132.9	131.8	126.7	.....	126.7
15	118.9	121.6	121.3	125.5	.....	131.4	.....	133.0	131.8	127.8	.....	126.8
16	119.2	121.9	122.4	125.8	.....	131.6	.....	133.0	130.3	127.9	.....	127.2
17	119.2	123.0	123.9	125.8	.....	131.6	.....	133.0	130.6	127.5	h126.62	.....
18	119.1	123.1	124.4	125.9	.....	131.8	.....	133.0	131.0	127.4	128.1	.....
19	118.9	122.4	124.4	126.1	h125.91	132.0	.....	133.1	131.0	127.3	128.2	.....
20	118.6	122.1	125.6	126.2	126.2	132.5	.....	133.3	130.9	127.3	128.1	.....
21	119.7	122.4	125.6	125.4	126.3	132.8	h131.75	133.3	131.0	127.2	128.2	.....
22	119.9	122.4	125.6	124.8	126.2	133.3	.....	133.3	130.9	128.3	128.1	h126.64
23	119.9	122.2	126.0	124.6	126.3	133.5	.....	133.4	129.9	128.3	128.1	.....
24	118.7	122.7	125.7	124.4	126.7	133.7	.....	133.2	131.3	128.4	128.0	.....
25	118.8	122.9	125.4	124.4	126.7	133.7	.....	133.4	131.4	128.5	128.1	.....
26	118.6	123.5	125.3	124.6	126.9	133.6	.....	133.4	130.3	128.4	128.2	.....
27	120.0	123.3	125.2	124.5	128.4	133.0	.....	133.5	130.4	128.1	128.0	.....
28	120.3	122.6	125.4	125.0	128.9	132.9	h132.05	133.4	131.4	128.5	.....	.....
29	120.5	.....	125.5	125.1	128.6	132.8	130.8	133.1	132.3	128.7	.....	h126.77
30	120.5	.....	125.3	125.2	128.6	133.2	130.9	133.0	132.3	128.8	.....	.....
31	120.5	.....	125.1	.....	128.7	.....	131.0	133.0	.....	128.8	.....	.....

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 36.28 below lsd, Oct. 25, 1953. Records available: 1948-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.73	35.01	35.04	34.77	34.95	34.33	34.96	34.75	35.53	35.99	.....	35.09
2	34.87	34.84	34.97	34.77	35.07	34.40	34.99	.....	35.76	36.01	h35.33	35.03
3	34.59	35.01	.....	34.79	35.09	34.35	35.10	h34.73	35.43	36.07	35.52	35.06
4	34.61	35.22	35.27	34.83	34.80	34.32	35.36	35.09	35.55	36.01	35.62	35.23
5	34.65	34.88	e35.24	34.70	34.65	34.37	.....	35.11	35.40	36.12	35.65	35.16
6	34.65	.....	35.21	34.64	34.57	34.41	h34.83	34.90	35.22	35.85	35.62	.....
7	34.74	.....	35.19	34.77	34.46	34.45	35.05	34.92	35.28	35.74	35.64	h34.89
8	34.65	.....	35.24	34.78	34.53	34.51	35.20	34.98	35.45	35.79	.....	.....
9	34.68	h35.02	34.92	34.81	34.53	34.60	34.98	35.25	35.44	35.98	h35.23	.....
10	34.83	35.05	34.94	35.00	.....	34.61	34.85	h34.86	35.43	35.80	35.41	.....
11	35.19	35.02	35.00	34.89	h34.45	34.76	34.90	35.02	35.42	35.92	35.39	.....
12	34.62	34.55	35.10	.....	34.51	34.70	35.12	35.07	35.61	h35.98	35.40	.....
13	34.75	34.57	35.15	34.88	.....	34.28	34.60	35.08	35.67	36.04	35.44	.....
14	34.84	34.58	35.10	34.88	.....	34.63	34.85	35.10	35.38	36.02	35.40	h34.83
15	34.92	34.58	35.23	34.87	.....	34.48	34.72	35.20	35.60	36.00	35.34	.....
16	35.10	35.25	35.33	35.14	.....	34.48	34.71	35.24	35.64	36.02	35.32	35.17
17	34.74	35.31	34.93	.....	.....	34.59	34.34	35.27	35.69	36.06	35.36	34.87
18	34.70	35.11	34.94	.....	h34.11	34.58	34.19	.....	35.90	36.06	35.39	34.71
19	34.69	35.01	34.99	.....	34.18	34.64	34.20	.....	35.77	36.05	35.34	34.58
20	34.95	35.29	34.80	h34.65	34.15	34.69	34.13	.....	35.75	36.08	35.38	.....
21	35.00	35.50	34.75	34.72	34.15	34.77	34.35	.....	35.91	36.10	35.38	34.55
22	34.90	35.55	34.74	34.73	34.11	34.78	34.15	.....	.....	36.10	35.28	34.81
23	.....	35.01	34.72	34.85	34.17	34.82	34.26	35.45	.....	36.06	35.22	34.81
24	.....	34.91	34.73	34.84	34.24	34.82	34.23	35.32	.....	36.12	35.23	34.71
25	.....	35.00	34.82	34.90	34.30	34.92	.....	35.41	.....	36.28	35.29	34.45
26	h34.82	35.06	34.76	35.09	34.31	34.98	.....	35.47	.....	.....	35.29	34.49
27	35.04	35.15	34.60	34.79	34.36	34.93	h33.98	35.50	.....	.....	35.26	34.43
28	35.18	35.20	34.62	34.70	34.39	34.96	34.39	35.41	h35.68	.....	35.27	34.48
29	35.17	.....	34.66	34.70	34.47	34.96	.....	35.37	35.88	.....	35.12	34.49
30	34.89	.....	34.40	34.95	34.27	34.99	34.54	35.42	35.97	.....	35.10	34.51
31	34.90	.....	34.42	.....	34.31	.....	34.65	35.42	.....	.....	.....	34.51

e Estimated.

h Tape measurement.

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 328-338. Land-surface datum is 256.2 feet above msl. Highest water level 59.40 below lsd, Feb. 27, 1950; lowest 111.45 below lsd, Aug. 18, 1953. Records available: 1948-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.48	70.27	69.12	73.64	69.59	80.86	.....	.....	108.80	.....	94.40	91.87
2	70.56	69.37	h68.06	73.45	69.53	86.11	.....	.....	109.09	.....	93.18	92.36
3	70.62	70.47	.....	73.52	68.69	87.31	.....	h103.02	109.74	.....	93.16	92.71
4	69.54	70.63	.....	73.26	68.42	85.60	.....	107.35	109.90	.....	95.18	92.93
5	69.37	70.63	73.08	70.96	69.02	88.97	.....	.....	107.85h	100.17	94.32	92.93
6	70.26	70.69	70.38	72.67	69.35	89.24	h95.39h	108.79	.....	.....	94.32	90.46
7	70.39	70.69	69.56	71.14	69.54	89.08	.....	.....	100.06	98.62	92.59	90.94
8	70.88	69.97	.....	70.93	70.07	90.61	.....	.....	103.50	98.57	89.64	91.94
9	71.19	69.49	68.19	70.85	69.80	93.86	.....	.....	.....	98.34	91.91	92.50
10	71.19	69.96	69.15	70.56	68.66	96.99	95.00h	100.38	.....	97.58	92.73	92.76
11	69.95	70.08	69.03	70.55	68.27	98.08	91.98	.....	.....	.....	93.26	92.83
12	69.56	70.27	69.21	69.48	68.79	98.65	90.86	.....	h98.52	93.74	92.19	92.19
13	70.33	70.42	69.36	69.19	69.01	.....	96.54	.....	.....	101.33	93.91	90.40
14	70.78	70.42	69.36	69.58	69.38	.....	97.28	.....	105.80	100.71	93.49	92.00
15	71.10	69.84	68.38	69.74	69.46	h90.94	96.84	.....	.....	99.23	91.36	92.00
16	71.37	69.22	68.48	69.91	69.45	99.09	98.71	.....	.....	98.21	93.24	91.80
17	71.37	69.88	69.12	70.09	68.03	100.35	98.86h	106.29	.....	98.03	95.04	92.85
18	70.02	70.00	69.68	70.10	68.46	100.81	99.78	111.45	105.94	96.81	95.63	92.94
19	69.60	70.08	69.86	69.27	69.01	.....	99.81	.....	103.62	99.92	94.28	92.20
20	70.38	70.32	70.06	69.49	69.26	.....	101.86h	107.12	103.62	100.32	93.84	88.49
21	70.71	70.32	70.06	70.43	69.36	.....	.....	107.31	101.41	103.60	93.76	88.98
22	70.87	69.80	68.96	70.14	75.63	99.08	.....	.....	102.04	103.63	91.73	89.67
23	71.01	69.32	69.96	70.11	71.46	100.96	.....	.....	101.34	102.50	91.96	89.83
24	71.01	69.70	71.89	70.13	69.30	102.56	108.92	106.13	101.49	101.33	93.00	89.83
25	70.10	69.93	72.68	70.13	76.49h	102.58	108.36	.....	101.52	100.67	93.41	89.20
26	69.70	70.06	73.01	69.13	81.94	102.62	104.60	.....	100.49	95.28	91.02	88.60
27	70.32	70.15	73.37	68.99	83.13	102.62h	102.46h	105.96	100.06	.....	90.60	88.15
28	70.89	70.15	71.95	69.29	76.53	97.36	.....	h107.92	98.08	.....	89.60	h88.91
29	71.08	70.11	69.36	74.64	100.06	.....	.....	.....	.....	96.95	89.97	.....
30	71.25	71.92	69.58	74.17	.....	.....	.....	.....	.....	96.30	90.92	.....
31	71.25	73.74	.....	72.46	.....	.....	.....	106.37	.....	94.99	.....	.....

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 321-330. Land-surface datum is 246.6 feet above msl. Highest water level 46.30 below lsd, Feb. 20, 1950; lowest 111.1 below lsd, Sept. 11-13, 1953. Records available: 1948-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.3	55.8	55.1	59.8	55.2	62.6	.....	.....	102.5	86.0	83.6	86.3
2	58.8	57.5	54.4	60.9	55.2	73.6	.....	.....	89.1	86.5	82.7	86.7
3	55.5	55.6	54.7	60.4	54.8	74.9	.....	h102.33	89.6	86.3	82.5	86.9
4	55.0	59.0	57.9	58.2	54.5	70.4	103.6	106.2	89.7	98.6	94.0	.....
5	54.7	55.8	58.6	56.6	54.9	74.0	82.1	105.9	95.9	98.7	.....	.....
6	55.3	59.0	58.2	58.5	55.1	71.5	99.8	106.9	97.5	.....	.....	.....
7	58.8	56.0	55.7	57.3	55.2	75.1	99.9	105.9	95.2	.....	.....	85.6
8	55.8	55.6	55.0	57.1	55.6	77.8	99.3	107.9	106.7	.....	.....	86.3
9	56.8	58.7	54.4	56.4	55.4	80.3	99.3	101.3	109.7	.....	h90.53	86.8
10	56.0	55.4	55.8	57.0	54.8	82.3	98.8	104.8	110.5	.....	93.0	87.0
11	55.5	57.4	54.8	56.1	54.2	83.6	96.7	107.3	111.1	.....	93.4	87.1
12	58.1	55.7	54.9	55.5	54.9	83.8	95.6	109.1	111.1	h77.18	93.7	86.5
13	55.6	59.1	58.1	55.0	54.7	77.1	98.0	109.6	111.1	85.5	93.8	89.6
14	59.2	55.8	55.0	55.2	54.9	76.0	98.6	109.6	99.3	86.0	80.6	91.1
15	56.2	55.4	54.5	55.3	55.0	80.2	99.0	.....	98.4	84.8	76.6	91.1
16	60.0	58.5	54.4	55.4	55.0	84.1	100.9	.....	100.3	84.1	80.3	91.1
17	56.4	55.4	54.7	55.5	54.3	.....	99.6	h104.28	100.9	83.9	80.9	79.6
18	55.7	55.5	55.1	55.5	54.2	.....	97.2	108.9	100.9	82.6	81.4	79.7
19	58.6	55.5	55.9	55.2	54.6	.....	97.3	107.9	85.6	84.0	81.2	79.1
20	55.6	55.7	55.5	54.9	54.9	.....	97.2	108.2	85.6	84.5	80.4	77.6

248 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:9-110--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	57.2	55.7	55.5	55.4	55.0	....	102.9	108.2	85.0	86.9	88.0	77.9
22	56.0	55.5	54.9	55.5	58.4	83.5	103.4	108.1	85.6	84.9	88.5	78.5
23	59.4	55.0	56.4	55.6	56.4	....	104.2	101.4	85.5	87.2	88.3	78.7
24	56.0	55.2	57.8	55.6	55.3	....	106.1	105.1	87.8	87.3	89.3	78.7
25	55.7	55.4	58.5	55.5	59.1	h88.78	106.2	....	85.6	87.1	90.4	78.2
26	55.9	55.5	58.9	55.1	62.9	98.9	102.8	107.9	96.4	84.9	88.4	77.7
27	55.6	58.0	59.2	54.8	63.9	98.9	104.4	107.0	82.7	84.1	88.2	80.0
28	60.3	55.6	57.3	55.0	61.7	94.3	106.0	....	84.0	84.0	73.8	76.8
29	56.2		56.0	55.0	60.8	96.8	....	....	85.8	84.9	72.8	77.4
30	59.3		58.0	55.2	59.5	....	....	102.4	84.7	84.7	73.1	77.8
31	56.3		59.0		58.2		....	101.2		84.0		77.9

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 300-310. Land-surface datum is 253.1 feet above msl. Highest water level 50.90 below lsd, Feb. 20, 1950; lowest 96.3 below lsd, Aug. 1, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	58.8	59.5	58.9	69.5	58.9	71.3	90.4	96.3	88.9	93.6	82.0	73.2
2	59.1	59.1	58.4	69.9	58.9	....	85.1	87.8	88.4	94.1	81.5	73.6
3	59.0	59.3	58.4	70.1	58.8	....	85.6	94.2	88.6	94.0	81.2	73.7
4	58.7	59.7	67.8	61.6	58.5	....	85.5	95.0	88.8	93.8	82.2	73.9
5	58.4	59.4	68.5	60.4	58.7	....	80.7	87.0	86.1	94.0	82.5	73.9
6	58.8	59.8	60.1	68.7	58.8	....	84.5	89.2	84.6	92.7	82.5	73.5
7	59.3	59.6	59.4	68.7	58.9	....	82.7	89.9	84.0	90.9	81.4	72.8
8	59.2	59.4	59.0	68.4	59.0	h83.23	86.3	90.8	83.5	90.6	80.0	73.2
9	59.4	59.3	58.5	60.1	59.0	....	82.0	86.8	86.0	....	80.7	73.6
10	59.4	59.0	66.4	59.8	58.7	....	82.0	87.0	86.5	....	81.3	73.8
11	59.2	59.1	58.6	59.7	58.2	....	81.4	89.6	87.3	90.0	81.6	73.9
12	59.1	59.3	58.6	59.3	58.2	....	80.6	91.2	87.3	76.9	81.9	73.7
13	59.2	59.7	59.0	58.9	58.5	....	80.7	92.4	87.3	....	89.0	74.0
14	59.6	59.4	58.7	58.9	58.6	....	81.3	91.7	85.5	....	88.8	75.0
15	59.7	59.1	58.4	59.0	58.7	h83.95	89.0	89.7	85.7	....	79.0	75.1
16	60.2	59.1	58.2	59.1	58.7	h87.72	91.2	88.4	86.8	....	79.5	77.4
17	59.9	59.0	58.4	59.1	58.3	....	90.6	89.3	87.2	....	79.8	78.3
18	59.5	59.2	58.6	59.2	58.0	....	90.6	91.1	87.2	81.6	80.2	78.4
19	59.2	59.2	58.9	59.1	58.4	....	90.6	90.9	85.8	81.9	80.2	78.3
20	59.2	59.2	59.0	58.7	58.6	....	90.0	91.4	85.3	82.1	79.8	77.5
21	59.4	59.4	59.0	59.0	58.7	....	91.7	91.6	92.8	83.4	79.6	77.6
22	59.5	59.3	58.8	59.1	67.8	87.5	92.1	91.6	93.4	83.4	78.2	78.1
23	59.8	59.0	66.8	59.2	59.7	....	92.8	89.2	93.5	84.0	77.4	78.3
24	59.6	58.9	67.9	59.2	59.1	....	94.4	88.4	93.3	84.2	....	78.3
25	59.4	59.0	68.6	59.1	68.2	92.7	94.7	89.6	93.4	84.2	....	78.0
26	59.0	59.1	68.9	58.9	71.2	93.2	93.2	90.8	90.5	83.2	....	77.6
27	59.2	59.3	69.2	58.6	72.2	93.4	93.3	90.7	89.4	82.5	....	77.3
28	60.6	59.2	60.7	58.7	72.0	88.7	94.5	91.0	91.8	82.3	74.9	76.5
29	59.7		59.8	58.7	71.7	91.2	95.5	91.1	93.2	82.6	74.1	76.9
30	60.0		68.2	58.8	62.9	92.5	95.6	89.5	91.0	82.6	73.7	77.3
31	59.8		68.9		61.7		95.3	88.2		82.4		77.4

