

Water Levels and Artesian Pressures in Observation Wells in the United States in 1952

Part 2. Southeastern States

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

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



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PREFACE

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WATER LEVELS AND ARTESIAN PRESSURES
IN OBSERVATION WELLS IN THE UNITED STATES
IN 1952

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 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 1952.

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

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 depending upon the conditions at those particular times.

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

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

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States.

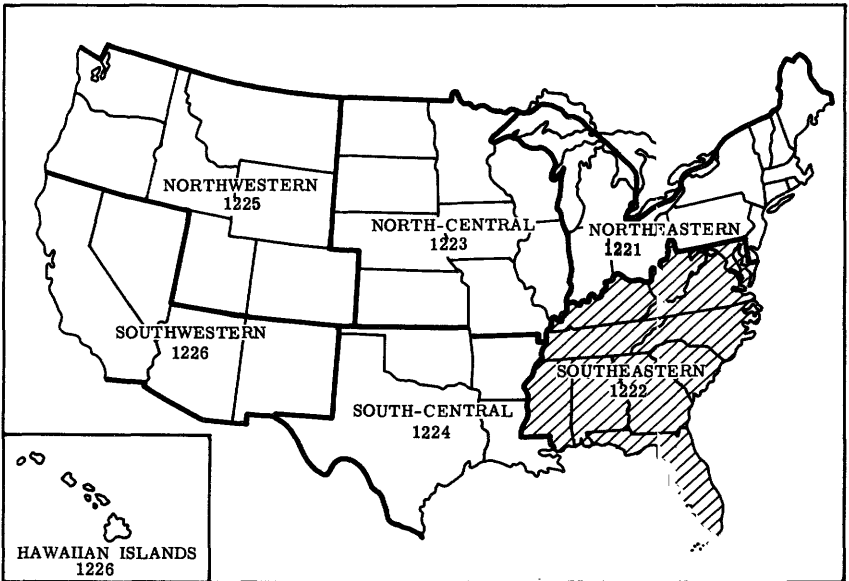


Figure 1. --Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1952. The shaded area indicates the States included in this volume.

Penn Livingston had general charge of the nation-wide observation-well program; Verda M. Dougherty edited the reports; and Rodney Hart and Marie H. Adler edited the illustrations. This volume was typed by Charlotte Parker.

ALABAMA

By George W. Swindel, Jr.

Scope of Water-Level Program

The observation-well program in Alabama, begun in 1940, was continued in 1952 in cooperation with the Geological Survey of Alabama; the Waterworks Board, city of Montgomery; and the city of Huntsville. Water-level measurements were made in 18 wells, 11 of which are equipped with recording gages. The locations of the observation wells are shown in figure 2. During the year detailed ground-water investigations were continued in Madison, Montgomery, Tuscaloosa, and Wilcox Counties. Field work for the detailed investigation in Monroe County begun in 1951 was completed. The field work for the reconnaissance investigation begun in 1951 in the Piedmont area as the first phase of a series of ground-water studies in East Alabama was completed. A detailed study of the water supply in the Birmingham area was carried out. A report entitled "Water supply of the Birmingham area, Alabama," by W. H. Robinson, J. B. Ivey, and G. A. Billingsley, was published as Geological Survey Circular 254. In addition, basic ground-water data were furnished 48 municipalities, 48 industries, 98 individuals, 9 Federal agencies, and 21 State agencies during 1952.

Precipitation

Precipitation, mostly rainfall, is reflected in the fluctuation of water levels in water-table wells within a few days or in some cases a few hours. Owing to the influence of the Gulf of Mexico, intermittent heavy rains fall during July, August, and September. These rains are sometimes torrential and contribute some recharge to the ground-water reservoir, although a large percentage of the water runs off in surface streams. The greatest amounts of rainfall occur in the late winter and early spring months. The year 1952 was marked by severe droughts during June, July, October, and November, and rainfall generally ranged from subnormal to normal. Above-normal temperatures during June, July, and August ranged upward to 110° at the S. Bernard weather station near Cullman in Cullman County on July 30.

Pumpage

At Foley, Baldwin County, observation well Bal-1 was correlated with pumpage from the wells of the Riviera Utilities Company during 1952 (fig. 3). Normal municipal use at Foley averaged 5.5 million gallons per month. Maximum pumpage is usually during the potato washing season in May and June, but during May the pumpage was only 9.6 million gallons as compared with 14.4 million gallons in June 1951. Pumpage records by the Selma Waterworks during 1952 show an average pumpage of 2 million gallons per day during the winter and a maximum of 3.5 million per day during the summer months. The water level in the observation well in the Selma well field has been declining for the past 4 years (fig. 4). In the Montgomery area total pumpage is recorded for each pumping station but no records are kept for individual wells. An average of 5 to 10 mgd was pumped through the Day Street station during 1952. The Court Street station pumped an average of 5 mgd. Declining water levels in the Montgomery 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 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 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 suffer water shortages during periods of prolonged drought. 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

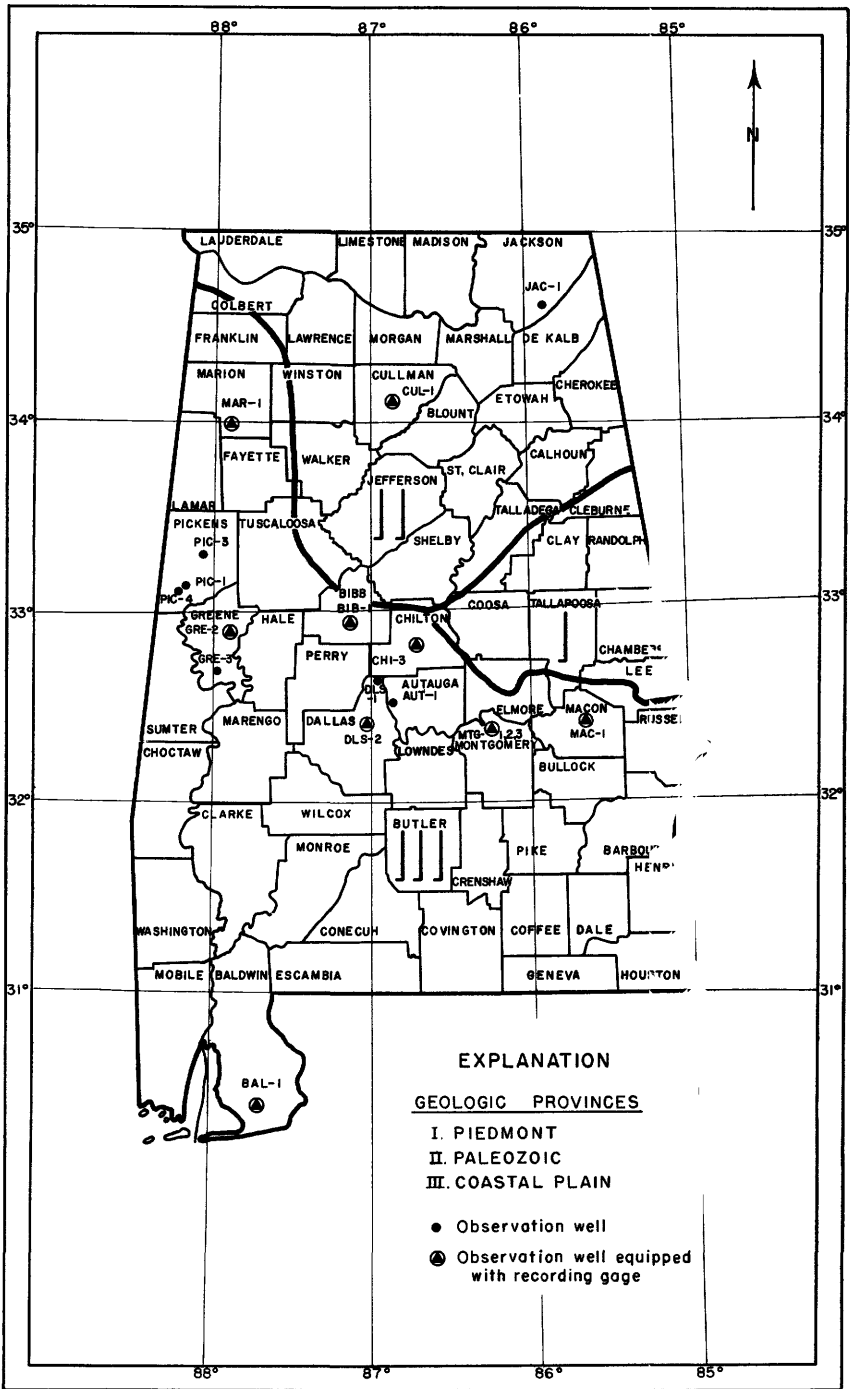


Figure 2. --Geologic provinces and location of observation wells in Alabama, 1952.

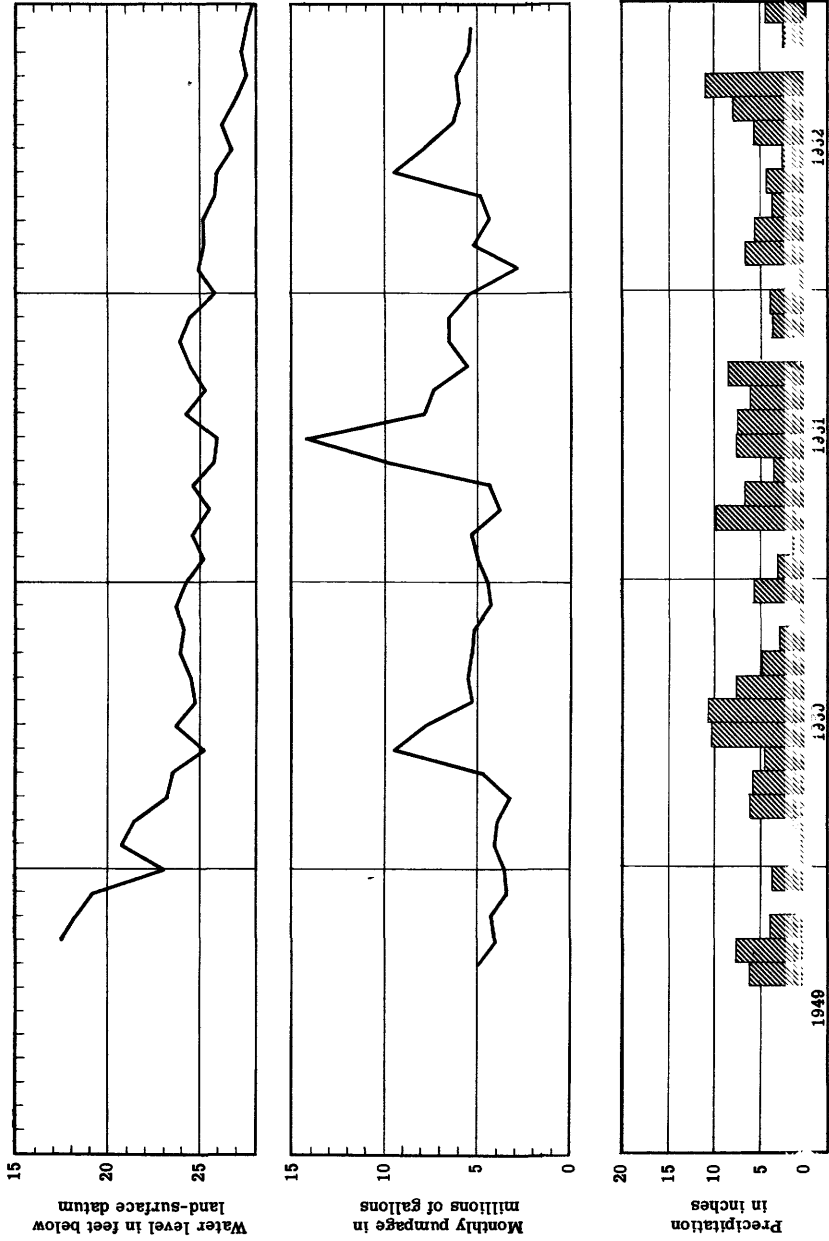


Figure 3.--Water level in well Bal-1, monthly pumpage at Foley, and precipitation at Robertsdale, Ala., 1949-52.

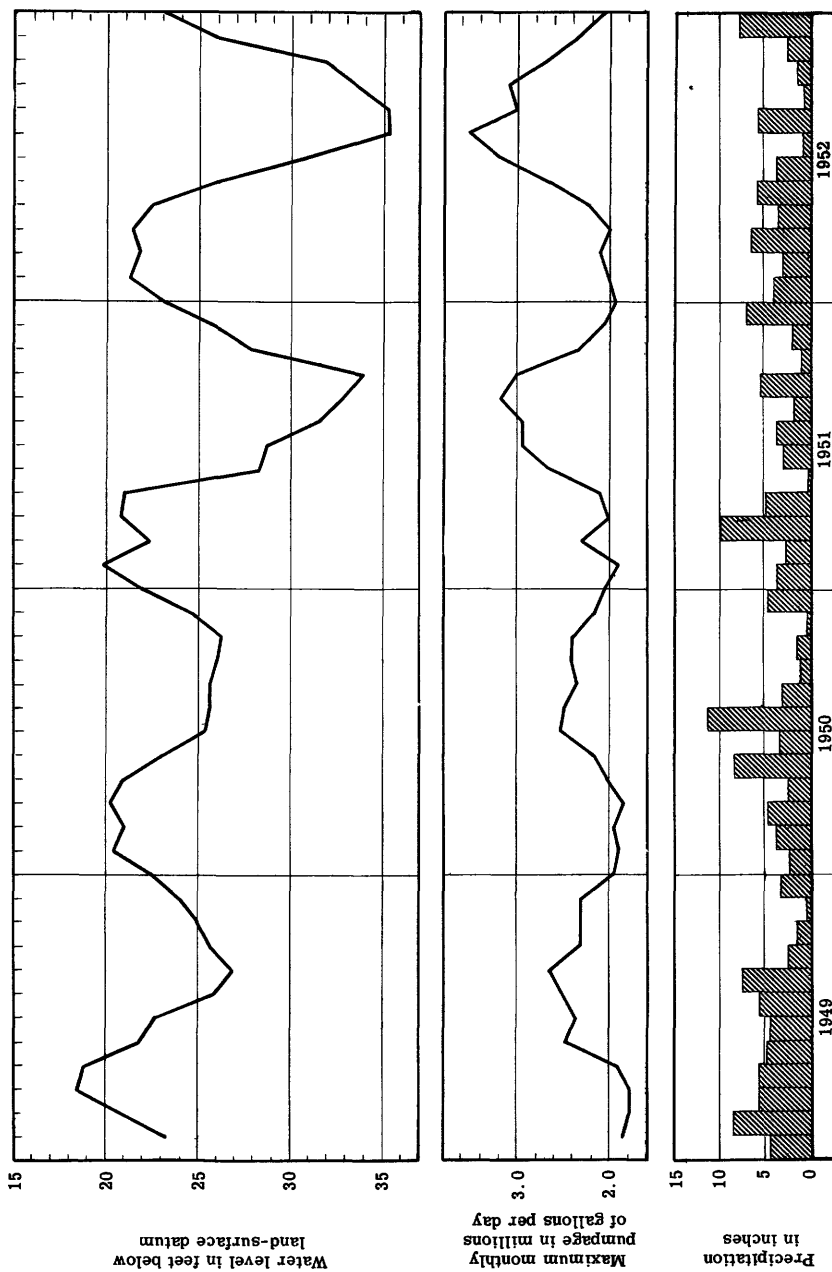


Figure 4. -- Water level in well Dis-2, daily pumpage during each month, and precipitation at Selma, Ala., 1949-52.

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 (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. At Sylacauga, Talladega County, two industrial wells developed in the Sylacauga marble have reported yields of over 200 gpm.

In northern Alabama the sandstone, limestone, chert, and dolomite formations of Paleozoic age are important sources of ground water. Ground water occurring in these rocks along bedding planes, joints, fractures, and in solution channels, furnishes 60 percent of the municipal and industrial water supplies, and all private water supplies. In water-table well Cul-1 at Cullman, an index well on the Tennessee River-Warrrior River drainage divide, the water level reflects rainfall with pumpage during the cotton-oil season in the fall. The water level rose to the high for the year March 24 and then declined, fluctuating slightly, until it reached the low for the year August 6, after which it rose gradually. Total rainfall in the area was 6.62 inches below normal. Well Jac-1, at Scottsboro, reflects rainfall within a few hours. The highest water level for the year occurred January 9 and declined to the low for the year on August 15. This well was established as an index well by the TVA in the Scottsboro area of the Tennessee River drainage basin. In artesian well Mar-1 at Guin, fluctuations of the water level are mainly due to barometric influences and rainfall. On November 4, 1952 fluctuations were correlated with the Kamchatka earthquake. The highest water level was recorded on March 18 and the lowest on October 5. Barometric fluctuations, with an average amplitude of 0.08 foot, make a complete cycle every 24 hours.

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 and 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. In water-table wells Aut-1 at Jores and Dls-1 at Plantersville, water-level fluctuations can be correlated closely with rainfall. The highs occurred in January and March and the lows in November. These wells were established in cooperation with the Surface Water Branch, U. S. Geological Survey, as index wells in the Mulberry River drainage basin. Artesian well Bal-1, at Foley, is an index well in the Riviera Utilities Company well field. The water level fluctuates mainly with pumping in the well field and could not be closely correlated with rainfall. The level rose to the high in January and then declined, fluctuating slightly, to the low in December. Heavy pumping during May and June, the potato washing season in Baldwin County (fig. 3), usually causes low water levels, but in 1952 the pumpage was 4.8 million gallons less in May than in June of 1951. The hydrograph (fig. 3) shows a gradual declining water level since the beginning of the record in September 1949. Water levels in semiartesian well Bib-1, at Centerville, can be correlated closely with rainfall and to some extent with barometric fluctuations. The highest water level was recorded in March and the lowest in November. This well is an index well near the contact between the Coastal Plain and the Piedmont province. Rainfall and barometric influences are reflected in the water level in well Chi-3 within 24 hours after precipitation. High water levels occur in early spring and the lows in late fall. Chi-3 is an index well in sands and gravels of the Coastal Plain near their contact with igneous and metamorphic rocks of the Piedmont. Artesian well Dls-2 is an index well in the city of Selma well field. Water level in Dls-2 reflects the heavy pumping in the area. A hydrograph (fig. 4) shows the gradual declining water level in the area, and the relationship between water level, pumpage, and precipitation. Owing to changes in the rate of pumping, the high water levels occur in the winter and spring, decline to the lowest levels during July and August, and then begin to rise again in the fall. Artesian flowing well Gre-2 at Boligee showed little fluctuation during the year. The high level occurred in April and the lowest level was in July. This well is in the Tombigbee River artesian basin, an area of many flowing wells. Artesian well Gre-3 at Eutaw is an index well in the city of Eutaw well field. During the period of measurement the water level fluctuated from a low in November to a high in December with no major effect noted from the pumping of the city wells.

Well-Numbering System

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

Well Descriptions and Water-Level Measurements

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

Autauga County

Aut-1. J. F. Apperson. 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.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	2.26	Apr. 28	3.94	July 28	6.83	Nov. 25	8.43
Feb. 27	3.46	May 27	3.83	Sept. 25	7.66	Dec. 29	7.31
Mar. 26	2.68	June 26	5.41	Oct. 27	8.11		

Baldwin County

Bal-1. City of Foley. In water works 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 27.8 below lsd, Dec. 26, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.5	25.0	25.2	24.9	25.7	25.3	25.9	26.2	26.5	....	26.8	....
2	24.5	24.9	25.1	25.0	25.7	26.2	26.0	26.2	26.4	....	26.8	....
3	24.6	24.9	25.0	25.0	25.0	26.2	26.0	26.2	25.5	....	27.0	....
4	24.6	25.1	....	24.9	24.9	26.3	26.0	26.2	26.4	....	26.9	27.0
5	24.6	25.2	25.1	25.0	25.5	26.3	26.0	26.2	26.5	....	26.9	27.0
6	24.6	25.1	25.1	24.9	25.8	26.2	26.0	26.3	26.5	27.1	27.5	27.0
7	24.6	25.3	25.0	24.9	25.8	26.2	26.1	26.2	26.5	26.7	26.9	27.0
8	....	25.2	25.0	24.8	25.9	26.3	26.1	26.8	26.5	26.7	27.4	27.0
9	....	25.1	24.9	24.8	25.9	26.5	26.1	26.3	26.7	27.1	26.9	....
10	....	24.1	24.9	24.8	26.0	26.5	26.1	26.2	26.7	26.8	27.4	27.1
11	....	25.2	25.0	24.8	25.2	26.6	26.1	26.2	26.7	27.0	....	27.1
12	....	25.1	25.0	24.7	25.9	26.6	26.1	25.4	26.9	26.7	26.9	27.1
13	....	25.2	25.0	24.7	26.0	26.6	26.2	25.4	26.7	27.3	27.3	27.1
14	....	25.1	25.0	24.8	26.0	26.7	26.1	25.4	26.7	26.7	26.9	27.1
15	....	25.1	25.0	24.8	26.1	26.6	....	25.4	26.7	26.7	26.9	27.1
16	....	25.2	24.9	25.3	25.4	25.6	....	25.5	27.0	27.0	27.4	....
17	....	25.1	24.9	24.8	25.5	....	....	25.4	27.0	27.3	26.9	....
18	....	25.1	....	25.2	25.3	....	....	26.4	27.5	27.3	26.9	....
19	....	25.2	....	24.7	25.2	....	26.0	26.4	27.0	26.8	26.9	....
20	....	25.2	24.9	24.8	25.1	....	25.9	26.4	27.0	27.1	....	....
21	....	25.2	24.9	25.3	25.3	....	26.0	26.4	26.9	27.3	....	....
22	....	25.2	24.9	24.8	25.4	....	26.0	26.4	26.9	27.3	....	....
23	25.0	25.1	24.9	24.8	25.4	....	26.0	26.4	26.6	26.7	....	27.2
24	25.0	25.1	24.9	25.4	25.3	25.8	26.0	26.4	26.6	26.8	27.0	27.2
25	25.0	25.1	24.9	24.9	25.2	25.8	26.0	26.4	26.6	26.8	27.0	27.2
26	25.0	....	25.0	25.2	25.3	25.8	26.1	26.5	26.6	26.8	27.5	27.8
27	25.0	25.1	25.0	24.7	25.5	25.8	26.1	26.8	26.6	26.8	....	27.2
28	25.0	25.1	25.0	24.9	25.5	25.8	26.1	26.5	26.6	26.9	27.0	27.2
29	25.0	25.2	25.0	25.0	25.4	25.8	26.2	27.0	....	26.8	....	27.2
30	25.0	....	24.9	25.7	25.5	25.9	26.1	26.5	....	26.8	....	27.2
31	25.0	....	24.9	....	25.5	....	26.2	26.5	....	27.2	....	27.3

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: 1948-52.

Bib-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.66	27.4	26.4	28.3	28.3	29.6	30.7	30.7	31.0	31.2	30.8
2	26.76	27.5	26.1	28.4	28.5	29.7	30.7	30.7	31.1	31.2	30.7
3	26.94	27.5	26.2	28.5	28.7	29.7	30.7	30.7	31.1	31.3	30.5
4	27.12	26.3	26.2	28.5	28.8	29.7	30.7	30.8	31.1	31.3	30.5
5	27.30	24.8	26.3	28.6	28.9	29.8	30.5	30.8	31.1	31.3	30.3
6	27.48	25.5	26.5	28.6	29.0	29.8	30.4	30.8	31.2	31.3	30.0
7	27.65	25.9	26.6	28.7	29.1	29.9	30.1	30.8	31.1	31.4	29.8
8	27.73	26.2	26.7	28.8	29.2	29.9	29.9	30.9	31.0	31.3	29.8
9	27.85	26.4	26.8	28.8	29.2	29.8	29.9	30.9	31.0	31.2	29.8
10	27.87	26.4	27.0	28.9	29.3	29.9	30.0	30.9	31.0	31.3	29.7
11	27.03	25.8	27.0	29.0	29.3	29.9	30.1	30.9	30.9	31.3	29.7
12	28.08	24.8	27.0	29.1	29.4	30.0	30.2	30.9	30.9	31.3	29.5
13	28.12	25.4	26.6	29.1	29.5	30.0	30.2	30.9	31.0	31.3	29.7
14	28.10	25.8	26.5	29.1	29.5	30.1	30.2	30.9	31.1	31.3	29.9
15	28.05	26.2	26.7	29.2	29.6	30.1	29.9	30.8	31.1	31.3	30.0
16	27.97	26.4	26.9	29.2	29.7	30.2	29.9	30.7	31.2	31.4	30.1
17	27.99	26.5	27.0	29.2	29.6	30.2	30.0	30.7	31.1	31.3	30.2
18	28.00	26.5	27.1	29.2	29.6	30.3	30.1	30.8	31.1	31.3	30.2
19	28.04	26.5	27.2	29.1	29.6	30.3	30.0	30.8	31.3	31.1	30.2
20	28.23	26.6	27.3	28.6	29.7	30.3	30.1	30.9	31.3	30.9	30.2
21	28.26	26.6	27.5	28.6	29.7	30.4	30.2	30.8	31.2	31.0	30.2
22	28.24	26.4	27.5	28.8	29.6	30.5	30.2	30.9	31.2	31.0	30.2
23	28.23	25.6	27.5	28.8	29.5	30.5	30.3	30.9	31.2	31.0	30.2
24	28.26	25.3	27.6	28.8	29.5	30.5	30.3	30.9	31.2	31.0	30.3
25	28.24	25.6	27.7	28.6	29.5	30.6	30.4	30.9	31.2	31.0	30.3
26	28.10	25.8	27.7	28.4	29.6	30.6	30.4	30.9	31.2	31.0	30.3
27	27.60	26.1	27.8	28.4	29.7	30.6	30.4	31.0	31.2	30.8	30.3
28	27.10	26.4	27.9	28.6	29.8	30.6	30.6	31.0	31.3	30.8	30.3
29	25.69	27.10	26.6	28.1	28.5	29.7	30.7	30.6	31.0	31.3	30.8	30.3
30	26.00		26.6	28.2	28.1	29.6	30.7	30.6	31.0	31.3	30.8	30.3
31	26.44		26.7		28.2		30.7	30.6		31.2		29.8

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 5.40 below lsd, Dec. 10, 1952; lowest 7.30 below lsd, Nov. 16-17, 1952. Records available: 1952.

Daily lowest water level from recorder graph*

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	6.63	7.10	7.17	6.89	17	6.20	6.85	6.99	7.30	5.90
2	....	6.63	7.10	7.21	6.73	18	6.27	6.86	6.99	7.29	5.92
3	....	6.71	7.10	7.24	6.63	19	6.27	6.83	6.99	7.05	5.88
4	....	6.74	7.12	7.23	6.63	20	6.31	6.84	6.99	7.07	5.80
5	....	6.76	7.15	7.18	6.13	21	6.35	6.84	7.00	7.13	5.79
6	....	6.77	7.13	7.25	6.18	22	6.36	6.86	7.00	7.22	5.79
7	....	6.81	7.02	7.28	6.21	23	6.40	6.89	7.00	7.22	5.81
8	....	6.86	6.95	7.28	6.23	24	6.47	6.89	7.00	7.17	5.76
9	....	6.89	6.98	7.22	6.23	25	6.50	6.89	7.11	7.13	5.46
10	....	6.88	6.97	7.25	5.57	26	6.52	6.89	7.13	6.90	5.47
11	....	6.88	6.99	7.28	5.62	27	6.54	6.95	7.13	6.86	5.51
12	....	6.91	6.98	7.28	5.70	28	6.54	6.96	7.21	6.89	5.54
13	6.15	6.91	6.94	7.26	5.74	29	6.54	6.97	7.25	6.88	5.52
14	6.17	6.85	6.99	7.28	5.83	30	6.54	6.98	7.24	6.91	5.45
15	6.12	6.85	6.99	7.28	5.88	31	6.59		7.20		4.65
16	6.14	6.85	6.99	7.30	5.88						

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

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.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.28	19.80	19.71	24.12	26.60	23.97	.....	23.6	21.9
2	19.39	19.83	19.79	24.19	26.28	24.15	.....	23.6	21.4
3	19.42	19.84	19.83	24.07	26.05	24.60	.....	24.1	21.5
4	19.33	19.84	19.83	24.07	26.18	24.69	.....	24.1	21.4
5	19.64	19.83	19.84	24.07	26.52	24.82	.....	23.3	21.1
6	19.73	19.83	.....	24.19	26.62	24.86	.....	23.5	19.9
7	19.82	19.83	.....	24.10	.....	24.60	.....	24.0	19.9
8	19.61	19.83	.....	24.07	.....	24.95	.....	24.1	19.8
9	19.73	19.75	.....	24.07	24.80	25.06	.....	23.5	19.7
10	19.76	19.65	.....	24.07	24.54	24.85	.....	22.6	19.5
11	19.74	19.78	.....	24.44	25.03	24.49	.....	23.1	19.5
12	19.45	19.84	.....	24.44	25.25	24.49	.....	23.1	19.5
13	19.37	19.85	.....	24.19	25.25	24.50	.....	23.2	19.5
14	19.55	19.85	.....	24.07	24.98	24.48	.....	23.1	19.7
15	19.65	19.85	.....	24.43	24.13	24.43	.....	23.1	20.0
16	19.84	19.85	.....	24.74	23.70	24.42	.....	23.3	20.0
17	19.84	19.85	.....	25.16	23.99	24.42	.....	23.4	19.9
18	19.84	19.85	.....	25.08	24.04	24.42	.....	23.2	19.9
19	19.83	19.85	.....	25.08	24.08	24.42	.....	22.3	19.8
20	19.37	19.83	19.85	.....	25.07	24.12	24.42	.....	22.0	19.8
21	19.28	19.83	19.85	.....	25.09	24.20	24.42	.....	22.2	19.9
22	18.97	19.83	19.85	22.49	25.14	24.25	24.42	.....	23.0	19.7
23	18.97	19.80	19.85	.....	25.28	24.33	24.42	.....	23.1	20.0
24	18.90	19.64	19.85	.....	25.29	24.75	24.42	.....	23.1	20.0
25	18.97	19.64	19.85	22.85	25.51	.....	.....	.....	22.4	20.2
26	19.07	19.61	19.85	23.14	25.90	24.85	.....	.....	22.0	.....
27	19.24	19.68	19.85	23.30	25.96	24.69	.....	.....	22.2	.....
28	19.46	19.75	19.85	23.55	25.57	24.31	.....	.....	22.2	.....
29	19.51	19.70	19.50	23.61	25.52	24.36	.....	24.40	21.7	.....
30	19.54	19.83	19.58	23.61	26.05	24.10	.....	24.40	21.8	.....
31	19.35	.....	19.58	.....	26.52	23.80	.....	24.00	.....	19.3

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.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	19.37	Apr. 28	16.47	July 28	21.18	Nov. 25	21.53
Feb. 27	18.92	May 27	17.58	Sept. 25	20.55	Dec. 29	21.52
Mar. 26	16.14	June 26	18.42	Oct. 27	21.30		

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 observation artesian well in sand, diameter 6 inches, depth 420 feet. Land-surface datum is 125.26 feet above msl. Highest water level 13.49 below lsd, Feb. 17, 1946; lowest 35.4 below lsd, July 31, 1952. Records available: 1941, 1945-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.2	21.0	21.2	19.7	23.0	24.8	30.9	.....	29.4	31.7	25.9	20.2
2	20.4	21.0	21.5	20.0	23.6	23.6	30.6	33.2	28.8	30.0	25.6	20.8
3	20.6	20.2	20.8	21.0	23.2	24.3	31.4	33.0	29.8	31.3	25.4	20.8
4	21.8	20.8	21.0	21.1	23.3	26.4	31.6	31.8	27.8	30.5	25.0	20.8
5	21.4	20.3	20.4	21.0	23.4	26.2	30.2	30.2	30.0	31.3	25.0	21.0
6	20.2	20.3	20.6	21.1	23.8	28.2	30.6	30.0	30.2	28.8	24.6	21.2
7	21.1	20.3	20.6	19.6	23.9	28.2	29.8	29.8	30.4	29.2	24.8	21.2
8	21.3	21.2	20.4	19.9	23.5	26.7	30.1	29.3	29.4	27.7	25.0	21.7
9	21.4	21.3	20.4	20.1	22.8	27.8	30.0	29.2	30.6	27.7	24.6	23.1
10	21.6	21.2	20.1	20.4	23.2	28.3	29.6	29.2	31.6	27.2	25.0	22.0

Dls-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	21.6	21.2	20.4	20.4	25.2	28.0	30.8	29.1	31.8	26.3	24.6	21.9
12	21.6	21.2	20.5	20.4	24.0	28.6	31.0	27.8	32.2	26.3	23.2	22.0
13	21.4	21.4	20.6	20.0	24.2	28.9	....	27.1	31.4	25.8	22.8	21.8
14	21.2	21.6	20.1	21.0	24.6	29.7	33.0	27.3	29.8	25.0	23.0	21.9
15	21.0	21.6	20.1	21.2	24.6	30.2	33.4	28.3	29.8	24.8	22.9	21.0
16	21.0	21.6	20.2	21.2	26.1	30.0	33.8	27.4	28.2	24.8	22.9	21.1
17	21.0	20.4	20.1	21.2	25.2	30.4	33.9	27.4	30.2	24.9	22.9	21.4
18	21.2	21.2	20.6	21.7	24.0	30.0	34.6	29.8	28.6	25.0	23.6	21.2
19	21.2	21.4	20.8	21.7	23.2	31.0	34.6	30.4	27.2	24.6	23.6	21.5
20	21.2	21.4	20.8	21.2	23.8	31.3	35.0	31.0	27.8	24.8	23.4	21.6
21	20.8	21.4	20.8	21.4	22.8	31.2	33.2	31.8	28.4	25.0	23.0	21.5
22	21.0	21.4	20.9	21.8	22.9	28.9	34.0	30.8	29.0	25.2	22.8	21.4
23	21.0	21.6	21.0	22.1	23.0	27.5	34.4	32.4	27.8	24.8	22.8	21.8
24	21.0	20.2	20.2	22.2	23.0	29.6	34.6	32.2	27.8	24.8	22.2	22.0
25	20.8	21.7	20.2	22.0	23.1	29.8	34.8	31.6	27.8	25.0	22.0	21.7
26	21.3	21.7	20.0	22.0	23.4	30.2	....	29.2	29.8	25.2	22.0	21.0
27	20.8	21.5	19.8	22.2	23.8	30.8	....	30.0	28.3	25.4	21.9	21.3
28	20.0	21.5	20.0	21.7	24.8	31.0	34.4	30.6	....	26.0	21.4	21.2
29	20.2	21.2	20.0	22.2	24.8	30.8	34.6	29.6	29.4	25.9	21.2	20.2
30	21.0	....	19.8	22.5	23.4	30.4	35.2	31.2	30.4	26.1	20.0	21.0
31	21.0	....	19.5	....	24.7	....	35.4	29.4	....	26.0	....	20.8

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 4.58 above lsd, Nov. 30, 1950. Records available: 1940-42, 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	+6.09	Apr. 28	+6.34	July 30	+5.91	Oct. 28	+5.99
Feb. 29	6.19	May 30	6.24	Aug. 29	5.95	Nov. 26	5.98
Mar. 26	6.28	June 27	5.99	Sept. 24	5.97	Dec. 30	6.16

Gre-3. U. S. Geol. Survey. Eutaw, at sewage pumping plant on 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 36.82 below lsd, Dec. 31, 1952; lowest 37.47 below lsd, Nov. 8-12, 1952. Records available: 1952.