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 292-312. Land-surface datum is 272.5 feet above msl. Highest water level 71.91 below lsd, Feb. 20, 1950; lowest 117.3 below lsd, Aug. 18, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.5	81.8	86.7	82.5	88.2	....	115.7	115.4	110.3	104.9	101.0
2	82.8	81.7	86.8	82.0	93.0	....	113.7	115.8	110.8	103.6	....
3	83.6	82.3	87.0	80.5	94.6	....	112.7	116.5	110.0	103.6	....
4	83.7	....	85.8	81.1	94.6	....	113.8	116.4	106.6	103.8	101.2
5	h80.97	83.6	....	82.9	82.0	96.2	....	114.6	112.8	107.1	104.1	101.2

79:9-131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	83.2	83.5	....	84.7	82.4	96.2	h102.48	115.3	108.8	106.9	103.9	99.2
7	83.2	83.4	....	84.4	82.6	95.3	104.6	114.9	107.2	106.6	103.4	99.1
8	83.6	82.3	....	84.3	82.7	97.8	103.2	116.0	108.7	107.9	101.2	100.3
9	84.2	82.5	81.6	84.2	82.5	100.0	.....	113.5	110.1	108.4	102.3	100.9
10	84.2	83.0	82.5	83.5	80.4	103.0	102.2	112.8	110.6	108.2	102.9	101.2
11	82.1	83.1	82.7	83.4	81.1	104.9	101.2	115.4	111.9	105.3	103.8	101.2
12	82.5	83.4	82.8	81.5	81.8	104.8	100.5	.....	111.5	106.8	104.2	100.0
13	83.4	83.5	82.8	82.2	81.9	103.1	102.7	.....	109.7	108.9	104.6	97.3
14	83.8	83.4	82.7	82.7	82.5	100.4	104.0	.....	107.4	107.9	104.4	100.0
15	84.0	82.4	80.8	82.8	82.6	101.0	104.4	113.0	.....	107.5	101.7	99.8
16	84.3	82.3	81.6	82.9	82.5	105.0	106.8	109.8	.....	106.7	103.3	99.8
17	84.1	83.1	82.4	83.1	....	106.3	106.4	115.1	.....	106.5	103.5	101.7
18	82.2	83.4	83.0	83.1	81.7	107.0	106.9	117.3	112.2	104.6	104.1	101.8
19	82.6	83.4	83.2	81.3	82.2	107.6	106.5	116.8	111.3	106.0	104.0	100.5
20	83.4	83.5	83.4	82.1	82.5	107.6	106.7	116.6	110.1	105.8	101.7	98.7
21	83.8	83.4	83.4	83.2	82.4	.....	.....	116.4	108.7	107.7	101.4	100.5
22	84.0	82.4	81.4	83.4	84.6	h102.98	108.3	116.2	109.3	107.7	100.4	100.9
23	84.0	82.6	82.2	83.2	84.0	.....	109.3	111.7	109.2	108.6	100.2	101.1
24	83.9	83.0	83.7	83.2	81.2	.....	113.3	111.5	109.2	108.7	101.9	101.0
25	82.4	83.2	84.4	83.0	84.5	.....	112.8	113.6	109.2	108.0	102.2	99.7
26	82.6	83.4	84.5	81.2	89.0	108.3	111.7	114.1	107.2	105.3	100.3	99.1
27	83.3	83.4	85.0	81.8	90.1	108.2	111.4	114.3	104.5	105.6	99.3	98.7
28	83.8	83.4	84.8	82.2	88.3	104.9	113.4	114.8	107.1	105.5	99.0	99.2
29	84.3	.....	82.3	82.2	87.0	106.6	115.1	114.8	109.8	106.5	98.1	100.0
30	84.5	.....	83.8	82.6	86.4	108.7	115.0	113.1	109.7	106.4	101.2	100.5
31	84.5	.....	85.7	.....	83.6	.....	115.1	113.6	.....	105.6	.....	100.7

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 255-265. Land-surface datum is 234.5 feet above msl. Highest water level 32.25 below lsd, Feb. 20, 1950; lowest 71.96 below lsd, Aug. 14, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.88	42.49	41.80	45.05	42.05	45.43	65.30	.....	69.84	.....	62.07	57.86
2	43.11	42.34	41.39	45.20	41.74	49.26	65.77	.....	70.22	.....	60.83	57.89
3	43.10	43.04	41.90	45.40	40.68	51.51	66.13	h65.85	70.80	.....	60.83	58.11
4	41.78	43.10	43.37	45.17	40.72	51.84	65.83	68.19	70.80	63.94	60.85	58.34
5	41.90	43.09	43.95	43.08	41.48	52.93	62.89	68.96	69.17	63.98	61.05	58.33
6	42.72	42.97	43.75	43.39	41.85	53.17	60.61	69.49	66.00	63.93	60.97	56.79
7	42.76	42.97	43.08	43.56	42.05	52.72	60.99	69.45	63.96	63.66	60.70	56.38
8	43.12	42.22	41.79	43.58	42.11	54.36	60.71	69.93	64.36	64.24	59.18	57.39
9	43.56	42.14	41.33	43.50	42.10	55.84	59.78	68.98	66.02	64.58	59.33	57.93
10	43.56	42.53	41.93	43.01	40.72	57.98	59.58	67.18	66.47	64.55	59.92	58.22
11	42.05	42.57	42.17	42.86	40.64	59.81	59.00	69.37	67.23	62.76	60.58	58.24
12	42.14	42.96	42.26	41.54	41.30	60.12	58.36	70.80	67.22	62.97	60.99	57.76
13	42.86	42.98	42.28	41.76	41.49	59.57	59.14	71.83	66.08	64.34	61.33	55.78
14	43.26	42.97	42.26	42.18	41.84	57.52	.....	71.96	65.80	64.10	61.30	57.06
15	43.45	42.23	40.87	42.23	42.01	57.32	.....	71.92	67.37	63.95	59.49	57.06
16	43.70	41.94	41.16	42.32	41.94	60.16	.....	.....	67.18	63.43	59.82	57.16
17	43.66	42.59	41.77	42.47	40.26	61.44	.....	69.26	67.64	63.22	.....	58.72
18	42.25	42.79	42.32	42.47	41.11	62.11	.....	71.06	67.66	61.92	.....	58.88
19	42.17	42.78	42.54	41.34	41.68	62.81	.....	71.02	67.31	62.48	.....	58.28
20	42.87	42.87	42.72	41.57	41.87	62.81	61.90	70.95	66.26	62.48	59.55	56.58
21	43.21	42.88	42.72	42.37	41.87	62.10	.....	70.89	65.08	63.88	59.22	57.48
22	43.42	42.31	41.35	42.61	43.18	60.73	.....	70.71	65.57	63.89	58.00	58.12
23	43.42	42.15	41.62	42.61	43.09	62.53	64.38	68.10	65.57	64.50	57.80	58.27
24	43.42	42.48	42.84	42.57	41.25	63.52	67.17	66.90	65.51	64.66	58.47	58.25
25	42.36	42.71	43.40	42.39	42.16	64.28	67.21	68.27	65.51	64.29	58.81	57.35
26	42.24	42.85	43.56	41.18	46.12	64.11	66.63	69.53	64.50	62.39	58.00	56.81
27	42.81	42.86	43.93	41.33	47.29	64.05	66.17	69.53	64.26	62.51	57.15	56.45
28	43.25	42.86	43.92	41.66	47.06	62.20	67.62	69.70	63.30	62.43	56.88	56.52
29	43.60	.....	42.20	41.65	46.05	61.65	69.03	69.70	.....	63.02	56.19	57.22
30	43.79	.....	42.78	42.05	45.61	64.01	69.03	68.72	.....	63.02	57.73	57.65
31	43.80	.....	44.22	.....	43.60	.....	.....	68.66	.....	62.59	.....	57.93

h Tape measurement.

250 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:11-1. Forest Products Chemical Co. Chelsea Ave. and Fairfax St., Memphis. 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 91.7 below lsd, Oct. 14, 1953. Records available: 1944-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.2	82.8	82.0	83.0	81.6	83.6	87.7	86.6	90.3	90.7	88.5	h84.74
2	82.4	83.1	82.9	82.7	81.0	83.6	87.2	86.3	90.6	91.0	88.4	85.8
3	82.4	83.4	83.2	83.3	81.1	84.2	87.3	88.0	89.4	91.3	88.6	86.5
4	82.4	83.9	83.7	82.5	82.8	84.5	85.4	87.2	90.5	....	87.5	87.1
5	82.1	83.3	83.5	82.5	83.0	85.3	84.2	88.4	89.3	90.5	87.7	86.2
6	82.6	84.0	83.3	83.0	83.4	85.2	83.0	88.8	88.4	90.4	88.4	85.8
7	82.9	84.4	83.3	81.4	83.0	85.1	84.0	88.8	88.0	90.4	88.6	87.0
8	83.0	83.9	81.4	81.7	83.0	85.1	84.8	87.9	89.5	90.5	88.6	88.1
9	82.6	83.9	81.9	81.6	82.5	85.4	85.2	87.5	89.6	90.7	88.3	88.7
10	82.5	83.2	81.9	82.2	82.0	85.4	84.2	89.7	90.2	90.5	87.5	88.3
11	83.4	83.0	81.8	81.4	83.5	85.8	83.4	88.7	89.6	90.2	....	88.0
12	83.1	83.0	82.6	81.3	81.8	86.2	82.2	88.8	89.4	91.1	....	86.0
13	83.0	82.9	83.7	82.3	81.9	85.4	83.5	89.5	87.7	91.4	....	85.2
14	83.2	82.9	83.3	82.6	83.1	85.0	85.5	89.1	88.8	91.7	....	86.2
15	82.9	81.1	84.1	83.4	83.6	86.7	86.7	88.3	89.1	90.6	....	87.0
16	83.0	82.9	83.4	83.1	83.0	86.0	86.3	87.1	88.6	90.0	....	87.3
17	82.5	83.3	83.2	83.2	80.6	86.3	86.9	89.3	88.9	90.7	h87.15	87.5
18	81.6	83.9	83.2	82.2	81.9	87.0	86.4	89.6	88.7	90.6	88.4	87.6
19	81.8	84.1	82.9	82.5	82.0	86.2	85.6	89.8	89.1	90.2	89.2	86.2
20	82.5	83.5	82.9	83.2	81.7	85.7	86.3	88.4	88.9	90.0	89.7	85.4
21	82.4	83.7	82.7	82.7	82.2	85.7	86.5	89.1	88.9	89.8	89.4	86.9
22	82.5	83.4	81.6	83.8	82.6	86.4	87.6	88.7	88.7	90.4	89.5	88.9
23	82.4	83.2	82.6	84.0	82.7	87.0	88.0	87.7	89.8	90.6	89.1	89.2
24	82.4	83.0	82.5	84.0	82.0	87.8	88.2	89.0	90.0	91.0	88.9	87.9
25	82.4	....	83.2	82.4	84.0	87.7	88.0	89.8	90.1	90.3	89.0	85.0
26	83.1	83.0	83.5	82.2	82.6	88.0	87.4	89.7	88.4	89.6	88.3	83.0
27	82.1	82.5	83.6	83.7	83.2	88.7	88.8	90.2	88.7	89.7	....	....
28	82.1	83.4	83.2	83.4	83.8	88.3	87.6	89.0	89.5	89.5	....	....
29	82.7		82.9	82.1	84.0	88.9	87.1	89.0	89.9	89.3	....	h85.01
30	83.5		83.2	82.7	83.6	88.3	88.0	88.1	89.5	88.5	....	86.7
31	82.8		83.5		83.3		87.8	90.6		89.0		87.0

h Tape measurement.

79:12-1. Cudahy Packing Co. Chelsea Ave. and Carpenter St., Memphis. 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 81.25 below lsd, Aug. 20, 1952. Records available: 1944, 1950-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	73.24	Apr. 9	73.32	July 7	72.73	Oct. 13	77.06
15	73.71	16	73.43	14	71.57	20	77.71
22	73.11	23	73.96	21	72.80	27	77.78
29	73.07	30	73.39	28	74.39	3	77.22
Feb. 5	74.14	May 7	72.47	Aug. 4	73.96	10	77.42
12	74.05	14	70.97	11	74.78	17	76.80
19	73.53	21	69.58	18	74.98	24	76.50
26	73.71	28	70.55	25	75.28	Dec. 1	75.35
Mar. 5	73.60	June 3	71.26	Sept. 1	75.95	8	74.94
12	72.20	10	73.02	8	75.78	15	76.15
19	73.76	17	73.93	15	75.75	22	75.48
26	73.43	23	73.80	29	75.86	29	75.44
Apr. 2	73.40	30	75.13	Oct. 6	77.09		

79:16-1. Layne and Bowler, Inc. Chelsea Ave. and University St., Memphis. 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 83.66 below lsd, Oct. 6, 1953. Records available: 1944-53.

79:16-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	74.96	Apr. 2	75.13	June 23	81.75	Sept. 15	82.60
15	75.20	9	75.21	30	83.26	29	82.25
22	74.01	16	75.74	July 7	80.33	Oct. 6	83.66
29	74.14	23	76.91	14	80.50	13	83.60
Feb. 5	74.90	30	74.59	21	80.77	20	83.47
12	74.68	May 7	75.42	28	81.40	27	83.36
19	75.35	14	75.22	Aug. 4	81.82	Nov. 17	81.09
26	74.75	21	75.12	11	82.94	24	81.89
Mar. 5	74.15	28	77.75	18	82.39	Dec. 8	80.33
12	74.50	June 3	78.12	25	82.38	15	78.60
19	75.63	10	79.77	Sept. 1	83.39	22	79.73
26	75.33	17	80.76	8	82.06	29	76.86

79:19-1. Oliver Finnie Co. Vance Ave. and South Front St., Memphis. 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 130.71 below lsd, Sept. 30, 1953. Records available: 1944-53.

Jan. 7	110.35	Apr. 8	111.63	July 8	127.74	Oct. 7	126.60
14	110.70	15	111.83	15	125.65	14	128.98
21	109.73	22	111.15	22	125.92	21	130.24
28	110.40	29	112.52	29	126.97	28	123.22
Feb. 4	109.73	May 6	112.93	Aug. 5	127.99	Nov. 4	121.63
11	109.52	13	113.83	12	125.45	11	119.10
18	108.47	20	113.45	19	129.37	18	123.99
25	108.70	27	119.54	26	128.30	25	120.31
Mar. 4	107.27	June 3	120.10	Sept. 2	128.84	Dec. 2	117.12
11	107.06	10	123.29	9	127.17	9	119.61
18	110.18	17	124.47	17	129.80	16	117.25
25	109.26	24	126.82	23	127.20	23	116.72
Apr. 1	111.96	July 1	128.20	30	130.71	30	115.32

79:20-4. Tennessee Valley Authority. Fourth St. and E. H. Crump Blvd., Memphis. 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 131.25 below lsd, Aug. 5, 1953. Records available: 1940-53.

Jan. 7	112.37	Apr. 8	110.83	July 8	127.86	Oct. 7	127.39
14	111.22	15	110.42	15	125.64	14	125.52
21	111.90	22	109.68	22	125.20	21	128.20
28	111.33	29	108.56	29	125.60	28	125.14
Feb. 4	110.80	May 6	110.65	Aug. 5	131.25	Nov. 4	123.40
11	109.60	13	107.77	12	129.18	11	119.15
18	106.35	20	106.95	19	130.08	18	122.14
25	106.84	27	116.70	26	127.07	25	120.49
Mar. 4	103.42	June 3	118.30	Sept. 2	130.39	Dec. 2	119.24
11	105.13	10	122.30	9	127.58	9	118.52
18	105.56	17	124.63	17	128.10	16	118.05
25	111.29	24	127.97	23	126.35	23	110.57
Apr. 1	111.02	July 1	128.28	30	130.07	30	119.68

79:21-1. Memphis Publishing Co. South Orleans St. and Beale Ave., Memphis. 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 123.8 below lsd, July 3, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.4	100.3	99.6	104.2	106.1	111.8	122.6	119.0	119.9	121.2	112.5	109.22
2	101.0	100.3	99.0	104.5	105.9	112.7	123.5	117.6	120.7	122.0	112.3	109.6
3	100.5	101.9	99.9	104.4	104.3	112.6	123.8	117.1	121.1	121.3	113.6	110.5
4	99.3	102.9	99.4	103.3	.....	112.8	122.1	118.3	121.5	119.5	114.6	111.6
5	100.5	103.0	99.5	102.1	1102.44	113.2	118.8	120.7	120.0	118.4	114.2	111.4

252 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:21-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	101.7	103.0	100.3	101.5	103.5	113.3	118.8	121.8	118.0	117.7	113.8	110.5
7	103.0	102.4	99.8	101.2	103.5	112.0	120.2	121.2	114.9	117.8	112.8	110.2
8	103.6	101.0	98.9	103.3	103.9	112.9	120.6	120.5	116.5	117.6	111.2	110.6
9	102.9	101.2	97.8	104.8	104.1	115.3	120.8	119.2	118.3	117.7	110.8	111.5
10	101.6	101.9	98.7	105.0	103.0	116.9	120.5	118.6	119.3	116.7	111.2	111.0
11	100.5	102.2	99.3	103.8	102.1	117.9	119.8	119.1	120.2	115.2	111.2	110.9
12	101.2	102.3	101.0	102.5	103.7	117.6	118.3	119.5	120.0	117.3	112.8	110.0
13	101.9	102.2	102.1	101.2	104.6	117.2	117.4	119.8	118.5	118.8	114.0	109.4
14	102.8	101.6	101.9	102.1	103.3	115.6	118.3	120.3	118.7	118.6	113.4	108.6
15	102.9	100.3	101.4	103.2	103.0	115.9	118.4	120.0	119.6	119.4	112.6	109.2
16	102.8	100.3	100.8	102.4	103.2	117.3	118.3	118.3	119.8	119.8	112.6	110.2
17	101.2	101.0	101.8	103.1	102.1	118.4	117.8	118.5	120.6	119.4	113.3	110.6
18	100.0	100.8	101.8	102.3	102.8	119.0	116.5	119.5	121.3	118.0	113.8	110.3
19	100.6	101.5	101.5	100.9	104.0	119.3	115.3	119.9	120.3	118.4	114.3	109.9
20	101.5	101.6	102.0	100.8	104.7	118.8	115.2	119.3	118.8	119.8	114.9	108.9
21	101.8	100.8	101.7	101.6	105.6	118.3	115.6	119.0	118.3	120.3	113.6	108.6
22	101.7	99.5	100.7	103.1	106.6	118.5	115.5	117.9	118.0	120.5	112.2	109.3
23	102.3	99.3	100.9	104.8	106.8	119.7	116.3	116.4	117.6	121.2	110.7	109.8
24	101.5	100.3	102.3	105.2	105.7	120.5	117.2	116.6	118.0	120.3	111.0	109.6
25	100.6	100.5	102.2	103.9	107.2	121.5	115.9	117.9	118.7	118.4	111.9	108.9
26	101.0	100.9	102.1	103.3	109.6	122.3	114.5	119.0	118.1	115.7	110.8	107.6
27	101.5	100.9	102.9	102.7	111.6	121.1	114.5	119.8	116.6	115.5	110.7	106.2
28	102.3	100.2	102.5	104.4	113.1	119.8	115.7	120.0	117.4	114.9	.....	106.0
29	102.4		101.3	104.2	113.7	119.9	117.5	119.4	118.9	114.4	.....	106.9
30	102.2		102.3	105.1	113.3	121.5	118.0	117.7	120.3	114.6	.....	108.2
31	101.4		103.3		111.6		119.1	118.4		114.0		109.5

h Tape measurement.

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: 1944-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	104.16	Mar. 4	101.22	Apr. 29	99.75	July 15	110.72
21	103.98	11	102.25	May 13	101.30	29	112.75
28	104.01	25	104.10	20	99.50	Aug. 12	114.95
Feb. 4	102.69	Apr. 1	100.12	27	99.72	26	115.82
11	102.55	8	99.90	June 3	103.72	Dec. 23	112.49
25	101.77	22	99.90				

79:28-2. Virginia-Carolina Chemical Co. Poplar Ave. and Collins St., Memphis. 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: 1944-53. Measurement discontinued.

Jan.	8	42.04	Feb.	26	42.58	Apr.	9	42.21	May	21	42.16
	15	42.62	Mar.	5	42.90		16	42.38		28	41.40
	22	42.82		12	42.64		23	42.20	June	3	42.42
	29	42.75		19	42.81		30	41.89		10	44.28
Feb.	5	42.47		26	43.20	May	7	41.89		17	42.28
	12	42.73	Apr.	2	42.46		14	42.03		23	42.27
	19	42.56									

79:33-2. Memphis State College. Norriswood Ave. and Patterson St., Memphis. 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 129.66 below lsd, June 23, 1953. Records available: 1944-47, 1949-53.

Jan.	8	119.39	Feb. 19	118.69	Apr. 2	121.39	May 14	120.39
	15	119.65	26	120.75	9	120.83	21	121.24
	22	119.58	Mar. 5	121.11	16	121.55	28	125.75
	29	120.55	12	120.54	23	121.03	June 3	125.54
Feb.	5	120.75	19	121.60	30	119.86	10	127.55
	12	120.28	26	121.06	May 7	119.99	17	127.37

79:33-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 23	129.66	Aug. 11	128.59	Oct. 1	118.03	Nov. 26	125.08
30	129.04	18	128.70	8	125.96	Dec. 3	124.09
July 7	128.63	25	119.37	15	113.08	10	123.94
14	128.09	Sept. 1	129.05	22	125.98	15	123.82
21	127.01	8	128.63	29	126.02	22	123.31
28	127.63	15	127.72	Nov. 12	125.00	29	122.51
Aug. 4	128.35	24	128.40	19	124.64		

79:34-1. Victory Iron and Metal Co. Mallory Ave. and South Third St., Memphis. 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 63.46 below lsd, Aug. 19, 1953. Records available: 1944-47, 1949-53.

Jan. 7	46.97	Apr. 8	44.57	July 8	57.53	Oct. 7	61.86
14	46.95	15	44.10	15	56.74	14	61.78
21	46.68	22	44.27	22	58.58	21	61.43
28	46.70	29	43.98	29	60.34	28	61.28
Feb. 4	46.62	May 6	43.76	Aug. 5	61.09	Nov. 4	59.96
11	46.08	13	43.57	12	62.32	11	58.64
18	45.75	20	43.30	19	63.46	18	58.97
25	45.70	27	44.93	26	62.27	25	58.51
Mar. 4	44.88	June 3	47.18	Sept. 2	63.05	Dec. 2	57.73
11	44.10	10	51.98	9	61.87	9	59.96
18	43.96	17	55.04	17	63.03	16	56.95
25	44.43	24	57.56	23	62.73	23	57.06
Apr. 1	44.67	July 1	58.69	30	61.44	30	59.38

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 76.17 below lsd, Nov. 5, 1953. Records available: 1944-53.

Jan. 8	67.63	Apr. 9	67.89	July 7	75.58	Oct. 15	71.83
15	67.93	16	68.03	14	70.98	22	76.08
22	67.89	23	66.02	21	69.56	29	75.41
29	68.02	30	67.78	28	69.73	Nov. 5	76.17
Feb. 5	67.80	May 7	67.85	Aug. 4	74.93	12	76.06
12	67.77	14	67.86	12	70.73	19	75.91
19	67.80	21	67.76	18	69.06	26	75.86
26	67.64	28	68.40	Sept. 1	71.89	Dec. 3	70.05
Mar. 5	67.82	June 3	68.76	8	74.20	10	74.87
12	67.63	10	69.54	15	72.10	15	74.96
19	68.20	17	70.09	24	72.09	22	74.90
26	67.75	23	71.63	Oct. 1	72.09	29	67.22
Apr. 2	67.84	30	71.20	8	74.38		

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: 1944-53.

Jan. 7	43.82	Apr. 8	43.45	July 8	41.34	Oct. 7	43.51
14	43.92	15	43.28	15	41.49	14	43.66
21	44.00	22	43.16	22	41.63	21	43.84
28	44.07	29	43.34	29	41.76	28	44.02
Feb. 4	44.16	May 6	42.88	Aug. 5	41.92	Nov. 4	44.18
11	44.24	13	42.67	12	42.07	11	44.31
18	44.26	20	42.33	19	42.27	18	44.44
25	44.21	27	41.84	26	42.43	25	44.53
Mar. 4	44.13	June 3	41.48	Sept. 2	42.59	Dec. 2	44.67
11	44.09	10	41.21	9	42.79	9	44.58
18	43.98	17	41.10	17	42.98	16	44.89
25	43.82	24	41.14	23	43.16	23	45.13
Apr. 1	43.63	July 1	41.22	30	43.34	30	45.08

79:38-3. American Finishing Co. Lauderdale St. and Bodley Ave., Memphis. 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 122.3 below lsd, Aug. 14-15, 1953. Records available: 1945-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	91.0	83.0	86.7	91.1	84.2	88.0	111.0	114.2	114.8	110.6	104.9	106.2
2	91.5	86.7	88.0	89.5	82.5	93.6	111.7	112.5	115.2	110.6	102.9	107.0
3	90.8	88.0	89.6	89.7	79.8	97.0	110.8	110.8	116.6	110.2	102.9	107.9
4	84.5	89.7	89.7	88.6	80.6	97.3	108.8	112.19	116.3	105.6	102.5	107.9
5	88.2	89.6	87.3	83.4	82.1	98.8	103.6	114.4	115.1	107.0	102.7	107.3
6	91.2	90.2	86.0	84.6	83.2	98.4	100.1	115.2	109.1	107.1	102.4	101.0
7	90.8	89.8	85.0	85.7	83.7	94.2	100.6	114.9	106.9	107.3	102.0	103.4
8	91.4	87.1	81.8	86.0	83.7	96.9	100.3	114.3	109.8	108.0	99.7	104.8
9	92.7	87.2	83.2	85.7	83.2	99.4	99.6	112.3	113.4	108.3	100.6	105.1
10	92.2	89.8	85.0	84.4	80.0	102.4	99.4	114.3	114.2	108.0	101.4	105.5
11	83.1	90.2	87.0	84.1	81.0	.....	98.8	119.1	115.0	104.6	103.0	104.8
12	88.1	90.5	87.4	81.1	83.2	.....	98.2	121.1	114.4	108.8	103.7	104.2
13	90.6	90.6	86.9	83.8	83.2	.....	100.2	121.9	108.9	112.5	104.5	.....
14	91.6	90.0	85.9	85.9	86.5	.....	103.4	122.3	110.4	111.4	104.1	.....
15	91.6	.....	.....	85.2	86.0	.....	104.4	122.3	113.2	109.9	100.4	100.47
16	92.1	.....	.....	85.0	84.9	101.93	105.4	114.9	114.4	108.8	104.6	101.2
17	91.3	90.1	86.6	86.6	79.6	109.0	105.2	113.6	115.3	107.9	106.8	102.9
18	83.1	90.2	88.1	85.9	82.6	109.4	105.1	117.1	115.8	104.0	107.8	103.2
19	88.5	90.5	88.4	81.0	83.4	110.5	104.0	116.8	118.8	107.2	108.2	102.3
20	90.7	90.9	88.8	82.3	83.7	110.1	104.8	116.3	110.3	108.6	108.2	98.3
21	91.4	90.7	87.4	84.5	83.4	105.4	110.5	115.9	109.2	110.7	108.0	100.8
22	91.9	88.0	81.5	85.0	85.1	104.5	109.8	115.5	109.9	111.3	99.2	101.9
23	91.9	89.4	84.1	84.7	84.8	107.4	110.4	110.8	109.9	110.8	.....	101.0
24	91.3	90.5	87.4	84.4	80.6	108.6	.....	111.9	109.8	110.3	106.9	100.3
25	83.1	91.0	88.1	84.2	87.6	109.8	.....	115.7	109.7	107.3	106.7	98.2
26	88.3	91.3	87.3	80.8	93.6	109.4	.....	118.0	108.4	106.2	105.7	97.1
27	90.6	91.1	88.7	83.0	93.9	108.7	.....	117.7	104.0	107.9	99.5	96.8
28	91.2	90.8	88.1	83.9	91.4	105.1	110.37	117.6	.....	108.2	98.8	98.8
29	91.6	.....	82.4	84.4	90.2	104.9	114.2	116.3	109.2	109.7	97.8	100.3
30	90.0	.....	84.8	84.6	88.6	109.6	114.2	111.9	110.2	108.7	108.5	101.0
31	89.6	.....	91.0	.....	83.2	.....	113.8	112.0	.....	107.7	.....	101.6

h Tape measurement.

79:55-1. Baptist Memorial Hospital. Monroe Ave. and East St., Memphis. 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 113.13 below lsd, Oct. 21, 1953. Records available: 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	96.13	Apr. 8	97.57	July 8	111.10	Oct. 7	112.87
14	97.40	15	97.79	15	111.66	21	113.13
21	96.25	22	97.29	22	109.41	28	111.38
28	96.70	29	98.05	29	108.63	Nov. 4	108.46
Feb. 4	96.43	May 6	98.77	Aug. 5	111.00	11	107.44
11	97.35	13	97.58	12	112.57	18	108.65
18	96.58	20	97.53	19	112.85	25	108.95
25	96.26	27	99.75	26	110.95	Dec. 2	105.07
Mar. 4	95.85	June 3	98.32	Sept. 2	112.34	9	106.36
11	94.75	10	103.86	9	110.48	16	105.25
18	96.10	17	105.84	17	112.83	23	106.65
25	96.80	24	107.82	23	112.77	30	103.08
Apr. 1	97.50	July 1	109.70	30	111.96		

79:61-1. Pershing Avenue Corp. Pershing Ave. and Scott St., Memphis. 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: 1944-53.

79:61-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	88.44	Apr. 2	89.50	June 23	96.20	Sept. 24	97.38
15	88.15	9	90.76	30	96.94	Oct. 1	98.40
22	87.00	16	91.56	July 7	89.35	15	98.42
29	89.71	23	91.82	14	93.18	29	97.59
Feb. 5	90.13	30	89.49	21	94.53	Nov. 5	97.26
12	87.42	May 7	91.49	28	96.49	12	97.11
19	91.63	14	91.06	Aug. 4	96.75	26	90.53
26	89.51	21	91.10	18	97.38	Dec. 3	94.52
Mar. 5	91.12	28	92.52	25	96.65	10	96.28
12	90.66	June 3	94.10	Sept. 1	99.70	15	91.36
19	91.59	10	94.63	8	97.70	22	95.82
26	91.48	17	95.28	15	97.80	29	93.55

79:65-1. Clover Farm Dairy. Beale Ave. and Manassas St., Memphis. 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 144.2 below lsd, July 3, 1953. Records available: 1945-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	122.9	118.4	120.2	125.1	127.0	132.5	142.9	138.6	140.0	.....	.....	h130.28
2	122.3	121.3	119.9	125.6	126.5	133.3	143.9	136.6	140.6	.....	.....	130.6
3	121.9	123.0	120.5	125.6	123.5	132.7	144.2	136.7	140.9	.....	h133.50	131.1
4	117.8	124.2	120.2	124.5	123.9	133.0	142.0	138.2	141.4	.....	135.2	132.2
5	121.9	124.2	120.2	121.0	123.8	133.2	137.4	140.8	.....	.....	135.1	131.8
6	123.2	124.2	.....	122.7	124.5	133.2	138.8	142.0	.....	h137.69	134.8	129.0
7	124.4	123.5	.....	122.7	124.7	130.2	140.2	141.1	.....	138.2	.....	131.3
8	125.1	119.2	.....	124.3	124.8	132.8	140.6	140.6	136.4	137.8	.....	131.4
9	124.5	122.3	.....	125.6	124.6	135.5	140.7	138.0	138.4	138.0	.....	132.0
10	123.0	123.1	h119.65	126.2	121.5	137.1	140.4	138.7	139.0	136.5	132.5	132.0
11	119.1	123.2	120.2	124.8	122.8	138.0	139.6	139.1	140.4	133.6	132.2	131.8
12	122.6	123.5	121.2	121.3	124.3	137.6	136.8	139.6	140.1	137.3	134.1	130.9
13	123.4	123.5	122.2	122.8	125.2	137.5	137.4	139.8	137.1	138.7	134.9	128.0
14	124.2	122.7	121.5	123.5	.....	134.0	138.3	140.3	138.9	138.6	134.2	129.7
15	124.4	120.1	120.8	124.3	.....	136.3	138.3	139.8	139.7	139.4	132.2	130.3
16	124.4	121.3	120.7	123.9	.....	137.8	138.3	136.6	140.0	139.9	133.3	131.6
17	122.6	121.4	121.8	124.0	.....	139.0	137.6	138.6	140.8	139.2	134.0	131.8
18	118.3	122.0	121.9	123.6	.....	139.5	136.0	139.6	141.4	136.0	134.4	131.7
19	121.9	122.6	121.5	119.6	h124.25	139.4	134.0	140.0	140.6	138.3	134.8	131.1
20	122.8	122.7	121.9	122.3	125.4	138.9	134.9	139.3	137.3	139.7	135.6	127.8
21	123.2	121.9	121.8	123.1	126.3	138.5	135.2	139.1	138.5	140.2	134.3	129.8
22	.....	117.6	120.5	124.4	127.4	138.6	135.1	137.9	138.4	140.5	131.1	130.5
23	.....	.....	120.7	125.6	127.4	139.9	135.9	134.6	137.8	141.4	131.6	131.2
24	.....	121.2	122.2	126.0	124.3	140.7	136.7	136.6	137.9	140.2	132.0	131.0
25	.....	121.3	122.4	124.5	127.9	141.7	135.4	137.8	.....	138.7	.....	130.1
26	.....	121.8	122.4	123.7	130.2	142.5	132.2	138.9	.....	136.6	.....	128.7
27	h122.68	121.8	124.5	123.6	132.0	141.1	134.1	139.9	.....	136.0	.....	125.4
28	123.6	121.2	124.2	125.2	133.8	137.8	135.3	139.9	.....	.....	.....	127.4
29	123.7	.....	120.0	125.5	134.5	140.0	137.2	139.1	138.8	.....	.....	127.8
30	123.2	.....	123.5	126.0	133.9	141.8	137.8	136.3	.....	.....	.....	129.1
31	122.4	.....	124.4	.....	131.1	.....	138.7	138.4	.....	.....	.....	130.4

h Tape measurement.