Daily lowest water level from recorder graph*

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.41	37.31	37.43	37.33	17	.....	37.40	37.37	37.44	.....
2	37.39	37.32	37.44	37.32	18	.....	37.38	37.39	37.44	.....
3	37.37	37.33	37.44	37.30	19	.....	37.37	37.39	37.43	.....
4	37.35	37.34	37.44	37.29	20	.....	37.36	37.40	37.41	.....
5	37.34	37.35	37.45	37.28	21	.....	37.35	37.41	37.39	.....
6	37.34	37.35	37.45	37.26	22	.....	37.34	37.41	37.38	.....
7	37.34	37.35	37.46	.....	23	.....	37.33	37.41	37.38	.....
8	37.35	37.35	37.47	.....	24	.....	37.31	37.41	37.36	.....
9	37.36	37.35	37.47	.....	25	.....	37.31	37.41	37.35	.....
10	37.37	37.35	37.47	.....	26	.....	37.31	37.41	37.34	.....
11	37.39	37.34	37.47	.....	27	.....	37.31	37.41	37.35	.....
12	37.41	37.04	37.47	.....	28	.....	37.31	37.41	37.35	.....
13	37.43	37.33	37.46	.....	29	.....	37.45	37.31	37.41	37.35
14	37.44	37.32	37.46	.....	30	.....	37.43	37.31	37.42	37.34
15	37.44	37.31	37.45	.....	31	.....	37.43	.....	37.43	36.84
16	37.42	37.35	37.45	.....						36.84

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

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, 1943-52.

Jac-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.33	Apr. 4	4.55	July 7	11.14	Oct. 1	8.22
9	2.11	11	4.64	16	10.87	9	7.12
15	2.82	18	5.22	22	11.07	15	8.40
23	2.32	25	5.83	Aug. 1	11.15	23	8.00
Feb. 1	2.52	May 1	6.13	8	10.00	Nov. 1	9.44
8	2.64	9	6.55	15	11.22	8	9.65
18	3.80	19	6.90	25	10.64	16	9.98
26	4.24	June 2	7.13	Sept. 1	8.80	24	10.04
Mar. 3	3.90	10	8.79	8	8.90	Dec. 1	9.79
11	2.87	16	9.34	15	8.74	8	9.13
19	3.09	25	10.12	24	8.60	15	8.64
27	3.87						

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: 1948-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.25	82.25	81.20	.....	80.00	79.70	80.00	80.05	78.30	78.10	78.35	78.45
2	82.30	82.15	81.20	.....	80.00	79.05	79.90	80.05	78.30	78.05	78.30	78.40
3	82.25	81.85	81.00	.....	80.05	79.40	80.00	80.05	78.35	78.15	78.25	78.45
4	82.25	81.65	81.05	.....	80.05	79.50	80.05	80.05	78.40	78.20	78.25	78.45
5	82.20	81.85	81.10	.....	80.05	79.55	80.05	80.10	78.40	78.15	78.20	78.40
6	82.35	81.90	81.15	.....	80.05	79.65	80.05	79.90	78.40	78.10	78.15	78.40
7	82.35	81.85	81.15	.....	80.00	79.70	80.10	79.90	78.40	78.10	78.25	78.45
8	82.25	81.85	81.15	80.40	80.00	79.70	80.10	79.90	78.40	78.10	78.30	78.40
9	82.15	81.80	81.10	80.40	79.95	79.75	80.05	79.90	78.50	78.10	78.25	78.35
10	82.40	81.75	81.00	80.45	79.90	79.80	80.05	78.95	78.50	78.15	78.15	78.25
11	82.45	81.70	80.70	80.45	79.85	79.80	80.10	78.90	78.45	78.20	78.15	78.30
12	82.45	81.60	80.75	80.35	80.05	79.50	80.15	78.85	78.40	78.20	78.20	78.30
13	82.40	81.45	80.65	80.25	80.15	79.70	80.20	78.80	78.40	78.20	78.25	78.30
14	82.30	81.40	80.65	80.25	80.15	79.76	80.20	78.80	78.40	78.15	78.20	78.30
15	82.20	81.35	80.75	80.25	80.10	79.70	80.20	78.75	78.35	78.10	78.20	78.45
16	82.15	81.30	80.85	80.30	80.10	79.70	80.20	78.30	78.30	78.10	78.25	78.45
17	82.10	81.45	80.50	80.35	80.05	79.75	80.20	78.50	78.25	78.10	78.25	78.50
18	82.05	81.55	80.45	80.35	80.05	79.00	80.25	78.50	78.25	78.15	78.20	78.45
19	82.05	81.55	.....	80.30	79.95	79.35	80.25	78.50	78.25	78.10	78.20	78.40
20	82.00	81.50	.....	80.30	79.90	79.50	79.70	78.40	78.20	78.20	78.10	78.35
21	82.05	81.50	.....	80.30	79.90	79.55	79.90	78.40	78.20	78.30	78.15	78.25
22	82.05	81.55	.....	80.25	79.95	79.75	80.05	78.40	78.10	78.30	.....	78.25
23	82.20	81.50	.....	80.20	79.90	79.80	80.05	78.40	78.15	78.25	.....	78.20
24	82.30	81.45	.....	80.10	79.30	79.85	80.10	78.00	78.20	78.20	78.35	78.20
25	82.30	81.45	.....	80.05	79.50	79.85	80.10	78.30	78.20	78.15	78.30	78.15
26	82.20	81.40	.....	79.55	79.55	79.85	79.35	78.50	78.15	78.20	78.30	78.20
27	82.05	81.35	.....	79.65	79.65	79.90	79.50	78.50	78.15	78.20	78.40	78.20
28	81.90	81.30	.....	79.70	79.70	79.95	79.50	78.50	78.15	78.10	78.45	78.20
29	82.05	81.20	.....	79.65	79.65	79.95	79.70	78.45	78.15	78.15	78.45	78.20
30	82.10	.....	.....	79.65	79.65	79.95	79.85	78.30	78.15	78.30	78.50	78.20
31	82.30	.....	.....	.....	79.70	.....	79.95	78.30	.....	78.35	.....	78.05

Marion County

Mar-1. M. M. Burselon. 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 10.69 below lsd, Oct. 5, 1952. Records available: 1952.

Mar-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.04	7.44	8.42	9.52	10.05	10.34	10.62	10.32	10.10
2	7.10	7.48	8.45	9.52	10.02	10.37	10.66	10.32	10.08
3	7.11	7.53	8.48	9.53	10.04	10.42	10.63	10.34	10.08
4	7.10	7.58	8.50	9.55	10.04	10.40	10.66	10.33	10.07
5	7.22	7.59	8.57	9.57	10.08	10.42	10.69	10.20	10.07
6	7.23	7.62	8.62	9.61	10.06	10.41	10.63	10.27	10.07
7	7.24	7.69	8.67	9.63	10.04	10.43	10.54	10.27	10.08
8	7.19	7.74	8.78	9.62	10.04	10.47	10.61	10.23	10.07
9	7.25	7.81	8.82	9.65	10.04	10.47	10.64	10.16	10.07
10	7.27	7.88	8.86	9.69	10.04	10.47	10.61	10.11	10.08
11	7.26	7.97	8.88	9.75	10.04	10.46	10.62	10.14	10.08
12	7.18	8.03	8.94	9.76	10.04	10.51	10.61	10.14	10.03
13	7.16	8.06	9.00	9.76	10.04	10.53	10.57	10.09	10.01
14	7.22	8.03	9.04	9.77	10.04	10.52	10.60	10.08	10.06
15	7.25	8.05	9.06	9.80	10.04	10.47	10.55	10.14	10.08
16	7.29	8.09	9.12	9.85	10.04	10.48	10.54	10.16	10.09
17	6.92	7.29	8.10	9.18	9.88	10.04	10.46	10.54	10.16	10.11
18	6.82	7.28	8.15	9.21	9.88	10.04	10.46	10.54	10.13	10.12
19	6.92	7.28	8.17	9.25	9.88	10.07	10.53	10.54	10.05	10.08
20	6.93	7.30	8.25	9.30	9.90	10.09	10.54	10.54	10.05	10.11
21	6.91	7.33	8.25	9.35	9.91	10.10	10.54	10.54	10.04	10.07
22	6.98	7.35	8.24	9.38	9.92	10.10	10.56	10.54	10.06	10.07
23	7.02	7.34	8.26	9.38	9.94	10.12	10.57	10.54	10.06	10.11
24	6.98	7.32	8.23	9.40	9.93	10.15	10.56	10.54	10.02	10.11
25	7.00	7.36	8.29	9.40	9.94	10.23	10.49	10.54	9.95	10.13
26	7.02	7.36	8.33	9.45	9.99	10.25	10.49	.....	10.03	10.14
27	7.04	7.39	8.35	9.47	9.99	10.25	10.51	.....	10.09	10.15
28	7.08	7.42	8.36	9.51	9.98	10.25	10.58	.....	10.08	.....
29	7.11	7.41	8.30	9.53	10.00	10.28	10.59	10.43	10.11	.....
30	7.11	7.45	8.34	9.55	10.03	10.28	10.55	10.39	10.13	.....
31	7.04	.....	8.36	.....	10.06	10.32	.....	10.34	.....	10.11

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 .64.50 feet above msl. Highest water level 102.9 below lsd, Mar. 14, 1951; lowest 139.3 below lsd, Sept. 1, 1951. Records available: 1940-41, 1946-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	112.6	112.3	109.5	108.7	112.9	113.7	136.5	.....	115.8	122.3	119.3	115.4
2	114.3	112.3	109.6	109.9	113.8	114.2	.....	132.3	.....	122.8	118.4	116.3
3	114.2	111.6	109.5	109.8	114.5	115.0	.....	130.2	.....	123.7	120.2	117.5
4	.....	110.0	110.9	109.0	114.5	115.6	.....	127.5	.....	123.7	121.2	117.4
5	.....	110.2	112.0	.....	112.6	116.1	.....	127.4	125.2	121.9	121.7	117.3
6	.....	110.0	110.9	.....	112.6	117.5	.....	.....	124.9	122.8	122.2	117.3
7	.....	112.8	110.4	.....	114.1	117.7	.....	.....	124.3	123.0	122.6	116.9
8	.....	112.8	110.7	.....	114.9	117.8	.....	121.7	125.7	121.8	122.9	115.4
9	.....	113.5	110.2	.....	115.5	117.7	.....	121.7	127.0	120.3	122.9	116.4
10	.....	113.5	109.6	.....	115.8	117.9	.....	120.3	127.6	119.5	121.0	117.1
11	.....	111.7	111.1	109.0	115.7	124.5	122.0	116.7	127.9	118.2	120.7	116.9
12	.....	112.2	111.1	108.8	112.1	126.5	122.2	.....	127.3	118.0	119.2	116.9
13	.....	113.4	111.5	108.5	111.9	.....	125.4	.....	121.4	117.2	118.4	117.6
14	.....	113.4	111.3	108.6	113.8	.....	133.9	123.0	120.5	116.3	117.9	116.3
15	.....	112.1	110.4	109.1	115.0	.....	.....	123.1	118.1	118.3	117.7	114.8
16	.....	111.4	109.8	109.0	116.7	.....	.....	.....	116.9	119.0	117.4	117.1
17	.....	110.1	106.2	.....	117.0	.....	.....	.....	118.2	119.4	119.1	117.6
18	.....	109.2	108.8	108.9	114.3	.....	134.1	.....	117.8	118.9	120.1	117.3
19	112.7	110.2	108.8	109.6	112.2	.....	136.6	.....	118.2	119.1	119.9	117.5
20	112.2	110.8	110.9	109.6	112.7	.....	.....	.....	119.5	120.2	118.7	117.7
21	112.2	109.2	111.5	110.6	.....	121.4	.....	.....	118.2	121.3	118.9	115.9
22	112.5	110.4	111.3	112.4	.....	120.4	.....	.....	119.2	121.9	118.0	116.6
23	112.4	110.0	110.2	113.5	114.9	119.3	.....	.....	120.3	122.4	.....	117.2
24	112.2	106.6	.....	113.4	115.0	126.5	.....	.....	121.1	122.8	.....	115.7
25	112.0	107.3	.....	111.9	113.8	127.4	133.1	.....	121.1	120.5	118.4	113.0

Mtg-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	111.6	108.3	.....	110.6	111.9	131.8	133.1	.....	121.7	121.1	118.9	110.3
27	111.1	108.3	.....	110.2	113.8	134.2	.....	.....	121.7	.....	.....	111.2
28	110.7	108.0	107.2	107.8	114.2	134.5	132.9	123.8	119.9	122.0	115.2	111.9
29	99.5	109.0	107.3	110.2	113.2	133.2	130.9	124.6	120.7	122.0	116.3	112.9
30	112.4	.....	106.4	111.9	114.5	134.9	127.8	124.1	121.6	120.7	116.0	113.2
31	112.4	.....	106.4	.....	114.4	.....	132.0	118.9	.....	120.7	.....	112.9

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, 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 100.9 below lsd, Aug. 25, 1952. Records available: 1951-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.18	72.9	72.4	68.9	68.8	78.6	90.3	99.6	96.9	98.6	91.8	79.4
2	72.22	72.6	73.3	69.3	70.1	79.4	90.3	....	93.3	99.6	91.1	79.5
3	71.68	72.5	73.2	69.9	72.2	79.8	90.3	....	93.7	100.6	90.7	80.0
4	71.14	72.2	73.5	69.9	72.4	80.2	89.9	....	94.2	100.7	90.9	80.0
5	69.52	72.4	74.5	69.9	72.5	80.6	89.8	....	95.9	98.9	90.3	80.2
6	69.14	72.3	74.4	69.1	73.7	80.8	89.0	....	96.6	98.0	89.3	80.4
7	69.80	72.6	74.2	68.0	74.7	80.8	88.8	....	96.7	98.3	88.3	80.1
8	70.50	72.9	73.1	68.7	75.6	80.8	89.0	97.8	96.2	97.9	88.6	79.4
9	.....	72.8	73.1	69.1	79.9	81.1	89.1	97.0	96.6	96.7	88.2	79.1
10	.....	72.8	71.9	69.9	76.1	81.2	88.9	95.5	97.2	94.0	86.9	78.9
11	.....	72.7	70.3	70.3	76.1	81.5	89.2	94.2	98.3	92.9	86.8	78.9
12	72.4	72.3	71.1	70.1	76.1	81.8	90.4	95.1	98.2	91.9	87.7	79.2
13	71.8	72.2	71.5	70.1	75.9	82.1	90.4	95.6	96.7	89.9	88.6	78.9
14	70.7	72.2	71.7	69.2	76.7	83.2	89.3	96.1	96.3	91.1	88.1	78.2
15	71.8	76.4	71.2	68.4	77.5	83.5	89.6	96.9	96.1	91.3	87.6	77.0
16	71.4	76.3	70.6	68.2	77.8	85.2	90.4	96.9	96.7	91.8	87.3	79.3
17	72.5	76.0	70.6	68.9	77.8	85.8	91.8	96.5	97.9	92.4	85.7	79.4
18	73.0	74.6	70.9	69.0	77.5	85.8	94.1	97.2	98.6	92.8	86.2	79.2
19	73.2	75.0	71.1	....	76.7	86.9	95.7	97.9	97.9	92.2	86.0	79.8
20	72.2	74.7	71.1	....	76.2	88.3	96.3	99.1	97.6	91.4	84.7	79.6
21	72.8	73.7	70.7	....	76.0	88.9	97.2	100.0	95.9	91.9	84.9	78.9
22	73.4	72.4	70.2	....	75.9	87.9	97.8	100.4	94.7	91.5	84.3	78.1
23	73.6	72.6	69.4	....	78.0	87.9	97.8	101.2	94.9	89.9	83.6	78.2
24	73.4	72.2	68.7	....	78.1	89.1	97.1	101.7	95.9	90.9	82.6	78.8
25	73.6	71.1	68.6	70.0	78.5	89.9	97.2	100.9	96.0	91.2	83.2	78.8
26	73.1	71.1	68.9	69.2	78.6	90.0	97.9	100.0	96.5	91.3	83.1	77.2
27	71.8	71.2	69.4	68.3	78.1	90.0	97.7	98.3	95.9	91.2	82.7	77.1
28	70.9	72.0	69.8	67.6	....	89.8	97.3	97.9	95.6	92.5	81.4	76.9
29	71.2	72.5	70.0	68.0	....	89.8	98.7	98.6	94.8	92.5	80.7	76.0
30	72.1	.....	70.0	68.1	....	78.2	90.1	99.6	98.4	97.0	92.1	80.2
31	72.7	.....	69.1	....	77.9	....	....	99.6	97.4	....	91.5	77.2

Mtg-3. U. S. Geol. Survey. Lomax School on Old Hayneville Rd. S $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 16 N., R. 17 E. Drilled artesian well in sand, 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 22.15 below lsd, Dec. 30, 1952; lowest 27.3 below lsd, Sept. 12-13, 1952. Records available: 1952.

Daily lowest water level from recorder graph*

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	26.7	26.3	25.5	.....	17	26.3	26.7	25.5	25.0	24.10
2	.....	26.9	26.5	25.5	23.67	18	26.3	26.8	25.5	24.9	24.09
3	.....	26.9	26.6	25.4	23.79	19	26.5	26.8	25.5	24.8	24.11
4	.....	26.8	26.7	25.6	23.81	20	26.7	26.5	24.5	24.8	23.99
5	.....	26.8	26.7	25.6	23.83	21	26.9	26.3	25.5	24.8	23.98
6	.....	.....	26.5	25.6	23.83	22	27.1	26.0	25.5	25.8	23.87
7	.....	.....	26.5	25.6	23.84	23	27.2	25.8	25.4	25.7	23.81
8	26.69	.....	26.5	25.5	23.82	24	27.2	25.9	25.3	25.6	23.85
9	26.64	.....	26.4	25.5	23.76	25	27.1	25.9	25.3	25.6	23.84
10	26.25	.....	26.1	25.4	23.68	26	27.0	26.1	25.3	25.7	23.65
11	25.76	.....	25.8	25.3	23.70	27	26.9	26.1	25.3	25.6	23.45
12	25.70	27.3	25.7	25.2	23.75	28	26.8	26.1	25.5	....	23.33
13	25.80	27.3	25.4	25.2	23.80	29	26.7	26.0	25.6	....	23.17
14	26.0	26.9	25.2	25.2	23.79	30	27.1	26.1	25.5	....	23.05
15	26.2	26.7	25.3	25.2	23.78	31	26.8	.....	25.5	....	23.15
16	26.3	26.6	25.4	25.1	24.03	.....	.....	.....	.....	.....	.....

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

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 semiar^tesian 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.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	2.31	Apr. 28	2.30	July 30	5.58	Oct. 28	4.50
Feb. 29	2.18	May 26	3.73	Aug. 29	6.51	Nov. 26	4.12
Mar. 26	1.96	June 27	5.06	Sept. 24	4.46	Dec. 30	3.22

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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.82	Apr. 28	4.67	July 30	6.08	Oct. 28	5.52
Feb. 29	3.85	May 25	4.50	Aug. 29	5.89	Nov. 26	4.91
Mar. 26	4.26	June 27	5.08	Sept. 24	5.28	Dec. 30	4.47

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 1.35 above lsd, Dec. 30, 1952; lowest 0.48 above lsd, Sept. 9, 1952. Records available: 1952. Sept. 9, +0.48; Sept. 24, +0.76; Oct. 28, +0.80; Nov. 26, +1.09; Dec. 30, +1.35.

FLORIDA

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

Scope of Water-Level Program

The observation-well program in Florida is part of a cooperative investigation which began in some areas of the State as early as 1930. During 1952 these investigations were conducted in cooperation with the State Geological Survey; with Dade, Hillsborough, Manatee, Pinellas, and Seminole Counties; with the Central and Southern Florida Flood Control District; and with the cities of Miami, Fort Lauderdale, Naples, Miami Beach, and Pensacola. At the close of 1952 the observation-well program included 192 wells, 108 of which were equipped with recording gages. See figures 5, 6, 7, 8, and 9. During 1952, reports on Highlands County, Indian River County, the Naples area in Collier County, and the Ruskin area of Hillsborough County were prepared.

Precipitation

The average precipitation for the State was 48.2 inches, which was 5.1 inches below normal. In most sections, precipitation was below normal for the year. Rainfall distribution with reference to the normal for the year is summarized in the following table.

Rainfall in Florida, 1952

Station and location	Total precipitation (inches)	Departure from normal
Everglades, Collier County	58.8	+7.3
Fort Lauderdale, Broward County	45.6	-9.6
Fort Myers, Lee County	54.4	+2.0
Homestead, Dade County	58.2	-4.4
Miami, Dade County	40.4	-7.4
West Palm Beach, Palm Beach County	50.9	-2.7
Loxahatchee, Palm Beach County	60.5	....
Clearwater, Pinellas County	47.2	-6.1
Orlando, Orange County	41.4	- .9
Palatka, Putnam County	39.9	-1.9
Jacksonville, Duval County	51.8	+2.1
Tallahassee, Leon County	45.7	-9.5

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 of Eocene, Oligocene, and Miocene ages. This aquifer is referred to as the Floridan aquifer. 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 is under sufficient pressure to rise above the land surface over one-half the State, including a band about 20 miles wide along the east coast, all the area south of Lake Okeechobee, the Kissimmee River valley, and other areas. In southern Florida, shallow aquifers supply most of the water used. At some places along the east coast south of Duval County, where the artesian water is too highly mineralized for general use, shallow aquifers also supply most of the water used. Escambia County, in western Florida, also uses the shallow aquifers principally. These aquifers are composed of limestone, sand, shell marl, and coquina, and range in age from Miocene to Pleistocene. Among them is the Biscayne aquifer in southeastern Florida, one of the most highly permeable aquifers in the world. Generally, however, the shallow aquifers are less permeable and less productive than the Floridan aquifer.

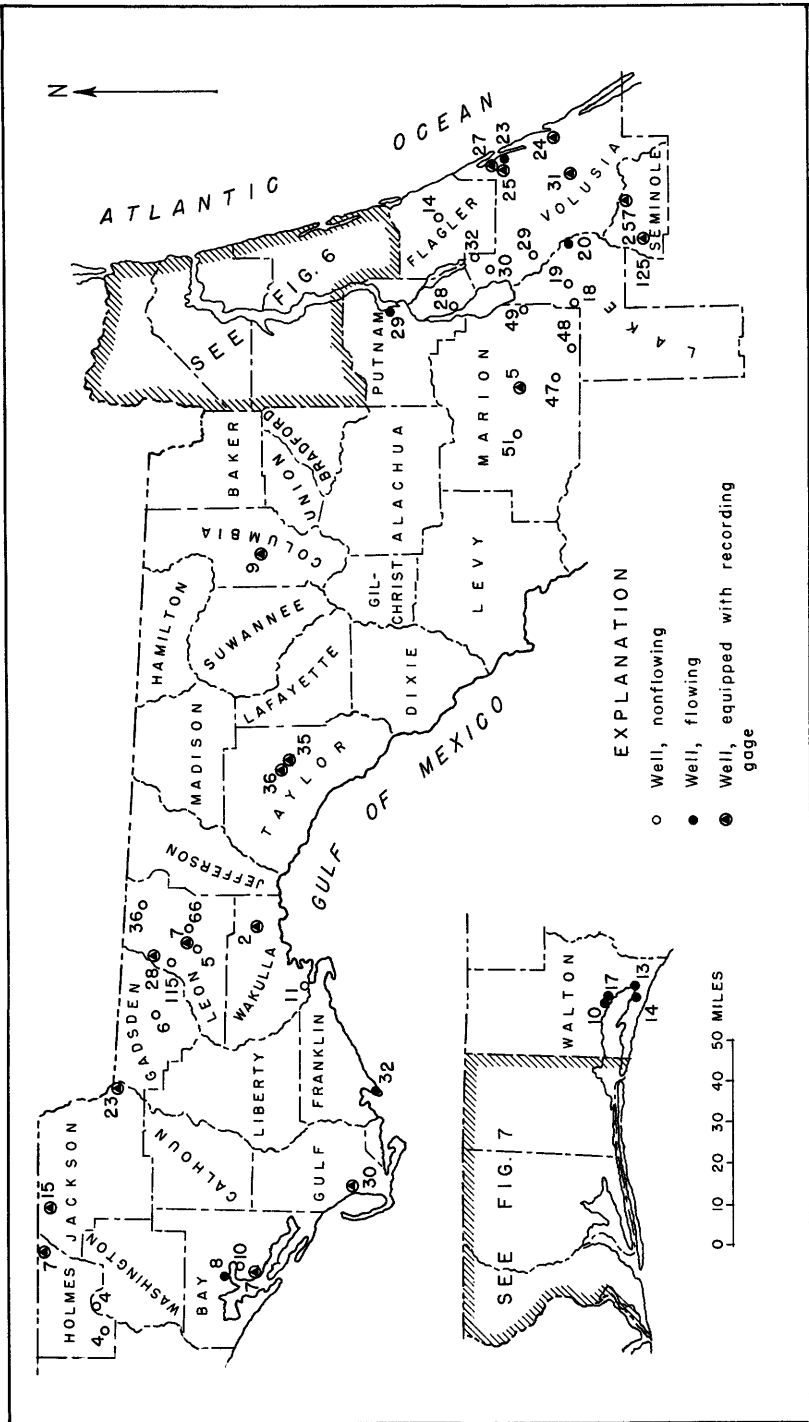


Figure 5. ---Location of observation wells in northern Florida, 1952.

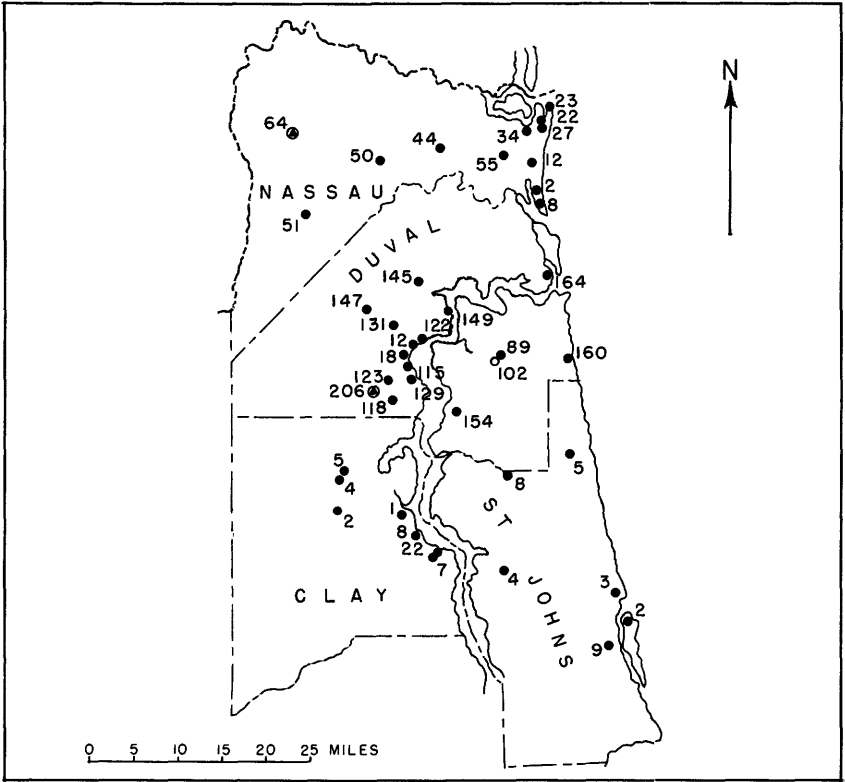


Figure 6.--Location of observation wells in northeastern Florida, 1952.

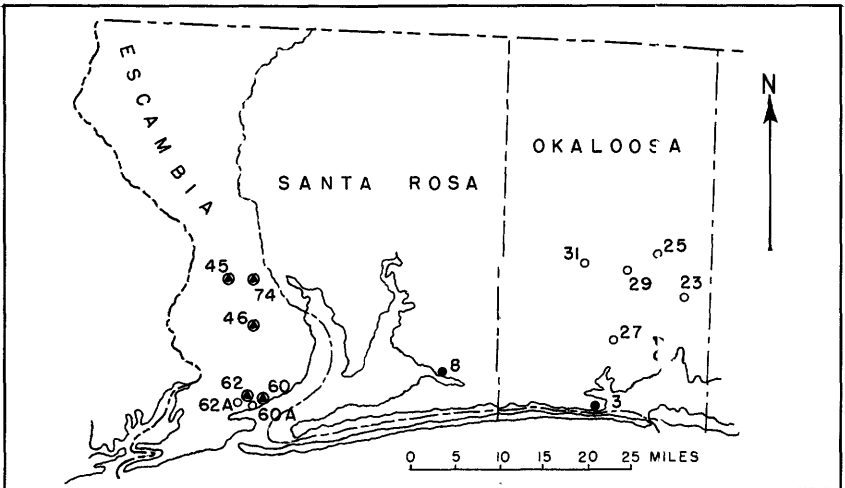


Figure 7.--Location of observation wells in western Florida, 1952.

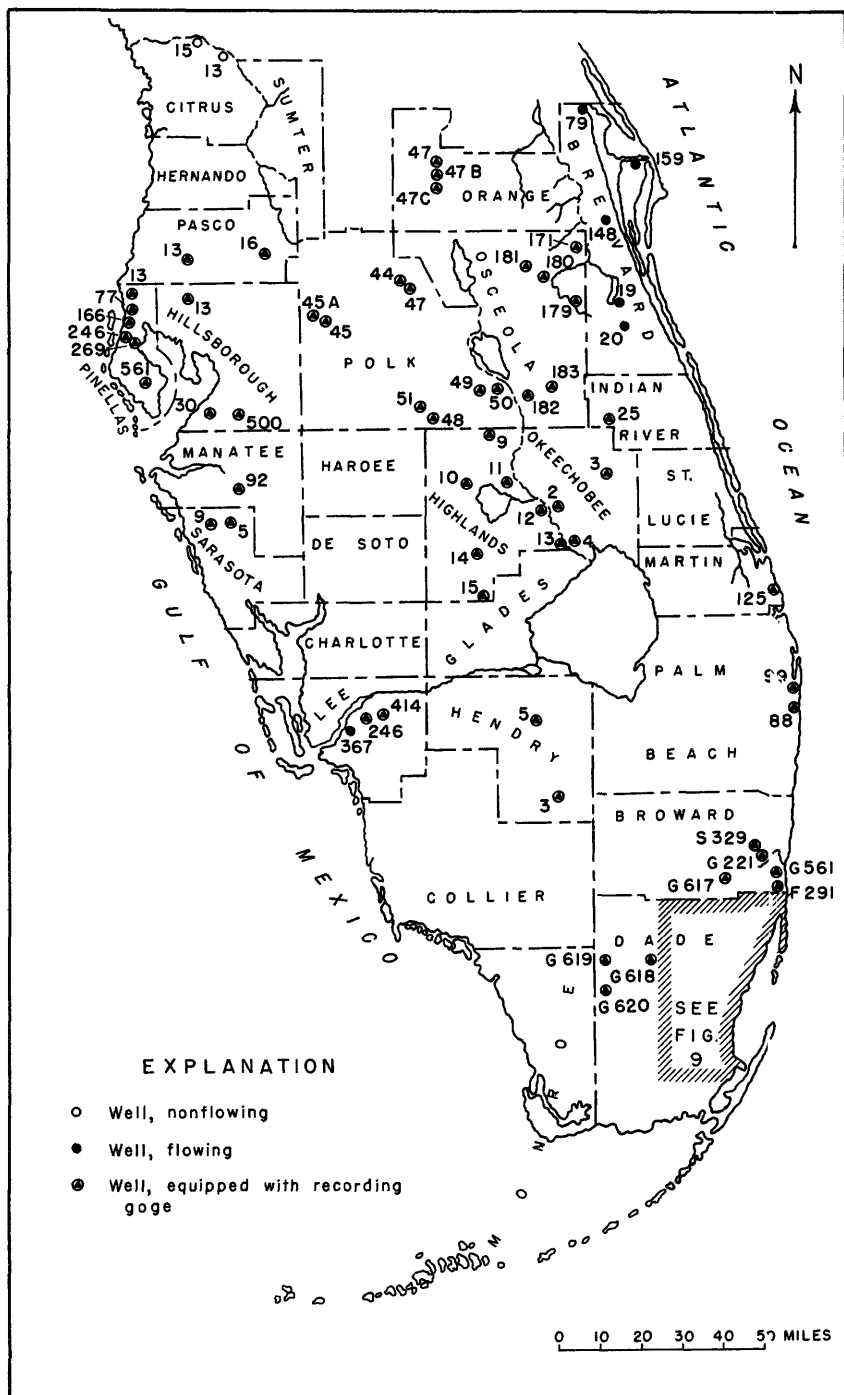


Figure 8. --Location of observation wells in southern Florida, 1952.

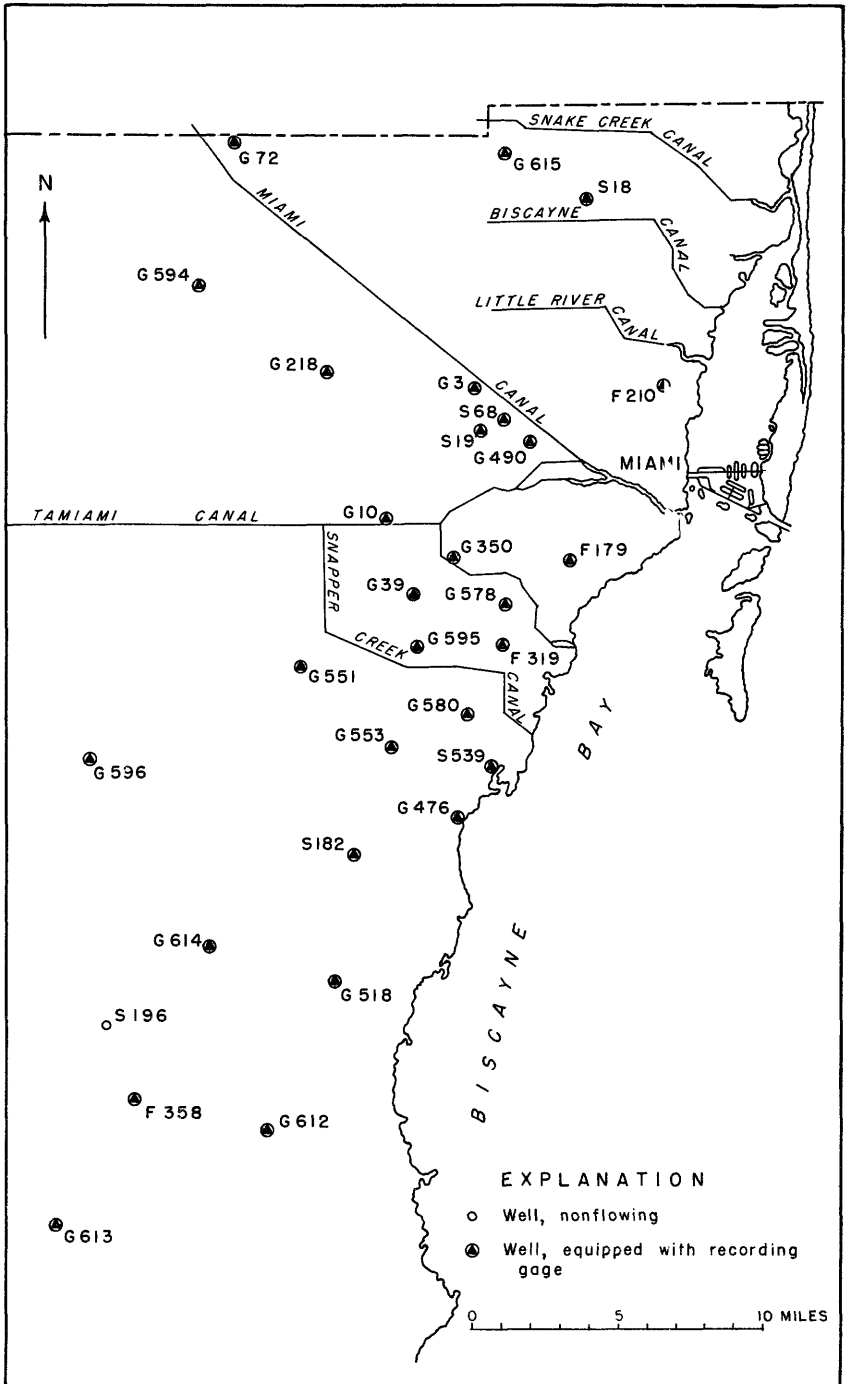


Figure 9. --Location of observation wells in eastern Dade County, Fla., 1952.