79:87-2. Illinois Central Railroad. Gilbert Ave. and Barton St., Memphis. 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 118.21 below lsd, Sept. 2, 1953. Records available: 1946-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	89.93	Feb. 18	89.15	Apr. 1	89.87	May 13	86.97
14	92.00	25	90.69	8	87.94	20	89.79
21	91.06	Mar. 4	89.20	15	86.30	27	93.83
28	90.66	11	90.00	22	89.14	June 3	107.12
Feb. 4	89.89	18	86.85	29	88.45	10	114.88
11	87.62	25	91.56	May 6	89.27	17	103.04

79:87-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 24	96.46	Aug. 12	117.54	Sept. 30	116.39	Nov. 18	111.78
July 1	100.55	19	116.37	Oct. 7	116.64	25	108.21
8	97.48	26	115.36	14	114.97	Dec. 2	106.74
15	102.65	Sept. 2	118.21	21	114.33	9	109.23
22	98.93	9	114.34	28	113.65	16	110.10
29	101.08	17	116.06	Nov. 4	112.57	23	107.22
Aug. 5	116.24	23	115.48	11	107.84	30	104.95

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 292.0 feet above msl. Highest water level 99.66 below lsd, Jan. 22, 1946; lowest 134.30 below lsd, Sept. 17, 1953. Records available: 1944-53.

Jan. 7	116.15	Apr. 8	113.97	July 8	129.86	Oct. 7	132.64
14	115.49	15	114.30	15	129.05	14	131.13
21	115.82	22	114.14	22	130.11	21	131.28
28	115.67	29	114.15	29	130.45	28	129.89
Feb. 4	115.70	May 6	114.07	Aug. 5	132.30	Nov. 4	128.23
11	114.51	13	114.06	12	132.96	11	126.13
18	113.95	20	113.13	19	133.99	18	127.34
25	113.80	27	119.35	26	133.00	25	126.95
Mar. 4	113.23	June 3	121.28	Sept. 2	134.02	Dec. 2	125.64
11	113.45	10	125.12	9	132.53	9	125.11
18	113.18	17	127.31	17	134.30	16	126.86
25	114.28	24	129.40	23	133.18	23	126.08
Apr. 1	114.44	July 1	130.32	30	133.19	30	123.36

79:122-1. Reed Bros. Dairy. Beechwood Ave. and Bellevue Blvd., Memphis. 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 151.90 below lsd, June 8, 1953. Records available: 1946-53.

Jan. 5	128.57	Mar. 23	126.59	June 8	151.90	Sept. 14	145.05
12	127.84	30	127.66	15	128.30	21	147.13
19	127.51	Apr. 6	127.79	22	142.06	28	144.09
26	126.94	13	127.45	29	144.57	Oct. 19	143.71
Feb. 2	128.17	20	127.55	July 6	142.92	26	143.38
9	128.39	27	126.98	20	140.43	Nov. 2	140.99
16	127.00	May 4	128.18	27	143.52	9	139.12
24	128.10	11	126.96	Aug. 3	144.80	23	139.76
Mar. 2	126.39	18	126.89	10	145.46	30	138.04
9	125.37	25	128.61	24	145.95	Dec. 7	138.21
16	126.70	June 1	131.90	31	144.87	21	125.17

79:142-1. Welsh Lumber Co. Florida St. and Bodley Ave., Memphis. Lat. 35°04'57", long. 90°03'49". Drilled unused artesian well in sand of Claiborne group, diameter 4 inches, reported depth 465 feet. Land-surface datum is about 220 feet above msl. Highest water level 20.67 below lsd, Feb. 21, 1950; lowest 49.15 below lsd, Aug. 19, 1953. Records available: 1946-53.

Jan. 7	34.64	Apr. 8	31.67	July 8	43.34	Oct. 7	48.02
14	34.41	15	31.32	15	43.04	14	48.09
21	34.24	22	31.30	22	44.76	21	47.93
28	34.33	29	30.96	29	46.13	28	47.33
Feb. 4	33.95	May 6	31.18	Aug. 5	47.29	Nov. 4	46.22
11	33.20	13	32.02	12	48.29	11	45.22
18	33.15	20	30.53	19	49.15	18	45.80
25	32.90	27	32.64	26	48.31	25	45.18
Mar. 4	32.37	June 3	34.73	Sept. 2	48.89	Dec. 2	44.30
11	31.20	10	41.03	9	47.90	9	43.47
18	31.42	17	41.48	17	46.05	16	43.77
25	31.81	24	43.60	23	48.55	23	37.73
Apr. 1	31.84	July 1	44.74	30	47.99	30	43.24

79:148-1D. T. D. Ervin. 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 48.17 below lsd, Oct. 20, 1953. Records available: 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.67	46.22	45.77	45.48	45.48	45.92	47.14	47.21	47.68	48.03	48.06	47.90
2	46.53	46.17	45.66	45.53	45.62	45.97	47.09	47.21	47.65	48.03	48.08	47.85
3	46.55	46.12	45.56	45.54	45.69	45.99	47.15	47.24	47.62	48.08	48.05	47.72
4	46.56	46.19	45.71	45.62	45.70	46.01	47.20	47.23	47.69	48.05	48.03	47.77
5	46.49	46.13	45.76	45.58	45.69	46.07	47.25	47.20	47.77	47.97	48.08	47.77
6	46.49	46.11	45.77	45.39	45.68	46.14	47.24	47.21	47.77	48.08	48.08	47.79
7	46.46	46.14	45.75	45.40	45.60	46.20	47.26	47.24	47.83	48.12	48.07	47.80
8	46.35	46.24	45.78	45.40	45.66	46.28	47.29	47.23	47.88	48.10	48.07	47.72
9	46.34	46.31	45.76	45.37	45.72	46.40	47.37	47.26	47.88	48.05	48.08	47.65
10	46.41	46.30	45.66	45.47	45.71	46.50	.....	47.28	47.87	48.00	48.07	47.69
11	46.61	46.07	45.55	45.45	45.69	46.51	.....	47.28	47.83	47.94	48.01	47.65
12	46.61	46.11	45.49	45.49	45.70	46.49	.....	47.29	47.82	48.03	48.03	47.63
13	46.47	46.12	45.48	45.59	45.75	46.44	47.33	47.27	47.85	48.08	48.07	47.59
14	46.43	46.06	45.41	45.61	45.75	46.43	47.33	47.25	47.80	48.11	48.06	47.66
15	46.48	46.02	45.51	45.54	45.73	46.46	47.35	47.26	47.78	48.12	47.99	47.69
16	46.55	46.16	45.56	45.64	45.64	46.53	47.36	47.26	47.82	48.11	47.94	47.85
17	46.45	46.26	45.48	45.58	45.59	46.59	47.32	47.30	47.85	48.11	47.92	47.91
18	46.30	46.20	45.35	45.67	35.59	46.60	47.33	47.34	47.86	48.14	47.89	47.91
19	46.18	46.11	45.47	45.70	45.60	46.63	47.33	47.37	47.85	48.15	47.68	47.82
20	46.15	45.92	45.44	45.76	45.62	46.66	47.34	47.39	47.82	48.17	47.83	47.68
21	46.22	46.21	45.36	45.71	45.63	46.74	47.29	47.43	48.05	48.14	47.84	47.46
22	46.21	46.23	45.45	45.64	45.62	46.79	47.17	47.47	48.12	48.12	47.74	47.80
23	46.06	46.20	45.42	45.66	45.69	46.83	47.25	47.47	48.08	48.08	47.75	47.84
24	46.22	46.10	45.49	45.62	45.70	46.83	47.26	47.47	48.04	48.05	47.63	47.85
25	46.28	45.95	45.55	45.59	45.72	46.88	47.29	47.52	.....	48.04	47.73	47.73
26	46.21	45.90	45.58	45.68	45.75	47.00	47.30	47.54	47.87	47.99	47.80	47.65
27	46.17	45.86	45.52	45.73	45.82	47.00	47.26	47.55	47.61	47.94	47.91	47.60
28	46.26	45.89	45.53	45.62	45.87	47.07	47.20	47.54	47.87	47.97	47.99	47.53
29	46.25		45.53	45.51	45.85	47.15	47.20	47.53	47.89	48.05	47.95	47.51
30	46.19		45.47	45.44	45.84	47.17	47.23	47.58	47.99	48.07	47.91	47.69
31	46.16		45.39		45.85		47.25	47.63		48.05		47.71

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. Highest water level 9.14 above lsd, Jan. 18, 1946; lowest 0.64 above lsd, July 11, 1944. Records available: 1944-47, 1949-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	+2.93	Apr. 9	+3.89	June 17	+3.23	Sept. 9	+2.56
29	2.94	23	3.70	30	3.17	24	2.30
Feb. 26	3.50	May 7	3.93	July 14	2.93	Oct. 8	2.22
Mar. 12	3.59	21	4.16	28	2.97	Dec. 29	2.20
26	3.71	June 3	3.81	Aug. 12	2.39		

79:167-1. City of Collierville. Main St. 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 96.30 below lsd, Mar. 18, 1952; lowest 103.61 below lsd, Oct. 22, 1953. Records available: 1944-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	97.28	Apr. 23	97.05	July 28	98.26	Oct. 22	103.61
29	97.28	May 7	97.77	Aug. 12	99.22	Nov. 5	97.51
Feb. 12	98.34	21	97.13	25	97.38	19	97.31
26	98.37	June 3	98.71	Sept. 8	97.37	Dec. 3	99.67
Mar. 12	97.11	17	98.14	24	97.34	15	97.43
26	98.50	30	97.20	Oct. 8	97.50	29	98.46
Apr. 9	98.46	July 14	99.29				

79:174-1. J. C. Goshorn Co. Bodley Ave. and Third St., Memphis. 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 26.93 below lsd, Oct. 26, 1953. Records available: 1946-53.

258 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

79:174-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	24.70	Apr. 8	21.63	July 8	23.80	Sept. 30	25.61
14	24.37	15	22.04	15	23.94	Oct. 7	25.77
21	24.55	22	22.38	22	22.60	14	25.91
28	24.19	29	21.80	29	23.15	21	26.06
Feb. 4	23.72	May 6	21.32	Aug. 5	23.65	28	26.93
11	22.40	13	20.83	12	24.03	Nov. 4	26.01
18	22.93	20	20.40	19	24.38	11	26.11
25	22.74	27	20.96	26	24.49	18	26.14
Mar. 4	21.95	June 3	21.90	Sept. 2	24.76	25	25.53
11	22.10	10	22.44	9	25.08	Dec. 2	25.77
18	21.82	17	22.67	17	25.34	16	25.00
25	21.66	24	23.08	23	25.44	30	25.01
Apr. 1	21.78	July 1	23.46				

79:175-1. C. W. Bond. Chester St., 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 58.14 below lsd, May 21, 1953; lowest 66.31 below lsd, Oct. 13, 1948.
 Records available: 1945-53.

Jan. 15	61.54	Apr. 23	61.04	July 28	61.18	Oct. 22	62.08
29	61.51	May 7	59.95	Aug. 12	61.53	Nov. 5	62.10
Feb. 12	60.56	21	58.14	25	61.65	19	62.12
26	60.97	June 3	60.65	Sept. 8	61.81	Dec. 3	62.05
Mar. 12	60.96	17	60.98	24	61.85	15	62.02
26	60.29	30	61.23	Oct. 8	61.96	29	62.06
Apr. 9	60.64	July 14	61.30				

79:176-1. Gulf Refining Co. Mallory Ave. and Fisher St., Memphis. 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 33.40 below lsd, May 27, 1953. Records available: 1947-53. Measurement discontinued.

Mar. 25	43.20	Apr. 15	43.33	May 6	43.26	May 27	33.40
Apr. 1	42.72	22	42.67	13	42.62	June 3	47.10
8	42.70	29	42.48	20	41.78		

79:193-1. National Cylinder Gas Co. Tully St. and Sexton Ave., Memphis. 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 105.1 below lsd, Oct. 2, 1953. Records available: 1949-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	87.4	85.5	88.6	92.1	93.1	100.9	100.5	101.9	104.5	92.1	h91.02
2	....	87.6	84.0	89.5	92.2	93.1	101.3	....	102.6	105.1	96.9	92.6
3	....	88.9	84.4	89.4	90.2	92.6	101.6	....	103.0	105.0	99.4	....
4	....	89.7	84.2	88.0	....	92.5	101.1	h97.96	103.1	99.6	100.6	....
5	....	89.7	85.6	86.9	h86.70	95.1	....	100.8	102.8	100.3	100.6	....
6	h88.54	90.3	87.4	83.8	88.6	95.5	....	101.3	97.0	101.1	....	....
7	90.1	90.6	87.5	85.8	88.9	94.5	98.5	101.0	91.5	102.7	....	....
8	90.4	88.7	....	88.0	88.2	93.6	98.7	98.4	97.5	102.5	....	h94.33
9	90.1	88.6	....	88.9	87.8	96.0	98.9	94.7	99.5	102.1	....	96.6
10	89.4	89.0	h86.34	89.5	86.9	96.9	....	92.6	100.5	101.8	h100.30	96.5
11	87.8	88.5	88.4	89.3	....	97.5	....	92.2	101.1	98.6	....	96.0
12	88.3	88.8	89.8	86.2	h87.41	97.4	....	93.8	101.3	99.3	....	95.7
13	89.2	88.7	90.8	86.5	90.6	95.9	....	92.7	98.4	100.9	....	90.5
14	89.6	88.3	91.0	87.9	....	91.3	h94.63	93.0	100.0	100.1	....	92.0
15	89.4	85.1	90.1	87.8	....	92.8	95.6	92.9	100.8	101.9	....	93.2
16	89.3	....	....	88.0	....	96.3	95.6	91.7	100.6	102.2	....	95.0
17	89.4	h86.38	h88.93	88.0	....	97.0	....	96.2	101.2	102.2	....	95.1
18	87.4	86.5	89.6	87.6	....	98.4	....	98.0	102.2	99.0	101.3	96.4
19	87.6	87.2	89.4	87.0	h88.80	98.9	....	98.4	102.1	100.6	102.4	96.4
20	89.0	87.1	90.0	85.2	90.9	98.8	....	98.8	96.4	101.8	102.4	91.8
21	89.7	86.7	90.4	87.5	92.0	95.1	h93.82	99.0	....	102.3	99.1	90.7
22	90.1	85.7	87.9	88.7	92.9	96.2	93.6	98.9	h98.90	102.8	95.0	91.9
23	90.7	86.4	85.5	89.5	92.9	98.3	95.1	92.9	99.3	104.5	97.5	91.8
24	90.7	87.0	h86.49	....	91.1	99.1	95.3	96.5	99.3	104.6	101.5	91.4
25	89.4	86.9	87.5	89.8	91.2	100.0	94.6	99.3	99.9	....	101.9	85.3

79:193-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	....	87.7	88.6	86.9	93.6	100.6	94.1	100.5	99.9	....	99.2	82.7
27	h88.84	87.8	89.2	....	94.2	100.5	92.4	100.5	96.0	h99.53	....	81.5
28	89.2	87.4	88.8	h89.33	95.5	97.4	96.2	96.3	98.6	101.0	....	88.6
29	88.8		86.0	91.1	95.8	98.0	98.4	95.8	102.2	100.0	....	91.7
30	88.9		85.4	91.6	94.5	100.0	99.1	95.2	103.6	100.2	....	94.8
31	88.8		86.6		88.9		100.6	99.2		98.0		95.5

h Tape measurement.

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 84.21 below lsd, Mar. 10, 1952; lowest 114.81 below lsd, Jan. 31, 1950. Records available: 1950-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	84.86	84.80	84.75	84.63	84.51	84.79	84.89	84.91	84.95	85.04	85.06	85.11
2	84.78	84.80	84.61	84.77	84.66	84.84	84.77	84.90	84.88	85.05	85.10	85.10
3	84.70	84.68	84.61	84.72	84.78	84.82	84.77	84.95	84.84	85.09	85.08	85.00
4	84.71	84.79	84.66	84.84	84.78	84.80	84.86	84.94	84.80	85.03	85.07	85.01
5	84.78	84.75	84.86	84.78	84.76	84.81	84.90	84.85	84.92	84.90	85.09	85.01
6	84.80	84.65	84.93	84.60	84.72	84.83	84.86	84.88	84.92	84.96	85.15	85.04
7	84.75	84.71	84.92	84.63	84.65	84.84	84.86	84.93	84.99	85.02	85.15	85.07
8	84.65	84.90	85.01	84.62	84.70	84.86	84.87	84.86	85.05	85.05	85.17	85.08
9	84.54	85.05	84.99	84.62	84.80	84.95	84.96	84.90	85.06	85.00	85.19	84.91
10	84.60	84.99	84.92	84.67	84.81	85.00	85.02	84.95	85.01	84.91	85.18	84.93
11	84.90	84.84	84.90	84.70	84.81	84.98	85.01	84.97	84.96	84.85	85.14	84.99
12	84.90	84.73	84.86	84.53	84.79	84.96	84.95	84.96	84.90	84.95	85.16	84.91
13	84.91	84.74	84.84	84.76	84.82	84.83	84.89	84.92	84.90	84.99	85.21	84.85
14	84.91	84.75	84.78	84.92	84.75	84.75	84.89	84.87	84.87	85.05	85.22	84.85
15	84.91	84.66	84.85	84.73	84.77	84.76	84.94	84.86	84.79	85.05	85.13	84.97
16	84.93	84.78	84.96	84.80	84.65	84.76	84.94	84.87	84.81	85.03	85.05	85.26
17	84.96	84.98	84.87	84.73	84.59	84.76	84.89	84.88	84.85	85.04	85.06	85.37
18	84.80	85.00	84.63	84.71	84.58	84.75	84.85	84.91	84.89	85.08	85.08	85.38
19	84.72	84.94	84.79	84.81	84.56	84.78	84.85	84.93	84.84	85.09	85.10	85.33
20	84.56	84.81	84.77	84.86	84.60	84.79	84.86	84.94	84.77	85.10	84.98	85.17
21	84.72	85.05	84.74	84.86	84.62	84.82	84.84	84.99	85.00	85.08	84.94	84.89
22	84.73	85.14	84.69	84.81	84.63	84.88	84.76	85.03	85.11	85.07	84.91	85.05
23	84.67	85.14	84.70	84.74	84.70	84.92	84.86	84.99	85.10	85.00	84.89	85.20
24	84.65	85.08	84.70	84.72	84.77	84.91	84.94	84.96	85.10	84.92	84.75	85.30
25	84.85	84.85	84.86	84.62	84.80	84.92	84.99	84.98	85.05	84.92	84.68	85.16
26	84.85	84.73	84.88	84.69	84.79	84.98	85.04	84.97	84.92	84.90	84.86	85.02
27	84.76	84.74	84.83	84.82	84.89	84.96	85.00	84.96	84.82	84.76	85.01	84.99
28	84.82	84.81	84.77	84.76	84.98	84.97	84.92	84.92	84.84	84.79	85.17	84.91
29	84.83		84.84	84.61	84.91	85.01	84.92	84.87	84.89	84.89	85.17	84.85
30	84.85		84.79	84.43	84.81	84.99	84.95	84.89	85.00	85.01	85.11	85.05
31	84.79		84.67		84.76		84.96	84.83		85.02		85.08

VIRGINIA

By Rodney Hart and Allen Sinnott

Scope of Water-Level Program

The observation-well program in Virginia was continued in 1953 in cooperation with the State Geological Survey. In northern Virginia, month-end tape measurements were made in 5 wells; in eastern Virginia, measurements were made in 9 wells, 2 of which are equipped with recording gages. (See fig. 43.)

Interpretation of Water-Level Fluctuations

Northern Virginia. --Observation wells in the northern part of Virginia are shallow wells, underlain by crystalline rocks. Their water levels are greatly affected by precipitation. Precipitation in 1953 was 2.73 inches above normal; in 1952 it was 10.58 inches above normal. This decrease in precipitation is reflected in a noticeable net decline in water levels in all of the wells in the northern part of Virginia. The precipitation and departure from normal at Washington, D. C., in 1953, as shown by 30 years of record of the U. S. Weather Bureau, are given in the following table:

Precipitation at Washington, D. C.

Month	Recorded precipitation	Normal precipitation (1921-50)	Departure from normal	Accumulated departure from normal
January	3.67	3.41	+0.26	+0.26
February	2.23	2.64	-.41	-.15
March	7.07	3.36	+3.71	+3.56
April	4.18	3.20	+.98	+4.54
May	6.22	3.91	+2.31	+6.85
June	2.66	3.42	-.76	+6.09
July	3.21	4.11	-.90	+5.19
August	2.30	4.49	-2.19	+3.00
September	4.60	4.36	+.24	+3.24
October	2.89	2.97	-.08	+3.16
November	1.76	2.82	-1.06	+2.10
December	3.38	2.75	+.63	+2.73
Year	44.17	41.44	+2.73	+2.73

The greatest decline in water level occurred in the Bell well (Fairfax County 2) where the water level was 2.81 feet lower at the end of the year than at the beginning. The greatest range in water level, however, occurred in the Halls Hill well (Arlington County 1) where the difference between the highest and lowest stages recorded during the year was 7.29 feet. The average net decline for the three deepest wells (Arlington County 1 and 2, and Fairfax County 1) was 2.18 feet which indicated a noticeable decrease in ground-water storage since December 1952. The following table shows the water level, in feet below land-surface datum, for each well at the beginning and end of 1953, the highest and lowest levels recorded during the year, the range in level, and the net change (+rise, -decline) for the year. (See fig. 44.)

Water levels in five observation wells in northern Virginia

Well	Dec. 31 1952	Dec. 31 1953	Net change	Highest	Lowest	Range in level
Arlington Co.						
Halls Hill	24.85	26.76	-1.91	19.47	26.76	7.29
Ross	21.91	23.79	-1.88	17.82	23.79	5.97
Fairfax Co.						
Bacon	13.56	16.30	-2.74	11.42	17.63	6.21
Bell	1.38	4.19	-2.81	.20	17.43	7.23
Swart	1.35	1.26	+.09	1.15	1.76	.61

f Dry.

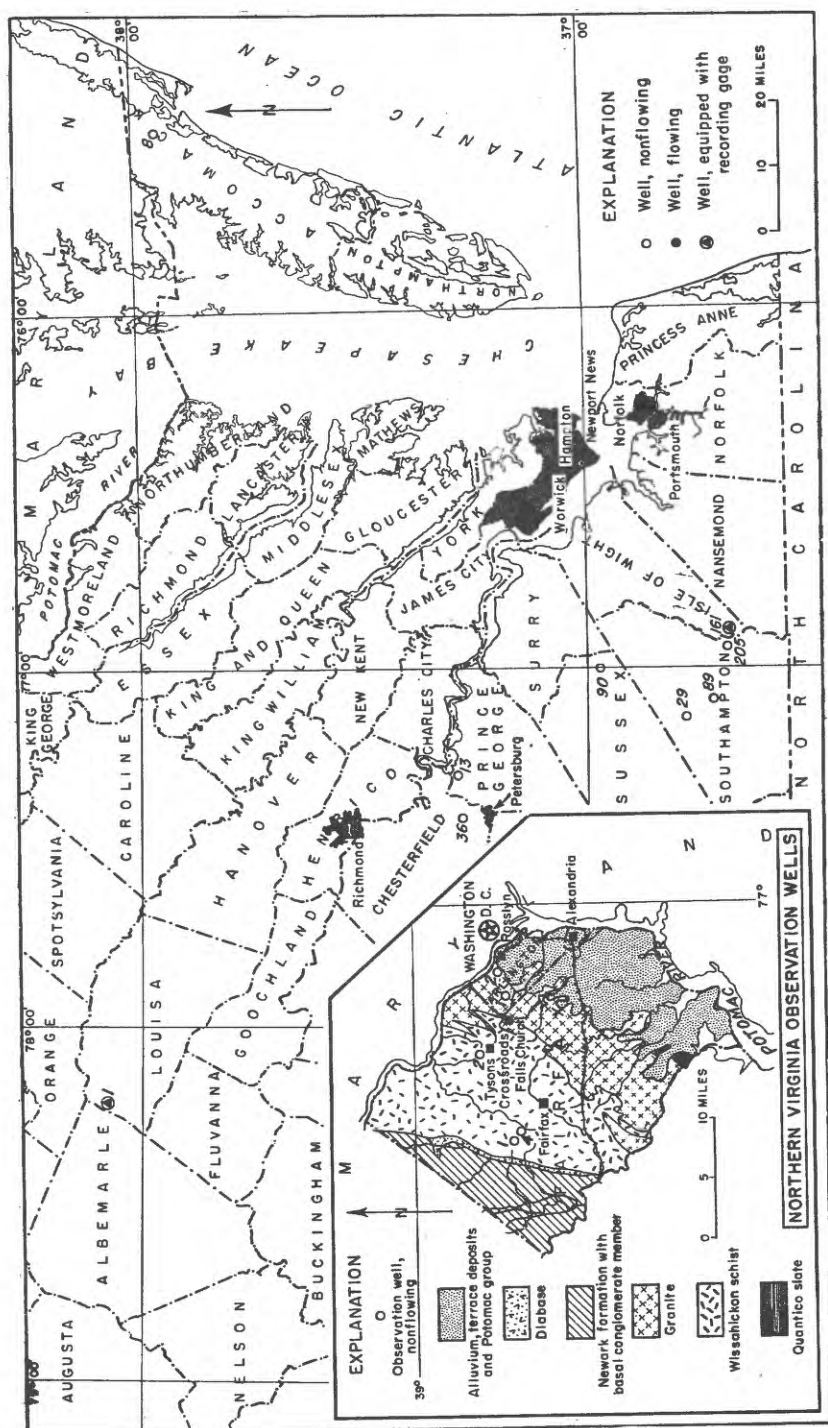


Figure 43. --Location of observation wells in Virginia, 1953.

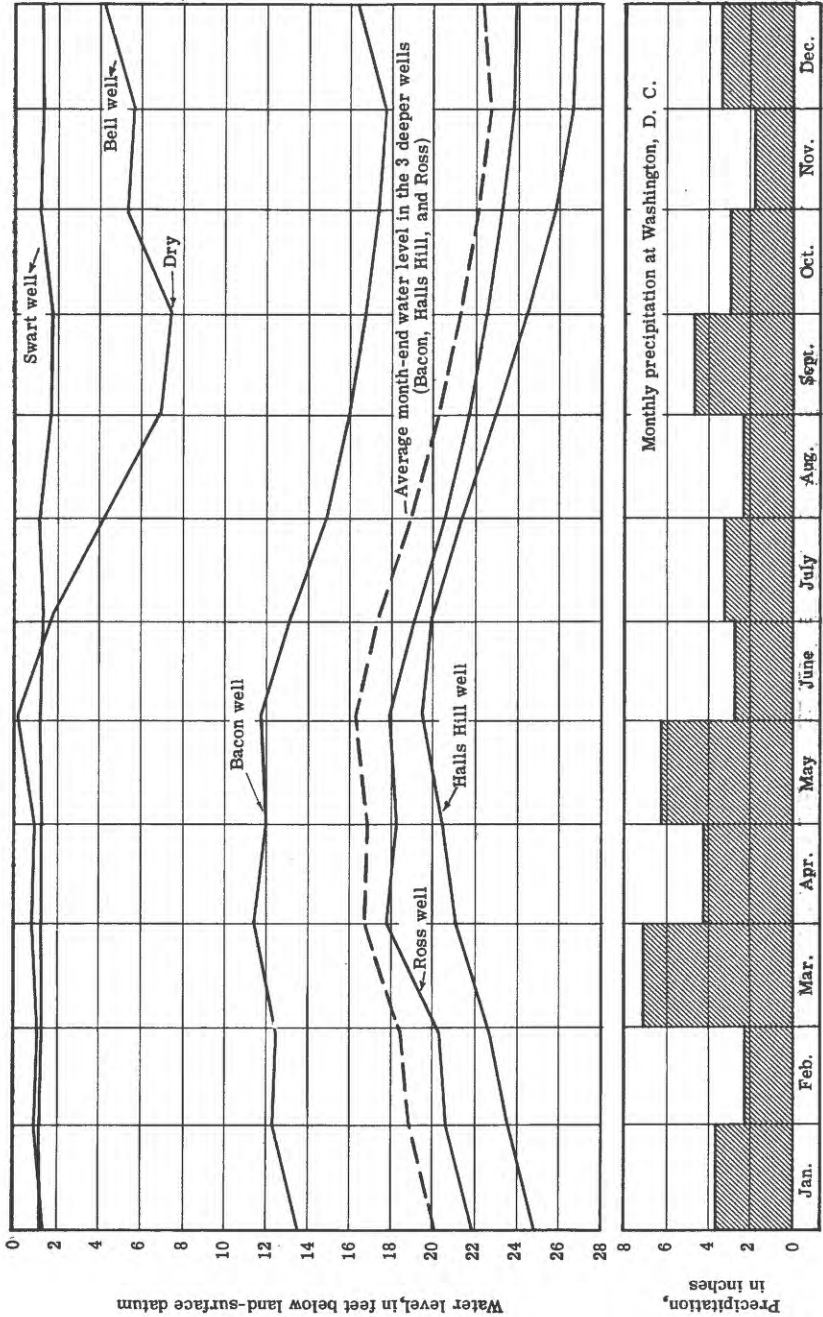


Figure 44. --Water levels in 5 wells in northern Virginia and precipitation at Washington, D. C. 1953

Eastern Virginia. --The fluctuations of the water level in well 8 in Accomack County, at the Chincoteague Naval Auxiliary Air Station, showed similar patterns during 1952 and 1953. The highest level was in the late spring, after which there was a decline, with a reversal in mid-August, until the end of the year, when the level was about $\frac{1}{2}$ foot above the year-end level of 1952.

Reflecting the deficient precipitation in 1953, the late-December water level in well 36, in Chesterfield County, was more than a foot lower than the year-end level for 1952. The rainfall at Richmond was 9.16 inches below normal during 1953, compared with 8.79 inches above normal during 1952.

The water level in well 161 in Isle of Wight County at the pulp mill in East Franklin has continued to decline gradually in response to pumping since 1950. A new record low level was reached in late September, which was 9 feet below the lowest level of 1952. Temporary recovery of several feet occurred when the mill was shut down over holidays.

The water level in well 1, Louisa County recovered to a new high of 15.10 feet below the surface in April. With the onset of the summer months, increased evapotranspiration coupled with a prolonged dry period caused a gradual decline, resulting in a record low of 29.60 feet on November 30. The water level had begun to recover by the end of the year.

The water level in well 13, at the Old Dominion Water Corporation in Hopewell, Prince George County, showed the usual seasonal fluctuation pattern. Artificial recharge of cold water was probably carried on from January to March at the nearby Solvay Process Plant. Summer pumping began about mid-May, lowering the water level to about 48 $\frac{1}{2}$ feet through the summer months and into late October. When pumping stopped, the water level recovered to about 37 feet.

During 1953, the water level in well 29 at Sebrell, Southampton County, again reached a new low, nearly 2 feet below the lowest level of 1952. This occurred in late December, after a steady decline throughout the year. Measurements in well 205 in Franklin showed a similar pattern of steady decline, reaching a new low in December of nearly 4 feet below the record low level of 1952. The decline in both wells is attributed to increased pumping at Franklin.

The water level in well 90, at Wakefield, Sussex County, continued to decline slowly during 1953. A record low of 78.24 feet was reached on November 10, followed by a recovery of nearly 3 feet during the remainder of the year. At the end of December, the water level was still nearly a foot lower than the end-December level of 1952. This well is believed to be declining in response to the heavy industrial pumping at Franklin, about 20 miles to the southeast.