Pumpage

The average daily pumpage in the Miami well fields during 1952 was about 62 million gallons. Of this total, 7.35 million gallons were pumped in the new southwest well field near G551. The heaviest pumpage occurred during June, when the daily average was about 69 million gallons. The average yearly water level for well S68 in the Miami Springs well field was 0.85 foot lower than that for well S19 on the outer edge of the field, which indicates the depth of the cone of depression caused by pumping. Two cones of depression of about equal size are formed in this well field. Well G3 is within one cone and well S68 is near the center of the other.

Interpretation of Water-Level Fluctuations

Water-table fluctuations in south Florida and the Kissimmee Valley area are closely related to rainfall. The distribution of rainfall during the year varies both in time and amount, but generally the highest precipitation occurs from May through October, and correspondingly this is the period of highest water levels. Average ground-water levels in south Florida during 1952 were generally higher than in 1951, except in coastal areas of Palm Beach County, and in the northern part of the Kissimmee Valley where losses ranged from 0.05 foot to 1.5 feet and were greatest in Dade and Highlands Counties, and the southern part of the Kissimmee Valley. The 1952 average water levels in Dade County ranged from the same to 0.9 foot lower than the average for the period 1940-50. Average water levels in southeastern Florida during 1952 were 0.4 foot to 1.6 feet higher than the minimum year of record (1945), except in coastal areas of Palm Beach County where average levels were the same to 1.0 foot lower than in 1945. Figures 10, 11, 12, and 13 show graphically the maximum, minimum, and mean average monthly water levels for the period of record prior to 1952, and the average monthly water levels for 1952 in selected wells in southern Florida.

Water levels in wells in western Florida were generally lower at the end of 1952 than at the end of 1951. Declines ranged from a fraction of a foot in Escambia County to as much as 6.8 feet in Okaloosa County. These declines were at least partly the result of below-normal precipitation. Leon County well 36 declined 5 feet during the year, primarily due to below-normal precipitation throughout the year in this and surrounding areas. The water level in Escambia County well 45 continued its progressive decline during the year. It has declined more than 33 feet since records began in 1940, in response to pumping in the nearby well field of the Florida Pulp and Paper Company. The water level in Gulf County well 30, which is near the well field of the St. Joe Paper Company in Port St. Joe, rose slightly during the year, probably due to a reduction in pumpage accompanying development of a surface-water source for part of the plant water requirements.

Water levels in wells north of Polk County generally declined, with declines ranging from negligible amounts in some parts of Lake County to as much as 4 feet in Pasco County, during the year. Most of these declines are believed to have been caused by the deficiency of precipitation, especially during the last few months of the year. The water level in Orange County well 47 responds quickly to local rainfall. The decline of over 3 feet of the water level in this well during the year reflects the below-normal rainfall occurring in the surrounding area. Water levels in the Jacksonville area of Duval County declined somewhat during the year; declines ranged from 0.4 foot to as much as 2.5 feet in some sections. Water levels in Nassau County fluctuated considerably during the year, probably as a result of changes in the rate of pumping. No general decline took place in Nassau County, however. Elsewhere in the State, water levels declined generally, with declines ranging from a fraction of a foot to as much as 3 feet in certain areas. These declines were caused, in the main, by below-normal precipitation over the greater part of the State.

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.

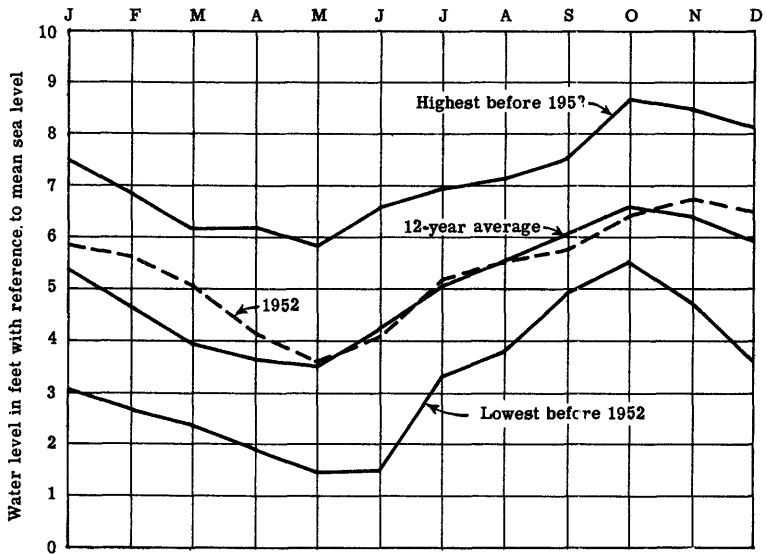


Figure 10. --Average monthly water level in well G-72, Dade County, Fla., 1952.

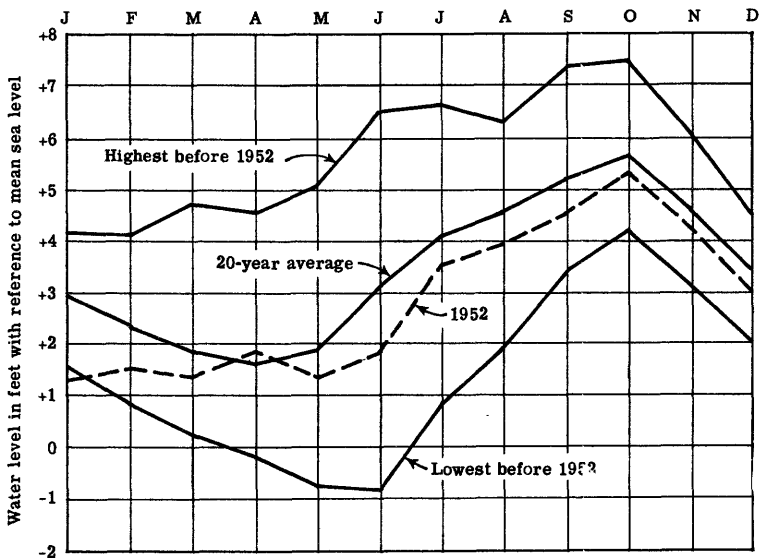


Figure 11. --Average monthly water level in well S-196, Dade County, Fla., 1952.

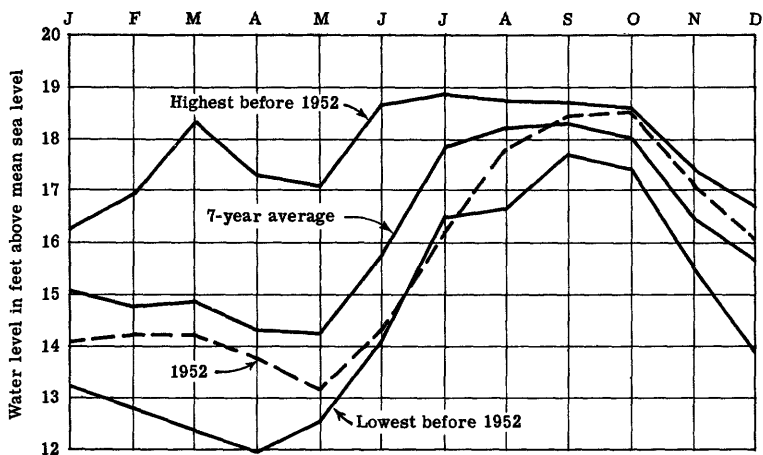


Figure 12. --Average monthly water level in well L-246, Lee County, Fla., 1952.

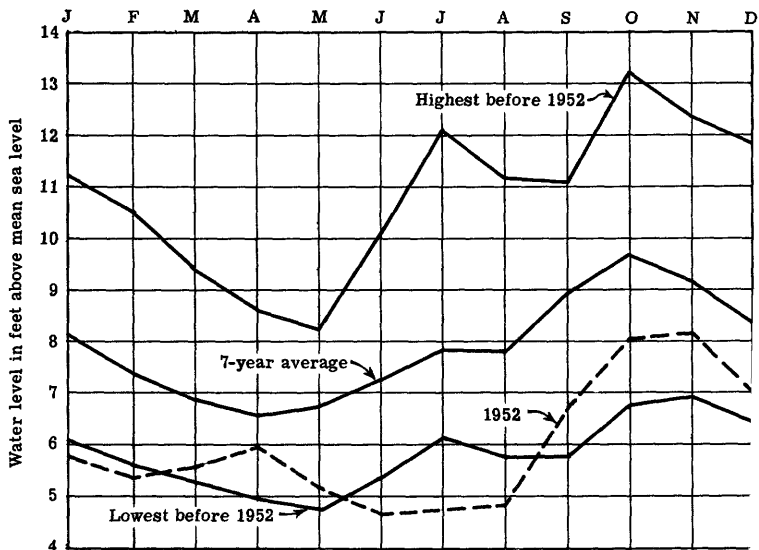


Figure 13. --Average monthly water level in well PB-88, Palm Beach County, Fla., 1952.

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: 1946-52.

Week Ending	High	Low	Date	Water level
Jan. 5	53.61	54.07	Apr. 18	h55.56
12	53.13	53.61	June 2	h58.33
Feb. 9	53.10	53.50	July 14	e60.76
16	53.37	53.51	Aug. 26	e60.19
Mar. 29	54.35	54.83	Oct. 9	e58.90
Apr. 5	54.81	54.93	Nov. 17	e55.53
12	54.81	55.18		

e Estimated.

h Tape measurement.

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: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	+1.54	Apr. 18	+1.61	July 15	+1.43	Oct. 10	+1.51
Mar. 20	+2.09	June 3	+1.80	Aug. 21	+1.55	Nov. 18	+1.05

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: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	7.08	Apr. 18	6.99	July 15	9.38	Oct. 10	7.65
Mar. 20	6.80	June 3	8.03	Aug. 21	7.23	Nov. 18	8.84

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, 1945; lowest 25.1 above lsd, Apr. 23, 1952. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+28.0	Apr. 23	+25.1	July 16	+26.4	Oct. 7	+26.2
Apr. 2	+26.9	June 2	+26.0	Aug. 25	+26.0	Nov. 17	+26.8

20. Marion Platt. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 29 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 447 feet, cased to 125. Land-surface datum is 23 feet above msl. Highest water level 28.7 above lsd, May 12, 1947; lowest 24.0 above lsd, June 2, 1952. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+26.0	Apr. 23	+24.3	July 16	+24.5	Oct. 7	+26.0
Apr. 2	+25.9	June 2	+24.0	Aug. 25	+25.2	Nov. 17	+24.8

79. C. W. Carlisle. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 20 S., R. 35 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 160 feet, cased to 85. Land-surface datum is 8.98 feet above msl. Highest water level 6.7 above lsd, Aug. 29, 1946; lowest 1.56 above lsd, Aug. 1, 1950. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+4.26	Apr. 24	+3.30	July 17	b+3.00	Oct. 9	+4.42
Apr. 2	+4.52	June 4	+3.75	Aug. 27	+3.60	Nov. 19	+4.60

b Pumped recently.

148. W. P. Warren. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 24 S., R. 36 E. Drilled irrigation artesian well in Floridan aquifer, diameter 4 inches, reported depth 206 feet, cased to 105. Land-surface datum is 19.49 feet above msl. Highest water level 13.1 above lsd, Sept. 16, 1947; lowest 7.7 above lsd, Aug. 1, 1950. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+11.4	Apr. 23	+10.3	July 16	+9.4	Oct. 8	+11.7
Apr. 2	+11.5	June 3	+9.9	Aug. 26	+10.9	Nov. 18	+11.2

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, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	+15.2	Apr. 24	+14.4	July 17	+13.8	Oct. 6	+15.0
Apr. 2	+15.3	June 3	+14.1	Aug. 27	+14.5	Nov. 19	+14.7

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: 1939-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.23	1.06	1.16	1.18	0.88	0.80	0.17	0.68	1.62	2.19	4.84	2.54
2	1.23	1.14	1.12	1.16	.83	.78	.16	.75	1.58	2.99	4.70	2.49
3	1.22	1.37	1.08	1.13	.81	.85	.63	.79	1.55	3.48	4.59	2.44
4	1.21	1.40	1.06	1.09	.79	.83	.70	1.09	1.51	3.53	4.47	2.40
5	1.20	1.43	1.04	1.06	.76	.79	.76	1.21	1.47	3.81	4.37	2.35
6	1.19	1.44	1.01	1.04	.72	.74	.81	1.26	1.70	3.95	4.29	2.32
7	1.17	1.40	1.00	1.00	.69	.72	.86	1.27	1.71	3.88	4.18	2.28
8	1.16	1.36	.98	.96	.65	.69	.88	1.27	1.71	3.77	4.08	2.24
9	1.14	1.33	.97	.93	.62	.65	.89	1.26	2.14	3.96	3.98	2.20
10	1.13	1.30	.96	.90	.60	.60	.87	1.30	2.20	4.06	3.88	2.63
11	1.12	1.26	.96	.88	.59	.55	.87	1.32	2.26	4.11	3.79	2.78
12	1.11	1.24	.95	.86	.63	.50	.84	1.33	2.22	4.06	3.70	2.82
13	1.11	1.21	.94	.84	.64	.47	.90	1.34	2.19	4.16	3.61	2.76
14	1.10	1.19	.92	.81	.57	.43	.95	1.29	2.16	4.14	3.53	2.69
15	1.09	1.16	.92	.78	.55	.41	.96	1.26	2.10	4.05	3.46	2.62
16	1.08	1.16	.90	.75	.53	.39	.94	1.30	2.06	3.95	3.37	2.56
17	1.07	1.19	.88	.72	.52	.37	.94	1.36	2.02	3.86	3.29	2.51
18	1.04	1.17	.86	.69	.51	.35	.91	1.40	1.98	3.96	3.21	2.45
19	1.04	1.15	.85	.68	.49	.33	.87	1.42	1.97	4.05	3.15	2.42
20	1.03	1.12	.82	.66	.47	.32	.84	1.42	2.03	4.06	3.09	2.37
21	1.02	1.10	.80	.65	.45	.29	.80	1.43	1.96	3.97	3.03	2.35
22	1.01	1.08	.79	.63	.43	.38	.76	1.43	1.90	3.88	2.97	2.27
23	1.00	1.12	.77	.61	.43	.40	.73	1.47	1.88	4.14	2.91	2.24
24	1.00	1.14	.75	.59	.42	.31	.70	1.52	1.81	4.44	2.85	2.20
25	1.00	1.15	.72	.57	.41	.28	.66	1.56	1.79	4.80	2.80	2.16
26	1.00	1.17	.70	.90	.41	.26	.64	1.60	1.76	4.83	2.77	2.12
27	.98	1.19	.97	.98	.60	.25	.67	1.63	1.78	5.85	2.70	2.09
28	.97	1.16	1.12	.99	.72	.23	.70	1.61	1.80	5.67	2.64	2.05
29	1.11	1.15	1.21	.95	.76	.21	.73	1.64	1.80	5.40	2.60	2.03
30	1.12	1.23	1.21	.91	.78	.19	.74	1.65	2.04	5.17	2.57	2.00
31	1.09	1.21	1.21	.79	.79		.75	1.66		4.99		1.97

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. Recording gage removed Sept. 7, 1952. Highest water level 11.49 above msl, Oct. 12, 1947; lowest 0.39 below msl, July 2, 1952. Records available: 1946-52.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+1.60	+1.34	+1.52	+1.35	+1.16	+0.64	+0.22	+0.30	+2.10
2	1.62	1.38	1.44	1.31	1.12	1.04	-.39	.46	2.09
3	1.60	1.44	1.36	1.32	1.15	1.01	+.42	.61	2.00
4	1.52	1.48	1.28	1.26	1.15	.94	.56	.76	1.75
5	1.51	1.56	1.23	1.08	1.14	.82	.69	.84	1.64

G221--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
6	+1.50	+1.60	+1.25	+1.12	+1.04	+0.70	+0.78	+0.98	+1.71
7	1.55	1.64	1.22	1.08	1.00	.70	.81	....	....
8	....	1.65	1.22	1.00	.95	.78	.87	.81	....
9	....	1.66	1.21	....	.84	.70	.89	.85	....
10	....	1.60	1.14	....	.93	.08	.91	.88	....
11	....	1.56	1.15	....	1.00	+.03	.20	1.11	....
12	1.44	1.49	1.07	.76	1.09	-.00	....	1.17	....
13	1.39	1.42	1.05	....	.59	-.04	....	1.18	....
14	1.35	1.37	1.04	....	.59	-.07	....	1.03	....
15	1.31	1.30	1.10	....	1.15	+.52	....	1.01	....
16	1.29	1.32	1.13	....	1.11	-.56	....	1.19	....
17	1.30	1.40	1.08	....	1.14	+.51	....	1.29	....
18	1.27	1.45	1.03	....	1.12	-.12	.88	1.27	....
19	1.25	1.48	.95	.66	1.07	-.14	.95	1.32	....
20	1.21	1.43	.88	.66	.98	+.37	.87	1.34	....
21	1.20	1.35	.76	.66	.94	-.04	.84	1.40	....
22	1.16	1.33	.84	.60	.86	+.49	.69	1.40	....
23	1.13	1.27	.83	.63	.82	-.46	.62	1.45	....
24	1.26	1.38	.78	.57	.78	+.40	.54	1.56	....
25	....	1.42	.70	.68	.78	-.23	.50	1.70	....
26	1.31	1.50	.73	.94	.76	+.29	.46	1.82	....
27	1.32	1.52	.89	1.09	.78	.40	.43	1.91	....
28	1.25	1.55	.99	1.18	.86	.45	.42	1.96	....
29	1.30	1.54	1.05	1.23	.88	.30	.27	2.00	....
30	1.34	1.26	1.26	1.18	.98	.30	.33	2.05	....
31	1.35	1.32	1.32	....	1.03	....	.22	2.08	....

e Estimated.

* No record for October, November, and December.

G561. U. S. Geol. Survey. Southeast 4 Ave., and 20 St., Fort Lauderdale. 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: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.99	0.78	1.02	0.92	0.89	0.85	0.06	0.65	1.79	2.25	3.85	1.87
2	.99	.91	1.01	.87	.85	.85	.05	.92	1.71	2.41	3.73	1.84
3	.97	1.17	.97	.84	.80	.86	.43	1.15	1.64	2.51	3.61	1.82
4	.93	1.19	.92	.80	.76	.87	.51	1.43	1.56	2.58	3.48	1.80
5	.89	1.25	.87	.75	.68	.84	.57	1.56	1.50	2.78	3.37	1.79
6	.86	1.21	.82	.70	.64	.79	.63	1.49	1.49	2.87	3.25	1.78
7	.84	1.17	.75	.63	.61	.72	.67	1.41	1.48	2.93	3.14	1.75
8	.79	1.14	.74	.63	.59	.70	.70	1.33	1.62	2.87	3.03	1.74
9	.78	1.12	.75	.63	.56	.68	.72	1.28	1.68	3.08	2.92	1.72
10	.77	1.07	.78	.62	.57	.64	.73	1.53	1.70	3.16	2.82	3.14
11	.78	1.02	.80	.61	.63	.58	.74	1.61	1.81	3.04	2.72	3.08
12	.78	.95	.79	.59	.66	.54	.72	1.50	1.83	2.97	2.64	2.92
13	.78	.94	.78	.59	.66	.49	.75	1.41	1.80	2.90	2.55	2.76
14	.78	.93	.75	.59	.63	.49	.79	1.32	1.83	2.89	2.49	2.60
15	.78	.93	.77	.54	.58	.47	.81	1.26	1.76	3.10	2.42	2.53
16	.77	.90	.74	.50	.54	.44	.83	1.27	1.70	3.16	2.37	2.39
17	.78	.94	.71	.48	.52	.42	.82	1.24	1.65	3.00	2.30	2.30
18	.78	.90	.67	.46	.50	.38	.75	1.20	1.72	3.17	2.25	2.21
19	.77	.86	.66	.44	.48	.36	.67	1.25	1.70	3.13	2.22	2.16
20	.76	.81	.62	.44	.44	.32	.63	1.32	1.69	3.03	2.24	2.12
21	.75	.82	.56	.44	.41	.27	.56	1.30	1.67	2.95	2.18	2.05
22	.74	.80	.57	.43	.41	.25	.59	1.24	1.61	2.91	2.14	1.97
23	.73	.82	.54	.43	.42	.25	.56	1.39	1.56	4.03	2.10	1.93
24	.74	.88	.52	.41	.44	.22	.54	1.66	1.51	4.32	2.06	1.87
25	.76	.93	.49	.36	.50	.20	.53	1.94	1.49	4.47	2.03	1.81
26	.75	.97	.53	1.13	.53	.17	.50	2.10	1.53	4.20	2.00	1.75
27	.73	1.01	.77	1.20	.64	.15	.52	2.05	1.78	4.98	1.97	1.70
28	.76	1.02	.96	1.15	.72	.13	.61	1.93	1.81	e4.69	1.95	1.62
29	.86	1.01	1.05	1.03	.77	.09	.65	1.85	1.75	e4.41	1.92	1.60
30	.87	1.05	.96	.81	.81	.07	.67	1.80	2.04	e4.15	1.89	1.57
31	.87	.97	.83	....	.83	....	.67	1.91	3.97	....	....	1.53

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: 1940-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.30	2.14	2.16	2.03	1.96	1.32	0.84	0.48	2.64	3.23	5.60	3.74
2	2.34	2.05	2.13	2.04	1.95	1.52	.45	.50	2.54	3.30	5.50	3.71
3	2.32	2.19	2.07	2.06	1.90	1.52	1.10	1.17	2.38	3.39	5.40	3.64
4	2.24	2.24	2.04	2.02	1.87	1.53	1.25	1.40	2.12	3.56	5.31	3.58
5	2.21	2.36	2.00	1.96	1.89	1.44	1.33	1.77	2.24	3.82	5.23	3.54
6	2.22	2.44	1.96	1.94	1.78	1.35	1.41	1.98	2.34	3.97	5.20	3.46
7	2.28	2.47	1.98	1.99	1.72	1.30	1.47	2.07	2.39	4.05	5.13	3.45
8	2.27	2.50	1.98	1.93	1.67	1.42	1.52	2.06	2.40	4.08	5.04	3.39
9	2.18	2.45	1.98	1.85	1.70	1.33	1.10	2.10	2.37	4.18	4.97	3.32
10	2.18	2.43	1.92	1.77	1.67	.82	1.04	2.08	2.39	4.32	4.87	3.94
11	2.18	2.41	1.93	1.72	1.78	.79	1.35	2.12	2.38	4.37	4.77	4.14
12	2.22	2.36	1.83	1.70	2.05	.75	1.33	1.60	2.49	4.42	4.67	4.19
13	2.17	2.30	1.80	1.66	2.14	.70	1.50	1.50	2.57	4.43	4.67	4.19
14	2.14	2.25	1.80	1.72	2.12	.68	1.55	1.86	2.60	4.45	4.67	4.15
15	2.10	2.18	1.86	1.58	2.15	1.20	1.60	1.84	2.62	4.62	4.56	4.08
16	2.08	2.16	1.90	1.60	2.02	1.25	1.58	1.94	2.60	4.73	4.50	4.03
17	2.09	2.25	1.86	1.56	2.02	1.24	1.85	2.07	2.50	4.70	4.45	3.83
18	2.06	2.28	1.80	1.53	1.96	.99	1.65	2.15	2.57	4.94	4.37	3.73
19	2.03	2.28	1.71	1.45	1.90	.70	1.63	2.20	2.74	4.96	4.31	3.75
20	2.02	2.24	1.62	1.44	1.80	.66	1.55	2.20	2.84	4.86	4.26	3.63
21	1.99	2.18	1.59	1.47	1.74	1.01	1.53	2.04	2.91	4.78	4.24	3.57
22	1.98	2.17	1.60	1.39	1.64	1.19	1.39	1.94	2.92	4.72	4.17	3.50
23	1.95	2.10	1.58	1.44	1.62	1.20	1.28	2.02	2.92	4.69	4.14	3.41
24	1.96	2.19	1.58	1.37	1.52	1.10	1.16	2.07	2.88	5.28	4.08	3.38
25	2.01	2.23	1.51	1.51	1.52	.62	1.10	2.47	2.96	5.52	4.02	3.34
26	2.04	2.26	e 1.48	1.63	1.48	.98	1.06	2.70	3.06	5.81	3.96	3.26
27	2.00	2.30	1.67	1.80	1.46	.98	1.04	2.75	3.13	6.31	3.90	3.23
28	1.98	2.30	1.84	1.60	1.57	.56	1.09	2.77	3.18	6.20	3.86	3.21
29	2.04	2.24	1.92	1.88	1.58	.91	1.18	2.66	3.12	6.00	3.83	3.21
30	2.09		2.01	1.94	1.64	.96	1.05	2.63	3.06	5.84	3.79	3.20
31	2.13		2.04		1.41		1.16	2.66		5.70		3.17

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 8 inches, depth 29 feet, cased to 28. Land-surface datum is 6.0 feet above msl. Highest water level 6.54 above msl, Aug. 10, 1952; lowest 2.80 above msl, May 25, 1951. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 16	4.13	Nov. 28	4.72	Dec. 10	4.49	Dec. 21	4.12
17	4.05	29	4.63	11	4.42	22	4.12
18	4.01	30	4.58	12	4.39	23	4.12
19	3.99	Dec. 1	4.52	13	4.43	24	4.12
20	3.96	2	4.48	14	4.36	25	4.11
21	3.91	3	4.45	15	4.31	26	4.05
22	3.87	4	4.40	16	4.27	27	4.19
23	3.83	5	4.35	17	4.24	28	4.14
24	5.53	6	4.32	18	4.21	29	4.12
25	5.15	7	4.70	19	4.18	30	4.05
26	4.98	8	4.64	20	4.14	31	4.23
27	4.84	9	4.58				

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.19	4.02	3.76	3.67	3.63	2.98	3.88	4.94	5.20	4.76	4.45	4.30
2	4.14	4.38	3.73	3.65	3.60	2.98	3.85	4.84	4.92	5.75	4.40	4.27
3	4.07	5.15	3.71	3.61	3.55	2.98	3.82	4.60	4.82	5.17	4.35	4.22
4	4.04	4.95	3.69	3.58	3.50	2.98	3.83	4.47	4.90	4.97	4.34	4.17
5	4.04	4.94	3.67	3.56	3.46	2.98	4.15	4.39	4.65	4.80	4.30	4.22

G617--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	4.01	4.81	3.66	3.54	3.43	2.98	4.15	5.57	4.48	4.66	4.27	4.20
7	4.00	4.68	3.65	3.57	3.41	3.00	4.15	5.00	4.37	4.55	4.27	4.17
8	3.98	4.52	3.63	3.58	3.40	3.03	4.20	4.73	4.28	4.45	4.25	4.15
9	3.99	4.44	3.63	3.59	3.37	3.04	4.44	4.55	4.40	6.05	4.25	4.14
10	4.04	4.36	3.60	4.27	3.31	3.04	5.28	4.40	4.22	5.51	4.24	4.13
11	4.06	4.29	3.60	4.32	3.29	3.02	5.89	4.33	4.15	5.24	4.23	4.10
12	4.07	4.23	3.62	4.23	3.27	2.98	5.13	4.24	4.13	5.08	4.23	4.07
13	4.08	4.17	3.75	4.14	3.26	2.96	4.94	4.17	4.06	5.04	4.25	4.12
14	4.09	4.14	3.74	4.06	3.25	2.95	4.82	4.33	3.99	5.57	4.28	4.12
15	4.12	4.09	3.70	3.99	3.33	3.28	4.64	4.19	3.92	5.10	4.38	4.13
16	4.12	4.05	3.67	3.88	3.41	3.53	4.51	4.11	3.87	5.15	4.40	4.15
17	4.08	4.01	3.63	3.90	3.40	3.60	4.45	4.04	3.83	4.95	4.32	4.20
18	4.00	4.00	3.62	3.85	3.27	3.63	5.06	4.04	3.80	5.16	4.29	4.27
19	3.94	3.97	....	3.85	3.18	3.68	4.61	4.00	3.74	4.85	4.32	4.30
20	3.93	3.94	....	4.18	3.07	3.70	4.53	3.91	3.68	4.78	4.34	4.34
21	3.92	3.91	....	4.24	3.01	3.73	4.43	3.86	3.70	4.72	4.37	4.35
22	3.87	3.88	....	4.17	2.93	3.74	4.38	3.84	3.65	4.70	4.37	4.35
23	3.83	3.86	....	4.06	2.88	3.73	4.28	3.96	3.60	4.65	4.40	4.35
24	3.81	3.85	....	3.98	2.83	3.69	5.38	4.38	3.57	4.58	4.42	4.34
25	3.80	3.82	....	3.98	2.80	3.66	5.09	4.41	3.58	4.87	4.40	4.33
26	3.78	3.80	....	3.90	2.80	3.64	4.79	5.73	3.53	4.75	4.38	4.42
27	3.78	3.80	....	3.80	2.80	3.94	4.66	5.15	3.50	4.64	4.35	4.50
28	3.78	3.78	....	3.75	2.88	3.95	4.48	5.36	3.84	4.57	4.32	4.52
29	3.78	....	3.59	3.71	2.93	3.92	5.02	5.34	4.16	4.57	4.45	4.54
30	3.81	....	3.66	3.66	2.96	3.85	5.86	4.96	4.29	4.60	4.35	4.56
31	3.88	....	3.67	....	2.97	....	5.12	4.75	....	4.55	....	4.58

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.60	4.46	3.70	4.27	3.62	4.22	4.25	3.90	4.25	4.48	5.65	4.43
2	4.61	5.15	3.67	4.14	3.60	4.24	4.17	4.78	4.13	6.02	....	4.42
3	4.59	5.38	3.62	4.04	3.55	4.04	5.61	5.88	4.00	5.52	....	4.40
4	4.55	5.05	3.60	3.95	3.63	3.90	5.20	6.40	3.89	6.21	....	4.40
5	4.53	5.49	3.59	3.88	3.69	3.78	5.43	5.92	3.82	6.30	....	4.38
6	4.50	5.06	3.58	3.85	3.71	3.68	4.90	5.50	3.78	5.73	....	4.35
7	4.40	4.89	3.58	3.80	3.70	3.63	6.07	5.17	3.72	6.13	....	4.35
8	4.31	4.79	3.58	3.75	3.82	3.64	5.50	5.05	4.48	5.60	....	4.33
9	4.26	4.67	3.57	3.72	3.95	3.58	5.18	6.38	5.00	....	....	4.33
10	4.21	4.58	3.55	3.66	3.89	3.56	4.86	6.54	4.60	....	....	5.13
11	4.19	4.47	3.53	3.62	4.50	3.48	4.65	6.04	4.92	....	....	5.32
12	4.17	4.38	3.52	3.59	4.60	3.48	4.80	5.69	4.66	....	....	5.05
13	4.15	4.30	3.52	3.55	4.47	3.47	5.20	5.28	4.48	....	....	5.05
14	4.33	4.23	3.53	3.47	4.35	3.47	4.72	5.05	4.33	....	....	4.95
15	4.37	4.18	3.56	3.41	4.21	3.57	4.45	4.85	4.23	....	....	4.89
16	4.42	4.10	3.56	3.38	4.11	3.68	4.33	5.67	4.16	....	....	4.80
17	4.43	4.16	3.56	3.35	4.04	3.71	4.88	4.95	4.03	....	....	4.73
18	4.43	4.09	3.55	3.30	4.00	4.79	4.50	5.38	4.00	....	....	4.67
19	4.43	4.05	3.54	3.26	3.89	4.71	4.37	4.90	4.31	....	....	4.82
20	4.41	4.00	3.49	3.23	3.83	4.57	4.44	4.70	4.45	....	....	4.73
21	4.39	3.95	3.45	3.20	3.85	4.44	4.48	4.55	4.29	....	....	4.65
22	4.37	3.90	3.41	3.20	3.84	5.43	4.27	4.50	4.25	....	....	4.59
23	4.34	3.86	3.38	3.19	3.80	5.15	4.18	5.34	4.27	....	....	4.51
24	4.37	3.85	3.35	3.18	3.79	4.94	4.10	4.82	4.21	....	....	4.47
25	4.41	3.85	3.29	3.26	3.74	4.80	4.03	4.63	4.17	....	....	4.46
26	4.32	3.82	3.35	3.58	3.70	4.63	3.96	4.45	4.13	....	....	4.46
27	4.28	3.80	3.54	3.69	3.72	4.60	3.92	4.32	4.07	....	....	4.41
28	4.62	3.75	4.10	3.70	3.72	4.45	3.98	4.36	4.22	....	....	4.38
29	4.77	3.72	4.54	3.70	3.94	4.33	4.00	4.18	4.05	....	....	4.34
30	4.67	....	4.56	3.67	4.00	4.29	3.99	4.10	4.02	....	....	4.33
31	4.55	....	4.39	....	4.00	....	3.95	4.49	....	5.89	....	4.30

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: 1935-52.

13--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	4.17	May 5	3.42	July 30	4.28	Oct. 20	4.76
Apr. 3	2.24	June 17	4.35	Sept. 9	3.44	Dec. 1	5.02

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: 1935-52.

Feb. 13	14.29	May 5	13.10	July 31	12.68	Oct. 20	15.68
Apr. 3	12.64	June 16	12.80	Sept. 9	15.05	Dec. 1	16.05

Clay County

1. Girl Scouts of America. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 5 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 6 inches, reported depth 400 feet, cased to 72. Land-surface datum is 11.74 feet above msl. Highest water level 44.3 above lsd, Mar. 22, 1948; lowest 33.6 above lsd, Aug. 8, 1951. Records available: 1934, 1940, 1942, 1944-52.

Jan. 9	+34.1	Apr. 16	+38.5	July 16	+34.6	Oct. 29	+37.6
Mar. 7	+34.9	May 29	+37.4	Sept. 10	+37.2	Dec. 16	+35.9

2. Mrs. M. A. Chaulker. 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 38.8 above lsd, Dec. 16, 1952. Records available: 1934, 1940-42, 1944-52.

Jan. 9	+41.2	Apr. 16	+41.2	July 16	+40.0	Oct. 29	+40.0
Mar. 7	+40.8	May 29	+40.8	Sept. 10	+40.0	Dec. 16	+38.8

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 31.4 above lsd, Mar. 7, 1952. Records available: 1940-42, 1944-52.

Jan. 9	+35.8	Apr. 16	+36.1	July 16	+33.8	Oct. 29	+32.8
Mar. 7	+31.4	May 29	+34.7	Sept. 10	+34.0	Dec. 16	+32.3

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 28.0 above lsd, Oct. 29, 1952. Records available: 1940-41, 1944-52.