Well-Numbering System

Wells are assigned serial numbers 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 24.41 below lsd, Sept. 7, 1949; lowest 29.86 below lsd, Sept. 10, 1951. Records available: 1948-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	28.03	Apr. 6	27.50	July 6	27.01	Oct. 12	27.37
12	28.03	13	27.25	13	27.13	19	27.38
19	27.99	20	27.20	20	27.15	26	27.42
26	27.96	27	27.11	27	27.24	Nov. 2	27.37
Feb. 2	27.93	May 4	27.06	Aug. 3	27.26	9	27.38
9	27.95	11	26.99	10	27.27	17	27.50
16	27.91	18	26.94	24	26.97	23	27.50
24	27.83	25	26.94	31	26.96	Dec. 1	27.54
Mar. 2	27.78	June 1	26.93	Sept. 14	27.04	7	27.46
9	27.70	8	26.95	21	27.14	14	27.49
16	27.65	15	27.00	28	27.13	21	27.60
23	27.53	22	26.99	Oct. 5	27.25	28	27.64
30	27.42	29	27.05				

Arlington County

1. Halls Hill. Langston School, Lee Highway and North Culpeper St. Lat. 38°53'46", long. 77°07'37". Dug unused water-table well in decomposed granite, diameter 24 inches, depth 35 feet. Highest water level 17.74 below lsd, Apr. 20, 1935; lowest 34.80 below lsd, Jan. 4, 1932. Records available: 1932-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	23.65	Apr. 30	20.46	July 31	21.42	Oct. 30	25.79
Feb. 27	22.74	June 1	19.47	Sept. 1	23.05	Nov. 30	26.60
Mar. 31	21.15	30	19.86	30	24.47	Dec. 31	26.76

2. Ross. 1918 North Wayne St., Rosslyn. Lat. 38°53'46", long. 77°05'19". Dug unused water-table well in decomposed granite, diameter 25 inches, depth 28 feet. Highest water level 15.85 below lsd, May 20, 1933; lowest 25.42 below lsd, Mar. 21, 28, 1931. Records available: 1928-53.

Jan. 30	20.73	Apr. 30	18.30	July 31	20.57	Oct. 30	23.21
Feb. 27	20.36	June 1	17.87	Sept. 1	21.76	Nov. 30	23.75
Mar. 31	17.82	30	19.07	30	22.54	Dec. 31	23.79

Chesterfield County

36. J. W. Jacot. Pilcher well, at Matoaka Manor. Lat. 37°17', long. 77°25'. Drilled unused water-table well in Petersburg granite, diameter 6 inches, depth 139 feet. Land-surface datum is 57.30 feet above msl. Highest water level 12.09 below lsd, Apr. 1, 1952; lowest 19.09 below lsd, Jan. 14, 1942. Records available: 1939-53.

Jan. 29	13.88	Apr. 28	13.45	Aug. 3	16.20	Nov. 9	16.95
Mar. 2	13.06	June 2	14.65	31	16.92	30	16.81
Apr. 3	12.76	29	15.20	Oct. 6	16.94	Dec. 30	16.06

Fairfax County

1. Bacon. Fair Acres Farm. Near Fairfax on U. S. Highway 50. Lat. 38°51'52", long. 77°21'13". Dug unused water-table well in Peters Creek quartzite, diameter 4 feet, depth 24 feet. Highest water level 9.63 below lsd, Apr. 30, 1952; lowest 23.58 below lsd, Dec. 26, 1931. Records available: 1931-53.

Jan. 30	12.37	Apr. 30	12.02	July 31	14.90	Oct. 30	17.33
Feb. 27	12.48	June 1	11.72	Sept. 1	16.00	Nov. 30	17.63
Mar. 31	11.42	30	13.18	30	16.76	Dec. 31	16.30

2. Bell. Ash Grove. Lat. 38°55'42", long. 77°14'25". Augured water-table well in alluvium of Recent age, diameter 2 inches, depth 7 feet. Highest water level 0.02 below lsd, Nov. 29, 1948; lowest 14.43 below lsd, Oct. 1, 1932. Records available: 1932-53.

Jan. 30	1.00	Apr. 30	0.94	July 31	4.21	Oct. 30	5.35
Feb. 27	1.12	June 1	.20	Sept. 1	7.03	Nov. 30	5.71
Mar. 31	.83	30	1.72	30	7.43	Dec. 31	4.19

f Dry.

4. Swart. Near Fairfax on U. S. Highway 50 at Difficult Run. Lat. 38°51'48", long. 77°20'48". Dug water-table well in alluvium of Recent age, diameter 25 inches, depth 10 feet. Highest water level 0.21 below lsd, Apr. 7, 1939; lowest 3.83 below lsd, Sept. 25, 1936. Records available: 1932-53.

Jan. 30	1.32	Apr. 30	1.30	July 31	1.19	Oct. 30	1.15
Feb. 27	1.34	June 1	1.25	Sept. 1	1.72	Nov. 30	1.33
Mar. 31	1.31	30	1.29	30	1.76	Dec. 31	1.26

Isle of Wight County

161. Camp Manufacturing Co. Lat. 36°40', long. 76°55'. Drilled 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 44.10 below lsd, Nov. 2, 1953. Records available: 1941-53.

161--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	33.65	Apr. 6	35.21	July 6	32.55	Oct. 5	41.88
12	33.95	13	35.12	13	36.17	12	43.99
19	34.11	21	35.31	20	36.66	19	40.39
26	34.09	27	35.25	27	36.72	26	39.92
Feb. 2	34.30	May 4	35.47	Aug. 3	37.07	Nov. 2	44.10
9	34.30	11	35.50	10	37.13	9	43.46
16	34.41	18	35.71	17	36.92	16	41.90
23	34.61	25	35.86	24	36.86	23	40.10
Mar. 2	34.63	June 1	35.97	31	39.46	30	40.04
9	34.75	8	36.25	Sept. 7	37.03	Dec. 7	40.01
16	34.71	15	36.15	14	39.16	14	43.59
23	34.81	22	36.07	21	40.03	21	43.06
30	35.06	29	36.40	28	40.58	28	34.67

j Nearby pulp mill shut down.

Louisa County

1. Tyler well. Near Thelma, 3 miles southwest of Boswell's Tavern on Tyler property near State Route 640. Lat. $38^{\circ}02'$, long. $78^{\circ}14'$. Drilled observation water-table well in Wissahickon formation, diameter 6 inches, depth 56 feet. Land-surface datum is about 500 feet above msl. Highest water level 15.10 below lsd, Apr. 24, 1953; lowest 29.60 below lsd, Nov. 30, 1953. Records available: 1952-53.

Jan. 6	20.53	Feb. 28	18.26	Apr. 24	15.10	Nov. 30	29.60
19	19.38	Mar. 7	18.04	May 22	18.20	Dec. 7	28.80
Feb. 9	18.91	23	17.12	June 8	19.69	14	28.43
16	18.90	Apr. 15	15.77	July 23	22.42	28	27.86

Prince George County

13. Old Dominion Water Corp. Hopewell. Lat. $37^{\circ}18'$, long. $77^{\circ}16'$. 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: 1939-53.

Jan. 2	35.04	Apr. 3	35.26	July 3	48.21	Oct. 2	48.53
9	26.71	10	35.26	10	47.86	9	48.36
16	35.80	17	34.87	18	48.31	16	48.25
23	35.31	24	35.46	24	48.44	23	48.06
30	35.16	May 1	35.33	31	48.56	30	48.06
Feb. 6	35.65	8	36.86	Aug. 7	48.54	Nov. 7	47.71
13	35.16	15	40.56	14	48.36	13	43.91
20	35.79	22	42.71	21	48.66	20	40.86
27	35.36	29	45.56	28	48.56	27	38.96
Mar. 6	35.26	June 5	46.81	Sept. 4	48.66	Dec. 4	38.11
13	34.16	12	47.56	11	48.66	11	37.56
20	35.11	19	47.86	18	48.65	18	37.31
27	34.89	26	48.36	25	48.54	25	37.16

Southampton County

29. Virginian Railway. Sebrell. Lat. $36^{\circ}47'$, long. $77^{\circ}08'$. 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 15.0 below lsd, 1907; lowest 37.30 below lsd, Dec. 30, 1953. Records available: 1907, 1938, 1940-46, 1948-53.

Jan. 29	35.48	Apr. 28	35.41	Aug. 3	36.17	Nov. 9	37.10
Mar. 2	35.44	June 2	35.60	31	36.52	Dec. 1	37.28
Apr. 3	35.33	29	35.73	Oct. 6	36.54	30	37.30

89. Southampton County Courthouse, 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 15.62 below lsd, Oct. 1, 1952. Records available: 1942-46, 1949-53. Jan. 29, 15.03.

205. Town of Franklin. Fifth Ave. and Middle St. Lat. $36^{\circ}41'$, long. $76^{\circ}55'$. Jetted unused artesian well in sands of Potomac group, diameter 4 inches, depth 354 feet, cased to 335, screen 335-354. Land-surface datum is 21.24 feet above msl. Highest water level 14.5 below lsd, June 25, 1942; lowest 51.0 below lsd, Dec. 19, 1953. Records available: 1942-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	45.5	Apr. 4	46.5	July 4	47.5	Oct. 3	47.2
10	45.5	11	45.5	11	47.5	10	49.5
17	46.0	18	46.5	18	48.5	17	48.0
24	44.5	25	47.5	25	48.5	24	46.5
31	45.5	May 2	46.5	Aug. 1	47.5	31	50.0
Feb. 7	45.5	9	47.0	8	47.5	Nov. 7	50.3
14	45.5	16	48.0	15	48.5	14	47.5
21	45.5	23	47.5	22	48.5	21	47.0
28	45.5	30	47.5	29	46.0	28	47.0
Mar. 7	45.5	June 6	47.5	Sept. 5	46.5	Dec. 5	46.5
14	45.5	13	48.0	12	45.3	12	49.5
21	45.5	20	47.0	19	48.0	19	51.0
28	45.5	27	47.0	26	46.5		

Sussex County

90. Jeb S. White. 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 78.24 below lsd, Nov. 10, 1953. Records available: 1938, 1940-53.

Jan. 5	74.78	Mar. 9	75.88	May 11	74.86	July 13	76.98
12	74.92	16	75.16	18	75.08	Nov. 10	78.24
19	74.55	23	75.51	23	75.59	17	76.30
26	74.96	30	74.73	June 1	75.94	24	76.11
Feb. 2	74.97	Apr. 6	74.57	8	76.00	Dec. 1	76.35
9	74.38	14	75.03	15	75.90	8	76.23
16	74.95	20	74.87	22	75.83	15	75.50
23	75.46	27	75.31	29	76.39	22	75.71
Mar. 3	74.90	May 5	74.78	July 6	76.94	29	75.28

WEST VIRGINIA

By G. D. Graeff

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 1953. Measurements of water levels were made in 11 wells, 4 of which are equipped with recording gages. Figure 45 shows the location of observation wells in West Virginia.

Precipitation

The average precipitation over the State in 1953 was 35.53 inches, about 7 inches less than the average for 1952 and nearly 8 inches less than normal. During the first half of the year precipitation was only 0.3 inch below normal. During July most sections became progressively drier with a tendency toward drought developing in the middle of August. The accumulated deficiency of rainfall from July through October was 5.81 inches, 60 percent of normal precipitation. October's average of 0.84 inch was only 0.44 inch above the recorded low in 1924. The southern parts of the State were hit the hardest as the creeks, springs, and wells began to fail, owing to the increasing dryness in October. The drought was broken by 1.23 inches of rainfall during November, but small streams, wells, and springs were still dry at the end of the month because most of the infiltration went to replenish soil moisture. Precipitation for December averaged 2.68 inches, which was 82 percent of normal. This greatly helped the recovery of wells and springs.

Pumpage

There are only a few relatively heavily pumped areas in the State. In the Charleston business district the normal daily pumpage of 500 thousand gallons throughout the year was increased to 1 million gallons during the air-conditioning season from late spring to early fall. Figure 46 is a graph of the water level during 1953 in well 40-5-14 in the center of the area, showing the seasonal decline of the water level during the hot season, and the recovery of the water level in the late fall after the air-conditioning season was over. Largest withdrawals of ground water are along the Ohio River where total daily pumpage for municipal, industrial, and domestic use is estimated at more than 60 million gallons. Near Follansbee, in Brooke County, 10 million gallons a day were pumped by two companies; in Marshall County about 3 million gallons for use by seven companies; and in the Parkersburg area, Wood County, daily pumpage was estimated at 10 million gallons of which the city pumped an average of 4,811,000 gallons a day. Slightly less than 3 million gallons a day were pumped in the Huntington area in Cabell and Wayne Counties. 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 respond 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 47 shows a graph of the fluctuations of the water level in well 27-3-22 at the Parkersburg city well field in 1953 and, for comparison, includes changes in river level nearby and weekly pumpage from the well field. The pumping units are between the observation well and the river.

Interpretation of Water-Level Fluctuations

Wells 11-3-8, Masontown, 11-3-14, Reedsville, and 40-3-1, 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, Morgantown, is in an usually unpumped area, but a nearby emergency well in the same formation was pumped continuously during the fall months. Well 42-4-1, 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. During the first half of 1953 water levels in these wells were as high as or higher than they were during the same period of 1952. Water levels in wells 11-3-8, Masontown, and 11-3-14, Reedsville, were 4 and 2 feet lower at the year's end than at the end of 1952. Well 9-6-45, Morgantown, had made a partial recovery by December from the drawdown caused by nearby pumping. The water level in well 9-6-27, Morgantown, has been rising almost continuously since 1945 in

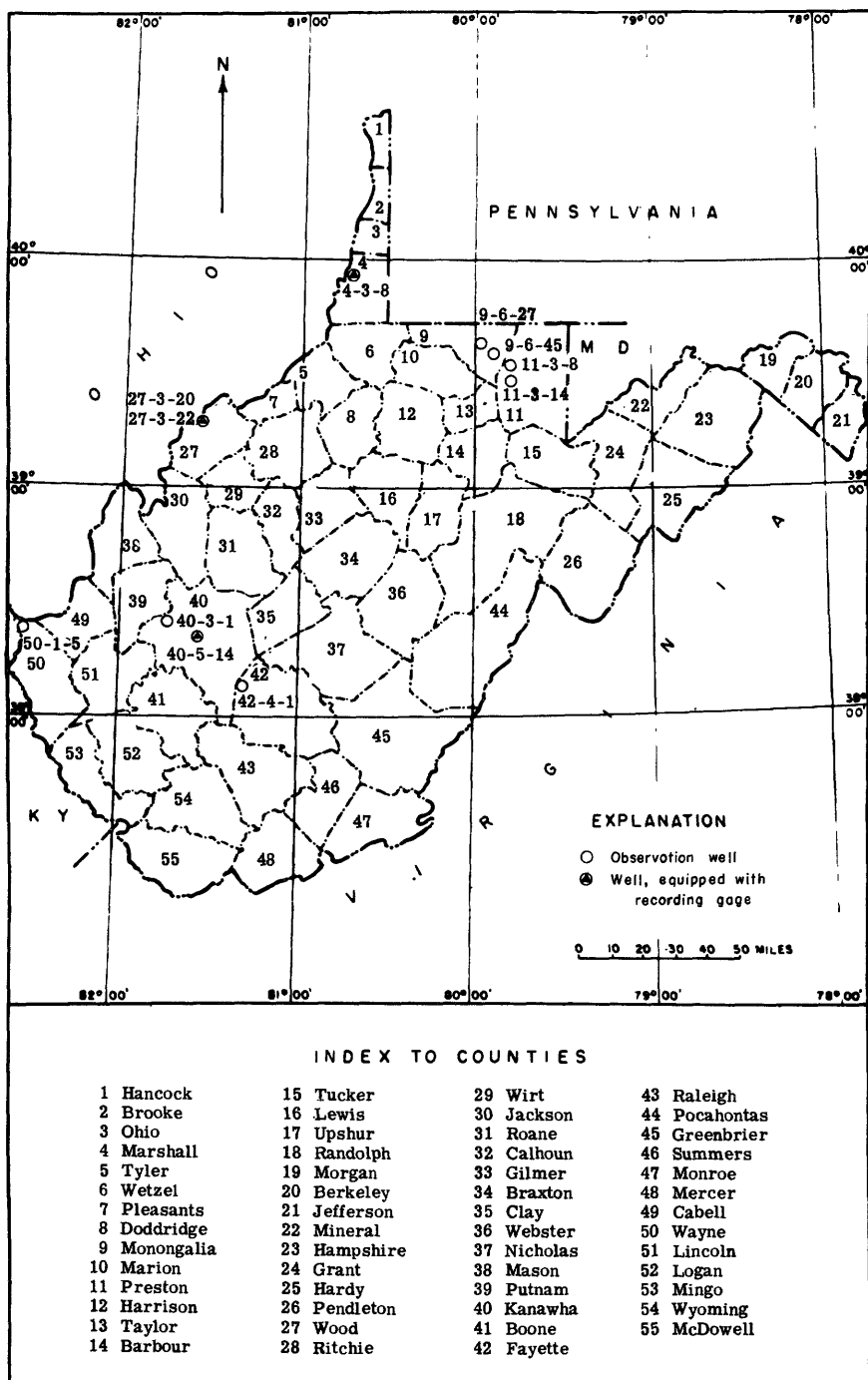


Figure 45. --Location of observation wells in West Virginia, 1953.

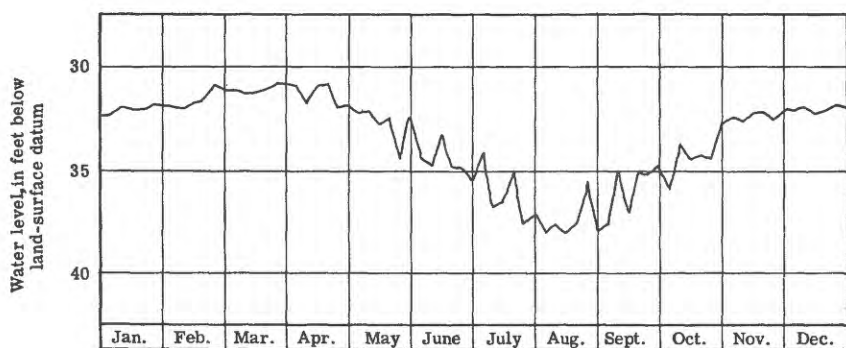


Figure 46. --Water level in well 4-5-14, Charleston, W. Va., 1953.

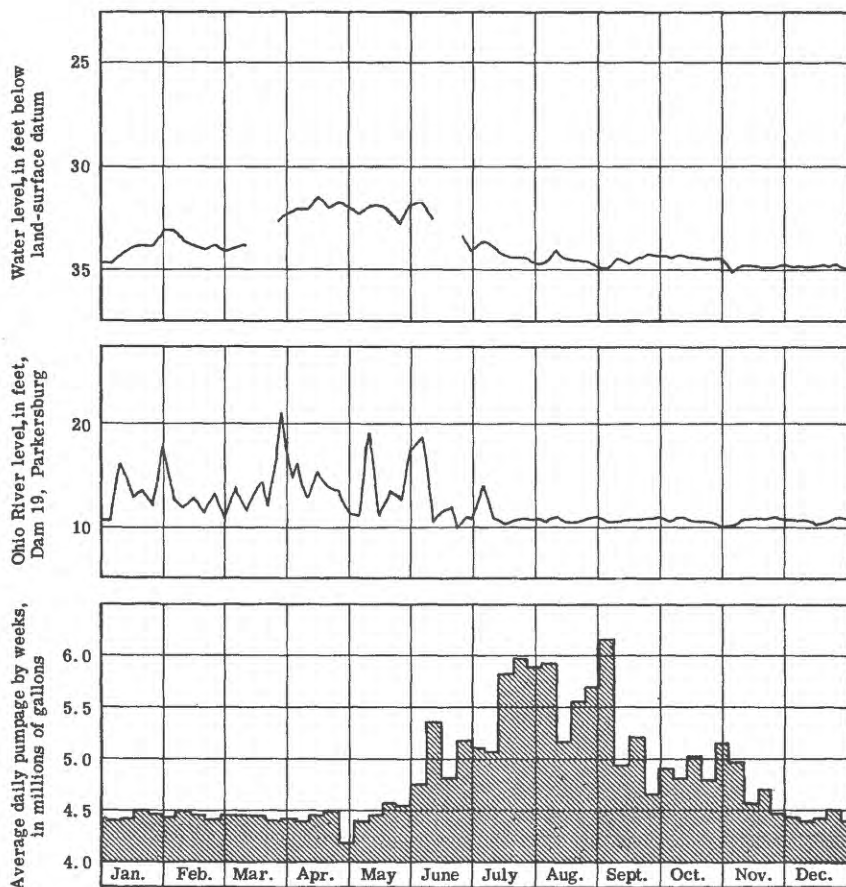
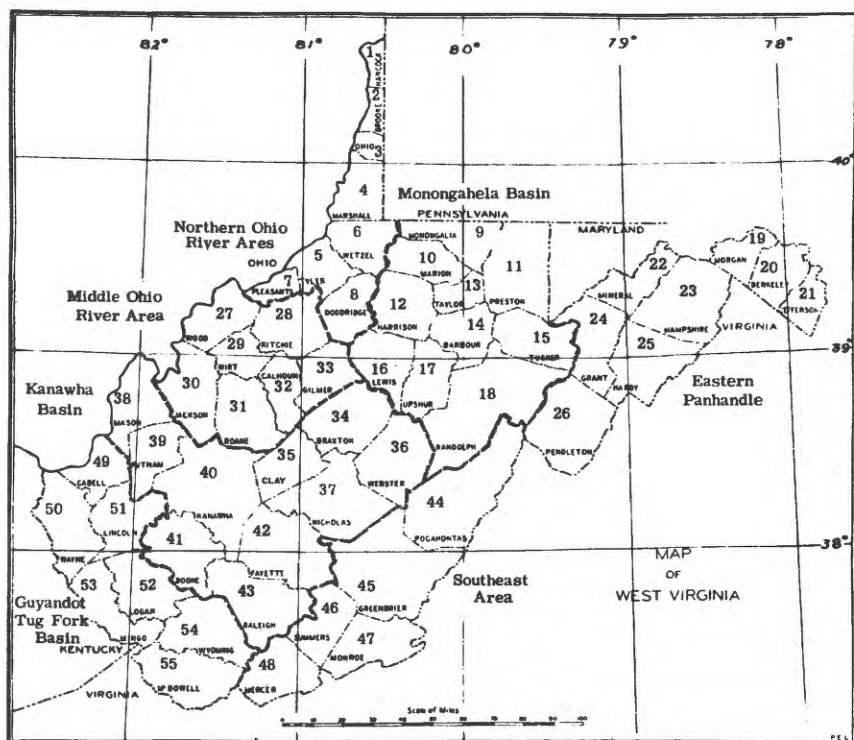


Figure 47. --Water level in well 27-3-22, municipal average daily pumpage, and Ohio River stage, Parkersburg, W. Va.

response to a decrease in nearby pumping. A new high of record was reached in 1953, almost a foot above the previous high of 1952. The water level at the end of the year was 2 feet above the level of the end of 1952 and about half a foot above the level at the end of 1951. The water level in well 4-3-8, Glendale, fluctuates in response primarily to pumping of nearby wells and secondarily to changes in the level of the nearby Ohio River.

Well-Numbering System

Observation wells in West Virginia are assigned a three-part number 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).



Sketch showing counties and corresponding numbers.

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: 1942-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	24.46	Mar. 2	22.48	Apr. 27	22.97	June 22	25.60
12	22.57	9	25.37	May 4	25.30	29	25.14
19	23.65	16	25.14	11	24.15	July 14	28.00
26	22.54	23	24.10	18	24.16	20	26.03
Feb. 2	23.00	30	22.41	26	24.50	27	24.96
9	25.00	Apr. 6	22.75	June 1	24.15	Aug. 3	26.80
16	23.05	13	24.61	8	24.10	10	26.56
23	21.76	20	22.40	15	24.99	Nov. 19	26.40

Kanawha County

40-3-1. L. T. Smith. 40th St., Nitro. Lat. 38°25'40", long. 81°49'06". Dug unused water-table well in alluvium of Pleistocene age, diameter 24 inches, depth 17 feet, lined 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: 1942-53. Measurement discontinued.

Jan. 6	1.88	Feb. 19	3.88	Mar. 30	4.59	May 28	7.52
12	2.37	23	2.77	Apr. 4	6.11	June 8	8.60
24	2.36	28	7.68	15	4.29	23	8.09
31	2.78	Mar. 6	2.25	30	6.52	30	8.81
Feb. 11	1.29	13	5.79	May 5	7.20	July 14	6.98

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. 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: 1941-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.45	31.77	31.29	31.01	32.06	33.53	35.19	37.49	38.14	34.92	32.55	32.23
2	32.36	31.79	31.47	31.14	32.50	32.95	35.57	35.42	37.66	35.98	32.60	32.23
3	32.26	31.91	31.46	31.12	32.49	33.11	35.50	37.99	38.13	36.40	32.62	32.14
4	32.27	31.98	31.46	31.09	32.30	34.31	34.17	37.90	38.24	34.93	32.65	32.68
5	32.41	31.97	31.43	31.05	32.32	34.72	33.93	37.17	36.61	34.87	32.66	32.41
6	32.41	32.10	31.24	30.95	32.99	34.42	36.82	37.76	35.34	34.59	32.63	32.06
7	32.35	31.95	31.20	31.17	32.99	33.20	36.77	37.94	34.98	33.78	32.55	32.22
8	32.25	32.11	31.06	31.15	32.02	34.73	36.12	37.68	35.77	33.67	32.38	32.22
9	32.08	32.03	31.27	31.12	32.59	34.80	36.79	35.57	35.59	35.19	32.47	32.13
10	31.90	31.91	31.28	31.90	32.23	34.80	35.67	37.80	35.53	35.24	32.47	32.29
11	31.85	31.86	31.29	31.94	32.47	34.69	35.98	36.87	36.01	34.09	32.36	32.28
12	32.08	31.78	31.29	31.15	32.68	34.46	35.35	37.18	37.17	34.50	32.41	32.18
13	32.17	31.74	31.28	31.13	32.97	34.49	36.78	38.06	35.44	34.42	32.41	31.98
14	32.17	31.79	31.28	31.15	32.83	33.38	36.57	38.07	34.79	34.32	32.39	32.05
15	32.15	31.49	.....	31.07	33.82	34.80	36.38	36.91	34.96	34.37	32.24	32.16
16	32.25	31.54	.....	31.01	33.82	34.76	37.03	35.86	35.09	34.44	32.28	32.23
17	32.22	31.77	.....	30.99	32.88	34.73	37.19	38.10	35.18	34.34	32.30	32.23
18	32.03	31.76	.....	30.93	32.82	33.75	37.03	37.58	35.15	34.27	32.31	32.17
19	31.90	31.68	31.26	30.89	32.58	34.81	35.03	36.24	36.75	34.82	32.31	32.05
20	32.07	31.64	31.24	30.91	32.57	34.77	37.40	37.03	35.18	34.56	32.26	31.92
21	32.18	31.55	31.23	30.95	33.61	33.47	37.29	37.42	35.32	34.46	32.58	31.93
22	32.16	31.38	31.12	31.22	33.70	35.15	36.86	37.40	35.27	34.55	32.29	32.10
23	31.98	30.91	31.20	31.93	33.01	35.00	37.50	35.50	34.83	34.11	32.19	32.16
24	31.79	30.91	31.20	31.82	32.68	34.97	37.60	37.85	35.09	33.38	32.18	32.16
25	31.85	30.92	31.00	32.06	34.42	35.10	37.43	37.84	35.23	32.90	32.20	31.97
26	31.85	30.94	30.82	31.81	34.45	35.19	35.39	37.84	36.06	32.80	32.20	31.83
27	31.84	31.10	30.74	31.13	33.42	34.92	37.78	37.92	34.82	32.80	32.17	31.85
28	31.97	31.24	30.74	31.63	33.08	34.81	37.71	38.07	35.11	32.73	32.25	31.89
29	31.96	.....	30.74	31.82	33.75	35.53	37.21	37.64	35.08	32.79	32.23	31.93
30	31.90	.....	30.83	31.93	32.54	35.41	37.75	35.69	35.94	32.74	32.17	32.01
31	31.88	.....	30.89	.....	32.60	.....	37.89	38.20	.....	32.74	.....	32.03

Marshall County

4-3-8. Triangle Conduit & Cable Co. U. S. Highway 250, Glendale. Lat. 39°56'06", long. 80°45'20". Drilled unused water-table well in gravel, diameter 10 inches, depth 100 feet. Land-surface datum is about 650 feet above msl. Highest water level 54.27 below lsd, Jan. 30, 1952; lowest 72.96 below lsd, Dec. 22-24, 1953. Records available: 1950-53.

Daily lowest water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.51	59.92	58.21	58.02	.....	61.81	.....	65.25	67.23	68.69	69.84	69.01
2	61.91	59.94	58.35	58.06	.....	61.50	.....	65.39	66.41	68.89	69.96	68.31
3	62.11	59.70	58.31	58.00	.....	61.17	.....	65.55	.....	69.04	69.93	68.65
4	62.20	58.77	57.77	57.88	.....	61.99	.....	65.50	.....	69.13	69.22	69.06
5	62.14	59.00	58.01	57.80	.....	62.20	.....	64.76	.....	69.12	69.66	69.16
6	61.61	59.06	57.97	57.76	.....	62.34	.....	65.42	.....	69.09	69.83	69.23
7	60.79	59.26	58.00	57.41	.....	62.76	.....	65.71	.....	68.57	69.98	69.27
8	60.60	59.36	57.97	57.41	.....	62.98	.....	65.93	.....	69.06	70.01	69.22
9	60.60	59.49	57.65	57.68	.....	62.98	.....	66.05	.....	69.25	70.04	68.22
10	60.62	59.49	57.62	57.93	.....	62.88	63.21	66.17	.....	69.39	70.02	68.63
11	60.80	59.12	57.09	58.04	.....	63.06	63.29	66.17	.....	69.50	69.30	68.61
12	60.90	59.57	57.25	58.15	.....	63.15	62.76	65.48	67.48	69.53	69.83	68.02
13	60.89	59.73	57.40	58.22	.....	63.27	62.63	66.07	67.65	69.39	69.96	68.61
14	60.25	59.75	57.56	57.86	.....	63.29	62.55	66.28	67.83	68.81	70.08	68.53
15	60.64	59.69	57.75	57.49	.....	63.24	62.90	66.46	67.83	69.32	70.17	68.44
16	60.64	59.54	57.89	57.62	.....	62.93	63.87	66.57	66.94	69.51	70.26	68.02
17	60.45	59.06	57.68	.....	.....	62.48	63.97	66.70	67.79	69.56	70.24	68.23
18	60.31	58.61	57.37	.....	.....	62.47	64.20	66.67	67.98	69.67	69.25	68.42
19	60.13	58.58	58.14	.....	.....	62.55	64.39	66.06	68.10	69.67	69.73	68.50
20	59.79	58.97	58.29	58.17	.....	62.76	64.60	66.60	68.25	69.69	69.83	68.45
21	59.42	58.71	58.41	58.31	.....	62.84	64.60	66.71	68.40	69.08	69.91	68.50
22	59.57	58.67	58.51	58.26	60.62	62.72	64.00	66.84	68.42	69.55	69.88	68.47
23	59.52	58.50	58.52	.....	60.80	62.74	64.50	66.90	67.74	69.70	69.86	68.28
24	59.53	58.26	58.38	58.23	61.25	62.51	64.66	66.87	68.30	69.80	69.80	68.17
25	59.58	57.39	57.92	58.30	61.56	63.08	64.82	66.65	68.41	69.86	68.97	68.07
26	59.62	57.66	58.40	58.44	61.54	63.31	64.92	66.24	68.57	69.93	69.20	67.87
27	59.56	57.90	58.43	58.47	60.75	63.48	65.00	66.71	68.75	69.93	69.24	67.85
28	59.20	58.03	58.65	58.54	61.50	63.57	65.00	66.96	68.88	69.18	69.20	67.76
29	59.66	.....	58.70	57.78	61.61	63.43	64.36	67.11	68.80	69.51	69.13	67.74
30	59.86	.....	58.88	.....	61.61	.....	64.68	68.16	68.16	69.70	69.09	67.71
31	59.88	.....	58.57	.....	61.70	.....	65.04	67.25	.....	69.76	.....	67.69