Jan. 9	+29.7	Apr. 16	+29.7	July 16	+28.4	Oct. 29	+28.0
Mar. 7	+30.1	May 29	+29.6	Sept. 10	+28.3	Dec. 16	+28.6

7. U. S. Navy. At auxiliary air base, 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 13.2 above lsd, May 10, 1951. Records available: 1940-42, 1946-47, 1949-52. Jan. 9, +20.7; Mar. 7, +19.5; Apr. 16, +18.0; May 29, +16.4; July 16, +13.5; Oct. 29, +16.9; Dec. 16, +15.7.

8. St. Elmo Hotel. Green Cove Springs. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, reported depth 600 feet, cased to about 150. Land-surface datum is 15.89 feet above msl. Highest water level 22.5 above lsd, July 15, 1947; lowest 15.2 above lsd, July 16, 1952. Records available: 1934-35, 1940-42, 1944-52. Jan. 9, +17.2; Mar. 7, +16.5; Apr. 16, +16.4; May 29, +16.4; July 16, +15.2; Sept. 10, +16.0; Oct. 29, +17.8.

22. U. S. Navy. At auxiliary air base, near 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 13.5 above lsd, July 16, 1952. Records available: 1946-52.

Jan. 9	+20.2	Apr. 16	+17.3	July 16	+13.5	Oct. 29	+16.5
Mar. 7	+18.7	May 29	+15.4	Sept. 10	+13.6	Dec. 16	+15.3

Columbia County

9. City of Lake City. Sec. 5, T. 4 S., R. 17 E. Drilled unused artesian well in Floridan aquifer, diameter 12 inches, reported depth 836 feet. Highest water level 79.58 below lsd, June 5, 1948; lowest 92.48 below lsd, Dec. 29, 1952. Records available: 1948-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	90.45	90.26	89.56	89.25	89.21	89.44	90.09	90.62	90.99	91.31	91.85	92.25
2	90.44	89.96	89.67	89.24	89.24	89.47	90.16	90.55	90.99	91.33	91.87	92.15
3	90.43	89.72	89.59	89.32	89.28	89.60	90.19	90.53	91.00	91.42	91.85	92.20
4	90.38	89.75	89.57	89.23	89.31	89.63	90.21	90.57	91.05	91.49	91.85	92.25
5	90.29	89.84	89.70	89.27	89.32	89.64	90.22	90.63	91.10	91.44	91.85	92.11
6	90.23	90.02	89.70	89.42	89.33	89.68	90.25	90.66	91.10	91.41	91.81	92.22
7	90.36	90.02	89.72	89.43	89.33	89.68	90.26	90.64	91.10	91.42	91.93	92.25
8	90.30	90.11	89.69	89.42	89.30	89.71	90.24	90.66	91.14	91.28	92.01	92.25
9	90.25	90.05	89.64	89.40	89.27	89.77	90.22	90.65	91.19	91.36	91.93	92.22
10	90.33	90.03	89.50	89.40	89.27	89.79	90.21	90.65	91.15	91.50	91.83	92.10
11	90.53	89.95	89.42	89.37	89.25	89.77	90.29	90.68	91.08	91.55	91.85	92.21
12	90.51	89.93	89.47	89.30	89.41	89.75	90.40	90.74	91.20	91.55	91.94	92.25
13	90.42	89.90	89.35	89.17	89.46	89.78	90.40	90.78	91.25	91.57	91.95	92.21
14	90.33	89.88	89.37	89.13	89.50	89.84	90.38	90.79	91.25	91.54	91.93	92.22
15	90.32	89.81	89.37	89.22	89.49	89.82	90.38	90.76	91.23	91.50	91.95	92.33
16	90.30	89.68	89.47	89.28	89.47	89.79	90.43	90.74	91.20	91.51	92.03	92.37
17	90.27	89.77	89.48	89.37	89.48	89.82	90.48	90.77	91.19	91.58	92.05	92.37
18	90.22	89.92	89.42	89.38	89.47	89.85	90.52	90.78	91.22	91.61	92.03	92.37
19	90.22	89.90	89.43	89.36	89.47	89.87	90.47	90.80	91.27	91.53	91.87	92.35
20	90.13	89.82	89.47	89.36	89.45	89.91	90.43	90.82	91.29	91.48	91.76	92.27
21	90.13	89.89	89.43	89.35	89.51	89.97	90.42	90.84	91.26	91.73	91.85	92.22
22	90.06	89.90	89.38	89.35	89.56	90.02	90.47	90.83	91.19	91.73	91.97	92.26
23	90.20	89.75	89.34	89.31	89.58	90.03	90.48	90.83	91.25	91.70	92.10	92.31
24	90.34	89.70	89.30	89.25	89.57	90.02	90.47	90.87	91.28	91.69	92.13	92.36
25	90.27	89.78	89.35	89.17	89.54	90.00	90.50	90.93	91.26	91.68	92.10	92.37
26	90.18	89.56	89.33	89.04	89.51	90.00	90.56	90.93	91.23	91.73	92.08	92.40
27	90.08	89.67	89.35	89.06	89.53	90.00	90.57	90.88	91.26	91.71	92.13	92.40
28	89.87	89.70	89.38	89.10	89.58	90.05	90.57	90.93	91.33	91.67	92.21	92.40
29	90.03	89.58	89.43	89.10	89.51	90.07	90.50	90.88	91.35	91.87	92.21	92.42
30	90.25		89.48	89.17	89.45	90.05	90.56	90.83	91.33	91.95	92.23	92.30
31	90.35		89.42		89.48		90.62	90.92		91.90		92.20

Dade County

F179. City of Miami. Southwest 24 Terrace and 32 Ave. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 77 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.21 above msl, Oct. 14, 1947; lowest 0.80 above msl, Mar. 10, 1945. Records available: 1939-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.33	1.23	e1.49	1.36	1.29	1.52	1.09	1.38	1.81	2.48	4.64	2.05
2	1.33	1.26	e1.46	1.35	1.29	1.53	1.13	1.39	1.78	2.53	4.46	2.02
3	1.34	1.44	e1.44	1.34	1.29	1.54	1.16	1.40	1.76	2.54	4.28	2.00
4	1.33	1.45	e1.41	1.33	1.30	1.55	....	1.44	1.74	2.55	4.10	1.99
5	e1.31	1.45	e1.39	1.32	1.30	1.54	....	1.46	1.73	2.98	3.93	1.98
6	1.29	1.45	1.37	1.31	1.28	e1.52	....	1.48	1.74	3.11	3.75	1.99
7	1.27	1.44	1.36	1.31	1.26	e1.48	....	1.51	1.75	3.18	3.62	2.01
8	1.27	1.40	1.37	1.32	1.24	e1.44	....	1.50	1.78	3.19	3.46	2.02
9	1.27	1.39	1.39	1.33	1.22	e1.40	....	1.50	1.80	3.20	3.32	2.01
10	1.27	1.38	1.41	1.34	1.22	e1.37	....	1.49	1.84	3.19	3.19	2.05
11	1.29	1.38	1.42	1.33	1.23	e1.33	1.85	1.47	1.98	3.18	3.06	2.07
12	1.30	1.38	1.43	1.34	1.25	e1.29	....	1.45	2.02	3.16	2.94	2.00
13	1.30	....	1.44	1.36	1.25	1.26	....	1.42	2.05	3.14	2.83	1.99
14	e1.31	....	1.43	e1.37	1.25	1.24	....	1.40	2.06	3.24	2.74	1.95
15	e1.31	1.38	1.42	1.31	1.23	1.22	....	1.36	2.06	3.22	2.66	1.92
16	e1.32	1.38	1.40	e1.26	1.21	1.26	....	1.35	2.05	3.19	2.57	1.89
17	e1.32	1.38	1.37	e1.21	1.23	1.24	....	1.36	2.05	3.11	2.50	1.85
18	1.33	e1.35	1.35	1.17	1.24	1.21	1.41	1.37	2.30	3.03	2.47	1.83
19	1.33	1.33	1.34	1.18	1.26	1.20	1.40	1.38	2.56	2.97	2.43	1.82
20	....	e1.28	1.32	1.18	1.27	1.18	e1.37	1.42	2.76	2.90	2.40	1.82

F179--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	....	1.27	1.31	1.19	1.28	e1.16	1.35	1.48	2.70	2.83	2.37	1.80
22	....	....	1.32	1.19	1.29	e1.14	1.35	1.51	2.62	2.81	2.30	1.79
23	....	....	1.33	1.20	1.30	e1.11	1.34	1.53	2.53	2.81	2.25	1.77
24	....	....	1.33	1.20	1.32	e1.09	1.34	1.64	2.47	2.97	2.20	1.74
25	1.28	....	1.33	1.21	1.34	e1.06	1.33	1.66	2.43	....	2.18	1.72
26	1.28	....	1.33	1.25	1.36	e1.04	1.36	1.69	2.41	....	2.19	e1.68
27	1.29	....	1.38	1.28	1.40	1.03	1.38	1.71	2.38	....	2.18	1.64
28	e1.28	....	1.39	1.29	e1.45	1.03	1.40	1.73	2.40	5.60	2.14	1.64
29	e1.27	1.50	1.39	1.29	1.48	1.04	1.42	1.74	2.40	5.27	2.11	1.62
30	e1.26	....	1.38	1.29	1.50	1.06	1.43	1.77	2.39	5.02	2.08	1.59
31	e1.24	....	1.37	....	1.51	....	1.42	1.80	....	4.83	....	1.58

e Estimated.

F210. City of Miami. Northwest 62d St., and Miami Court, Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 53 S., R. 41 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 112 feet. Land-surface datum is 8.77 feet above msl. Highest water level 7.92 above msl, Oct. 12, 1947; lowest 0.25 above msl, Apr. 6, 1945. Records available: 1940-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.12	0.90	1.14	1.17	0.95	1.42	0.68	1.06	1.43	1.69	4.7 ²	1.70
2	1.07	1.02	1.12	1.14	.93	1.40	.70	1.07	1.38	1.76	4.5 ²	1.68
3	1.03	1.19	1.11	1.11	.92	1.38	.75	1.29	1.30	1.82	4.4 ⁰	1.65
4	1.03	1.20	1.09	1.08	.90	1.35	.93	1.43	1.25	1.90	4.19	1.62
5	1.01	1.18	1.05	1.05	.89	1.32	.99	1.48	1.25	2.10	4.03	1.61
6	1.00	1.14	1.03	1.02	.87	1.26	1.02	1.49	1.23	2.23	3.9 ⁴	1.60
7	.98	1.10	1.02	1.00	.85	1.23	1.03	1.47	1.25	2.33	3.8 ²	1.60
8	.98	1.05	1.00	1.00	.83	1.19	1.03	1.47	1.29	2.37	3.67	1.60
9	1.00	1.03	1.04	.99	.83	1.14	1.03	1.40	1.40	2.41	e3.57	1.59
10	1.00	1.00	1.10	.98	.84	1.10	1.07	1.37	1.43	2.44	e3.47	1.64
11	.97	.99	1.12	.97	.84	1.05	1.10	1.33	1.51	2.50	e3.47	1.74
12	.98	.98	1.11	.97	1.07	1.02	1.10	1.28	1.55	2.77	e3.37	1.72
13	.98	1.00	e1.07	.98	1.00	.98	1.15	1.25	1.56	3.07	e3.23	1.70
14	1.00	1.01	1.08	.95	.94	.96	1.18	1.22	1.57	3.17	e3.15	1.68
15	1.00	1.02	1.08	.90	.90	.92	1.17	1.19	1.55	3.18	e3.07	1.61
16	1.00	1.03	1.03	.88	.87	.97	1.14	1.25	1.53	3.05	e2.97	1.57
17	1.00	1.04	.99	.86	.86	.93	1.12	1.23	1.52	2.95	e2.97	1.53
18	.98	1.00	.99	.86	.85	.90	1.07	1.24	1.58	2.88	e2.81	1.52
19	.97	.97	.97	.86	.85	.87	1.04	1.24	1.62	2.80	e2.72	1.49
20	.96	.95	.94	.87	.87	.83	1.03	1.25	1.65	2.73	e2.63	1.49
21	.96	.94	.92	.88	.88	.80	1.03	1.26	1.64	2.65	e2.55	1.48
22	.98	.92	.93	.87	.85	.85	1.02	1.26	1.62	2.60	e2.4 ⁰	1.45
23	.96	.97	.93	.86	.87	.80	1.00	1.36	1.58	2.57	e2.37	1.44
24	.94	1.00	.93	.85	.88	.77	.97	1.48	1.53	2.76	e2.27	1.42
25	.93	1.05	.91	.83	.90	.75	.96	1.52	1.55	2.84	e2.27	1.39
26	.95	1.11	.94	1.08	.91	.72	.96	1.52	1.52	2.92	e2.11	1.37
27	.95	1.12	1.10	1.10	1.32	.69	1.05	1.52	1.56	e5.73	e2.02	1.35
28	.97	1.13	1.18	1.08	1.37	.66	1.07	1.51	1.62	5.65	e1.87	1.33
29	.99	1.15	1.21	1.06	1.39	.64	1.08	1.50	1.63	5.30	e1.84	1.31
30	.93	....	1.20	.96	1.40	.67	1.08	1.49	1.63	5.18	e1.75	1.30
31	.91	....	1.18	....	1.42	....	1.05	1.48	....	4.98	....	1.29

e Estimated.

F319. Town of South Miami. North First Ave., and Sunset Drive. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 54 S., R. 40 E. Dug unused water-table well in limestone of Biscayne aquifer, size 4 by 4 feet, depth 14 feet, lined with concrete. Land-surface datum is 11.12 feet above msl. Highest water level 8.86 above msl, Oct. 11, 1947; lowest 0.47 above msl, May 19, 1945. Records available: 1940-52.

Daily highest water level, above msl, from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July
1	1.82	1.60	1.82	1.69	1.49	1.58	1.18
2	1.83	1.68	1.81	1.68	1.49	1.58	1.19
3	1.79	1.78	1.79	1.67	....	1.57	1.31
4	1.77	1.80	1.76	1.66	....	1.56	1.37
5	1.75	1.83	1.73	1.65	....	1.55	1.42

F319--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July
6	1.74	1.81	1.69	1.64	....	1.54	1.48
7	1.70	1.77	1.68	1.63	....	1.52	1.52
8	1.70	1.67	1.68	1.62	....	1.50	1.55
9	1.69	1.67	1.68	1.62	....	1.48	1.56
10	1.69	1.66	1.71	1.62	....	1.46	1.57
11	1.67	1.68	1.72	1.62	....	1.42	1.58
12	1.69	1.70	1.71	1.62	....	1.38	1.60
13	1.69	1.72	1.69	1.61	....	1.37	1.63
14	1.69	1.74	1.69	1.60	....	1.36	1.66
15	1.69	1.75	1.69	1.56	....	1.35	1.66
16	1.69	1.75	1.67	1.53	....	1.34	1.65
17	1.68	1.77	1.64	1.50	....	1.33	1.67
18	1.68	1.75	1.63	1.46	....	1.31	1.65
19	1.66	1.74	1.62	1.46	e1.38	1.29	1.65
20	1.66	1.73	1.59	1.45	e1.39	1.27	1.66
21	1.63	1.73	1.59	1.45	e1.40	1.26	1.67
22	1.62	1.72	1.58	1.45	e1.40	1.26	1.69
23	1.62	1.73	1.58	1.45	1.40	1.25	1.69
24	1.61	1.74	1.57	1.43	1.40	1.24	1.69
25	1.60	1.76	1.55	1.41	1.41	1.23	....
26	1.60	1.82	1.58	1.48	1.42	1.21	....
27	1.60	1.83	1.62	1.50	1.43	1.20	....
28	1.59	1.83	1.66	1.50	e1.47	1.19	....
29	1.61	1.83	1.68	1.50	1.50	1.18	....
30	1.60		1.69	1.50	1.54	1.18	....
31	1.59		1.69		1.56		....

e Estimated.

* No record for August, September, October, November, and December.

F358. Town of Homestead. Northwest 6th St., and 2d 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: 1940-52.

Daily highest water level, above msl, from recorder graph¹

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.43	0.91	1.26	2.30	1.77	1.50	....	2.79	4.27	3.76	4.51	2.77
2	1.40	1.08	1.23	2.21	1.74	1.62	....	2.93	4.12	3.73	4.42	2.73
3	1.38	1.40	1.21	2.14	1.70	1.63	3.41	3.87	3.98	3.69	4.34	2.70
4	1.36	1.42	1.19	2.08	1.67	1.70	3.47	3.78	3.86	3.99	4.25	2.66
5	1.34	1.50	1.15	2.03	1.62	1.69	3.41	3.69	3.80	4.09	4.17	2.65
6	1.32	1.52	1.17	1.98	1.57	1.68	3.34	3.57	3.95	4.20	4.08	2.61
7	1.28	1.54	1.21	1.91	1.53	1.66	3.25	3.46	4.07	4.69	4.03	2.58
8	1.27	1.53	1.23	1.85	1.47	1.64	3.14	3.96	4.04	4.79	3.93	2.55
9	1.26	1.54	1.21	1.80	1.40	1.61	3.02	3.74	3.98	4.87	3.86	2.53
10	1.23	1.55	1.19	1.74	1.34	1.56	2.91	3.63	3.91	4.95	3.76	2.58
11	1.18	1.54	1.16	1.66	1.29	1.49	2.83	3.52	3.92	5.02	3.71	2.59
12	1.16	1.53	1.14	1.62	1.27	1.40	2.77	3.67	3.97	5.00	3.67	2.55
13	1.15	1.51	1.11	1.58	1.26	1.37	2.94	3.54	3.98	5.05	3.61	2.53
14	1.13	1.50	1.05	1.54	1.20	1.31	3.18	3.44	3.89	5.07	3.57	2.50
15	1.11	1.48	1.24	1.48	1.14	1.26	3.26	3.40	3.84	5.02	3.52	2.47
16	1.09	1.46	1.27	1.42	1.09	1.60	3.32	3.37	3.77	4.99	3.46	2.44
17	1.08	1.47	1.21	1.37	1.04	1.68	3.80	3.35	3.70	4.94	3.40	2.42
18	1.06	1.44	1.18	1.30	.99	1.66	3.81	3.42	3.66	4.90	3.35	2.41
19	1.05	1.42	1.15	1.24	.92	1.62	3.70	3.36	3.62	4.87	3.30	2.40
20	1.03	1.40	1.11	1.20	.89	1.56	3.58	3.31	4.28	4.83	3.28	2.37
21	1.01	1.37	1.09	1.14	.84	1.50	3.47	3.26	4.31	4.82	3.25	2.33
22	.99	1.35	1.05	1.09	.79	1.46	3.39	3.47	4.22	4.77	3.20	2.31
23	.97	1.32	1.00	1.05	.74	1.86	3.30	3.59	4.14	4.73	3.14	2.27
24	.95	1.30	.97	1.00	.70	1.92	3.25	3.63	4.08	5.09	3.08	2.23
25	.95	1.28	.93	.96	.65	1.92	3.18	3.66	4.04	5.11	3.03	2.21
26	.94	1.26	.90	1.59	.62	1.88	3.10	4.05	4.01	4.96	2.98	2.18
27	.92	1.31	1.22	1.75	.87	1.87	3.03	4.06	3.97	4.93	2.92	2.16
28	.90	1.30	2.00	1.80	.93	....	3.04	3.90	3.91	4.87	2.90	2.14
29	.97	1.29	2.36	1.81	1.00	....	2.96	3.82	3.85	4.77	2.86	2.11
30	.95		2.39	1.78	1.12	....	2.90	4.55	3.79	4.67	2.80	2.11
31	e.93		2.36		1.24		2.85	4.43		4.60		2.09

e Estimated.

G3. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E. Dug and driven water-table well in oolitic limestone of Biscayne aquifer, diameter 6 inches, depth 9 feet, cased to 8. Land-surface datum is 4.88 feet above msl. Affected by pumping of nearby wells. Highest water level 7.64 above msl, Oct. 12, 1947; lowest 0.82 below msl, Feb. 18, 1950. Records available: 1940-52.

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	+0.08	+0.24	+0.45	+0.19	+0.29	+0.52	+0.20	+0.77	+0.44	+1.09	+3.77	+1.43
2	.02	.31	.61	+.07	....	.49	.15	.84	.33	1.55	3.60	1.50
3	.01	.55	.60	....	....	.61	.33	1.06	.29	1.79	3.37	1.41
4	.14	.67	.59	-.14	....	.48	1.59	1.38	.10	1.81	3.20	1.29
5	.13	.58	.47	-.19	....	....	1.46	1.56	.06	2.00	3.08	1.20
6	.28	.42	.40	.16	....	.26	1.25	1.09	.14	2.34	2.65	1.26
7	.31	.41	.43	.01	....	.22	.88	.78	.50	2.35	2.99	1.30
8	.49	.58	.53	-.01	....	.24	.74	.69	.65	2.36	2.63	1.20
9	.49	.30	.57	+.08	.16	.24	.74	.64	.70	2.14	2.79	1.13
10	.51	.20	.44	.21	.11	.33	.75	.59	.61	2.33	2.63	1.19
11	.54	.12	.44	.21	.16	.28	.74	.75	.67	2.04	2.43	1.27
12	.54	.07	.42	.28	.20	e.21	.71	.63	.75	2.04	2.30	1.47
13	.59	+.01	.35	.38	.38	.15	.91	.61	.73	1.96	2.25	1.33
14	.64	-.05	.32	.43	.54	.13	1.08	.46	.73	1.96	2.13	1.39
15	.55	-.05	.34	.31	.40	.13	1.08	.41	.81	2.03	2.09	1.35
16	.44	-.08	.39	.23	.42	.18	.98	.48	.54	2.09	2.04	1.46
17	.43	+.19	.43	....	.22	.06	.81	.46	.41	1.94	1.91	1.31
18	.41	+.09	.51	.15	.08	.03	.59	.44	.50	1.84	1.81	1.35
19	.35	.00	.46	.13	.02	.03	.55	.43	1.27	1.76	1.65	1.10
20	.34	-.02	.50	.07	.05	+.04	.49	.46	1.44	1.74	1.63	1.01
21	.42	-.03	.46	.09	+.02	-.05	.43	.84	1.53	1.74	1.74	.99
22	.36	+.04	.61	+.03	-.02	.00	.40	.81	1.35	1.82	1.72	.99
23	.26	.09	.60	-.01	.08	+.21	.38	.81	.95	1.97	1.81	1.00
24	.22	.09	.51	-.03	.13	.29	.38	.84	.80	2.04	1.55	.99
25	.32	.21	.55	+.02	.16	.34	.45	.82	.88	2.44	1.46	1.05
26	.25	.28	.51	.02	.18	.39	.45	.73	.79	2.39	1.54	.89
27	.28	.19	.64	.25	-.07	.34	.51	.67	.79	2.43	1.51	.79
28	.34	.24	.65	.22	+.17	.33	.76	.65	.93	4.31	1.72	.73
29	.43	.37	.83	.30	.17	.35	.95	.48	.99	4.10	1.59	.72
30	.37	.83	.83	.30	.21	.25	.94	.46	1.04	3.96	1.52	.72
31	.30	.53	.53	.48	.48	.80	.44	.44	3.84	3.84	.69	.69

e Estimated.

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, 1945. Records available: 1940-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.30	3.26	2.99	3.08	2.82	2.64	2.54	2.83	3.17	5.07	5.58	3.98
2	3.29	4.00	3.02	3.02	2.77	2.62	2.79	2.85	3.07	5.13	5.46	3.96
3	3.28	4.15	3.04	2.96	2.74	2.60	4.76	2.77	2.99	4.78	5.34	3.94
4	3.27	3.64	3.06	2.95	2.70	2.56	4.04	3.03	2.95	5.49	5.23	3.92
5	3.26	3.74	3.03	2.90	2.66	2.52	3.68	2.94	2.91	5.66	5.13	3.89
6	3.28	3.43	3.02	2.87	2.62	2.46	3.39	2.82	3.01	5.47	5.05	3.86
7	3.26	3.30	2.99	2.84	2.58	2.44	3.27	2.78	2.93	5.43	4.97	3.85
8	3.25	3.20	2.99	2.81	2.54	2.46	3.48	2.90	3.00	5.35	4.89	3.82
9	3.24	3.14	2.96	2.79	2.56	2.48	3.19	2.93	3.08	5.26	4.82	3.80
10	3.26	3.07	2.94	2.78	2.61	2.42	3.10	3.94	3.30	5.18	4.76	4.54
11	3.24	3.04	2.93	2.76	2.65	2.38	3.02	e3.60	3.76	5.09	4.68	4.23
12	3.24	3.03	2.91	2.76	2.69	2.33	3.11	e3.40	3.71	4.98	4.62	4.13
13	3.24	3.02	2.90	2.75	2.70	2.31	2.99	3.25	3.55	4.93	4.57	4.06
14	3.25	3.04	2.87	2.74	2.66	2.27	3.10	3.10	3.46	4.89	5.00	4.00
15	3.26	3.06	3.26	2.67	2.62	2.34	2.98	3.10	3.36	4.84	4.61	3.91
16	3.25	3.10	3.10	2.64	2.61	2.38	2.92	3.14	3.28	4.82	4.50	3.85
17	3.27	3.20	3.03	2.64	2.58	2.43	3.85	3.08	3.22	4.74	4.44	3.82
18	3.25	3.18	2.98	2.62	2.55	2.44	3.32	3.02	5.67	4.68	4.37	3.80
19	3.24	3.15	2.94	2.61	2.50	2.43	3.17	2.92	5.50	4.60	4.34	3.79
20	3.28	3.12	2.92	2.60	2.71	2.36	3.07	2.87	5.72	4.98	4.37	3.79
21	3.26	3.09	2.92	2.58	2.56	2.32	2.97	3.22	5.29	4.65	4.27	3.77
22	3.25	3.07	2.94	2.56	2.49	2.77	2.94	3.12	5.02	4.73	4.21	3.76
23	3.23	3.07	2.90	2.55	2.44	2.66	2.87	3.23	4.75	4.62	4.17	3.75
24	3.24	3.06	2.87	2.54	2.40	2.63	2.83	3.94	4.52	4.99	4.13	3.74
25	3.28	3.06	2.85	2.53	2.36	2.60	2.81	3.48	5.12	4.71	4.11	3.72

G10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.26	3.08	3.03	3.32	2.34	2.54	2.88	3.39	4.50	4.63	4.09	3.70
27	3.24	3.17	3.23	3.00	2.42	2.52	2.78	3.25	4.36	5.87	4.08	3.67
28	3.21	3.01	3.46	2.92	2.45	2.50	2.96	3.14	4.25	5.90	4.06	3.64
29	3.45	3.00	3.48	2.88	2.61	2.49	2.89	3.06	4.14	5.76	4.02	3.61
30	3.36		3.25	2.86	2.62	2.52	2.84	3.43	4.06	5.85	4.00	3.63
31	3.32		3.14		2.64		2.82	3.31		5.71		3.78

e Estimated.

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, 1949-52.

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	3.07	3.02	3.01	...	2.45	2.34	2.95	3.75	5.23	6.54	4.44
2	3.46	3.18	3.02	3.04	2.60	2.46	2.45	3.10	3.74	5.16	6.43	4.40
3	3.45	3.24	3.00	3.07	2.62	2.47	2.48	3.11	3.71	5.09	6.31	4.36
4	3.42	3.27	2.98	3.08	2.64	2.49	2.55	3.14	3.68	5.48	6.21	4.31
5	3.40	3.31	2.97	3.09	2.63	2.49	2.63	3.18	3.62	7.65	6.10	4.27
6	3.39	3.33	2.96	3.08	2.61	2.50	2.70	...	3.58	7.46	6.01	4.23
7	3.36	3.34	2.86	3.06	2.57	2.48	2.75	...	3.55	7.69	5.91	4.19
8	3.34	3.35	2.95	3.03	2.53	2.46	2.78	3.22	3.53	7.44	5.83	4.15
9	3.32	3.33	2.94	2.97	2.51	2.43	2.80	3.22	3.52	7.52	5.74	4.12
10	3.30	3.30	2.92	2.94	2.50	2.41	2.82	3.28	3.53	7.26	5.66	4.11
11	3.28	3.28	2.90	2.89	2.49	2.37	2.83	3.32	3.56	7.10	5.58	4.10
12	3.27	3.26	2.89	2.86	2.47	2.33	2.85	3.37	3.58	6.93	5.50	4.09
13	3.26	3.22	2.88	2.84	2.46	2.30	2.87	3.40	3.60	6.83	5.43	4.08
14	3.24	3.21	2.87	2.79	2.46	2.27	2.87	3.42	3.62	6.72	5.36	4.07
15	3.23	3.18	2.89	2.76	2.46	2.28	2.88	3.42	3.63	6.58	5.31	4.04
16	3.22	3.16	2.88	e2.73	2.47	2.25	2.88	3.40	3.62	6.46	5.24	4.02
17	3.20	3.16	2.86	e2.70	2.46	2.24	2.98	3.39	3.61	6.33	5.18	3.99
18	3.18	3.14	2.84	e2.68	2.46	2.23	3.00	3.38	3.65	6.22	5.11	3.97
19	3.17	3.13	2.84	2.68	2.44	2.22	3.05	3.36	3.62	6.12	5.05	3.95
20	3.16	3.12	2.83	2.66	2.46	2.21	3.09	3.35	3.56	6.02	5.00	3.93
21	3.14	3.10	2.82	2.63	2.44	2.22	3.12	3.33	3.64	5.92	4.95	3.93
22	3.14	3.10	2.81	2.60	2.42	2.25	3.13	3.34	3.62	5.86	4.90	3.90
23	3.13	3.09	2.81	2.57	2.40	2.25	3.12	3.34	3.60	5.78	4.85	3.89
24	3.12	3.08	2.79	2.54	2.38	2.25	3.11	3.50	3.59	5.87	4.79	3.87
25	3.10	3.06	2.77	2.52	2.36	2.38	3.06	3.61	3.54	5.89	4.74	3.86
26	3.10	3.07	2.80	2.57	2.34	2.40	3.03	3.66	3.51	5.84	4.69	3.83
27	3.08	3.04	2.83	2.56	2.38	2.40	3.01	3.68	3.58	5.82	4.64	3.82
28	3.09	e3.03	2.86	2.54	2.35	2.38	3.00	3.69	3.56	5.81	4.60	3.81
29	3.07	3.03	2.90	2.55	2.36	2.39	2.97	3.66	3.53	5.83	4.54	3.78
30	3.06		2.94	2.56	2.38	2.38	2.95	3.72	3.52	6.72	4.50	3.78
31	3.05		2.98		2.41		2.94	3.74		6.63		3.76

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: 1940-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.96	5.66	5.46	4.88	3.80	4.10	4.73	5.20	5.70	5.96	6.88	6.62
2	5.96	5.65	5.44	4.83	3.72	3.93	4.70	5.18	5.70	6.15	6.88	6.60
3	5.95	5.74	5.39	4.76	3.65	3.86	4.90	5.44	5.68	6.14	6.88	6.60
4	5.94	5.73	5.37	4.69	3.58	3.78	5.06	5.50	5.67	6.24	6.87	6.59
5	5.93	5.77	5.35	4.61	3.52	3.70	5.06	5.53	5.66	6.20	6.86	6.58
6	5.92	5.76	5.34	4.54	3.46	3.61	5.11	5.54	5.64	6.20	6.85	6.57
7	5.89	5.75	5.33	4.48	3.38	3.58	5.14	5.56	5.63	6.22	6.85	6.56
8	5.88	5.73	5.30	4.39	3.34	3.64	5.16	5.66	5.68	6.23	6.84	6.54
9	5.86	5.72	5.27	4.31	3.44	3.60	5.16	5.63	5.67	6.26	6.83	6.53
10	5.85	5.71	5.24	4.22	3.50	3.58	5.14	5.65	5.66	6.27	6.81	6.66
11	5.84	5.66	5.20	4.15	3.59	3.52	5.08	5.72	5.73	6.28	6.81	6.61
12	5.84	5.65	5.17	4.09	3.74	3.46	5.11	5.73	5.74	6.34	6.80	6.61
13	5.83	5.63	5.12	4.08	3.75	3.41	5.16	5.72	5.75	6.36	6.79	6.59
14	5.83	5.62	5.09	4.04	3.73	3.34	5.18	5.71	5.75	6.37	6.79	6.57
15	5.81	5.60	5.11	4.00	3.70	3.29	5.15	5.70	5.76	6.44	6.77	6.56

G72--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	5.80	5.59	5.07	3.94	3.66	3.25	5.13	5.76	5.75	6.43	6.76	6.54
17	5.78	5.61	5.04	3.89	3.64	3.34	5.39	5.73	5.74	6.43	6.75	e6.53
18	5.77	5.62	4.97	3.83	3.59	3.96	5.41	5.72	5.82	6.44	6.73	e6.52
19	5.77	5.61	4.92	3.78	3.53	4.14	5.40	5.73	5.83	6.47	6.72	e6.50
20	5.76	5.58	4.87	3.74	3.46	4.27	5.46	5.75	5.84	6.46	6.71	e6.49
21	5.74	5.58	4.82	3.68	3.43	4.24	5.43	5.75	5.84	6.46	6.71	e6.48
22	5.73	5.56	4.75	3.64	3.39	4.80	5.41	5.74	5.85	6.45	6.70	6.47
23	5.72	5.54	4.71	3.59	3.35	4.94	5.39	5.74	5.86	6.50	6.69	6.46
24	5.71	5.53	4.67	3.54	3.32	4.98	5.38	5.74	5.87	6.55	6.68	6.45
25	5.70	5.53	4.60	3.80	3.26	5.14	5.36	5.73	5.90	6.57	6.67	6.44
26	5.68	5.51	4.79	4.27	3.47	5.09	5.32	5.73	5.89	6.59	6.67	6.44
27	5.67	5.51	4.94	4.14	3.94	5.06	5.29	5.72	5.90	6.69	6.66	6.43
28	5.64	5.50	5.00	4.05	3.97	4.99	5.25	5.71	5.90	6.90	6.66	6.43
29	5.70	5.48	5.02	3.96	3.87	4.90	5.25	5.71	5.91	6.90	6.64	6.41
30	5.69		4.98	3.89	3.96	4.80	5.24	5.70	5.91	6.89	6.83	6.40
31	5.67		4.94		3.86		5.22	5.70		6.88		6.39

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. 17, 1947; lowest 1.20 above msl, May 19, 1945. Records available: 1945-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.54	5.29	4.59	4.38	3.55	3.51	3.45	3.89	4.98	5.66	6.47	5.84
2	5.54	5.25	4.53	4.29	3.47	3.48	3.75	4.20	4.91	5.70	6.43	5.83
3	5.54	5.35	4.47	4.20	3.35	3.44	4.53	4.50	4.78	5.74	6.40	5.82
4	5.53	5.35	4.45	4.10	3.31	3.39	4.54	4.54	4.70	5.75	6.37	5.81
5	5.52	5.38	4.34	4.01	3.25	3.32	4.53	4.49	4.84	5.80	e6.33	5.78
6	5.50	5.38	4.30	3.95	3.20	3.26	4.48	4.40	4.58	5.80	e6.30	5.77
7	5.50	5.38	4.26	3.86	3.12	3.20	4.72	4.30	4.50	5.85	e6.27	5.75
8	5.50	5.38	4.22	3.78	3.08	3.20	4.75	4.92	4.75	5.87	e6.23	5.75
9	5.50	5.34	4.15	3.70	3.23	3.20	4.69	5.07	4.84	5.93	e6.20	5.81
10	5.48	5.34	4.10	3.61	3.42	3.15	4.61	5.08	4.88	5.94	e6.17	5.87
11	5.47	5.31	4.06	3.55	3.47	3.09	4.65	5.10	5.03	5.94	e6.14	5.87
12	5.45	5.28	4.04	3.50	3.42	3.03	4.55	5.22	5.03	....	e6.12	5.66
13	5.42	5.24	4.00	3.50	3.35	2.97	4.79	5.22	5.01	....	e6.10	5.84
14	5.41	5.22	3.98	3.48	3.28	2.88	4.74	5.17	4.96	....	e6.08	5.82
15	5.41	5.19	4.20	3.41	3.21	3.37	4.63	5.25	4.98	....	e6.05	5.80
16	5.40	5.14	4.14	3.36	3.17	3.87	4.55	5.27	4.98	5.97	e6.03	5.78
17	5.40	5.18	4.05	e3.33	3.11	3.71	4.85	5.27	4.98	5.97	e6.01	5.77
18	5.40	5.15	3.98	3.31	3.07	3.53	4.82	5.25	5.29	5.95	e6.00	5.75
19	5.38	5.15	3.91	3.26	3.02	3.43	4.71	5.20	5.39	5.94	e5.98	5.75
20	5.37	5.12	3.88	3.22	3.00	3.33	4.61	5.15	5.45	5.95	e5.95	5.75
21	5.36	5.08	3.85	e3.17	2.98	3.22	4.50	5.12	5.45	5.96	e5.93	5.72
22	5.34	5.03	3.81	e3.13	2.95	3.68	4.41	5.10	5.45	5.97	e5.91	5.71
23	5.32	5.00	3.76	3.09	2.90	3.64	4.30	5.17	5.45	5.97	e5.91	5.70
24	5.27	4.90	3.70	3.09	2.85	3.56	4.22	5.23	5.52	6.00	e5.90	5.70
25	5.28	4.89	....	3.10	2.81	3.46	4.14	5.18	5.58	6.01	e5.89	5.67
26	5.28	4.82	e3.65	3.90	2.92	3.38	4.05	5.15	5.63	6.01	e5.87	5.67
27	5.26	4.78	4.28	3.92	3.52	3.34	3.98	5.10	....	6.51	e5.86	5.64
28	5.26	4.72	4.62	3.82	3.57	3.30	4.10	5.08	....	e6.51	5.87	5.64
29	5.29	4.66	4.62	3.73	3.58	3.28	4.05	5.08	5.63	6.51	5.87	5.64
30	5.30		4.57	3.64	3.58	3.48	4.00	5.03	5.63	6.50	5.85	5.62
31	5.30		e4.45		3.56		3.92	5.00		6.49		5.81

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 27, 1945. Records available: 1944-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.93	2.89	2.69	2.71	2.69	2.41	2.36	2.66	2.82	2.89	4.40	3.01
2	2.92	2.92	2.74	2.76	2.65	2.42	2.37	2.61	2.82	3.05	4.21	3.00
3	2.92	2.98	2.77	2.75	2.61	2.42	2.68	2.61	2.77	3.07	4.10	2.98
4	2.90	2.72	2.79	2.74	2.56	2.42	2.81	2.76	2.73	3.22	4.01	2.96
5	2.89	2.60	2.80	2.72	2.53	2.40	2.53	2.73	2.71	....	3.94	2.97

G350--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	2.88	2.53	2.80	2.71	2.50	2.37	2.38	2.65	2.70	....	3.82	2.98
7	2.90	2.46	2.80	2.69	2.46	2.35	2.27	2.60	2.69	....	3.72	2.98
8	2.88	2.37	2.80	2.68	2.43	2.34	2.32	2.60	2.67	....	3.63	2.95
9	2.87	....	2.80	2.67	2.41	2.32	2.59	2.62	2.66	....	3.58	2.93
10	2.87	....	2.79	2.66	2.42	2.28	2.70	2.76	2.65	3.81	3.53	3.02
11	2.88	....	2.79	2.66	2.43	2.23	2.65	2.90	2.57	3.70	3.46	3.09
12	2.88	....	2.78	2.66	2.44	2.19	2.66	2.87	2.54	3.62	3.40	3.03
13	2.88	....	2.76	2.65	2.45	2.17	2.65	2.81	2.53	3.59	3.36	3.01
14	2.88	....	2.76	2.65	2.46	2.16	2.68	2.77	2.49	3.57	3.34	3.01
15	2.89	2.67	2.77	2.57	2.46	2.14	2.77	2.75	2.52	3.55	3.35	2.92
16	2.88	....	2.82	2.54	2.45	2.16	2.64	2.74	2.61	3.49	....	2.89
17	2.90	....	2.83	2.56	2.43	2.17	2.60	2.69	2.66	3.40	....	2.87
18	2.89	....	2.82	2.56	2.42	2.17	2.69	2.65	....	3.39	....	2.87
19	2.88	2.82	2.81	2.55	2.35	2.17	2.67	2.58	e3.75	....	....	2.86
20	2.91	2.80	2.79	2.54	2.36	2.09	2.68	2.56	4.07	....	....	2.85
21	2.92	2.80	2.77	2.53	2.35	2.10	2.66	2.77	3.50	....	3.20	2.84
22	2.91	2.79	2.79	2.52	2.33	2.14	2.69	2.80	3.26	....	....	2.82
23	2.90	2.79	2.78	2.51	2.32	2.28	2.72	2.82	3.12	....	....	2.80
24	2.89	2.79	2.78	2.48	2.30	2.32	2.59	3.04	e3.00	3.45	....	2.78
25	2.88	2.79	2.77	2.47	2.26	2.33	2.58	3.12	e2.90	3.50	....	2.76
26	2.88	2.80	2.76	2.48	2.24	2.36	2.56	2.97	2.92	3.50	....	2.73
27	2.87	2.75	2.60	2.39	2.24	2.36	2.58	2.80	2.90	4.95	....	2.73
28	2.86	2.70	2.52	2.56	2.29	2.35	2.69	2.77	2.87	4.95	3.06	2.72
29	2.94	2.67	2.54	2.67	2.32	2.35	2.73	2.68	2.8 ^d	4.55	3.04	....
30	2.94	....	2.52	2.71	2.34	2.35	2.60	2.73	2.7 ^f	4.37	3.03	....
31	2.92	....	2.53	....	2.39	....	2.65	2.81	....	4.34	....	....

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. Affected by tides in Biscayne Bay. Highest water level 6.55 above msl, Sept. 24, 1948; lowest 0.18 above msl, June 29, 1950. Records available: 1947-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.39	1.08	1.26	1.07	0.94	1.40	0.76	1.12	1.62	2.23	3.30	1.88
2	1.27	1.20	1.20	.87	.98	1.28	.84	1.09	1.61	2.29	3.18	1.87
3	1.19	1.37	1.16	.82	.96	1.36	1.12	1.04	1.63	2.39	2.98	1.84
4	1.10	1.12	1.10	.92	.98	1.33	1.18	1.07	1.6 ^d	2.44	2.90	1.87
5	1.02	.98	.92	.90	.96	1.31	1.24	1.16	1.72	2.51	2.79	1.87
6	.92	.86	.96	.92	.91	1.22	1.28	1.26	1.78	2.50	2.71	1.90
7	.97	.87	1.00	1.01	.88	1.12	1.23	1.36	1.78	2.47	2.59	2.04
8	1.04	.97	1.22	1.10	.84	1.16	1.26	1.36	1.7 ^e	2.41	2.52	2.02
9	1.09	.93	1.31	1.20	.90	1.11	1.28	1.32	1.77	2.33	2.41	1.87
10	1.08	1.00	1.46	1.20	.96	1.04	1.25	1.20	1.83	2.26	2.36	1.87
11	1.28	1.02	1.44	1.20	1.00	1.04	1.24	1.19	1.94	2.27	2.17	1.70
12	1.25	1.07	1.21	1.22	.97	.97	1.24	1.12	2.08	2.35	2.04	1.65
13	1.20	1.08	1.18	1.26	.98	.96	1.36	1.07	2.14	2.46	2.02	1.66
14	1.23	1.13	1.11	1.17	.90	1.05	1.44	1.03	2.06	2.51	2.02	1.67
15	1.20	1.24	1.09	.92	.90	.97	1.28	1.00	2.00	2.57	2.02	1.52
16	1.16	1.14	.91	.79	.90	.94	1.15	1.15	1.90	2.56	2.05	1.44
17	1.14	1.08	.93	.84	.97	.91	1.10	1.20	1.92	2.44	2.11	1.57
18	1.11	.99	1.04	.89	1.00	.89	1.11	1.24	1.92	2.50	2.14	1.61
19	1.00	.98	.97	1.00	1.06	.85	1.14	1.31	1.89	2.51	2.15	1.63
20	1.02	.94	.84	1.05	1.14	.82	1.22	1.38	1.81	2.44	2.13	1.64
21	1.03	.94	.92	1.09	1.14	.85	1.24	1.45	1.79	2.58	1.98	1.51
22	1.07	.98	1.02	1.11	1.14	.76	1.21	1.45	1.76	2.71	1.90	1.51
23	1.05	1.09	1.02	1.11	1.19	.72	1.16	1.45	1.72	2.71	1.79	1.43
24	1.02	1.26	1.04	1.02	1.26	.68	1.15	1.48	1.72	2.71	1.86	1.36
25	1.08	1.52	.94	.94	1.29	.65	1.20	1.52	1.78	2.92	2.04	1.34
26	1.10	1.60	.97	1.02	1.28	.61	1.23	1.56	1.84	3.05	2.07	1.25
27	1.10	1.44	1.09	1.03	1.24	.62	1.28	1.65	1.92	3.31	1.95	1.28
28	1.08	1.31	1.06	.96	1.34	.60	1.32	1.71	2.01	3.43	1.85	1.30
29	1.06	1.29	1.10	.90	1.43	.60	1.32	1.61	2.06	3.35	1.89	1.26
30	1.02	....	1.09	.85	1.49	.68	1.27	1.65	2.08	3.31	1.84	1.31
31	.98	....	1.08	....	1.42	....	1.21	1.68	....	3.32	....	1.25

G476--Continued.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.96	0.74	0.84	0.65	0.69	1.06	0.39	0.71	1.23	1.75	2.93	1.45
2	.83	.80	.86	.53	.71	.98	.43	.63	1.21	1.84	2.78	1.50
3	.76	.88	.84	.59	.66	1.03	.76	.60	1.17	1.83	2.60	1.47
4	.67	.76	.70	.65	.70	.96	.78	.64	1.23	2.00	2.51	1.50
5	.69	.60	.58	.56	.59	.90	.86	.72	1.26	2.04	2.45	1.54
6	.56	.54	.59	.51	.50	.77	.87	.78	1.33	2.10	2.37	1.57
7	.52	.50	.66	.60	.40	.68	.79	.96	1.39	2.09	2.29	1.76
8	.63	.67	.79	.70	.38	.72	.77	.92	1.37	2.08	2.24	1.65
9	.70	.61	.95	.80	.42	.59	.85	.86	1.42	2.02	2.17	1.62
10	.74	.53	1.10	.75	.46	.59	.82	.80	1.47	1.98	2.01	1.56
11	.63	.64	.94	.77	.54	.54	.84	.80	1.64	1.99	1.82	1.38
12	.93	.64	.82	.76	.54	.55	.91	.76	1.82	2.09	1.76	1.37
13	.85	.72	.68	.80	.50	.56	1.07	.73	1.83	2.16	1.74	1.32
14	.89	.74	.71	.57	.50	.68	1.08	.68	1.78	2.25	1.69	1.32
15	.79	.77	.54	.40	.50	.57	.89	.65	1.68	2.27	1.71	1.22
16	.81	.74	.50	.45	.60	.58	.79	.68	1.54	2.25	1.66	1.11
17	.79	.61	.56	.50	.63	.43	.72	.87	1.59	2.15	1.70	1.04
18	.74	.63	.69	.52	.63	.40	.81	.90	1.57	2.12	1.77	1.19
19	.68	.60	.47	.61	.66	.43	.77	.98	1.56	2.15	1.75	1.20
20	.69	.59	.49	.67	.75	.37	.85	1.02	1.48	2.09	1.72	1.20
21	.70	.55	.50	.61	.73	.36	.89	1.12	1.47	2.03	1.60	1.12
22	.70	.50	.65	.62	.69	.31	.81	1.10	1.43	2.27	1.51	1.12
23	.72	.63	.65	.60	.75	.30	.80	1.11	1.37	2.32	1.46	1.01
24	....	.69	.52	.53	.85	.22	.77	1.13	1.40	2.35	1.55	1.01
25	.76	.89	.44	.45	.92	.24	.85	1.16	1.45	2.52	1.70	.94
26	.66	1.08	.49	.58	.87	.21	.94	1.21	1.52	2.74	1.61	.93
27	.68	.78	.62	.55	.92	.24	.97	1.32	1.53	2.88	1.52	.89
28	.62	.91	.70	.53	1.04	.23	1.04	1.37	1.71	3.08	1.51	.92
29	.56	.92	.71	.46	1.18	.28	.98	1.27	1.70	2.95	1.48	.90
30	.57	.74	.54	1.18	.31	.94	1.30	1.68	2.94	1.44	.88	.86
31	.51	.76	1.14	1.14	.87	1.32	2.95	1.68	2.95	1.44	.88	.86

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. Water level affected by tides in Miami Canal. Highest water level 6.27 above msl, Oct. 12, 1947; lowest 0.29 above msl, Mar. 15, 1950. Records available: 1947-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.25	1.01	1.39	1.06	1.11	1.46	0.95	1.30	1.54	2.64	3.23	1.73
2	1.15	1.35	1.36	1.03	1.17	1.42	1.35	1.30	1.46	2.49	3.08	1.74
3	1.08	1.44	1.36	.97	1.16	1.44	1.84	1.28	1.42	2.42	2.87	1.72
4	1.03	1.22	1.34	1.02	1.16	1.43	1.79	1.27	1.40	2.53	2.73	1.71
5	1.04	1.12	1.21	1.02	1.15	1.39	1.68	1.31	1.49	3.25	2.67	1.72
6	.99	.94	1.13	1.01	1.11	1.30	1.61	1.37	1.51	3.16	2.56	1.76
7	.96	.94	1.13	1.07	1.07	1.28	1.51	1.43	1.52	2.78	2.47	1.82
8	1.10	.96	1.16	1.18	1.02	1.27	1.51	1.41	1.54	2.55	2.37	1.82
9	1.18	.94	1.23	1.23	1.02	1.21	1.53	1.36	1.52	2.41	2.25	1.74
10	1.18	.95	1.37	1.24	e1.06	1.16	1.50	1.28	1.59	2.34	2.21	1.89
11	1.23	.98	1.35	1.25	e1.08	1.13	1.46	1.25	1.77	2.20	2.08	1.89
12	1.26	1.02	1.25	1.26	....	1.10	1.43	1.23	1.82	2.21	1.97	1.73
13	1.25	1.04	1.23	1.28	....	1.08	1.45	1.18	1.83	2.30	1.95	1.75
14	1.29	1.07	1.34	1.26	....	1.06	1.44	1.14	1.76	2.39	1.98	1.75
15	1.29	1.08	1.27	1.12	....	.99	1.43	1.16	1.69	2.42	1.98	1.61
16	1.23	1.06	1.18	1.03	.96	1.01	1.36	1.22	1.62	2.38	1.95	1.54
17	1.23	1.05	1.14	1.02	.99	1.01	1.31	1.25	1.63	2.24	1.95	1.61
18	1.22	.92	1.21	1.04	1.00	.98	1.17	1.27	1.94	2.24	1.96	1.60
19	1.17	.93	1.21	1.07	1.04	.97	1.15	1.34	1.93	2.22	2.03	1.60
20	1.15	.96	1.19	1.09	1.07	.94	1.23	1.49	1.93	2.20	2.02	1.62
21	1.15	.99	1.24	1.12	1.09	.95	1.26	1.52	1.85	2.17	1.96	1.55
22	1.18	1.03	1.29	1.12	1.09	.89	1.29	1.54	1.75	2.34	1.85	1.55
23	1.15	1.18	1.29	1.09	1.10	.87	1.27	1.56	1.66	2.34	1.76	1.49
24	1.03	1.30	1.32	1.05	1.12	.86	1.29	1.55	1.62	2.50	1.77	1.43
25	1.06	1.40	1.27	1.02	1.14	.87	1.29	1.56	1.64	2.53	1.88	1.40

G490--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep ^a .	Oct.	Nov.	Dec.
26	1.09	1.41	1.27	1.17	1.15	0.85	1.33	1.57	1.6 ^a	2.53	1.91	1.34
27	1.09	1.40	1.25	1.09	1.18	.85	1.37	1.60	1.9 ^a	4.76	1.84	1.36
28	1.19	1.30	1.22	1.09	1.26	.83	1.40	1.63	1.9 ^a	4.15	1.76	1.37
29	1.15	1.37	1.20	1.08	1.38	.82	1.41	1.55	1.9 ^a	3.65	1.78	1.31
30	1.02	1.09	1.09	1.08	1.44	.86	1.40	1.61	1.9 ^a	3.38	1.73	1.35
31	.94		1.05		1.45		1.38	1.66		3.28		1.35

e Estimated.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep ^a .	Oct.	Nov.	Dec.
1	0.96	0.82	1.21	0.88	1.11	1.32	0.82	1.11	1.23	1.63	2.88	1.47
2	.86	.90	1.20	.82	1.05	1.28	.87	1.11	1.15	2.09	2.74	1.45
3	.85	1.08	1.21	.86	1.04	1.29	1.21	1.08	1.13	2.03	2.58	1.50
4	.82	.96	1.13	.87	1.04	1.25	1.50	1.04	1.14	2.10	2.46	1.48
5	.82	.79	.99	.88	1.01	1.19	1.40	1.08	1.20	2.12	2.40	1.49
6	.79	.73	.99	.85	.94	1.12	1.35	1.14	1.30	2.59	2.32	1.54
7	.77	.68	.99	.88	.88	1.10	1.23	1.21	1.30	2.36	2.22	1.62
8	.77	.66	1.04	.98	.83	1.06	1.30	1.16	1.31	2.25	2.12	1.61
9	.92	.74	1.03	1.06	.82	.99	1.34	1.10	1.26	2.14	2.06	1.58
10	1.00	.67	1.13	1.05	e.88	.97	1.30	1.04	1.32	2.06	1.98	1.62
11	.92	.73	1.15	1.06	e.90	.95	1.26	1.02	1.51	2.00	1.84	1.54
12	1.08	.76	1.08	1.06	....	.94	1.25	1.01	1.60	2.01	1.77	1.54
13	1.05	.81	1.07	1.09	....	.91	1.24	.98	1.58	2.03	1.73	1.51
14	1.10	.84	1.09	1.00	....	.88	1.17	.94	1.53	2.10	1.71	1.51
15	1.07	.87	1.05	.91	....	.83	1.20	.95	1.43	2.14	1.73	1.39
16	1.06	.85	.98	.88	.83	.85	1.15	1.04	1.38	2.05	1.68	1.32
17	1.06	.80	.98	.87	.83	.82	1.08	1.05	1.39	2.98	1.67	1.26
18	1.03	.78	1.05	.89	.85	.80	.95	1.07	1.41	2.94	1.66	1.35
19	1.00	.78	1.04	.91	.89	.81	.96	1.12	1.63	2.91	1.70	1.33
20	.99	.80	1.04	.93	.91	.76	1.04	1.18	1.63	2.87	1.76	1.35
21	.96	.80	1.06	.94	.93	.76	1.10	1.32	1.55	2.87	1.66	1.29
22	.97	.78	1.09	.92	.92	.77	1.13	1.34	1.46	2.87	1.57	1.28
23	.88	.88	1.13	.89	.94	.72	1.11	1.32	1.39	2.06	1.51	1.22
24	.86	1.00	1.12	.84	.95	.72	1.13	1.32	1.37	2.05	1.56	1.19
25	.80	1.10	1.08	.83	.98	.73	1.16	1.32	1.3 ^a	2.21	1.58	1.13
26	.83	1.17	1.07	.87	1.01	.72	1.22	1.31	1.4 ^a	2.22	1.62	1.15
27	.86	.93	.99	.84	1.07	.72	1.25	1.38	1.4 ^a	2.36	1.56	1.12
28	.87	1.01	1.00	.93	1.14	.70	1.29	1.39	1.6 ^a	3.61	1.54	1.13
29	.80	1.18	.90	.95	1.23	.71	1.27	1.30	1.6 ^a	3.25	1.51	1.09
30	.75		.83	.97	1.31	.75	1.26	1.33	1.6 ^a	3.07	1.48	1.08
31	.72		.88		1.32		1.20	1.37		2.93		1.12

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. Water level affected by tides in Gculds Canal. Highest water level 4.69 above msl, Oct. 14, 1950; lowest 0.43 above msl, July 2, 1950. Records available: 1947-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.33	1.04	1.24	1.64	1.22	1.90	0.75	1.84	2.89	3.61	3.30	1.86
2	1.30	2.00	1.16	1.64	1.16	1.90	1.28	1.94	2.72	3.61	3.27	1.85
3	1.26	2.00	1.13	1.49	1.10	1.84	3.75	2.21	2.30	3.42	3.16	1.80
4	1.20	1.54	1.10	1.41	1.07	1.82	e3.85	2.36	2.15	3.60	3.06	1.82
5	1.17	1.48	1.06	1.34	1.03	1.72	....	2.36	2.12	4.07	2.98	1.87
6	1.15	1.42	1.02	1.29	.99	1.58	....	2.28	2.14	3.73	2.91	1.80
7	1.14	1.42	1.02	1.29	.95	1.47	....	2.17	2.16	3.62	2.84	1.87
8	1.14	1.41	1.07	1.28	.91	1.72	....	2.28	2.47	3.41	2.78	1.85
9	1.14	1.37	1.07	1.27	.89	1.72	....	2.28	2.45	3.41	2.73	1.78
10	1.13	1.34	1.05	1.23	.87	1.64	....	2.17	2.43	....	2.73	2.45
11	1.10	1.30	1.05	1.22	.86	1.50	....	2.05	2.72	....	2.81	2.20
12	1.13	1.28	1.03	1.18	.90	1.37	1.94	1.94	2.62	....	2.87	1.91
13	1.12	1.26	1.00	1.17	.92	1.25	2.19	1.85	2.54	....	2.88	1.83
14	1.11	1.26	.96	1.17	.90	1.18	2.22	1.76	2.40	....	2.90	1.78
15	1.10	1.24	1.19	1.16	.84	1.09	2.17	1.69	2.37	....	2.71	1.64

G518--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	1.08	1.22	1.28	1.08	0.79	1.02	2.01	1.78	2.30	....	2.58	1.59
7	1.08	1.27	1.26	1.01	.81	.95	4.21	1.83	2.24	....	2.49	1.71
8	1.06	1.27	1.17	.99	.79	.88	3.14	2.08	2.20	3.18	2.39	1.81
9	1.04	1.23	1.09	.98	.77	.86	2.42	2.09	2.28	3.13	2.28	1.85
0	1.02	1.20	1.00	.96	.98	.80	2.10	2.05	2.99	3.08	2.22	1.87
1	1.01	1.16	.95	.96	1.01	.75	1.95	1.95	2.82	3.08	2.15	1.88
2	1.01	1.16	.91	.94	.94	.68	....	2.13	2.62	3.21	2.04	1.87
3	.99	1.16	.88	.93	.83	.68	....	2.15	2.52	3.21	1.94	1.86
4	1.02	1.16	.86	.88	.73	.65	....	2.17	2.46	4.49	1.95	1.85
5	1.09	1.17	.83	.84	.70	.60	1.80	3.04	2.81	4.49	2.00	1.84
6	1.09	1.29	.96	1.59	.69	.58	1.78	2.90	2.63	4.08	2.00	1.81
7	1.04	1.33	1.50	1.64	.76	.61	1.72	2.73	2.53	4.27	1.93	1.79
8	1.00	1.33	4.12	1.58	.83	.72	1.84	2.53	....	4.01	1.89	1.78
9	1.13	1.30	3.32	1.44	1.13	.73	1.87	2.38	....	3.67	1.90	1.76
0	1.14		2.16	1.32	1.31	.73	1.96	3.06	....	3.43	1.83	1.86
1	1.08		1.80		1.31		1.96	3.05		3.33		1.85

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	1.29	0.99	1.16	1.52	1.16	1.31	0.69	1.77	2.72	....	3.14	1.67
2	1.24	.99	1.13	1.39	1.10	1.84	.69	1.77	2.30	....	3.11	1.69
3	1.20	1.54	1.10	1.36	1.07	1.75	1.28	1.94	2.13	....	3.01	1.63
4	1.16	1.42	1.06	1.32	1.03	1.72	e2.34	2.21	2.06	3.35	2.94	1.64
5	1.15	1.34	1.02	1.29	.99	1.58	....	2.28	1.98	3.16	2.88	1.64
6	1.13	1.31	1.01	1.26	.95	1.43	....	2.17	1.96	3.08	2.83	1.64
7	1.12	1.40	1.01	1.25	.91	1.38	....	2.06	2.04	3.56	2.76	1.78
8	1.12	1.37	1.02	1.24	.88	1.47	....	2.06	2.02	3.58	2.71	1.65
9	1.12	1.34	1.02	1.23	.86	1.64	....	2.17	2.32	....	2.67	1.63
0	1.09	1.30	1.02	1.20	.84	1.50	....	2.05	2.32	3.21	2.65	1.65
1	1.07	1.28	1.01	1.18	.84	1.37	1.84	1.94	2.36	3.17	2.73	1.85
2	1.10	1.26	.99	1.15	.84	1.25	1.83	1.85	2.52	....	2.81	1.78
3	1.08	1.24	.95	1.14	.90	1.18	1.94	1.76	2.40	....	2.80	1.73
4	1.08	1.24	.93	1.14	.84	1.09	2.17	1.69	2.37	....	2.71	1.62
5	1.06	1.22	.92	1.08	.78	1.02	2.01	1.66	2.30	....	2.58	1.53
6	1.06	1.20	1.19	1.01	.78	.95	1.90	1.66	2.24	....	2.49	1.47
7	1.05	1.20	1.17	.97	.78	.88	1.86	1.78	2.20	3.14	2.36	1.44
8	1.04	1.23	1.09	.96	.76	.86	2.42	1.80	2.18	3.11	2.22	1.71
9	1.02	1.20	1.00	.96	.74	.80	2.10	2.05	2.28	3.01	2.12	1.84
0	1.01	1.16	.95	.94	.74	.75	1.95	1.95	2.62	2.99	2.04	1.84
1	1.00	1.15	.91	.92	.94	.68	....	1.87	2.48	2.88	1.94	1.85
2	.99	1.14	.88	.90	.83	.66	....	1.87	2.42	3.01	1.85	1.85
3	.96	1.13	.86	.88	.73	.65	....	2.12	2.37	3.06	1.81	1.84
4	.96	1.12	.83	.84	.68	.60	....	2.15	2.32	3.09	1.81	1.83
5	1.02	1.12	.81	.80	.66	.57	1.78	2.15	2.53	4.08	1.83	1.81
6	1.04	1.17	.80	.80	.66	.54	1.72	2.70	....	3.78	1.80	1.79
7	.98	1.29	.96	1.58	.68	.54	1.69	2.53	....	3.78	1.77	1.76
8	.93	1.30	1.47	1.44	.76	.61	1.69	2.38	....	3.67	1.76	1.76
9	1.00	1.24	2.16	1.32	.83	.68	1.84	2.23	....	3.43	1.73	1.74
0	1.08		1.68	1.22	1.13	.68	1.84	2.19	....	3.31	1.69	1.74
1	1.02		1.62		1.30		1.84	2.89		3.22		1.82

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: 1947-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.69	4.25	4.11	4.03	3.51	3.27	3.22	4.09	4.93	6.50	7.47	e6.02
2	4.67	4.24	4.07	4.03	3.50	3.28	3.24	4.08	4.90	6.38	7.38	e6.00
3	4.66	4.52	4.07	4.00	3.47	3.28	3.27	4.08	4.85	6.32	7.29	e5.97
4	4.65	4.56	4.05	3.97	3.43	3.28	3.40	4.18	4.82	6.77	7.20	e5.94
5	4.64	4.64	4.03	3.94	3.40	3.28	3.58	4.26	4.77	....	7.10	e5.91

G551--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	4.62	4.66	4.01	3.90	3.35	3.27	3.74	4.29	4.73	....	e7.05	e5.88
7	4.61	4.64	3.99	3.87	e3.31	3.25	3.80	4.29	4.7	....	e7.02	e5.85
8	4.60	4.61	3.97	e3.83	e3.27	3.25	3.83	4.30	4.70	....	e6.97	5.82
9	4.59	4.57	3.95	e3.80	e3.23	3.25	3.85	4.31	4.83	....	e6.93	5.80
10	4.58	4.53	3.93	e3.76	3.22	3.25	3.85	4.57	5.05	....	e6.88	6.20
11	4.56	4.50	3.91	e3.73	3.33	3.25	3.85	4.64	5.54	....	e6.85	6.22
12	4.54	4.47	3.89	e3.69	3.39	3.23	3.86	4.65	5.56	....	e6.80	6.07
13	4.53	4.43	3.86	e3.66	3.42	3.20	3.86	4.66	5.53	....	e6.75	6.01
14	4.51	4.40	3.83	e3.62	e3.40	3.16	3.85	4.66	5.50	....	e6.70	5.97
15	4.50	4.36	3.81	e3.59	e3.39	3.13	3.85	4.66	5.46	....	e6.66	5.89
16	4.48	4.34	3.81	e3.56	e3.37	3.24	3.85	4.66	5.35	....	e6.62	5.85
17	4.45	4.32	3.81	e3.52	e3.36	3.30	4.09	4.66	5.32	7.85	e6.60	5.81
18	4.43	4.32	3.81	e3.48	e3.35	3.30	4.33	4.76	....	....	e6.57	5.80
19	4.42	4.30	3.80	e3.45	e3.34	3.26	4.37	4.78	....	7.81	e6.50	5.78
20	4.40	4.28	3.78	e3.41	e3.33	3.23	4.37	4.81	....	7.80	e6.48	5.76
21	4.38	4.27	3.75	3.39	e3.31	3.19	4.35	4.85	....	7.65	e6.45	5.73
22	4.36	4.24	3.73	3.36	e3.30	3.16	4.33	4.82	....	7.57	e6.42	5.71
23	4.34	4.22	3.70	3.34	3.28	3.16	4.29	4.80	....	7.50	e6.38	5.68
24	4.33	4.19	3.67	3.30	3.24	3.18	4.25	4.85	....	7.82	e6.35	5.66
25	4.32	4.17	3.65	3.28	3.20	3.20	4.23	4.93	....	....	e6.32	5.64
26	4.30	4.15	3.63	3.29	3.18	3.23	4.22	4.93	....	7.80	e6.27	5.62
27	4.29	4.15	3.66	3.42	3.10	3.20	4.17	4.91	....	....	e6.24	5.60
28	4.27	4.14	3.76	3.48	3.10	3.18	4.15	4.84	....	7.87	e6.20	5.58
29	4.27	4.13	3.93	3.50	3.14	3.16	4.15	4.84	6.33	7.77	e6.17	5.56
30	4.27		4.01	3.51	3.23	3.15	4.11	4.84	6.25	e7.60	e6.13	5.53
31	4.27		4.03		3.26		4.10	4.92		7.58		5.56

e Estimated.