Daily lowest water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	67.63	.....	61.45	61.38	62.62	61.25	63.96	65.01	67.05	68.47	69.23	70.16
2	67.37	.....	61.52	61.63	62.76	61.84	64.02	65.04	67.48	68.53	69.12	70.20
3	67.19	.....	61.84	61.75	62.70	62.13	64.05	65.07	67.63	68.59	69.44	70.20
4	66.86	.....	62.06	61.84	62.54	62.37	64.06	65.12	67.79	68.20	69.55	70.13
5	66.45	.....	62.26	61.73	62.88	62.61	64.03	65.15	67.92	67.89	69.64	70.20
6	65.76	58.11	62.36	61.66	63.04	62.81	64.41	65.17	67.87	68.38	69.69	70.22
7	65.64	58.16	62.44	62.03	63.19	62.81	.....	65.63	67.31	68.57	69.75	70.22
8	65.51	58.15	62.42	62.22	63.31	62.53	.....	65.92	67.69	68.68	69.52	70.27
9	65.38	58.19	61.75	62.32	63.40	62.85	.....	65.92	67.91	68.82	69.57	70.27
10	65.40	58.11	62.24	62.39	63.38	63.06	64.97	65.92	68.03	68.90	69.73	70.25
11	65.43	58.62	62.56	62.46	63.15	63.23	65.05	66.34	68.12	68.73	69.80	70.17
12	65.43	58.85	62.59	62.42	63.46	63.34	64.81	66.63	68.17	68.20	69.80	70.20
13	65.42	59.02	62.40	62.11	63.53	63.50	64.66	66.89	67.87	68.66	69.77	70.05
14	65.51	59.26	62.18	62.40	63.41	63.51	64.94	66.96	67.57	68.84	68.78	69.93
15	65.70	59.46	61.70	62.49	63.38	63.38	65.09	67.07	67.90	68.92	69.57	69.84
16	65.81	59.46	61.10	62.46	63.37	63.62	65.17	67.05	68.11	68.98	69.88	69.72
17	65.81	59.12	61.38	62.25	63.32	63.78	65.24	66.59	68.26	69.03	70.03	69.70
18	65.72	59.72	61.49	62.05	63.07	63.93	65.30	67.02	68.36	69.00	70.13	69.76
19	65.44	60.06	61.66	61.66	63.08	64.08	65.28	67.16	68.40	68.34	70.22	69.71
20	64.90	60.27	61.73	60.98	63.72	64.22	64.67	67.32	68.19	68.85	70.21	69.67
21	64.75	60.46	61.75	61.30	63.29	64.00	65.07	67.45	67.66	69.02	70.23	69.72
22	64.43	60.59	61.63	61.55	63.27	63.73	65.15	67.52	68.03	69.07	70.18	69.76
23	64.11	60.57	60.94	61.78	63.04	63.70	65.16	67.47	68.19	69.16	69.92	69.85
24	64.01	60.08	61.06	62.00	62.75	63.69	65.28	66.95	68.30	69.24	70.05	69.87
25	63.92	60.69	61.04	62.16	62.45	63.70	65.35	67.41	68.37	69.18	70.03	69.75

4-3-8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	63.82	60.91	60.99	62.14	62.42	63.72	64.93	67.53	68.48	68.71	68.97	69.92
27	63.49	61.13	60.94	61.70	62.39	63.78	64.88	67.65	68.45	69.06	69.82	69.86
28	63.23	61.31	60.97	62.12	62.23	63.82	64.89	67.74	67.74	69.24	69.98	69.84
29	60.08	61.49	60.91	62.42	62.03	63.84	65.21	67.81	68.24	69.35	69.96	69.98
30	55.61		60.60	62.48	61.92	63.91	65.19	67.74	68.36	69.37	70.03	70.06
31	54.68		61.08		61.05		64.95	67.00		69.45		70.11

Daily lowest water level from recorder graph, 1953

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.12	67.87	67.40	65.57	65.30	64.43	66.22	67.67	69.76	70.81	71.16	72.27
2	70.19	67.77	67.70	65.55	65.25	64.35	66.31	67.72	69.88	70.85	71.15	72.32
3	70.16	67.74	67.74	65.50	64.95	64.18	66.41	67.63	69.95	70.75	71.12	72.32
4	70.19	67.67	67.91	65.36	65.26	64.04	66.04	67.87	69.97	70.79	71.08	72.41
5	70.30	67.74	67.97	65.25	65.37	64.01	66.22	67.98	69.95	70.87	71.07	72.51
6	70.32	67.84	67.90	65.20	65.46	63.62	66.35	68.06	69.88	70.93	71.21	72.56
7	70.30	67.74	67.73	65.11	65.49	63.64	66.43	68.08	69.70	70.96	71.23	72.57
8	70.33	67.65	67.45	65.11	65.41	63.91	66.48	67.98	69.72	70.97	71.16	72.59
9	70.36	67.74	67.42	65.11	65.27	64.05	.....	68.11	69.87	70.98	71.29	72.57
10	70.05	67.84	67.56	65.25	65.05	64.21	.....	68.18	.....	70.93	71.45	72.59
11	69.92	67.82	67.53	65.25	64.72	64.34	.....	68.21	.....	71.05	71.56	72.61
12	69.76	67.71	67.28	65.14	64.80	64.45	.....	68.22	.....	.....	71.67	72.63
13	69.62	67.72	67.24	65.10	64.94	64.43	.....	68.37	.....	71.05	71.82	72.68
14	69.54	67.70	67.18	65.10	65.04	64.28	.....	68.50	.....	71.09	71.86	72.69
15	69.50	67.63	67.05	65.01	65.16	64.65	.....	68.53	70.08	71.15	71.93	72.70
16	69.42	67.62	67.01	65.15	65.23	64.90	.....	68.58	70.22	71.18	71.89	72.56
17	69.31	67.66	66.90	65.23	65.21	65.10	.....	68.68	70.33	.....	71.93	72.76
18	69.25	67.76	66.80	65.15	65.15	65.17	.....	68.77	70.42	.....	71.97	72.82
19	69.32	67.80	66.71	64.77	65.17	65.28	.....	68.80	70.40	.....	72.06	72.80
20	69.18	67.87	66.66	65.08	65.15	65.28	66.95	68.87	70.29	71.20	72.12	72.79
21	69.18	67.89	66.63	65.14	65.07	65.20	67.11	69.02	70.34	72.22	72.17	72.92
22	69.02	67.90	66.42	65.12	64.96	65.42	67.25	69.03	70.41	71.25	72.29	72.96
23	68.96	67.90	66.60	65.16	64.81	65.60	67.35	69.19	70.53	71.31	72.32	72.96
24	68.93	67.80	66.75	65.24	64.67	65.71	67.43	69.23	70.57	71.22	72.31	72.96
25	68.88	67.75	66.74	64.95	64.60	65.80	67.41	69.15	70.50	71.16	72.32	72.74
26	68.87	67.70	66.62	64.38	64.67	65.89	67.45	69.29	70.45	71.25	72.10	72.63
27	68.75	67.70	66.38	65.17	64.73	65.83	67.54	69.42	70.49	71.32	72.04	72.64
28	68.57	67.64	66.15	65.33	64.70	65.78	67.65	69.44	70.52	71.33	72.02	72.70
29	68.40		65.96	65.38	64.53	65.95	67.72	69.38	70.62	71.36	72.20	72.70
30	68.32		65.82	65.29	64.52	66.14	67.77	69.48	70.71	71.39	72.25	72.86
31	68.11		65.74		64.36		67.79	69.64		71.31		72.92

Monongalia County

9-6-27. T. J. Johnson. Lat. 39°37'37", long. 79°57'26". Morgantown. 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 86.47 below lsd, Aug. 3, 1953; lowest 166.41 below lsd, Sept. 10, 1945. Records available: 1941-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	88.35	May 1	87.84	Aug. 3	86.47	Sept. 30	86.83
Feb. 26	88.75	27	87.86	31	87.25	Nov. 4	87.82
Apr. 1	88.48	July 1	86.74				

9-6-45. Deckers Creek Sand Co. Greer. Lat. 39°34'11", long. 79°50'23". Drilled unused artesian well in Pocono sandstone, diameter 8 inches, depth 105 feet, cased to 48. Land-surface datum is about 1,460 feet above msl. Highest water level 8.90 below lsd, Jan. 28, 1952; lowest 32.67 below lsd, Sept. 16, 1946. Records available: 1941-45, 1947-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	9.56	May 1	10.28	Aug. 3	11.61	Nov. 11	26.65
Feb. 26	10.16	27	10.48	31	13.22	Dec. 17	12.24
Apr. 1	10.08	July 1	11.62				

274 WATER LEVELS AND ARTESIAN PRESSURES, 1953, SOUTHEASTERN STATES

Preston County

11-3-8. G. E. Lemmons. East Depot St., Masontown. Lat. 39°33'06", 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 23.74 below lsd, Dec. 5, 1953. Records available: 1941-53.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	14.41	May 1	16.93	Aug. 3	21.42	Nov. 4	22.61
Feb. 26	15.26	27	18.27	31	22.27	Dec. 5	23.74
Apr. 1	15.07	July 1	20.96	Sept. 30	22.78		

11-3-14. Belfort Corp. 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 2.66 below lsd, Nov. 4, 1953. Records available: 1941-43, 1945-46, 1949-53.

Jan. 28	+0.06	May 1	-0.82	Aug. 3	-0.50	Nov. 4	-2.66
Feb. 26	-.11	27	-.74	31	-1.76	Dec. 5	-2.36
Apr. 1	-.20	July 1	-.28	Sept. 30	-2.11		

Wayne County

50-1-5. Ashland Oil & Refining Corp. 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 43.14 below lsd, Dec. 11, 18, 1953. Records available: 1942-46, 1948-53.

Jan. 2	41.58	Apr. 3	37.68	June 26	37.25	Oct. 9	42.50
9	40.87	10	37.60	July 3	37.98	16	42.60
16	41.31	17	37.41	10	38.25	23	42.68
23	41.10	24	37.14	17	39.02	30	42.77
30	40.18	30	37.14	24	39.64	Nov. 6	42.85
Feb. 6	40.18	May 8	37.35	31	40.31	13	42.90
13	40.16	15	37.77	Aug. 7	40.39	20	42.94
20	40.10	22	37.52	28	41.54	27	43.02
27	37.77	29	37.52	Sept. 4	41.77	Dec. 4	43.10
Mar. 6	37.52	June 5	37.50	11	41.89	11	43.14
13	37.91	12	37.31	17	42.00	18	43.14
20	37.73	19	37.56	Oct. 2	42.56	25	43.12
27	37.73						

Wood County

27-3-20. City of 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 47-57, gravel packed. 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: 1943-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.52	37.27	39.43	36.77	36.96	37.56	38.81	40.23	40.05	38.62	40.79	39.24
2	39.50	37.23	39.46	36.73	36.96	37.60	39.10	40.25	40.12	38.94	40.86	39.24
3	39.55	37.53	39.50	36.54	36.99	37.11	39.26	40.22	.....	39.13	40.88	39.21
4	39.54	37.88	39.12	36.40	37.03	36.65	39.29	40.13	.....	39.24	40.65	39.23
5	39.56	38.18	39.16	36.25	37.27	36.98	38.59	40.01	.....	39.33	39.98	39.24
6	39.60	38.54	39.04	36.17	37.47	37.38	38.42	39.93	.....	39.57	39.72	39.20
7	39.62	38.72	39.03	36.34	37.49	37.70	38.36	39.83	.....	39.75	39.57	39.72
8	39.52	38.90	38.94	36.36	37.35	37.88	38.30	39.67	.....	39.77	39.47	39.40
9	38.89	39.05	39.07	36.46	37.06	38.57	38.87	38.94	39.17	39.16	39.40	39.33
10	38.78	39.17	39.15	36.56	36.52	39.06	39.15	38.63	39.13	38.86	39.29	39.35
11	38.72	39.19	39.20	36.53	36.03	39.17	39.24	38.44	38.94	38.68	39.40	39.31
12	38.61	39.17	39.22	36.16	36.17	38.68	38.91	38.77	39.31	39.23	39.44	39.26
13	38.38	39.21	39.23	36.00	36.72	38.81	38.56	38.90	39.43	39.57	39.46	39.27
14	38.40	39.18	38.26	36.03	36.97	38.90	38.83	38.97	39.47	39.71	39.45	39.33
15	38.42	39.22	39.23	36.00	37.21	38.93	39.03	39.04	39.41	39.91	39.39	39.37
16	38.59	39.26	39.12	36.35	37.34	38.96	39.31	39.07	39.36	40.05	39.41	39.32
17	38.73	39.25	38.95	36.55	37.55	39.04	39.44	39.16	39.35	40.11	39.44	39.31
18	38.74	39.34	38.80	36.74	37.58	39.11	39.52	39.20	39.34	39.39	39.49	.....
19	38.69	39.40	38.80	36.67	37.58	39.15	39.58	39.22	39.30	39.05	39.51	.....
20	38.54	39.40	38.79	36.40	37.55	38.07	39.61	39.26	38.85	38.87	39.51	.....

27-3-20--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	38.52	39.50	38.87	36.39	37.51	38.95	39.62	39.30	38.65	38.80	39.47	39.34
22	38.72	39.45	39.01	36.30	37.61	38.82	39.62	39.32	38.56	38.73	39.48	39.41
23	38.73	39.33	39.10	36.28	38.02	38.74	39.68	39.36	38.52	38.69	39.48	39.47
24	38.69	39.24	38.75	36.32	37.98	38.87	39.72	39.42	38.47	38.68	39.47	39.59
25	38.55	39.11	38.56	36.37	37.45	39.04	39.73	39.41	38.51	38.70	39.51	39.70
26	38.50	39.09	38.26	36.57	37.26	39.26	39.06	39.36	38.56	38.68	39.55	39.74
27	38.31	39.28	37.65	36.72	37.34	39.37	39.24	39.41	38.65	38.70	39.54	39.79
28	38.22	39.35	37.18	36.78	37.32	39.42	39.58	39.49	38.69	39.33	39.35	.....
29	37.83		36.96	36.85	36.98	38.67	39.83	39.57	38.73	39.74	39.29	39.70
30	37.65		36.87	36.90	37.07	38.50	40.00	39.61	38.74	40.26	39.23	.....
31	37.35		36.89		37.40		40.09	39.90		40.63		.....

27-3-22. City of 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. Land-surface datum is about 601 feet above msl. Highest water level 22.56 below lsd, Feb. 8, 1952; lowest 37.75 below lsd, Feb. 12, 1948. Records available: 1943-44, 1946-53.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.74	32.87	34.05	32.06	32.23	32.36	33.81	34.71	34.84	34.34	34.55	34.90
2	34.66	32.82	34.02	32.06	32.30	32.26	34.02	34.75	34.86	34.46	35.39	34.90
3	34.73	32.94	34.02	31.94	32.31	31.78	34.12	34.76	34.92	34.54	35.45	34.86
4	34.72	33.08	33.94	31.83	32.31	31.60	34.14	34.75	34.97	34.55	35.34	34.94
5	34.74	33.18	33.85	31.72	32.38	31.88	33.83	34.73	34.98	34.55	35.16	34.94
6	34.76	33.42	33.74	31.63	32.41	32.24	33.71	34.73	34.98	34.55	35.05	34.96
7	34.79	33.48	33.70	31.74	32.41	32.51	33.70	34.68	34.83	34.86	34.96	35.01
8	34.70	33.62	33.60	31.81	32.15	32.63	33.67	34.61	34.74	34.87	34.93	34.92
9	34.43	33.69	33.64	31.83	31.92	33.02	33.96	34.30	34.62	34.62	34.91	34.87
10	34.12	33.78	33.76	31.97	31.59	33.16	34.12	34.16	34.58	34.47	34.85	34.96
11	34.04	33.72	33.78	31.97	31.38	.....	34.15	34.01	34.47	34.39	34.86	34.92
12	34.05	33.81	33.79	31.71	31.46	.....	34.07	34.17	34.53	34.53	34.89	34.86
13	33.83	33.82	.....	31.52	31.85	.....	33.85	34.27	34.71	34.53	34.51	34.87
14	33.83	33.76	.....	31.55	31.93	.....	33.96	34.33	34.74	34.53	34.90	34.90
15	33.85	33.80	.....	31.52	32.03	.....	34.06	34.36	34.74	34.53	34.88	34.93
16	34.00	33.85	.....	31.78	32.13	.....	34.22	34.40	34.75	34.53	34.91	34.92
17	34.00	33.87	.....	31.92	32.20	.....	34.27	34.49	34.76	34.53	34.93	34.90
18	34.12	33.87	.....	32.04	32.27	.....	34.34	34.51	34.74	34.53	34.97	34.86
19	34.00	33.92	.....	32.04	32.20	.....	34.37	34.51	34.70	34.64	34.98	34.85
20	33.85	33.90	.....	31.81	32.19	.....	34.40	34.53	34.57	34.62	34.97	34.82
21	33.79	34.09	.....	31.75	32.11	.....	34.41	34.55	34.44	34.56	34.56	34.85
22	33.80	34.03	.....	31.66	32.23	.....	34.40	34.55	34.41	34.52	34.98	34.57
23	33.77	33.89	.....	31.65	32.44	.....	34.47	34.62	34.36	34.47	34.98	34.95
24	33.84	33.78	.....	31.72	32.83	.....	34.52	34.66	34.28	34.48	34.92	34.83
25	33.83	33.63	.....	31.72	32.15	.....	34.52	34.67	34.24	34.50	34.99	34.89
26	33.74	33.63	32.66	31.92	31.95	.....	34.22	34.64	34.26	34.48	35.04	34.97
27	33.54	33.90	32.45	32.04	32.11	.....	34.21	34.65	34.33	34.43	34.99	35.00
28	33.55	33.98	.....	32.05	32.11	.....	34.44	34.70	34.34	34.55	34.96	35.00
29	33.29		32.06	32.11	31.85	33.37	34.53	34.76	34.36	34.55	34.90	.....
30	33.07		32.06	32.12	31.85	33.40	34.61	34.76	34.37	34.55	34.87	.....
31	32.87		32.06		32.13		34.64	34.82		34.55		.....