G553. City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 55 S., R. 40 E. Drilled test water-table well in limestone of Biscayne aquifer, diameter 24 to 18 inches, depth 91 feet, cased to 79, 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: 1947-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.22	2.64	2.75	2.54	2.24	2.33	2.01	2.94	3.3 ^c	5.44	7.65	5.35
2	3.20	2.63	2.74	2.55	2.22	2.35	2.00	2.93	3.3 ^A	5.70	7.58	5.30
3	3.16	2.75	2.73	2.56	2.21	2.35	2.03	2.95	3.3 ^F	5.64	7.52	5.23
4	3.13	2.76	2.72	2.57	2.20	2.35	2.09	2.97	3.3 ^F	6.02	7.44	5.17
5	3.12	2.83	2.69	2.56	2.19	2.35	2.16	2.98	3.3 ^F	6.52	7.37	5.10
6	3.10	2.86	2.66	2.56	2.18	2.33	2.25	2.99	3.3 ^F	7.14	7.29	5.04
7	3.09	2.90	2.65	2.55	2.17	2.32	2.29	2.98	3.3 ^F	7.28	7.20	4.98
8	3.07	2.92	2.63	2.55	2.16	2.33	2.37	2.99	3.4 ^I	7.41	7.13	4.92
9	3.05	2.93	2.62	2.53	2.15	2.34	2.39	2.99	3.4 ^I	7.52	7.05	4.87
10	3.02	2.93	2.60	2.52	2.15	2.34	2.41	2.99	3.5 ^F	7.66	6.97	4.84
11	3.01	2.94	2.59	2.51	2.15	2.33	2.46	2.99	3.6 ^F	7.64	6.89	4.86
12	3.00	2.94	2.56	2.49	2.15	2.32	2.47	2.98	3.7 ^F	7.61	6.80	4.77
13	2.98	2.94	2.54	2.47	2.14	2.31	2.48	2.97	3.8 ^F	7.58	6.72	4.74
14	2.96	2.93	2.53	2.45	2.13	2.30	2.49	2.96	3.8 ^F	7.60	6.64	4.71
15	2.94	2.93	2.52	2.43	2.12	2.28	2.50	2.95	3.8 ^T	7.56	6.57	4.66
16	2.92	2.91	2.51	2.41	2.11	2.27	2.50	2.96	3.9 ^C	7.64	6.48	4.62
17	2.89	2.90	2.50	2.39	2.10	2.25	2.63	2.98	3.9 ^I	7.53	6.39	4.58
18	2.87	2.89	2.49	2.37	2.09	2.24	2.74	3.03	4.82	7.49	6.31	4.55
19	2.86	2.88	2.48	2.36	2.08	2.21	2.78	3.06	5.4 ^C	7.43	6.23	4.50
20	2.85	2.87	2.47	2.35	2.07	2.18	2.84	3.08	5.6 ^E	7.37	6.17	4.47
21	2.84	2.86	2.46	2.33	2.07	e2.16	2.90	3.11	5.8 ^C	7.29	6.06	4.44
22	2.82	2.85	2.44	2.31	2.06	e2.14	2.97	3.12	5.84	7.25	5.98	4.41
23	2.80	2.84	2.43	2.29	2.06	e2.12	e2.98	3.14	5.84	7.18	5.91	4.37
24	2.77	2.84	2.42	2.27	2.05	e2.11	e2.99	3.16	5.7 ^E	7.87	5.83	4.33
25	2.75	2.82	2.41	2.26	2.04	e2.09	....	3.17	5.75	....	5.75	4.31
26	2.74	2.80	2.40	2.25	2.04	e2.07	....	3.19	5.6 ^E	....	5.68	4.28
27	2.73	2.78	2.41	2.28	2.03	2.05	....	3.21	5.64	....	5.59	4.25
28	2.71	2.77	2.44	2.28	2.12	2.04	....	3.21	5.56	7.99	5.53	4.22
29	2.70	2.76	2.47	2.27	2.20	2.03	....	3.23	5.53	7.83	5.47	4.19
30	2.68		2.49	2.26	2.25	2.02	3.01	3.27	5.48	7.76	5.42	4.18
31	2.65		2.52		2.29		2.96	3.31		7.71		4.14

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 7.40 feet above msl. Highest water level 7.71 above msl, Oct. 12, 1949; lowest 2.64 above msl, June 5, 1951. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.88	6.55	6.24	5.67	4.51	5.02	4.23	4.92	5.87	6.77	7.52	7.15
2	6.87	6.53	6.22	5.60	4.42	4.93	4.18	5.08	5.82	6.81	7.50	7.15
3	6.86	6.60	6.17	5.55	4.33	4.82	5.05	5.15	5.80	6.82	7.47	7.14
4	6.85	6.58	6.16	5.49	4.26	4.70	5.11	5.54	5.80	6.86	7.43	7.13
5	6.85	6.61	6.13	5.42	4.34	4.56	5.14	5.50	5.78	6.86	7.42	7.13
6	6.84	6.60	6.15	5.36	4.15	4.45	5.06	5.42	5.75	6.86	7.40	7.11
7	6.83	6.60	6.13	5.30	4.06	4.37	5.17	5.35	5.75	6.90	7.38	7.11
8	6.83	6.58	6.10	5.23	3.98	4.45	5.25	5.54	5.80	6.92	7.38	7.11
9	6.82	6.57	6.05	5.14	3.95	4.33	5.17	5.70	5.84	6.97	7.38	7.10
10	6.80	6.55	6.03	5.05	4.34	4.23	5.29	5.70	5.92	6.97	7.37	7.23
11	6.79	6.54	5.96	4.98	4.37	4.17	5.23	5.68	5.97	7.05	7.36	7.20
12	6.78	6.53	5.95	4.90	4.39	4.09	5.16	5.66	5.99	7.05	7.34	7.19
13	6.77	6.52	5.92	5.01	4.32	4.00	5.44	5.67	5.99	7.05	7.31	7.17
14	6.75	6.50	5.90	4.95	4.25	3.91	5.40	5.63	6.00	7.07	7.31	7.15
15	6.75	6.48	5.93	4.85	4.16	3.85	5.30	5.61	6.00	7.10	7.31	7.13
16	6.73	6.45	5.91	4.76	4.12	3.93	5.24	5.86	6.00	7.13	7.31	7.11
17	6.72	6.47	5.86	4.70	4.06	3.80	5.50	5.88	6.00	7.11	7.30	7.10
18	6.70	6.47	5.81	4.63	3.99	3.75	5.53	5.86	6.22	7.11	7.30	7.10
19	6.69	6.46	5.76	4.55	3.92	5.00	5.43	5.79	6.29	7.12	7.30	7.10
20	6.68	6.44	5.71	4.47	3.85	4.62	5.46	5.75	6.35	7.16	7.30	7.10
21	6.67	6.43	5.67	4.40	3.82	4.44	5.40	5.71	6.39	7.17	7.28	7.09
22	6.66	6.40	5.61	4.32	3.78	4.34	5.34	5.90	6.45	7.16	7.27	7.08
23	6.64	6.39	5.57	4.25	3.72	5.02	5.26	6.00	6.48	7.16	7.25	7.06
24	6.63	6.38	5.51	4.19	3.66	4.82	5.20	6.01	6.54	7.20	7.23	7.06
25	6.63	6.34	5.45	4.40	3.62	4.73	5.15	5.97	6.57	7.20	7.23	7.05
26	6.62	6.33	5.57	4.95	3.74	4.67	5.08	5.95	6.62	7.20	7.23	7.05
27	6.60	6.31	5.72	4.97	5.13	4.57	5.04	5.94	6.66	7.60	7.23	7.04
28	6.60	6.30	5.84	4.81	5.33	4.47	5.01	5.90	6.68	7.61	7.21	7.03
29	6.60	6.27	5.85	4.70	5.35	4.36	4.99	5.88	6.70	7.55	7.20	7.00
30	6.59	6.25	5.78	4.60	5.24	4.30	4.99	5.87	6.70	7.54	7.19	6.98
31	6.57		5.72		5.12		4.94	5.86		7.52		6.98

G595. U. S. Geol. Survey. Galloway Rd. and Sunset Dr., South Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 54 S., R. 40 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 14 feet, cased to 11. Land-surface datum is 8.80 feet above msl. Highest water level 9.12 above msl, Oct. 5, 1952; lowest 1.67 above msl, June 21, 1952. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.30	2.53	2.57	3.07	2.60	....	1.72	2.77	3.43	4.96	6.33	3.59
2	3.13	2.58	2.53	3.11	2.63	....	1.81	2.86	3.40	5.12	6.21	3.55
3	3.03	2.74	2.53	3.13	2.65	....	2.18	2.92	3.20	4.88	6.08	3.52
4	3.04	2.80	2.52	3.13	2.67	....	....	3.01	3.09	6.22	5.98	3.49
5	2.97	2.83	2.50	3.12	2.67	....	....	3.04	3.04	9.12	5.86	3.37
6	2.93	2.87	2.48	2.85	2.33	....	....	3.05	3.03	7.86	5.76	3.35
7	2.90	2.87	2.47	2.71	2.35	2.21	....	3.05	3.14	7.55	5.71	3.35
8	2.89	2.64	2.44	2.63	2.12	2.12	....	3.04	3.31	7.29	5.61	3.33
9	2.87	2.31	2.42	2.75	2.05	2.08	....	3.05	3.39	7.42	5.52	3.27
10	2.85	2.83	2.41	2.66	1.98	2.00	....	3.12	3.42	7.24	5.44	3.24
11	2.82	2.83	2.39	2.44	1.98	1.95	2.90	3.18	3.47	7.01	5.36	3.31
12	2.90	2.85	2.38	2.33	2.15	1.88	2.92	3.22	3.45	6.93	5.28	3.28
13	2.93	2.79	2.35	2.28	2.19	1.84	2.94	3.24	3.44	....	5.22	3.29
14	2.80	2.77	2.34	2.22	2.20	1.80	2.95	3.07	3.45	....	5.16	3.25
15	2.79	2.73	2.34	2.17	2.20	1.79	2.96	3.12	3.46	6.60	5.09	3.18
16	2.74	2.65	2.36	2.35	2.20	1.80	2.96	3.07	3.42	6.43	5.03	3.13
17	2.71	2.63	2.37	2.38	2.20	1.79	3.12	3.10	3.40	6.32	4.96	3.15
18	2.68	2.64	2.37	2.39	2.20	1.76	3.20	3.14	5.85	6.24	4.91	3.16
19	2.64	2.65	2.33	2.42	2.19	1.88	3.26	3.17	5.72	6.12	4.85	3.16
20	2.63	2.65	2.31	2.39	1.97	1.80	3.29	3.16	6.45	6.05	4.82	3.19

G595--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	2.61	2.61	2.29	2.18	1.95	1.67	3.31	3.07	6.12	5.95	4.76	3.21
22	2.60	2.60	2.28	2.11	1.94	1.88	3.02	2.98	5.66	5.90	4.71	3.21
23	2.59	2.58	2.29	1.96	1.93	2.03	2.91	2.95	5.77	5.82	4.48	3.22
24	2.57	2.57	2.25	1.96	1.90	2.09	2.78	2.93	5.58	5.97	4.39	3.13
25	2.56	2.55	2.24	1.95	1.88	2.11	2.85	3.33	5.50	5.91	4.43	3.11
26	2.55	2.65	2.23	2.21	1.86	1.99	2.76	3.39	5.64	5.87	3.94	3.10
27	2.55	2.61	2.27	2.33	1.85	1.72	2.71	3.41	5.54	7.14	3.82	3.17
28	2.54	2.58	2.57	2.34	2.25	1.94	2.69	3.38	5.46	e6.96	3.71	3.13
29	2.53	2.57	2.89	2.35	2.38	2.00	2.72	3.37	5.15	6.81	3.63	3.15
30	2.54		2.98	2.52	....	2.03	2.76	3.39	5.11	6.67	3.57	3.35
31	2.52		3.01		....		2.77	3.42		6.45		3.43

e Estimated.

G596. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 55 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 13 feet, cased to 11. Land-surface datum is 7.70 feet above msl. Highest water level 8.01 above msl, Oct. 25, 1949; lowest 3.16 above msl, May 28, 1952. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.90	4.31	4.40	4.70	e4.04	3.78	4.10	5.27	6.28	6.86	7.49	7.04
2	4.88	4.30	4.37	4.65	e3.98	3.82	4.07	5.22	6.18	6.86	7.46	7.02
3	4.86	4.98	4.34	4.60	e3.92	3.83	5.00	5.45	6.10	6.86	7.45	7.02
4	4.84	4.98	4.32	4.55	e3.87	3.90	5.24	6.14	6.62	7.17	7.43	7.00
5	4.83	5.09	4.29	4.49	e3.80	3.90	5.25	6.01	5.58	7.44	7.40	6.98
6	4.81	5.09	4.27	4.43	e3.75	3.86	5.24	5.88	5.53	7.75	7.38	6.96
7	4.80	5.05	4.27	4.39	e3.70	3.81	5.20	5.74	5.52	7.60	7.35	6.94
8	4.78	5.01	4.22	4.34	e3.65	3.93	5.16	5.73	6.09	7.40	7.34	6.92
9	4.76	4.96	4.20	4.29	3.59	3.97	5.11	5.92	7.75	7.45	7.31	6.91
10	4.73	4.92	4.17	4.25	3.57	3.97	5.08	5.87	7.45	7.32	7.31	7.07
11	4.70	4.87	4.15	4.18	e3.66	3.92	5.03	5.84	7.84	7.67	7.30	6.98
12	4.68	4.84	4.12	4.11	e3.68	3.85	4.98	6.94	7.39	7.60	7.30	6.95
13	4.66	4.81	4.09	4.10	e3.72	3.79	4.95	6.70	7.19	7.52	7.30	6.92
14	4.64	4.77	4.05	4.06	3.72	3.72	5.02	6.37	7.08	7.45	7.27	6.90
15	4.62	4.74	4.02	4.03	3.70	3.66	5.04	6.29	6.50	7.36	7.27	6.89
16	4.59	4.70	4.02	3.98	3.66	3.60	5.04	6.75	6.79	7.36	7.25	6.87
17	4.57	4.69	4.01	3.93	3.61	3.53	5.60	6.41	6.63	7.35	7.23	6.87
18	4.55	4.69	3.99	3.87	3.58	3.50	5.62	6.30	....	7.35	7.20	6.85
19	4.52	4.68	3.96	3.83	3.54	3.52	5.58	6.23	....	7.31	7.20	6.85
20	4.50	4.67	3.94	3.77	3.50	3.56	5.53	6.14	7.48	7.40	7.20	6.84
21	4.49	4.62	3.90	3.72	3.45	3.58	5.48	6.07	e7.15	7.35	7.19	6.82
22	4.46	4.60	3.88	3.67	3.41	4.42	5.44	6.57	e7.05	7.35	7.17	6.80
23	4.43	4.57	3.85	3.62	3.37	4.40	5.40	6.22	....	7.35	7.16	6.78
24	4.40	4.54	3.82	3.58	3.32	4.35	5.36	6.64	....	7.43	7.15	6.76
25	4.40	4.50	3.78	3.54	3.30	4.30	5.38	6.64	....	7.51	7.13	6.75
26	4.38	4.47	3.75	3.96	3.24	4.25	5.35	6.55	6.64	7.45	7.12	6.75
27	4.34	4.47	3.93	4.14	3.21	4.20	5.30	6.47	6.63	7.68	7.11	6.74
28	4.30	4.46	4.44	e4.18	3.16	4.18	5.37	6.32	6.50	7.61	7.08	6.71
29	4.32	4.44	4.66	e4.19	3.24	4.16	5.40	6.25	6.66	7.57	7.07	6.71
30	4.33		4.71	4.10	3.29	4.14	5.38	6.75	6.65	7.53	7.06	6.70
31	4.33		4.71		3.32		5.32	6.40		7.51		6.70

e Estimated.

G612. U. S. Geol. Survey. On Tallahassee Rd. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, 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 3.17 above msl, Oct. 6, 1950; lowest 0.20 below msl, May 15, 1950. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.00	0.68	0.87	e1.30	1.30	1.75	0.71	1.17	2.40	2.18	....	....
2	.92	1.65	.83	e1.20	1.20	1.59	.70	1.97	2.30	2.30	....	....
3	.88	1.98	.85	e1.15	1.14	1.78	2.55	2.38	2.23	2.20	....	....
4	.83	.72	.82	e1.12	1.08	1.78	2.60	2.13	2.18	3.13	....	....
5	.80	.80	.72	e1.08	.99	1.57	2.05	1.95	2.31	2.94	....	....
6	.75	.68	.80	e1.06	.90	1.50	1.88	1.87	2.58	2.71	....	....
7	.73	.90	.85	e1.04	.82	1.44	1.84	1.78	2.51	2.97	....	....
8	.78	.96	.87	e1.00	.77	1.44	1.68	2.35	2.75	2.74	....	1.21
9	.80	.99	.86	e.96	.70	1.37	1.63	2.07	2.53	3.02	....	1.35
10	.77	.96	.80	e.92	.65	1.18	1.50	1.96	2.46	2.76	....	1.32

G612--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	0.75	0.95	0.77	e0.88	0.62	1.00	1.43	1.88	2.67	3.05	....	1.33
12	.77	.95	.76	e.84	.78	.90	1.48	1.90	2.43	2.93	....	1.17
13	.76	.95	.72	e.80	.83	.73	1.89	1.77	2.56	2.90	....	1.25
14	.75	.95	.67	e.76	.67	.74	1.95	1.71	2.35	3.02	....	1.28
15	.74	.94	1.45	e.72	.60	.66	1.80	1.96	2.30	....	....	1.23
16	.74	.92	.70	e.65	.53	1.47	1.70	1.82	2.25	....	....	1.21
17	.73	1.03	.78	e.64	.51	.86	2.48	1.79	2.16	....	....	1.30
18	.72	.79	.80	e.60	.48	.70	2.20	1.96	2.27	....	....	1.40
19	.70	.95	.75	e.56	.42	.64	1.87	1.78	2.10	....	....	1.27
20	.70	.90	.70	e.52	.46	.57	1.74	1.77	2.90	....	....	.91
21	.68	.87	.60	e.48	.39	.50	1.68	1.75	2.54	....	....	.83
22	.67	.85	.55	e.44	.33	.53	1.59	2.18	2.40	....	....	1.09
23	.65	.84	.57	e.40	.26	.65	1.50	2.42	2.31	....	....	.94
24	.65	.80	.54	.35	.20	.60	1.59	2.48	2.24	....	....	1.06
25	.70	.81	.49	.47	.16	.52	1.55	2.17	2.39	....	....	1.08
26	e.67	.96	.40	1.78	.18	.56	1.49	2.45	2.21	....	....	1.04
27	e.62	1.07	1.21	1.56	.48	.99	1.49	2.30	2.22	....	....	1.03
28	.73	.98	....	1.44	.60	.99	1.63	2.18	2.27	....	....	1.05
29	.90	.93	e1.90	1.33	.82	.85	1.59	2.14	2.11	....	....	1.02
30	.78	....	e1.68	1.40	1.02	.77	1.34	2.67	2.28	....	....	1.05
31	.72	....	e1.48	....	1.09	....	1.26	2.52	....	....	....	1.07

e Estimated.

G613. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 58 S., R. 38 E. Drilled observation water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 21 feet, cased to 18. 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: 1950-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.04	0.49	0.84	1.98	1.47	1.75	1.25	2.26	3.75	2.97	3.35	2.25
2	1.02	.48	.81	1.87	1.40	1.80	1.20	2.59	3.51	2.97	3.30	2.23
3	.98	1.34	.76	1.77	1.33	1.75	2.52	3.93	3.33	3.05	3.25	2.19
4	.95	1.40	.74	1.70	1.26	1.70	2.65	4.00	3.20	3.05	3.20	2.16
5	.93	1.47	.70	1.60	1.20	1.60	2.81	3.64	3.11	3.08	3.16	2.13
6	.90	1.48	1.00	1.52	1.11	1.52	2.73	3.40	3.06	3.01	3.12	2.10
7	.88	1.44	1.14	1.44	1.05	1.46	2.68	3.21	3.40	3.65	3.05	2.07
8	.85	1.40	1.15	1.38	.98	1.42	2.55	3.18	3.32	3.75	3.01	2.03
9	.83	1.36	1.09	1.30	.89	1.36	2.44	3.08	3.24	4.24	2.97	2.01
10	.80	1.31	1.02	1.23	.82	1.30	2.37	3.00	3.15	4.04	2.92	2.15
11	.76	1.27	.96	1.15	.74	1.22	2.21	2.94	3.13	3.85	2.88	2.15
12	.75	1.22	.91	1.08	.92	1.15	2.12	2.97	3.08	3.77	2.86	2.05
13	.73	1.19	.85	1.03	.95	1.07	2.35	2.95	3.04	3.66	2.84	2.01
14	.72	1.15	.77	.99	.85	1.00	2.89	2.90	2.98	3.61	2.81	1.99
15	.70	1.12	.74	.90	.77	.95	2.83	2.92	2.92	3.58	2.77	1.95
16	.68	1.09	.75	.83	.72	1.61	2.73	2.94	2.85	3.70	2.75	1.93
17	.66	1.09	.72	.75	.66	1.66	3.33	2.89	2.80	3.58	2.71	1.90
18	.64	1.10	.67	.70	.61	1.51	3.25	2.95	2.77	3.55	2.67	1.88
19	.62	1.08	.63	.64	.55	1.41	3.13	2.84	2.72	3.49	2.65	1.86
20	.60	1.04	.59	.58	.48	1.31	3.00	2.84	3.06	3.75	2.63	1.85
21	.57	1.02	.55	.52	.41	1.21	2.87	2.82	3.08	3.71	2.59	1.81
22	.55	.99	.50	.47	.35	1.15	2.80	3.14	3.05	3.65	2.55	1.78
23	.53	.95	.47	.41	.28	1.70	2.73	3.12	2.99	3.63	2.51	1.75
24	.51	.90	.43	.36	.22	1.74	2.70	3.15	2.95	4.11	2.48	1.73
25	.51	.86	.40	.33	.15	1.64	2.65	3.08	3.53	4.20	2.45	1.71
26	.50	.85	.35	1.65	.10	1.55	2.60	3.27	3.40	3.96	2.41	1.68
27	.50	.94	.95	1.84	.38	1.47	2.55	3.37	3.24	3.83	2.37	1.66
28	.46	.92	1.90	1.80	.72	1.58	2.54	3.22	3.13	3.70	2.34	1.64
29	.57	.88	2.16	1.68	1.05	1.44	2.47	3.12	3.03	3.57	2.32	1.62
30	.58	....	2.18	1.57	1.16	1.35	2.38	3.04	2.95	3.49	2.28	1.65
31	.52	....	2.07	....	1.24	....	2.33	3.93	....	3.42	....	1.62

G614. U. S. Geol. Survey. Newton Rd. and Silver Palm Dr. 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 7.49 above msl, Oct. 18, 1950; lowest 1.30 above msl, May 22, 1950. Records available: 1950-52.

G614--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.34	1.70	2.04	2.87	2.16	e1.71	e2.07	3.70	4.60	5.24	6.46	4.22
2	2.32	1.70	2.03	2.88	2.18	e1.78	e2.15	3.67	4.62	5.18	6.34	4.18
3	2.30	1.73	2.01	2.88	2.17	e1.83	2.34	3.65	4.60	5.11	6.23	4.12
4	2.27	1.79	1.98	2.87	2.17	1.90	2.70	3.74	4.55	5.40	6.12	4.08
5	2.26	1.86	1.96	2.85	2.17	1.97	3.24	3.91	4.50	5.76	6.01	4.04
6	2.25	1.93	1.94	2.83	2.16	1.97	3.52	3.99	4.47	5.90	5.89	4.03
7	2.22	1.99	1.94	2.77	2.15	1.99	3.63	4.01	4.42	6.17	5.75	3.99
8	2.20	2.05	1.93	2.71	2.14	2.02	3.67	4.02	4.40	6.34	5.65	3.94
9	2.18	2.09	1.91	2.67	2.10	2.04	3.68	4.04	4.38	6.39	5.56	3.90
10	2.15	2.13	1.89	2.61	2.09	2.06	3.67	4.08	4.40	6.56	5.48	3.87
11	2.14	2.16	1.87	2.58	2.08	2.07	3.65	4.12	4.59	6.61	5.39	3.85
12	2.12	2.18	1.85	2.54	2.03	2.07	3.62	4.14	4.75	6.82	5.31	3.83
13	2.08	2.19	1.84	2.50	1.97	2.07	3.59	4.14	4.82	6.87	5.23	3.82
14	2.05	2.20	1.81	2.46	1.94	....	3.58	4.12	4.85	6.91	5.16	3.81
15	2.02	2.21	1.79	2.42	1.89	....	3.59	4.07	4.84	6.91	5.11	3.80
16	1.99	2.20	1.79	2.37	1.87	....	3.60	4.07	4.81	6.89	5.04	3.76
17	1.96	2.19	1.81	2.32	1.85	....	3.75	4.07	4.78	6.78	4.98	3.73
18	1.95	2.18	1.81	2.30	1.80	....	4.04	4.07	4.71	6.72	4.92	3.69
19	1.94	2.18	1.81	2.25	1.76	....	4.19	4.09	4.69	6.82	4.86	3.64
20	1.92	2.16	1.81	2.21	1.72	2.02	4.25	4.09	4.95	6.53	4.81	3.62
21	1.90	2.15	1.80	2.14	1.67	....	4.26	4.09	5.20	6.43	4.74	3.59
22	1.88	2.14	1.79	2.09	1.63	....	4.23	4.09	5.34	6.34	4.69	3.56
23	1.85	2.13	1.78	2.03	1.60	....	4.19	4.08	5.37	6.27	4.63	3.51
24	1.83	2.12	1.75	1.97	1.59	....	4.12	4.09	5.38	6.24	4.57	3.46
25	1.81	2.10	1.72	1.93	1.56	....	4.07	4.10	5.53	6.52	4.51	3.46
26	1.80	2.07	1.70	1.93	1.52	....	4.00	4.15	5.67	6.60	4.46	3.44
27	1.79	2.06	1.70	1.95	1.51	2.07	3.95	4.23	5.63	6.72	4.41	3.43
28	1.76	2.05	2.18	2.01	1.47	e2.07	3.90	4.29	5.53	6.83	4.36	3.42
29	1.74	2.05	2.64	2.07	1.46	e2.07	3.85	4.32	5.42	6.81	4.33	3.41
30	1.73	.	2.77	2.13	e1.55	e2.07	3.80	4.34	5.33	6.79	4.28	3.39
31	1.72	.	2.84	.	e1.63	.	3.75	4.53	.	6.57	.	3.33

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 74 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, 1952. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.78	2.57	2.38	2.59	1.73	1.33	1.15	2.00	2.87	3.14	e6.07	4.19
2	2.77	2.55	2.35	2.54	1.70	1.34	1.12	1.99	2.83	4.02	e5.97	4.17
3	2.77	2.93	2.33	2.50	1.67	1.36	2.27	2.36	2.78	4.07	e5.85	4.15
4	2.77	2.96	2.32	2.44	1.64	1.33	2.32	3.14	2.74	4.61	e5.74	4.12
5	2.75	3.03	2.31	2.38	1.62	1.31	2.25	3.27	2.71	4.75	e5.62	4.12
6	2.74	3.04	2.29	2.35	1.59	1.28	2.17	3.22	2.69	4.52	e5.52	4.07
7	2.73	2.97	2.27	2.29	1.57	1.25	2.13	3.09	2.67	4.86	e5.39	4.05
8	2.72	2.92	2.25	2.23	1.55	1.22	2.88	2.99	2.62	4.47	e5.28	4.03
9	2.70	2.87	2.23	2.20	1.53	1.20	2.62	2.94	2.92	5.49	e5.17	4.02
10	2.69	2.82	2.21	2.17	1.51	1.16	2.47	2.98	2.92	5.02	e5.07	6.09
11	2.67	2.78	2.19	2.12	1.47	1.13	2.37	2.91	3.14	5.39	e4.96	4.86
12	2.66	2.75	2.17	2.08	1.46	1.12	2.28	2.87	3.19	4.89	4.90	4.76
13	2.64	2.71	2.16	2.04	1.43	1.10	2.27	2.83	3.70	5.94	4.85	4.69
14	2.64	2.69	2.14	2.01	1.41	1.09	2.41	2.77	3.17	5.66	4.82	4.63
15	2.64	2.66	2.11	1.97	1.40	1.07	2.42	2.73	3.09	5.61	4.89	4.51
16	2.63	2.64	2.09	1.92	1.38	1.07	2.34	2.71	3.01	5.97	4.70	4.46
17	2.62	2.64	2.07	1.89	1.35	1.06	2.41	2.76	3.66	....	4.63	4.42
18	2.62	2.63	2.04	1.86	1.32	1.07	2.56	2.79	3.17	....	4.65	4.39
19	2.61	2.61	2.03	1.82	1.31	1.08	2.54	2.74	3.77	....	4.57	4.38
20	2.60	2.57	2.01	1.79	1.29	1.07	2.46	2.69	3.76	....	4.49	4.36
21	2.59	2.54	1.99	1.77	1.26	1.06	2.44	2.67	3.77	....	4.48	4.31
22	2.57	2.52	1.97	1.75	1.24	1.07	2.37	2.68	3.74	....	4.44	4.27
23	2.55	2.51	1.94	1.72	1.21	1.14	2.31	2.99	3.72	....	4.41	4.24
24	2.54	2.48	1.92	1.69	1.19	1.20	2.27	3.05	3.43	....	4.42	4.21
25	2.53	2.46	1.90	1.65	1.17	1.24	2.26	e3.04	3.00	....	4.35	4.19

G615--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	2.52	2.44	1.88	1.68	1.16	1.25	2.22	e3.04	3.57	....	4.32	4.15
27	2.51	2.43	2.05	1.75	1.17	1.27	2.18	e3.04	3.43	e6.65	4.31	4.13
28	2.50	2.41	2.25	1.78	1.22	1.25	2.16	3.04	3.32	e6.42	4.25	4.10
29	2.65	2.39	2.48	1.78	1.27	1.22	2.11	2.99	3.23	e6.33	4.22	4.03
30	2.64		2.58	1.77	1.31	1.19	2.07	2.94	3.17	e6.25	4.19	4.14
31	2.61		2.61		1.32		2.03	2.91		e6.16		4.35

e Estimated.

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 70 feet, cased to 11. Land-surface datum is 7.40 feet above msl. Highest water level 7.75 above msl, Oct. 29, 1952; lowest 3.49 above msl, June 5, 1951. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 15	6.95	Nov. 27	6.88	Dec. 9	6.81	Dec. 21	6.71
16	6.95	28	6.88	10	6.81	22	6.70
17	6.95	29	6.87	11	6.79	23	6.70
18	6.94	30	6.85	12	6.78	24	6.69
19	6.93	Dec. 1	6.83	13	6.78	25	6.68
20	6.92	2	6.83	14	6.77	26	6.67
21	6.90	3	6.83	15	6.77	27	6.66
22	6.90	4	6.82	16	6.76	28	6.66
23	6.89	5	6.81	17	6.75	29	6.66
24	6.89	6	6.80	18	6.74	30	6.65
25	6.89	7	6.81	19	6.73	31	6.68
26	6.89	8	6.81	20	6.72		

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.68	6.42	6.22	5.28	4.90	3.70	4.45	5.90	6.37	6.73	6.89	6.90
2	6.68	6.50	6.21	5.22	4.83	3.64	4.47	5.95	6.37	6.80	6.90	6.90
3	6.67	6.55	6.20	5.15	4.77	3.60	4.44	6.01	6.37	6.80	6.90	6.90
4	6.66	6.55	6.19	5.10	5.02	3.53	4.40	5.99	6.37	6.80	6.90	6.90
5	6.65	6.55	6.15	5.04	4.77	3.49	4.71	5.95	6.37	6.80	6.90	6.90
6	6.64	6.55	6.12	4.97	4.67	3.65	4.61	5.94	6.37	6.80	6.91	6.90
7	6.64	6.54	6.11	4.93	4.59	3.70	4.56	5.95	6.38	6.80	6.91	6.91
8	6.62	6.53	6.10	5.40	4.51	3.77	5.25	5.95	6.54	6.80	6.91	6.91
9	6.61	6.52	6.07	5.35	4.46	4.15	5.29	5.94	6.54	6.81	6.91	6.91
10	6.60	6.51	6.04	5.95	4.43	4.18	5.54	5.94	6.54	6.83	6.91	6.91
11	6.60	6.51	6.01	5.93	4.35	4.08	5.69	5.95	6.66	6.83	6.91	6.91
12	6.59	6.50	5.99	5.86	4.30	3.97	5.69	5.95	6.66	6.83	6.91	6.91
13	6.58	6.48	6.04	5.85	4.54	3.91	5.64	6.15	6.66	6.83	6.91	6.91
14	6.57	6.47	6.02	5.81	4.53	3.95	5.60	6.15	6.66	6.84	6.91	6.90
15	6.57	6.45	6.00	5.75	4.46	3.88	5.55	6.22	6.65	6.85	6.91	6.90
16	6.55	6.44	5.95	5.70	4.39	4.40	5.47	6.22	6.65	6.87	6.91	6.88
17	6.54	6.43	5.92	5.65	4.33	4.29	5.45	6.21	6.64	6.88	6.91	6.87
18	6.53	6.42	5.89	5.65	4.34	4.21	5.79	6.20	6.64	6.89	6.91	6.87
19	6.53	6.40	5.85	5.65	4.26	4.14	5.72	6.20	6.63	6.89	6.91	6.87
20	6.52	6.39	5.82	5.62	4.21	4.09	5.70	6.17	6.63	6.89	6.90	6.87
21	6.52	6.37	5.80	5.55	4.18	4.13	5.70	6.16	6.63	6.89	6.90	6.86
22	6.50	6.34	5.72	5.50	4.18	4.35	5.84	6.16	6.63	6.89	6.90	6.86
23	6.48	6.34	5.67	5.45	4.14	4.37	5.61	6.22	6.62	6.89	6.90	6.85
24	6.47	6.32	5.64	5.37	4.06	4.45	5.75	6.26	6.61	6.89	6.90	6.84
25	6.47	6.30	5.59	5.34	4.00	4.40	5.97	6.26	6.60	6.89	6.90	6.83
26	6.46	6.29	5.52	5.26	3.95	4.45	6.00	6.26	6.59	6.89	6.90	6.82
27	6.44	6.28	5.46	5.20	3.91	4.70	6.00	6.26	6.58	6.89	6.90	6.80
28	6.43	6.25	5.47	5.13	4.00	4.75	5.96	6.27	6.58	6.89	6.90	6.80
29	6.43		5.42	5.07	3.90	4.60	5.94	6.29	6.58	6.89	6.90	6.80
30	6.40		5.39	4.97	3.83	4.49	5.95	6.37	6.69	6.89	6.90	6.80
31	6.40		5.33		3.76		5.93	6.36		6.89		6.79

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.78	6.50	6.34	5.98	4.84	5.15	5.09	5.91	6.53	6.94	7.74	7.50
2	6.78	6.58	6.32	5.93	4.75	5.12	5.03	5.90	6.53	6.96	7.74	7.48
3	6.77	6.59	6.30	5.90	4.67	5.28	5.65	5.97	6.53	6.98	7.73	7.48
4	6.76	6.59	6.29	5.84	4.62	5.20	5.72	6.15	6.54	6.99	7.70	7.47
5	6.75	6.60	6.27	5.79	4.55	5.08	5.73	6.15	6.54	7.03	7.70	7.45

G618--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	6.75	6.60	6.25	5.74	4.48	4.98	5.84	6.15	6.5 ^A	7.04	7.69	7.45
7	6.74	6.60	6.23	5.68	4.42	4.90	6.07	6.15	6.5 ^A	7.10	7.68	.45
8	6.73	6.60	6.21	5.62	4.38	5.10	6.05	6.15	6.5 ^A	7.15	7.67	7.43
9	6.71	6.59	6.20	5.56	4.35	4.97	6.02	6.34	6.5 ^A	7.22	7.66	7.42
10	6.70	6.58	6.17	5.48	5.67	4.85	5.99	6.33	6.55	7.23	7.66	7.42
11	6.68	6.57	6.15	5.42	5.66	4.75	5.95	6.33	6.57	7.28	7.65	7.42
12	6.68	6.55	6.13	5.35	5.63	4.68	5.92	6.33	6.57	7.33	7.65	7.41
13	6.67	6.54	6.10	5.41	5.54	4.65	5.96	6.33	6.57	7.35	7.63	7.40
14	6.66	6.53	6.08	5.35	5.45	4.55	5.98	6.33	6.57	7.37	7.63	7.40
15	6.64	6.52	6.13	5.27	5.35	4.50	5.95	6.34	6.57	7.40	7.63	7.38
16	6.64	6.50	6.11	5.20	5.27	4.96	5.91	6.40	6.57	7.40	7.62	7.36
17	6.63	6.50	6.08	5.14	5.20	4.67	6.15	6.40	6.55	7.42	7.61	7.35
18	6.60	6.50	6.05	5.07	5.09	4.60	6.14	6.40	6.68	7.42	7.60	7.35
19	6.60	6.50	6.02	5.00	4.98	4.97	6.12	6.40	6.72	7.44	7.60	7.34
20	6.60	6.50	5.99	4.95	4.86	4.83	6.11	6.41	6.76	7.51	7.59	7.34
21	6.58	6.48	5.95	4.87	4.77	4.69	6.10	6.41	6.76	7.52	7.58	7.33
22	6.57	6.47	5.90	4.80	4.67	4.65	6.08	6.57	6.83	7.52	7.57	7.32
23	6.56	6.45	5.87	4.74	4.57	5.75	6.06	6.57	6.84	7.52	7.57	7.31
24	6.55	6.44	5.81	4.66	4.47	5.61	6.04	6.56	6.86	7.57	7.56	7.31
25	6.54	6.42	5.76	4.63	4.39	5.54	6.02	6.55	6.90	7.60	7.55	7.30
26	6.52	6.40	5.91	5.26	4.36	5.45	5.97	6.55	6.92	7.61	7.53	7.30
27	6.51	6.38	6.00	5.21	4.70	5.38	6.05	6.55	6.93	7.74	7.53	7.29
28	6.47	6.38	6.08	5.10	4.99	5.28	6.04	6.54	6.94	7.74	7.52	7.27
29	6.51	6.35	6.08	5.00	5.03	5.21	5.97	6.53	6.94	7.75	7.51	7.26
30	6.51		6.05	4.92	4.95	5.15	5.95	6.53	6.94	7.74	7.51	7.25
31	6.51		6.00		4.85		5.92	6.53		7.74		7.23

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 8.24 above msl, Oct. 15, 1952; lowest 4.77 above msl, June 6, 1951. Record available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 14	7.90	Nov. 26	7.85	Dec. 8	7.85	Dec. 20	7.79
15	7.90	27	7.85	9	7.83	21	7.79
16	7.90	28	7.85	10	7.83	22	7.79
17	7.90	29	7.84	11	7.82	23	7.78
18	7.90	30	7.83	12	7.82	24	7.77
19	7.87	Dec. 1	7.83	13	7.82	25	7.77
20	7.94	2	7.83	14	7.82	26	7.77
21	7.89	3	7.83	15	7.81	27	7.77
22	7.89	4	7.81	16	7.81	28	7.77
23	7.88	5	7.81	17	7.81	29	7.76
24	7.88	6	7.81	18	7.80	30	7.77
25	7.88	7	7.85	19	7.80	31	7.77

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.77	7.45	6.90	5.70	6.43	5.02	5.06	7.60	7.7 ^R	7.82	7.86	7.81
2	7.76	7.50	6.85	5.65	6.33	4.96	5.25	7.60	7.7 ^R	7.88	7.86	7.80
3	7.76	7.60	6.80	5.60	6.24	4.90	5.65	7.60	7.7 ^R	7.88	7.88	7.80
4	7.76	7.60	6.75	5.55	6.20	4.83	6.10	7.65	7.7 ^R	7.88	7.88	7.79
5	7.75	7.60	6.69	5.50	6.10	4.79	6.23	7.65	7.79	7.87	7.89	7.79
6	7.75	7.60	6.64	5.47	6.00	4.77	6.24	7.68	7.79	7.85	7.87	7.79
7	7.75	7.60	6.60	5.44	5.90	4.85	7.45	7.68	7.79	7.85	7.87	7.79
8	7.75	7.59	6.55	5.47	5.81	4.93	7.47	7.68	7.79	7.84	7.87	7.79
9	7.74	7.57	6.50	5.55	5.75	5.01	7.47	7.68	7.79	8.06	7.87	7.79
10	7.74	7.55	6.44	6.80	5.70	5.10	7.49	7.70	7.81	7.99	7.87	7.78
11	7.73	7.55	6.39	6.81	5.73	5.17	7.47	7.70	7.81	7.95	7.87	7.78
12	7.72	7.52	6.33	6.76	5.70	4.85	7.46	7.72	7.81	7.92	7.87	7.77
13	7.71	7.50	6.73	6.73	5.85	5.39	7.63	7.72	7.81	7.92	7.87	7.77
14	7.70	7.48	6.66	6.65	5.89	5.47	7.59	7.72	7.81	7.92	7.85	7.76
15	7.69	7.45	6.60	6.58	5.83	5.55	7.57	7.72	7.81	7.92	7.85	7.76

G619--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	7.68	7.42	6.53	6.50	5.80	5.36	7.54	7.72	7.85	7.90	7.85	7.76
17	7.67	7.40	6.47	6.60	5.70	5.29	7.50	7.72	7.85	7.84	7.86	7.76
18	7.66	7.38	6.40	7.16	5.65	5.20	7.47	7.73	7.84	7.84	7.86	7.76
19	7.66	7.35	6.35	7.16	5.59	5.19	7.45	7.72	7.81	7.84	7.86	7.76
20	7.65	7.31	6.28	7.20	5.52	5.13	7.44	7.73	7.79	7.84	7.86	7.75
21	7.64	7.27	6.24	7.18	5.45	5.47	7.44	7.80	7.78	7.84	7.84	7.75
22	7.62	7.23	6.17	7.14	5.40	5.49	7.45	7.80	7.77	7.84	7.84	7.74
23	7.60	7.21	6.10	7.06	5.43	5.48	7.45	7.83	7.75	7.84	7.84	7.73
24	7.59	7.19	6.04	6.98	5.50	5.45	7.46	7.83	7.75	7.84	7.84	7.72
25	7.58	7.14	5.97	6.90	5.18	5.37	7.46	7.82	7.74	7.84	7.84	7.71
26	7.55	7.09	5.90	6.83	5.11	5.31	7.51	7.81	7.73	7.87	7.84	7.70
27	7.54	7.03	5.85	6.81	5.16	5.27	7.51	7.80	7.73	7.87	7.82	7.70
28	7.53	6.97	5.80	6.66	5.21	5.20	7.51	7.80	7.73	7.87	7.82	7.70
29	7.52		5.75	6.61	5.22	5.10	7.51	7.80	7.73	7.87	7.82	7.70
30	7.48		5.79	6.53	5.16	5.03	7.56	7.80	7.73	7.87	7.81	7.70
31	7.47		5.76		5.09		7.58	7.78		7.87		7.70

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.69	7.52	7.25	6.96	5.77	7.07	7.35	7.65	7.70	7.91	8.06	7.94
2	7.69	7.51	7.22	6.89	5.71	7.50	7.31	7.65	7.70	7.91	8.06	7.94
3	7.67	7.69	7.18	6.82	5.65	7.45	7.42	7.70	7.70	7.91	8.06	7.93
4	7.65	7.64	7.16	6.75	5.56	7.37	7.54	7.70	7.70	7.94	8.04	7.92
5	7.65	7.67	7.12	6.67	5.50	7.30	7.55	7.77	7.75	7.94	8.04	7.90
6	7.65	7.65	7.07	6.61	5.42	7.24	7.68	7.75	7.75	7.94	8.04	7.90
7	7.65	7.64	7.03	6.53	5.36	7.20	7.67	7.73	7.74	7.98	8.04	7.90
8	7.64	7.63	6.98	6.46	5.29	7.18	7.65	7.72	7.74	7.99	8.04	7.90
9	7.63	7.62	6.91	6.37	5.26	7.14	7.63	7.71	7.74	8.06	8.04	7.90
10	7.62	7.61	6.87	6.27	6.90	7.05	7.63	7.72	7.73	8.06	8.04	7.90
11	7.60	7.60	6.82	6.19	6.93	6.95	7.62	7.72	7.74	8.05	8.04	7.89
12	7.60	7.58	6.77	6.12	6.85	6.85	7.59	7.73	7.75	8.05	8.04	7.89
13	7.59	7.57	6.73	6.05	6.77	6.79	7.59	7.73	7.75	8.05	8.02	7.89
14	7.59	7.56	6.65	5.99	6.65	6.72	7.60	7.73	7.75	8.05	8.02	7.89
15	7.58	7.55	6.77	5.90	6.55	7.33	7.60	7.73	7.75	8.24	8.02	7.87
16	7.58	7.52	6.72	5.81	6.47	7.25	7.58	7.73	7.75	8.16	8.00	7.87
17	7.57	7.53	6.62	5.75	6.40	7.20	7.77	7.73	7.75	8.14	8.00	7.87
18	7.52	7.53	6.57	5.68	6.31	7.17	7.70	7.73	7.91	8.13	8.00	7.87
19	7.52	7.51	6.52	5.61	6.23	7.15	7.68	7.73	7.85	8.12	8.00	7.86
20	7.51	7.50	6.45	5.57	6.13	7.10	7.65	7.73	7.85	8.15	8.00	7.86
21	7.50	7.47	6.39	5.52	6.08	7.05	7.62	7.72	7.84	8.13	8.00	7.85
22	7.50	7.45	6.30	5.47	6.60	7.43	7.61	7.72	8.05	8.12	7.96	7.85
23	7.48	7.44	6.25	5.43	6.47	7.43	7.60	7.73	7.96	8.12	7.96	7.84
24	7.47	7.41	6.20	5.38	6.35	7.42	7.58	7.72	7.98	8.12	7.96	7.84
25	7.45	7.39	6.13	5.34	6.25	7.38	7.57	7.77	7.96	8.12	7.97	7.84
26	7.44	7.38	6.07	6.02	6.67	7.36	7.57	7.74	7.94	8.11	7.97	7.84
27	7.43	7.36	6.55	6.07	6.57	7.35	7.62	7.72	7.93	8.11	7.97	7.83
28	7.57	7.33	7.14	6.00	6.70	7.31	7.62	7.72	7.92	8.11	7.96	7.82
29	7.57	7.28	7.14	5.91	6.45	7.43	7.63	7.70	7.92	8.10	7.95	7.82
30	7.55		7.08	5.85	6.34	7.39	7.65	7.70	7.90	8.06	7.95	7.82
31	7.53		7.02		6.27		7.65	7.70		8.06		7.78

G620. 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 3. Land-surface datum is 6.13 feet above msl. Highest water level 6.55 above msl, Oct. 16, 1952; lowest 3.57 above msl, May 26, 1952. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 14	6.08	Nov. 24	5.99	Dec. 4	5.89	Dec. 14	5.92
15	6.08	25	5.98	5	5.88	15	5.92
16	6.08	26	5.96	6	5.87	16	5.92
17	6.08	27	5.95	7	5.96	17	5.91
18	6.07	28	5.94	8	5.95	18	5.91
19	6.05	29	5.93	9	5.94	19	5.91
20	6.04	30	5.92	10	5.94	20	5.91
21	6.03	Dec. 1	5.91	11	5.94	21	5.90
22	6.02	2	5.90	12	5.93	22	5.89
23	6.00	3	5.89	13	5.93	23	5.88

G620--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 24	5.88	Dec. 26	5.86	Dec. 28	5.85	Dec. 30	5.93
25	5.87	27	5.85	29	5.83	31	5.90

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.89	5.72	5.50	4.49	5.32	3.93	4.91	5.73	e5.97	5.88	....	5.80
2	5.88	5.78	5.48	4.45	5.26	3.86	5.34	5.73	e5.94	5.93	4.38	5.80
3	5.88	5.85	5.46	4.41	5.18	3.79	5.47	5.70	e5.93	5.93	....	5.80
4	5.87	5.82	5.43	4.37	5.09	4.05	5.57	5.69	e5.92	....	....	5.80
5	5.87	5.82	5.38	4.32	5.01	4.05	5.56	5.68	e5.90	....	....	5.80
6	5.87	5.82	5.36	4.29	4.95	3.98	5.56	5.79	e5.88	....	....	5.80
7	5.87	5.82	5.33	4.26	4.88	3.88	5.68	5.93	e5.87	....	....	5.80
8	5.87	5.81	5.32	5.38	4.80	3.83	5.62	5.96	e5.87	....	....	5.80
9	5.86	5.81	5.30	5.48	4.74	4.47	5.62	5.98	e5.84	....	....	5.80
10	5.85	5.80	5.29	5.68	4.68	4.44	5.68	5.98	e5.87	e6.08	....	5.80
11	5.84	5.79	5.10	5.68	4.62	4.35	5.69	5.97	e5.87	....	....	5.80
12	5.83	5.78	5.07	5.68	4.56	4.26	5.68	....	e5.87	....	....	5.80
13	5.82	5.77	5.29	5.67	4.58	4.16	5.72	....	5.87	....	....	5.80
14	5.82	5.76	5.33	5.66	4.57	4.09	5.72	....	5.87	....	5.80	5.80
15	5.82	5.75	5.31	5.60	4.50	3.99	5.74	....	5.87	....	5.80	5.80
16	5.82	5.74	5.27	5.59	4.46	3.90	5.74	....	5.87	....	5.80	5.80
17	5.81	5.72	5.22	5.58	4.43	3.81	5.86	....	5.87	....	5.80	5.80
18	5.81	5.71	5.16	5.66	4.73	3.73	5.86	....	5.87	....	5.80	5.79
19	5.81	5.70	5.09	5.62	4.67	3.68	5.86	....	5.87	....	5.80	5.79
20	5.80	5.68	5.06	5.60	4.58	3.67	5.86	....	5.87	....	5.79	5.79
21	5.79	5.66	5.03	5.59	4.51	3.98	5.82	....	5.81	....	5.78	5.79
22	5.78	5.63	4.97	5.58	4.43	4.08	5.82	....	5.81	....	5.78	5.79
23	5.78	5.63	4.91	5.57	4.34	4.09	5.81	....	5.77	....	5.78	5.79
24	5.78	5.61	4.87	5.55	4.26	4.02	5.81	....	5.77	....	5.78	5.79
25	5.77	5.59	4.79	5.53	4.19	3.90	5.79	....	5.77	....	5.78	5.77
26	5.76	5.57	4.76	5.52	4.12	3.79	5.81	....	5.77	....	5.78	5.76
27	5.75	5.55	4.69	5.50	4.08	3.73	5.80	....	5.74	....	5.80	5.76
28	5.74	5.53	4.63	5.47	4.28	3.88	5.78	....	5.73	....	5.80	5.76
29	5.73	....	4.58	5.39	4.18	3.91	5.76	....	5.74	....	5.80	5.76
30	5.72	....	4.57	5.37	4.08	3.93	5.74	....	5.73	....	5.80	5.76
31	5.72	....	4.53	....	3.99	....	5.73	e5.97	....	....	....	5.76

e Estimated.

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.76	5.70	5.61	5.30	4.49	4.80	5.55	6.05	5.95	6.18	6.40	e6.15
2	5.75	5.78	5.58	5.23	4.41	5.35	5.55	6.03	5.93	6.18	6.40	e6.14
3	5.75	5.84	5.55	5.18	4.35	5.55	5.60	6.01	5.90	6.16	6.38	e6.13
4	5.75	5.78	5.53	5.11	4.30	5.55	5.60	6.00	5.98	6.16	6.36	e6.12
5	5.75	5.85	5.53	5.06	4.21	5.55	5.60	5.99	5.95	6.21	6.35	e6.11
6	5.75	5.85	5.53	5.00	4.14	5.55	5.75	5.96	5.93	6.20	6.35	e6.10
7	5.75	5.86	5.53	4.94	4.08	5.57	5.72	5.96	5.92	6.25	6.33	e6.09
8	5.74	5.86	5.50	4.87	3.98	5.57	5.70	5.96	5.90	6.27	6.33	e6.08
9	5.74	5.86	5.48	4.79	3.95	5.57	5.70	5.96	5.90	6.32	6.32	e6.07
10	5.73	5.86	5.46	4.71	4.51	5.56	5.70	6.03	6.10	6.32	6.32	e6.06
11	5.73	5.85	5.43	4.64	4.53	5.55	5.70	6.05	6.13	6.42	6.30	e6.06
12	5.73	5.84	5.38	4.58	4.62	5.54	5.70	6.05	6.12	6.40	6.30	e6.05
13	5.73	5.82	5.35	4.54	4.55	5.52	5.69	6.06	6.10	6.39	6.30	e6.04
14	5.72	5.81	5.33	4.51	4.48	5.50	5.75	6.06	6.07	6.38	6.29	e6.03
15	5.72	5.79	5.33	4.44	4.40	5.45	5.75	6.06	6.05	6.53	6.29	6.04
16	5.72	5.78	5.35	4.37	4.33	5.40	5.74	6.15	6.02	6.55	6.28	6.03
17	5.71	5.78	5.28	4.31	4.28	5.36	5.93	6.10	5.95	6.55	6.27	6.02
18	5.71	5.78	5.21	4.27	4.20	5.30	5.94	6.06	6.10	6.55	6.26	6.01
19	5.70	5.77	5.15	4.20	4.11	5.50	5.94	6.02	6.07	6.55	6.26	6.01
20	5.69	5.75	5.09	4.15	4.02	5.42	5.94	5.98	6.08	6.55	e6.25	6.00
21	5.69	5.74	5.04	4.10	3.94	5.39	5.93	5.95	6.08	6.53	e6.25	6.00
22	5.68	5.73	4.98	4.03	3.88	5.43	5.93	5.93	6.18	6.52	e6.24	5.90
23	5.68	5.72	4.93	3.99	3.79	5.45	5.93	5.90	6.15	6.50	e6.23	5.98
24	5.68	5.72	4.88	3.94	3.71	5.40	5.90	5.89	6.13	6.50	e6.22	5.97
25	5.67	5.70	4.81	3.89	3.62	5.56	6.06	5.88	6.24	6.50	e6.21	5.97

G620--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
25	5.87	5.69	4.77	3.87	3.57	5.55	5.99	5.87	6.24	6.50	e6.20	5.96
27	5.65	5.67	5.09	4.74	5.00	5.53	5.98	5.87	6.24	6.50	e6.19	e5.96
28	5.62	5.65	5.23	4.69	5.04	5.50	5.98	5.87	6.23	6.49	e6.18	e5.95
29	5.70	5.63	5.38	4.60	4.97	5.49	6.04	5.87	6.20	6.46	e6.17	e5.94
30	5.70		5.39	4.54	4.90	5.55	6.03	5.85	6.18	6.42	e6.16	e5.93
31	5.70		5.37		4.85		6.05	5.95		6.42		5.95

e Estimated.

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

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.69	1.50	1.50	1.87	1.16	1.00	0.60	1.23	1.76	2.07	4.18	....
2	1.69	1.55	1.49	1.81	1.14	1.02	.62	1.22	1.74	2.40	4.04	....
3	1.68	1.75	1.48	1.74	1.12	1.01	.91	1.36	1.71	2.66	3.92	....
4	1.67	1.79	1.47	1.66	1.10	.99	1.05	1.70	1.69	3.61	3.81	....
5	1.66	1.81	1.46	1.63	1.09	.97	1.13	1.93	1.66	3.65	3.71	....
6	1.66	1.79	1.45	1.61	1.07	.94	1.17	1.97	1.65	3.48	3.61	....
7	1.65	1.77	1.44	1.58	1.05	.94	1.20	e1.94	1.71	3.39	3.49	....
8	1.64	1.73	1.42	1.54	1.03	.93	1.22	1.92	1.74	3.27	3.39	....
9	1.63	1.70	1.41	1.51	.98	.91	1.24	1.87	1.73	3.74	3.30	....
10	1.62	1.69	1.39	1.47	.94	.87	1.24	1.85	1.75	3.84	3.22	....
11	1.61	1.67	1.38	1.44	.92	.84	1.23	1.93	1.86	3.57	3.13	....
12	1.60	1.65	1.37	1.42	.92	.81	1.25	1.79	1.92	3.47	3.06	....
13	1.59	1.64	1.36	1.40	.92	.78	1.30	1.75	1.95	3.92	2.99	....
14	1.60	1.63	1.35	1.37	.91	.75	1.36	1.74	1.96	3.83	2.93	....
15	1.59	1.61	1.36	1.34	.89	.79	1.38	1.76	1.97	3.64	2.86	....
16	1.58	1.60	1.36	1.31	.88	.81	1.39	1.81	1.95	3.49	2.79	....
17	1.57	1.61	1.32	1.28	.87	.80	1.41	1.84	1.93	3.37	2.73	....
18	1.56	1.59	1.31	1.25	.84	.74	1.42	1.85	2.08	3.32	2.68	....
19	1.56	1.57	1.29	1.22	.82	.73	1.41	1.80	2.17	3.24	2.64	....
20	1.55	1.56	1.28	1.20	.81	.71	1.40	1.79	2.23	3.19	2.59	....
21	1.54	1.55	1.28	1.18	.79	.69	1.38	1.78	2.24	3.10	2.54	....
22	1.53	1.54	1.26	1.16	.78	.68	1.36	1.77	2.24	3.05	2.49	....
23	1.52	1.53	1.25	1.14	.78	.73	1.33	1.76	2.04	3.02	2.43	....
24	1.52	1.55	1.23	1.11	.77	.73	1.30	1.79	2.00	3.59	2.39	....
25	1.51	1.53	1.22	1.10	.75	.72	1.28	1.81	2.15	3.67	2.36	....
26	1.50	1.53	1.24	1.22	.73	.70	1.29	1.77	2.05	3.54	2.32	2.35
27	1.50	1.52	1.43	1.25	.82	.67	1.29	1.76	2.00	4.98	2.28	2.32
28	1.49	1.51	1.79	1.23	.90	.65	1.30	1.76	2.25	5.05	....	2.30
29	1.57	1.51	1.98	1.21	.95	.64	1.31	1.79	2.18	4.70	....	2.28
30	1.53		1.99	1.19	.98	.62	1.27	1.80	2.10	4.50	....	2.27
31	1.52		1.89		.99		1.25	1.81		4.34		2.26

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, 1945. Records available: 1939-52.

Daily highest water level, below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.85	0.58	0.95	1.07	1.23	1.38	1.13	1.34	1.11	2.35	3.99	1.87
2	.73	.70	.91	.95	1.25	1.45	1.20	1.25	1.06	2.52	3.89	1.87
3	.70	.92	.94	.90	1.18	1.48	2.71	1.22	1.03	2.49	3.79	1.78
4	.68	.99	.94	.87	1.11	1.38	....	1.36	1.01	2.94	3.61	1.71
5	.67	1.05	.90	.90	1.11	1.30	....	1.31	1.02	3.72	3.38	1.66
6	.70	1.05	.84	.92	1.15	1.20	....	1.25	1.08	3.27	3.20	1.66
7	.60	1.00	1.00	.97	1.11	1.16	....	1.27	1.22	3.03	3.13	1.65
8	.59	.79	1.25	1.07	1.07	1.29	....	1.40	1.25	2.87	3.06	1.69
9	.60	.67	1.38	1.16	.99	1.35	....	1.38	1.08	2.74	2.97	1.74
10	.64	.61	1.43	1.20	1.06	1.15	....	1.34	1.16	2.91	2.84	1.83

S19--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	0.90	0.59	1.41	1.23	1.12	1.07	1.53	1.42	1.22	2.75	2.78	1.94
12	.99	.55	1.40	1.24	1.17	1.00	1.57	1.21	1.30	2.72	2.72	1.83
13	1.02	.54	1.34	1.24	1.20	.95	1.46	1.16	1.31	2.73	2.66	1.84
14	.87	.54	1.30	1.26	1.05	.90	1.29	1.04	1.29	2.62	2.51	1.93
15	.85	.53	1.17	1.36	.98	.88	1.36	.98	1.24	2.55	2.45	1.92
16	.83	.52	1.29	1.39	1.00	.96	1.37	1.03	1.14	2.47	2.51	1.88
17	.81	.69	1.42	1.43	1.05	.95	1.39	1.28	1.06	2.35	2.26	1.75
18	.77	.76	1.47	1.35	1.07	.92	1.18	1.30	1.71	2.33	2.15	1.65
19	.75	.75	1.51	1.22	.94	.98	1.09	1.02	1.86	2.39	2.15	1.66
20	.74	.70	1.36	1.17	.92	1.01	1.17	.96	2.00	2.35	2.11	1.61
21	.75	.62	1.38	1.15	.97	1.01	1.25	1.38	1.89	2.32	2.22	1.56
22	.71	.61	1.39	1.11	.89	1.01	1.12	1.49	1.69	2.31	2.25	1.64
23	.70	.63	1.40	1.05	.86	1.02	1.16	1.56	1.59	2.34	2.12	1.57
24	.67	.65	1.42	.97	.82	1.02	1.22	1.60	1.45	2.96	2.02	1.52
25	.72	.65	1.41	.93	.80	1.03	1.28	1.51	1.36	2.99	1.94	1.47
26	.75	.71	1.42	.99	.88	1.05	1.26	1.45	1.43	2.90	1.89	1.40
27	.63	.81	1.40	.83	.88	1.02	1.40	1.49	1.57	5.91	1.85	1.38
28	.61	.87	1.41	.87	1.01	1.00	1.47	1.33	1.66	4.99	1.84	1.37
29	.60	.91	1.29	.99	1.12	1.02	1.44	1.21	1.66	4.55	1.83	1.34
30	.62		1.15	1.15	1.15	1.04	1.43	1.11	1.77	4.28	1.85	1.43
31	.60		1.09	1.19	1.19	1.19	1.48	1.10		4.15		1.44

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. Water level affected by pumping of nearby wells. Highest water level 7.06 above msl, Oct. 12, 1947; lowest 2.38 below msl, June 17, 1945. Records available: 1940-52.

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	-0.16	0.00	+0.08	+0.26	-0.13	+0.20	-0.33	+0.29	+0.48	+0.87	+3.27	+0.84
2	.23	-.08	.10	+.12	.13	.26	.32	.34	.17	1.20	3.24	.73
3	.22	+.25	.11	-.09	.21	.24	-.30	.39	.12	1.74	3.10	.68
4	.26	.52	.09	.16	.22	.41	+1.68	.48	.08	1.95	2.78	.60
5	.35	.28	.15	.12	.00	.25	1.50	.56	.06	2.05	2.59	.55
6	.48	.19	.19	-.03	.10	.14	1.13	.53	.24	2.45	2.52	.55
7	.34	+.06	+.08	+.01	.12	.16	.86	.69	.32	2.32	2.49	.55
8	.06	-.04	-.02	+.04	.15	.42	.73	.56	.32	2.32	2.38	.52
9	.22	.14	+.03	-.08	.10	.32	.52	.54	.40	2.26	2.29	.58
10	-.16	.09	.03	-.10	.11	+.04	.43	.51	.40	2.30	1.95	.60
11	+.03	.14	+.08	+.05	-.10	-.10	.51	.47	.44	2.25	1.88	.98
12	-.25	.09	-.03	.02	+.07	.20	.78	.20	.50	2.23	1.98	1.17
13	-.31	.18	+.04	.01	.24	.32	.40	.17	.53	1.94	1.64	1.17
14	+.06	.30	.20	+.18	+.02	.38	.30	+.02	.52	1.92	1.58	1.02
15	.00	.30	.34	.00	-.10	.31	.43	-.10	.40	1.73	1.51	.83
16	+.01	.30	.29	-.13	.00	.12	.39	-.14	.26	1.57	1.37	.76
17	-.03	.29	.31	.30	-.10	.13	.38	+.36	.18	1.55	1.25	.73
18	.11	.17	.23	.32	.05	.18	.40	.39	.17	1.90	1.16	.63
19	.12	.24	.10	.09	.22	.20	.32	+.17	1.01	1.61	1.18	.81
20	.03	.33	.07	.11	.34	.38	.13	-.05	1.04	1.57	1.33	.61
21	.06	.34	.06	.08	.34	.34	.10	+.02	1.15	1.96	1.30	.60
22	.09	.28	.06	.21	.35	-.29	.09	.37	.80	1.99	1.22	.39
23	.15	-.29	.12	.21	.25	+.12	.04	.61	.73	2.00	1.06	.34
24	.24	+.03	.15	.27	.31	-.24	.05	.61	.64	2.00	.87	.57
25	.10	-.13	.22	.28	.28	.37	.19	.56	.68	1.91	.79	.52
26	.10	+.19	.30	-.28	.39	.44	.25	.62	.70	1.90	.78	.52
27	.20	+.05	.29	+.24	.26	.50	.35	.61	.72	2.20	.89	.53
28	.22	....	.40	.23	-.12	.50	.61	.40	.70	4.54	1.06	.52
29	-.15	.02	.24	.06	+.16	.20	.53	.32	.83	4.22	.94	.34
30	+.18		.17	+.06	.15	.13	.34	.51	.94	3.82	.96	.27
31	+.08		.34		.16		.30	.57		3.48		.17

S182. International Fruit Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 56 S., R. 40 E. Drilled unused water-table well in limestone of Biscayne aquifer, diameter 6 inches, depth 51 feet. Land-surface datum is 11.14 feet above msl. Highest water level 10.06 above msl, Oct. 5, 1948; lowest 0.44 below msl, June 20, 1945. Records available: 1940-52.

S182--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.68	2.07	2.25	e2.22	1.94	1.90	1.54	2.75	3.37	4.84	7.07	4.87
2	2.66	2.06	2.23	e2.27	1.92	1.97	1.53	2.74	3.36	4.90	6.98	4.82
3	2.64	2.19	2.21	e2.31	1.90	2.01	1.73	2.73	3.36	5.05	6.90	4.74
4	2.63	2.28	2.19	2.35	1.89	2.03	1.94	2.75	3.33	5.61	6.82	4.68
5	2.61	2.35	2.17	2.34	1.87	2.04	2.09	2.77	3.32	5.91	6.72	4.63
6	2.58	2.39	2.15	2.34	1.85	2.03	....	2.79	3.32	6.08	6.64	4.58
7	2.57	....	2.15	2.33	1.83	2.06	....	2.79	3.32	6.42	6.55	4.52
8	2.55	2.50	2.13	2.31	1.80	2.14	....	2.78	3.33	6.59	6.46	4.46
9	2.52	2.50	2.10	2.30	1.78	2.19	....	2.78	3.37	6.69	6.37	4.40
10	2.50	2.49	2.08	2.27	1.76	2.21	....	2.78	3.42	6.75	6.29	4.38
11	2.47	2.49	2.06	2.22	1.74	2.20	2.53	2.77	3.54	6.76	6.21	4.56
12	2.44	2.47	2.04	2.20	1.73	2.18	2.53	2.75	3.64	6.76	6.14	4.49
13	2.42	2.45	2.02	2.18	1.71	2.15	2.52	2.73	3.69	6.75	6.07	4.43
14	2.39	2.44	2.00	2.16	1.69	2.13	2.54	2.70	3.74	6.71	6.04	4.38
15	2.36	2.42	1.99	2.14	1.67	e2.10	2.56	2.67	3.77	6.66	6.00	4.31
16	2.34	2.41	1.98	2.12	1.65	e2.06	2.57	2.68	3.78	6.61	6.03	4.27
17	2.31	2.41	1.97	2.08	1.64	e2.01	2.64	2.71	3.78	6.69	5.85	4.21
18	2.30	2.41	1.96	2.06	1.62	e1.95	2.74	2.75	3.82	6.56	5.77	4.16
19	2.28	2.40	1.94	2.05	1.61	e1.91	2.81	2.78	3.89	6.51	5.70	4.09
20	2.26	2.39	1.93	2.02	1.60	1.88	2.85	2.80	4.24	6.48	5.63	4.05
21	2.24	2.37	1.89	e1.93	1.62	1.85	2.87	2.81	4.32	6.43	5.54	4.02
22	2.22	2.36	1.88	1.89	1.62	1.82	2.88	2.83	4.47	6.41	5.47	3.98
23	2.20	2.34	1.86	1.87	1.59	e1.77	2.88	2.85	4.54	6.39	5.40	3.94
24	2.18	2.33	1.84	1.85	1.58	e1.73	2.87	2.89	4.57	7.15	5.32	3.90
25	2.17	2.31	1.82	1.83	1.56	e1.68	2.86	2.91	4.60	7.28	5.24	3.87
26	2.16	2.28	1.80	1.85	1.55	e1.63	2.85	2.97	4.62	7.23	5.18	3.84
27	2.15	2.29	1.89	1.93	1.53	1.62	2.83	3.01	4.62	7.43	5.11	3.81
28	2.13	2.29	2.00	1.96	1.56	1.62	2.81	e3.05	4.62	7.46	5.05	3.78
29	2.12	2.27	2.09	1.96	1.65	1.61	2.81	3.08	4.61	7.33	5.00	3.75
30	2.11		2.13	1.95	1.79	1.58	2.79	3.21	4.60	7.23	4.94	3.74
31	2.09		e2.18		1.86		2.77	3.35		7.15		3.71

e Estimated.

S196. University of Florida Experiment Station. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 56 S., R. 3° 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: 1932-52.

Daily water level above msl

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.64	1.00	1.42	2.58	1.82	1.22	2.28	3.42	4.62	4.46	5.30	3.48
2	1.62	.99	1.40	2.56	1.82	1.34	2.24	3.34	4.54	4.40	5.16	3.46
3	1.60	1.15	1.34	2.52	1.84	1.50	2.42	3.62	4.44	4.35	5.14	3.38
4	1.55	1.33	1.34	2.53	1.92	1.62	3.38	3.72	4.38	4.52	5.02	3.32
5	1.54	1.42	1.34	2.42	1.82	1.64	3.62	3.90	4.28	4.70	4.92	3.28
6	1.53	1.56	1.34	2.34	1.84	1.70	3.62	3.90	4.28	4.78	4.87	3.28
7	1.50	1.64	1.28	2.32	1.88	1.68	3.65	3.88	4.34	5.00	4.77	3.22
8	1.48	1.67	1.28	2.22	1.78	1.70	3.56	3.86	4.38	5.28	4.67	3.20
9	1.44	1.74	1.28	2.22	1.70	1.70	3.12	3.92	4.34	5.32	4.58	3.18
10	1.42	1.76	1.26	2.06	1.64	1.66	3.18	4.02	4.32	5.52	4.52	3.12
11	1.40	1.77	1.26	2.04	1.62	1.64	3.26	3.98	4.46	5.52	4.42	3.12
12	1.37	1.74	1.28	1.96	1.52	1.62	3.42	3.98	4.52	5.54	4.36	3.10
13	1.35	1.74	1.24	1.92	1.56	1.58	3.31	3.98	4.54	5.62	4.34	3.08
14	1.33	1.72	1.22	1.84	1.42	1.60	3.31	3.92	4.56	5.78	4.30	3.08
15	1.30	1.72	1.18	1.82	1.44	1.62	3.72	3.92	4.52	5.74	4.24	3.04
16	1.29	1.67	1.26	1.74	1.34	1.64	3.82	3.92	4.42	5.94	4.22	3.02
17	1.25	1.66	1.32	1.68	1.22	1.75	3.82	3.94	4.34	5.84	4.14	2.98
18	1.24	1.64	1.32	1.62	1.18	1.84	4.24	4.02	4.28	5.74	4.07	2.94
19	1.21	1.62	1.32	1.56	1.12	1.82	4.30	4.04	4.22	5.64	4.11	2.92
20	1.19	1.60	1.32	1.52	1.12	1.84	4.24	4.00	4.20	5.62	3.97	2.90
21	1.17	1.58	1.26	1.44	1.02	1.84	4.12	3.92	4.92	5.48	3.87	2.88
22	1.14	1.58	1.24	1.38	.98	1.80	4.12	3.88	4.94	5.42	3.87	2.84
23	1.13	1.54	1.18	1.32	.92	2.02	4.12	3.94	4.96	5.34	3.84	2.82
24	1.11	1.52	1.16	1.12	.88	2.22	3.92	3.96	4.88	5.44	3.87	2.82
25	1.07	1.47	1.12	1.22	.84	2.30	3.88	4.04	4.85	5.72	3.74	2.74

S196--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.06	1.44	1.14	0.92	0.80	2.42	3.74	4.22	4.83	5.64	3.70	2.72
27	1.05	1.44	1.08	1.52	.74	2.42	3.72	4.42	4.72	5.78	3.66	2.72
28	1.04	1.42	1.18	1.70	.77	2.38	3.64	4.44	4.62	5.76	3.62	2.68
29	1.02	1.42	2.22	1.82	.98	2.32	3.58	4.52	4.55	5.62	3.58	2.68
30	1.02		2.52	1.82	1.08	2.28	3.58	4.28	4.52	5.52	3.52	2.62
31	1.02		2.62		1.14		3.52	4.62		5.40		2.58

S539. U. S. Dept. of Agriculture. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 55 S., R. 4 $^{\circ}$ 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. Water level affected by tides in Biscayne Bay. Highest water level 5.99 above msl, Sept. 15, 1945; lowest 0.31 below msl, Mar. 31, 1950. Records available: 1945-52.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.70	+0.42	+0.62	+0.37	+0.29	+0.71	+0.07	+0.48	+0.84	+1.60	+2.18	+1.02
2	.56	.52	.56	.18	.34	.61	.16	.45	.80	1.60	2.09	1.02
3	.51	.97	.53	.17	....	.65	.72	.47	.79	1.58	1.91	1.01
4	.41	.49	.48	.26	....	.64	.65	.49	.80	1.62	1.78	1.01
5	.36	.45	.28	.27	....	.62	.57	.52	.84	1.62	1.68	1.02
6	.27	.23	.32	.28	....	.54	.56	.58	1.05	1.62	1.61	1.04
7	.31	.25	.37	.38	....	.40	.52	.64	1.00	1.52	1.49	1.16
8	.41	.28	.55	.50	....	.40	.50	.64	1.12	1.48	1.39	1.15
9	.46	.25	.62	.56	.24	.36	.53	.54	1.10	1.45	1.27	1.04
10	.44	.26	.76	.58	.30	.30	.49	.50	1.07	1.36	1.24	1.04
11	.57	.35	.74	.56	.36	.27	.52	.49	1.28	1.37	1.08	.84
12	.59	.38	.58	.54	.36	.24	.54	.46	1.30	1.48	.98	.86
13	.52	.42	.53	.54	.36	.34	.66	.41	1.34	1.58	.99	.88
14	.56	.46	.51	.42	.27	.36	.72	.37	1.25	1.65	1.04	.89
15	.54	.46	.47	.20	.22	.24	.59	.33	1.20	1.70	1.06	.75
16	.50	.49	.37	.13	.23	.21	.48	.68	1.09	1.66	1.07	.69
17	.49	.44	.31	.16	.28	.18	.64	.61	1.11	1.53	1.14	.80
18	.48	.32	.38	.24	.31	.17	.54	.55	1.29	1.54	1.18	.80
19	.39	.31	.34	.31	.37	.12	.46	.59	1.22	1.55	1.24	.82
20	.38	.29	.24	.36	.51	.10	.59	.66	1.23	1.50	1.24	.85
21	.40	.31	.32	.42	.46	.11	.52	.68	1.15	1.59	1.10	.76
22	.45	e.37	.43	.44	.44	.19	.50	.68	1.09	1.76	1.01	.80
23	.42	e.54	.44	.44	.50	.16	.46	.69	1.04	1.77	.91	.69
24	.36	.63	.45	.35	.54	.08	.44	.69	1.05	1.91	.99	.63
25	.42	.84	.37	.35	.59	+ .02	.46	.72	1.10	1.97	1.15	.61
26	.42	.94	.41	.55	.58	-.04	.55	.74	1.16	1.90	1.19	.53
27	.45	e.69	.59	.55	.60	-.04	.59	.79	1.25	2.28	1.10	.57
28	.47	e.68	.52	.40	.68	.05	.63	.84	1.33	2.28	1.00	.60
29	.49		.54	.30	.74	-.05	.64	.79	1.36	2.16	1.05	.55
30	.41		.43	.24	.78	+ .02	.62	.84	1.36	2.14	.99	.61
31	.34		.38		.73		.56	.92		2.18		.59

e Estimated.

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	+0.23	-0.01	+0.22	0.00	+0.06	+0.42	-0.16	+0.19	+0.50	+1.05	+1.76	+0.60
2	.14	+ .07	.20	-.11	+ .12	.35	-.07	.15	.46	1.21	1.64	.63
3	.09	.40	.20	-.06	....	.38	+ .12	.17	.47	1.14	1.50	.63
4	.04	.24	+ .09	-.00	....	.32	.28	.20	.47	1.22	1.39	.63
5	+ .01	.11	-.01	-.01	....	.29	.25	.22	.49	1.20	1.34	.67
6	.00	+ .03	+ .05	-.04	....	.09	.24	.25	.62	1.20	1.28	.68
7	-.06	-.04	-.03	-.00	....	.06	.18	.33	.66	1.21	1.19	.84
8	-.02	.04	.11	+ .10	....	+ .07	.17	.29	.64	1.18	1.11	.78
9	+ .06	.04	.24	.18	-.12	-.01	.19	.26	.77	1.16	1.04	.75
10	-.10	.09	.37	.20	-.06	-.04	.19	.20	.76	1.11	.97	.75
11	.01	-.02	.28	.10	.00	.06	.23	.21	.92	1.14	.85	.58
12	.22	.00	.21	.11	+ .02	-.06	.28	.18	1.08	1.21	.77	.53
13	.15	+ .06	.14	+ .13	-.02	-.06	.40	.15	1.03	1.27	.75	.52
14	.18	.08	.14	-.02	.08	+ .03	.40	.10	.97	1.35	.73	.52
15	.13	.12	+ .09	.15	-.10	-.05	.27	.08	.88	1.38	.75	.44

S539--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	+0.14	+0.11	0.00	-0.17	-0.02	-0.06	+0.19	+0.16	+0.80	+1.35	+0.72	+0.38
17	.15	.05	-.02	.14	+.02	.11	.25	.31	.82	1.22	.75	.33
18	.09	+.03	+.06	.06	+.01	.14	.24	.28	.90	1.19	.81	.42
19	.06	.00	-.05	-.03	.06	.18	.16	.33	.91	1.19	.82	.42
20	.05	-.03	.07	+.01	.14	.20	.20	.38	.92	1.14	.85	.45
21	.04	.05	-.06	.04	.14	.21	.23	.42	.86	1.10	.73	.39
22	.06	-.05	+.04	.05	.10	.16	.21	.41	.81	1.27	.64	.39
23	+.09	....	.08	+.04	.17	.12	.18	.42	.76	1.37	.59	.32
24	-.03	+.20	+.07	-.04	.21	.22	.18	.42	.77	1.45	.62	.30
25	+.02	.30	-.02	.00	.27	.25	.23	.44	.81	1.59	.70	.29
26	.02	e.44	.00	+.06	.27	.29	.31	.47	.87	1.51	.82	.23
27	.06	e.20	+.26	.12	.33	.27	.36	.53	.92	1.63	.74	.20
28	.06	e.28	.19	+.03	.44	.29	.40	.57	1.02	1.89	.66	.22
29	+.04	.29	.11	-.02	.50	.25	.36	.50	1.04	1.80	.63	.21
30	-.01		.06	.01	.50	.20	.35	.55	1.00	1.76	.61	.20
31	-.05		.06		.47		.28	.62		1.77		.23

e Estimated.

Duval County

18. C. J. Price. Riverside Ave. and Lomax St., Jacksonville. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches. Land-surface datum is 4.48 feet above msl. Highest water level 43.2 above lsd, Nov. 26, 1938; lowest 31.2 above lsd, May 8, 1951. Records available: 1938, 1940-41, 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	+35.9	Apr. 15	+35.3	July 14	+31.4	Oct. 27	+35.8
Mar. 5	+36.2	May 27	+34.7	Sept. 8	+34.1	Dec. 15	+35.5

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 9.8 above lsd, July 15, 1952. Records available: 1939-41, 1946-52. Jan. 10, 10.7; Mar. 6, 10.6; May 28, 10.6; July 15, 9.8; Sept. 9, 10.1; Oct. 28, 9.8; Dec. 16, 8.5, pumped recently.

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 9.02 below lsd, July 15, 1952. Records available: 1930-31, 1934, 1939-42, 1946-52.

Jan. 10	7.08	Apr. 17	8.48	July 15	9.02	Oct. 28	4.20
Mar. 6	7.30	May 28	6.54	Sept. 9	5.16	Dec. 16	7.85

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 24.4 above lsd, July 14, 1952. Records available: 1930-31, 1938, 1940-42, 1944-52.

Jan. 8	+29.0	Apr. 15	+27.1	July 14	+24.4	Oct. 27	+27.3
Mar. 5	+28.7	May 27	+27.6	Sept. 11	+27.5	Dec. 15	+26.9

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 24.8 above lsd, July 14, 1952. Records available: 1940-52.

Jan. 8	+27.5	Apr. 15	+27.2	July 14	+24.8	Oct. 27	+26.8
Mar. 5	+27.3	May 27	+26.7	Sept. 8	+25.8	Dec. 15	+26.5

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, 1944-52. Jan. 9, +37.9; Mar. 5, +33.1; Apr. 17, +37.5; May 28, +37.4; July 15, +36.2; Sept. 9, +36.7; Oct. 28, +37.1.

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, 1938-52.

123--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	+29.6	Apr. 15	+29.5	July 14	+27.7	Oct. 27	+28.8
Mar. 4	+29.6	May 27	+28.8	Sept. 8	+28.6	Dec. 15	+28.6

129. Jim Merrill. Ortega Blvd. and First St., Ortega. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, depth 600 feet, cased to 470. Land-surface datum is 8.63 feet above msl. Highest water level 42.3 above lsd, July 9, 1940; lowest 27.8 above lsd, May 8, 1951. Records available: 1940-42, 1944-52.

Jan. 8	+34.5	Apr. 15	+33.3	July 14	+30.8	Oct. 27	+32.8
Mar. 5	+34.8	May 27	+32.9	Sept. 10	+32.1	Dec. 15	+32.2

131. H. Vernon Branch. Formerly 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 30.3 above lsd, Apr. 18, 1950. Records available: 1934, 1940-42, 1944-52.

Jan. 9	+34.0	Apr. 17	+33.5	July 15	+30.5	Oct. 28	+32.3
Mar. 5	+33.3	May 28	+33.2	Sept. 9	+30.5	Dec. 17	+32.1

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 15.6 above lsd, June 20, 1951. Records available: 1940-42, 1944-52. Mar. 5, +20.3; Apr. 17, +19.9; May 28, +21.0; Oct. 28, +17.5 estimated; Dec. 17, +16.8, estimated.

147. V. C. Johnson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 1 N., R. 26 E. Drilled stock artesian well in Floridan aquifer, diameter 4 inches, depth 610 feet, cased to 446. Land-surface datum is 21.85 feet above msl. Highest water level 34.6 above lsd, Feb. 6, 1941; lowest 18.3 above lsd, Oct. 4, 1951. Records available: 1940-42, 1944-52.

Jan. 9	+24.0	Apr. 17	+23.8	July 15	+19.6	Oct. 28	+20.0
Mar. 5	+22.0	May 28	+22.9	Sept. 9	+20.4	Dec. 17	+19.8

149. Mrs. Bostwick. On north side of mouth of 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 18.7 above lsd, May 9, 1951. Records available: 1940-41, 1944-52.

Jan. 9	+23.0	Apr. 17	+21.3	July 15	+21.1	Oct. 28	+22.3
Mar. 5	+22.8	May 28	+21.9	Sept. 9	+21.9	Dec. 17	+21.5

154. J. M. Shield. SW $\frac{1}{4}$ sec. 22, T. 3 S., R. 27 E. Drilled domestic artesian well in Floridan aquifer, diameter 4 inches, depth 625 feet, cased to 461. Land-surface datum is 25.2 feet above msl. Highest water level 30.1 above lsd, July 15, 1947; lowest 21.6 above lsd, July 15, 1952. Records available: 1940-42, 1944, 1946-52.

Jan. 9	+23.8	Apr. 16	+23.2	July 15	+21.6	Oct. 28	+22.7
Mar. 7	+23.6	May 28	+22.6	Sept. 9	+22.7	Dec. 18	+23.0

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, 1944-52. Oct. 28, +36.5; Dec. 16, +34.8.

164. Ribault Club. Fort George Island. Drilled domestic artesian well in Floridan aquifer, diameter 8 inches, reported depth 840 feet, cased to 450. Land-surface datum is 15.71 feet above msl. Highest water level 45.0 above lsd, Aug. 19, 1930; lowest 35.5 above lsd, Aug. 3, 1950. Records available: 1930-31, 1940-41, 1944-52.

Jan. 10	+36.3	Apr. 17	+36.8	July 15	+35.8	Oct. 28	+36.9
Mar. 6	+37.3	May 28	+36.1	Sept. 9	+35.9	Dec. 17	+35.8

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 9.08 below lsd, Aug. 1, 1952. Records available: 1941-42, 1948-52.

206--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.49	6.73	6.23	6.30	6.94	7.40	8.90	8.98	8.37	8.00	7.97	8.02
2	6.49	6.45	6.35	6.31	7.06	7.40	8.90	8.91	8.32	8.04	8.01	7.93
3	6.50	6.21	6.29	6.46	7.18	7.45	8.86	8.80	8.30	8.15	7.98	7.98
4	6.47	6.24	6.32	6.44	7.23	7.50	8.78	8.75	8.34	8.22	7.99	8.02
5	6.37	6.34	6.48	6.50	7.34	7.55	8.67	8.80	8.37	8.14	7.97	7.92
6	6.29	6.55	6.48	6.69	7.44	7.65	8.60	8.83	8.33	8.08	7.91	7.96
7	6.45	6.57	6.48	6.68	7.55	7.70	8.47	8.78	8.27	8.02	8.02	7.97
8	6.38	6.66	6.50	6.73	7.64	7.77	8.37	8.73	8.25	7.93	8.08	7.96
9	6.34	6.61	6.45	6.77	7.72	7.88	8.34	8.67	8.25	7.98	7.98	7.93
10	6.42	6.62	6.31	6.88	7.80	8.02	8.37	8.60	8.17	8.08	7.84	7.82
11	6.65	6.55	6.20	6.91	7.81	8.12	8.50	8.55	8.06	8.11	7.83	7.93
12	6.60	6.61	6.26	6.93	7.85	8.23	8.61	8.57	8.16	8.07	7.82	7.95
13	6.51	6.65	6.11	6.81	7.80	8.39	8.59	8.58	8.19	8.03	7.82	....
14	6.44	6.68	6.13	6.69	7.81	8.41	8.55	8.60	8.17	7.98	7.80	....
15	6.48	6.67	6.12	6.74	7.80	8.30	8.58	8.58	8.12	7.94	7.81	7.97
16	6.49	6.56	6.23	6.79	7.84	8.23	8.68	8.56	8.09	7.95	8.00	8.04
17	6.48	6.57	6.25	6.88	7.91	8.26	8.81	8.53	8.12	8.03	8.00	8.05
18	6.47	6.70	6.22	6.92	7.90	8.34	8.92	8.52	8.18	8.05	7.89	8.06
19	6.48	6.68	6.25	6.95	7.82	8.43	8.94	8.54	8.25	7.92	7.85	8.07
20	6.43	6.60	6.32	7.00	7.71	8.50	8.84	8.57	8.28	7.87	7.71	8.00
21	6.46	6.65	6.33	7.02	7.73	8.53	8.70	8.60	8.23	8.05	7.77	7.93
22	6.39	6.69	6.34	7.09	7.77	8.48	8.68	8.62	8.10	7.98	7.88	7.96
23	6.56	6.53	6.36	7.10	7.80	8.49	8.68	8.63	8.12	7.92	7.87	8.01
24	6.71	6.42	6.35	7.09	7.78	8.38	8.70	8.67	8.12	7.88	7.86	8.06
25	6.64	6.47	6.40	7.00	7.66	8.42	8.73	8.63	8.06	7.86	7.82	8.05
26	6.58	6.20	6.36	6.86	7.52	8.53	8.84	8.54	8.00	7.90	7.90	8.00
27	6.51	6.28	6.35	6.80	7.52	8.67	8.83	8.45	8.02	7.84	7.85	7.96
28	6.31	6.33	6.36	6.78	7.54	8.82	8.73	8.47	8.05	7.79	8.01	7.95
29	6.47	6.22	6.41	6.76	7.47	8.90	8.75	8.43	8.04	8.01	8.02	7.94
30	6.72		6.47	6.85	7.40	8.88	8.85	8.32	8.01	8.08	8.00	7.84
31	6.82		6.42		7.38		8.96	8.35		8.02		7.71

Escambia County

45. U. S. Geol. Survey. Near Cantonment. Drilled observation artesian well in sand, diameter 4 inches, depth 152 feet. Highest water level 70.01 below lsd, Aug. 5, 1940; lowest 104.02 below lsd, Dec. 16, 1952. Records available: 1940-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	98.78	99.40	99.50	....	100.54	100.96	101.59	102.19	102.30	102.43	102.92	103.63
2	98.84	98.86	99.57	99.85	100.58	....	101.68	102.11	....	102.46	102.96	103.45
3	98.87	98.69	99.43	99.93	100.66	....	101.70	102.10	102.15	102.64	103.00	103.56
4	98.80	98.84	99.68	99.70	100.71	....	101.70	102.14	102.20	102.66	103.04	103.57
5	98.71	99.22	99.91	100.00	100.73	....	101.71	102.21	102.22	102.57	102.96	103.65
6	98.87	99.38	99.90	100.21	100.73	....	101.71	102.25	102.23	102.49	102.97	103.70
7	99.00	99.54	99.87	100.26	100.72	....	101.74	102.20	102.19	102.50	103.18	103.67
8	98.82	99.55	99.81	100.22	100.66	....	101.70	102.23	102.16	102.41	103.21	103.61
9	98.75	99.46	99.68	100.24	100.60	....	101.67	102.25	102.20	102.50	103.05	103.58
10	99.12	99.41	99.34	100.30	100.58	101.29	101.68	102.26	102.17	102.67	103.01	103.52
11	99.34	99.29	99.56	100.28	100.75	101.23	101.80	102.29	102.03	102.75	103.08	103.78
12	99.24	99.24	99.62	100.09	100.98	101.19	101.93	102.40	102.09	102.71	103.23	103.77
13	99.09	99.19	99.55	100.03	101.02	101.25	101.93	102.45	102.24	102.69	103.19	103.75
14	98.95	99.20	99.64	100.30	100.99	101.30	101.90	102.44	102.27	102.65	103.13	103.78
15	98.98	99.16	99.75	100.46	....	101.28	101.89	102.37	102.25	102.59	103.16	103.88
16	99.03	99.14	99.94	100.56	....	101.24	101.91	102.35	102.24	102.64	103.25	103.95
17	99.00	99.54	99.85	100.66	....	101.30	101.99	102.40	102.20	102.68	103.28	103.90
18	99.01	99.66	99.54	100.65	....	101.35	101.97	102.44	102.21	102.64	103.22	103.86
19	98.95	99.54	99.79	100.58	....	101.37	102.06	102.45	102.27	102.47	103.00	103.80
20	98.92	99.43	99.83	100.55	100.63	101.39	102.00	102.49	102.40	102.37	103.09	103.65
21	98.94	99.65	99.76	100.55	100.75	101.46	101.99	102.54	102.42	102.70	103.26	103.70
22	98.87	99.60	99.65	100.56	100.85	101.54	102.01	102.54	102.37	102.70	103.37	103.60
23	99.33	99.41	99.81	100.47	100.91	101.57	102.01	102.49	102.42	102.64	103.30	103.67
24	99.49	99.41	99.82	100.36	100.90	101.53	101.96	102.48	102.47	102.60	103.46	103.84
25	99.30	99.48	99.86	100.31	100.88	101.48	101.98	102.51	102.47	102.62	103.31	103.85

45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	99.15	99.42	99.86	100.33	100.88	101.49	102.10	102.49	102.44	102.74	103.50	103.86
27	98.99	99.69	99.91	100.39	100.90	101.49	102.10	102.40	102.44	102.75	103.67	103.82
28	98.87	99.52	100.00	100.48	100.94	101.52	102.04	102.32	102.49	102.78	103.75	103.79
29	99.24	99.36	100.04	100.47	100.86	101.57	102.01	102.25	102.54	103.08	103.64	103.71
30	99.51		100.04	100.49	100.82	101.55	102.08	102.21	102.50	103.12	103.66	103.34
31	99.58		99.85		100.88		102.19	102.25		103.01		103.39

46. U. S. Geol. Survey. Near 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 76.20 below lsd, Dec. 27, 19⁵². Records available: 1939-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.70	73.26	73.39	.....	73.79	73.85	74.18	74.45	74.86	75.20	75.67	.....
2	72.74	.....	73.44	73.75	73.80	73.88	74.20	74.42	.....	75.20	75.67	.....
3	72.75	72.78	73.37	73.79	73.84	73.87	74.21	74.41	.....	75.29	75.65	.....
4	72.74	72.87	73.45	73.71	73.85	73.88	74.21	74.44	.....	75.32	75.70	.....
5	72.68	73.05	73.68	73.82	.....	73.90	.....	74.50	.....	75.30	75.73	.....
6	72.75	73.24	73.70	73.94	73.84	73.94	.....	74.51	.....	75.20	75.72	.....
7	72.85	73.30	73.70	73.95	73.83	73.96	.....	74.47	.....	75.28	75.75	.....
8	.....	73.34	73.69	73.91	73.80	73.96	74.20	74.49	.....	75.23	75.78	.....
9	.....	73.30	73.66	73.92	73.76	73.99	74.19	74.50	.....	75.25	75.76	.....
10	72.89	73.28	.....	73.94	73.75	73.99	74.19	74.51	.....	75.35	75.76	75.80
11	.....	73.24	73.48	73.89	73.79	73.98	.....	74.54	.....	75.40	.....	75.91
12	72.96	73.21	73.54	73.77	73.94	73.97	.....	74.58	.....	75.40	.....	75.94
13	72.91	73.20	73.49	73.76	73.95	73.98	.....	74.59	.....	75.40	.....	75.94
14	.....	73.20	73.54	73.78	73.95	74.00	.....	74.59	.....	75.39	.....	75.95
15	.....	73.15	73.64	73.86	73.95	73.99	.....	74.58	.....	75.36	.....	.....
16	.....	73.13	73.78	73.90	73.86	73.99	.....	74.57	.....	75.37	.....	76.13
17	.....	73.30	73.75	73.95	73.84	74.01	.....	74.58	.....	75.40	.....	76.12
18	.....	73.42	73.67	73.95	73.84	74.03	.....	.....	.....	75.43	75.72	76.11
19	.....	73.39	73.75	73.90	73.81	74.04	.....	.....	.....	75.40	75.63	76.10
20	.....	73.31	73.76	73.88	73.76	74.04	.....	.....	.....	.....	75.62	75.99
21	.....	73.43	73.75	73.89	73.81	74.09	.....	.....	.....	75.53	75.63	75.99
22	72.83	73.43	73.72	73.90	73.86	74.15	74.34	.....	.....	75.57	75.68	75.98
23	73.07	73.30	73.75	73.85	73.89	74.19	74.35	.....	75.06	75.56	75.78	75.98
24	73.26	73.30	73.74	73.79	73.85	74.20	74.34	.....	75.11	75.55	.....	76.08
25	73.18	73.38	73.75	73.76	73.82	74.18	74.32	.....	75.13	.....	75.77	76.12
26	73.03	73.31	73.75	73.76	73.80	74.18	.....	74.83	75.13	.....	75.80	76.17
27	72.98	73.45	.....	73.77	73.79	74.17	.....	74.82	75.12	.....	75.90	76.20
28	72.88	73.42	.....	73.79	73.81	74.15	.....	74.81	75.14	75.49	76.00	76.20
29	73.05	73.32	.....	73.78	73.76	74.19	74.40	.....	.....	75.67	75.97	76.19
30	73.27	.....	.....	73.79	73.75	74.18	74.41	.....	.....	75.72	75.96	76.10
31	73.33	.....	.....	.....	73.79	.....	74.45	74.84	.....	75.71	.....	76.09

e Estimated.

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: 1940-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.76	6.98	7.13	.....	7.92	9.12	11.22	11.30	10.92	.....	.....	9.65
2	6.73	6.98	7.06	.....	8.08	9.11	11.24	11.30	.....	.....	.....	9.56
3	6.73	6.97	6.98	.....	8.20	9.12	11.28	11.30	.....	.....	.....	9.54
4	6.74	6.97	6.93	.....	8.27	9.15	11.29	11.31	.....	.....	.....	9.53
5	6.75	6.93	6.91	.....	8.30	9.19	11.29	11.31	.....	.....	.....	9.52
6	6.75	6.99	6.90	.....	8.38	9.26	11.29	11.34	.....	10.48	10.48	9.51
7	6.77	7.01	6.89	.....	8.47	9.35	11.29	11.34	.....	10.49	10.49	9.49
8	6.77	7.03	6.88	.....	8.62	9.39	11.31	11.34	.....	10.48	10.50	9.36
9	6.78	7.06	6.87	.....	8.79	9.40	11.34	11.33	10.74	10.48	10.50	9.31
10	6.80	7.08	6.75	.....	8.92	9.48	11.36	11.33	10.75	10.48	.....	9.29
11	6.83	7.09	6.64	6.58	8.94	9.61	11.37	11.32	10.76	10.47	.....	9.29
12	6.84	7.13	6.60	6.58	8.92	9.78	11.38	11.29	10.78	10.45	.....	9.30
13	6.83	7.17	6.58	6.57	8.91	9.97	11.39	11.30	10.78	10.41	.....	9.30
14	6.83	7.18	6.57	6.57	9.02	10.14	11.39	11.31	10.73	10.39	.....	9.30
15	6.84	7.19	6.57	6.60	9.15	10.25	11.42	11.32	10.65	10.39	.....	9.29

60--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	6.84	7.19	6.57	6.65	6.24	10.33	11.43	11.32	10.62	10.39	.....	9.28
17	6.85	7.18	....	6.74	9.30	10.40	11.41	11.31	10.61	10.40	.....	9.28
18	6.85	7.18	....	6.84	9.29	10.52	11.38	11.28	10.61	10.40	10.47	9.29
19	6.86	7.17	....	6.91	9.17	10.60	11.36	11.26	10.60	10.40	10.46	9.30
20	6.86	7.18	....	6.94	....	10.67	11.35	11.23	10.60	.....	10.46	9.29
21	6.87	7.20	....	6.98	9.04	10.75	11.32	11.23	10.58	.....	10.47	9.29
22	6.87	7.21	....	7.05	9.07	10.80	11.28	11.24	10.54	.....	10.47	9.29
23	6.87	7.22	....	7.18	9.08	10.84	11.28	11.24	.....	.....	10.45	9.28
24	6.89	7.22	....	7.26	9.08	10.87	11.28	11.22	.....	.....	10.31	9.27
25	6.90	7.22	....	7.33	9.07	10.95	11.29	11.13	.....	.....	10.17	9.26
26	6.90	7.24	....	7.35	9.05	11.04	11.30	11.08	.....	.....	10.09	9.25
27	6.89	7.23	....	7.47	9.04	11.13	11.30	11.06	.....	.....	10.05	9.23
28	6.89	7.22	....	7.55	9.07	11.18	.....	11.05	10.55	.....	9.96	9.22
29	6.90	7.18	....	7.62	9.12	11.20	.....	11.03	10.50	.....	9.90	9.20
30	6.93	.....	.....	7.74	9.14	11.21	11.27	11.00	.....	.....	9.84	9.20
31	6.96	.....	.....	.....	9.13	.....	11.28	10.97	.....	.....	.....	9.18

e Estimated.

60-A. U. S. Geol. Survey. H 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: 1940-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	6.07	Apr. 8	5.25	July 8	6.15	Oct. 6	5.75
14	5.86	15	5.17	15	5.84	13	6.02
21	5.87	21	5.45	22	5.92	20	6.04
28	5.68	28	5.60	29	6.20	27	6.73
Feb. 4	5.58	May 5	5.72	Aug. 5	6.12	Nov. 3	6.31
11	6.04	12	5.80	12	6.19	10	6.21
18	5.69	20	5.52	19	6.25	17	7.39
25	5.15	27	5.67	26	5.77	24	6.53
Mar. 3	5.15	June 3	5.84	Sept. 2	5.84	Dec. 1	6.47
10	4.82	10	5.84	8	5.82	8	6.18
17	5.59	17	6.20	15	5.27	15	6.38
24	5.36	24	6.28	22	5.33	22	6.35
Apr. 1	4.62	July 1	6.42	29	5.57	29	6.56

62. U. S. Geol. Survey. Pensacola. Drilled observation artesian well in sand, diameter 6 inches, depth 142 feet. Land-surface datum is 13.95 feet above msl. Highest water level 6.05 below lsd, Mar. 30, 1949; lowest 17.58 below lsd, Sept. 3, 1943. Records available: 1940-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.92	12.45	12.84	13.36	13.29	13.93	15.56	15.90	15.42	14.88	15.43	14.95
2	11.89	12.51	12.89	13.36	13.41	13.88	15.62	15.92	15.43	14.93	15.44	14.93
3	11.88	12.46	12.93	13.37	13.51	13.88	15.64	15.93	15.47	14.98	15.41	14.95
4	11.90	12.35	12.95	13.37	13.57	13.89	15.66	15.95	15.50	15.00	15.43	14.97
5	11.91	12.40	13.02	13.36	13.62	13.92	15.69	15.97	15.53	15.00	15.47	14.98
6	11.90	12.48	13.09	13.33	13.68	13.97	15.71	16.01	15.55	14.99	15.50	14.99
7	11.90	12.57	13.18	13.29	13.77	14.05	15.71	16.04	15.45	14.97	15.53	14.92
8	11.92	12.67	13.26	13.28	13.87	14.06	15.74	16.04	15.22	14.98	15.57	14.73
9	11.95	12.80	13.29	13.26	13.95	14.01	15.78	16.01	15.25	14.99	15.58	14.69
10	11.98	12.89	13.28	13.25	14.01	14.04	15.82	15.99	15.27	15.01	15.59	14.71
11	11.99	12.92	13.27	13.20	14.05	14.11	15.86	15.90	15.34	15.03	15.59	14.74
12	12.00	13.20	13.30	13.06	14.03	14.20	15.89	15.87	15.41	15.02	15.57	14.77
13	12.01	13.35	13.32	12.80	14.03	14.31	15.93	15.89	15.45	14.95	15.55	14.80
14	12.01	13.38	13.35	12.63	14.11	14.41	15.93	15.94	15.42	14.93	15.55	14.81
15	12.03	13.41	13.38	12.65	14.20	14.50	.....	15.96	15.34	14.97	15.53	14.81
16	12.05	13.42	13.41	12.66	14.28	14.58	16.02	15.97	15.27	14.99	15.43	14.82
17	12.06	13.31	13.45	12.70	14.35	14.67	16.00	15.93	15.30	15.03	15.39	14.85
18	12.06	13.03	13.46	12.75	14.32	14.77	15.98	15.83	15.33	15.07	15.40	.....
19	12.07	12.98	13.47	12.78	.....	14.84	15.97	15.78	15.33	15.10	15.42	.....
20	12.07	13.03	13.49	12.82	.....	14.92	15.93	15.80	15.34	15.13	15.44	.....

62--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	12.05	13.02	13.52	12.85	14.14	14.98	15.86	15.82	.....	15.15	15.45	.....
22	12.07	12.99	13.55	12.87	14.14	15.03	15.85	15.85	.....	15.16	15.47	.....
23	12.10	12.97	13.56	12.90	14.13	15.06	15.86	15.85	15.02	15.18	15.45	14.97
24	12.11	13.28	13.55	12.92	14.12	15.12	15.88	15.75	15.00	15.20	15.34	14.96
25	12.14	12.38	13.56	12.95	14.07	15.22	15.90	15.57	15.02	15.24	15.30	14.96
26	12.15	12.30	13.60	12.98	13.96	15.33	15.91	15.49	15.03	15.23	15.26	14.94
27	12.15	12.42	13.62	12.99	13.91	15.42	15.90	15.49	15.06	15.31	15.25	14.93
28	12.15	12.61	13.64	13.01	13.93	15.47	15.86	15.50	15.01	15.32	15.24	14.88
29	12.18	12.74	13.66	13.05	13.97	15.50	15.84	15.50	14.88	15.35	15.08	14.78
30	12.26		13.54	13.17	13.99	15.52	15.85	15.50	14.85	15.39	15.03	14.79
31	12.37		13.38		13.97		15.88	15.47		15.41		14.80

e Estimated.

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: 1940-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	12.48	Apr. 8	11.52	July 8	12.71	Oct. 6	11.90
14	12.56	15	11.51	15	12.72	13	12.08
21	12.52	21	11.77	22	12.53	20	12.15
28	12.47	28	11.88	29	12.45	27	12.39
Feb. 4	12.53	May 5	12.00	Aug. 5	12.56	Nov. 3	12.50
11	12.72	12	12.14	12	12.58	10	12.57
18	12.47	20	12.21	19	12.72	17	12.68
25	12.34	27	12.20	26	12.45	24	12.71
Mar. 3	12.06	June 3	12.22	Sept. 2	12.37	Dec. 1	12.78
10	11.92	10	12.31	8	12.39	8	12.78
17	11.94	17	12.47	15	11.78	15	12.75
24	11.85	24	12.61	22	11.62	22	12.91
Apr. 1	11.92	July 1	12.70	29	11.71	29	12.74

74. Chemstrand Corp. Sec. 30, T. 1 N., R. 30 W. Drilled observation artesian well in sand, diameter 4 to 2½ inches, depth 352 feet, screen 260-270, 340-350. Highest water level 76.20 below lsd, Apr. 4, 1952; lowest 79.45 below lsd, Nov. 15, 1952. Records available: 1951-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.78	77.33	76.98	76.23	77.59	77.53	78.24	78.81	79.02	78.87	78.93	79.10
2	76.83	77.16	76.99	76.24	77.60	77.60	78.30	78.82	78.96	79.07	78.91	79.08
3	76.89	77.01	76.94	76.28	77.61	77.63	78.33	78.82	78.87	79.10	78.88	79.07
4	76.92	76.99	76.82	76.22	77.63	77.68	78.33	78.83	78.84	79.03	78.89	79.06
5	76.92	77.08	76.95	76.29	77.67	77.70	78.33	78.90	78.84	78.91	78.90	78.95
6	76.93	77.18	77.04	76.43	77.68	77.71	78.35	78.93	78.86	78.82	78.89	78.99
7	77.06	77.23	77.05	76.59	77.70	77.77	78.37	78.83	78.87	78.81	78.89	79.00
8	77.08	77.29	77.07	76.70	77.70	77.79	78.39	78.80	78.91	78.80	78.91	79.00
9	77.07	.....	77.02	76.80	77.70	77.80	78.42	78.82	79.00	78.79	78.91	79.00
10	77.11	.....	76.87	76.88	77.71	77.85	78.43	78.78	79.03	78.80	78.85	78.93
11	77.21	77.28	76.77	76.91	77.72	77.86	78.49	78.76	79.04	78.80	78.85	78.97
12	77.22	77.27	76.84	76.90	77.80	77.87	78.53	78.83	79.03	78.80	78.98	79.02
13	77.22	77.26	76.87	76.80	77.86	77.90	78.56	78.85	78.90	78.78	79.06	79.04
14	77.18	77.24	76.91	76.89	77.87	77.95	78.58	78.91	78.78	78.77	79.25	79.05
15	77.16	77.11	76.93	77.01	77.80	78.00	78.52	78.94	78.77	78.77	79.40	79.09
16	.....	77.10	76.99	77.10	77.63	78.00	78.54	78.93	78.73	78.77	79.39	79.15
17	.....	77.18	77.00	77.13	77.47	78.03	78.55	78.92	78.75	78.77	79.32	79.21
18	.....	77.26	76.91	77.14	77.39	78.08	78.56	78.94	78.68	78.76	79.18	79.22
19	.....	77.24	76.85	77.14	77.38	78.10	78.58	78.95	78.60	78.75	79.00	79.23
20	.....	77.10	76.88	77.15	77.37	78.10	78.59	78.92	78.65	78.74	78.97	79.20
21	.....	77.07	76.90	77.20	77.44	78.11	78.60	78.94	78.59	78.81	78.94	79.19
22	77.12	77.09	76.88	77.25	77.52	78.13	78.61	78.93	78.58	78.85	78.99	79.18
23	77.16	77.03	76.85	77.30	77.59	78.15	78.65	78.94	78.65	78.90	79.02	79.13
24	77.26	77.00	76.81	77.30	77.60	78.18	78.70	78.94	78.82	78.98	79.04	79.12
25	77.28	77.00	76.88	77.30	77.58	78.18	78.72	78.94	79.26	79.17	79.03	79.10

74--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	77.24	76.92	76.87	77.31	77.53	78.18	78.74	78.96	79.07	79.23	79.02	78.98
27	77.22	76.99	76.80	77.39	77.59	78.19	78.75	78.99	78.95	79.10	79.05	78.81
28	77.11	77.03	76.70	77.46	77.61	78.19	78.75	79.00	78.85	79.00	79.10	78.76
29	77.18	77.00	76.60	77.52	77.59	78.19	78.73	79.00	78.81	78.99	79.11	78.75
30	77.29		76.53	77.57	77.46	78.20	78.73	79.00	78.80	79.00	79.10	78.71
31	77.34		76.40		77.50		78.77	79.00		78.98		78.68

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 5.91 below lsd, July 17, 1952. Records available: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	4.75	June 5	5.14	Aug. 30	4.88	Oct. 10	4.06
Apr. 25	4.15	July 17	5.91	Sept. 12	4.20	Nov. 22	4.01
May 29	3.92						

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 4 inches, reported depth 422 feet. Land-surface datum is 252 feet above msl. Highest water level 135.7 below lsd, Nov. 21, 1946; lowest 144.45 below lsd, Sept. 24, 1952. Records available: 1946-52. Jan. 28, 142.38; Mar. 18, 142.32; Apr. 24, 142.12; May 20, 135.6; Aug. 10, 142.30; Sept. 24, 144.45; Dec. 17, 143.44.

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 12.85 below lsd, Apr. 18, 1949; lowest 28.41 below lsd, July 3, 1948. Records available: 1946-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.68	25.41	24.43	24.10	24.30	25.43	.....	.....	.....	.....	.....	23.29
2	24.83	25.22	24.45	24.08	24.44	25.36	.....	.....	.....	.....	.....	23.27
3	25.00	24.83	24.40	24.10	24.50	25.35	.....	.....	.....	.....	.....	23.36
4	25.10	24.80	24.43	23.95	24.48	25.29	.....	.....	.....	.....	.....	23.38
5	25.09	25.05	24.58	23.92	24.51	25.44	.....	.....	.....	.....	.....	23.46
6	24.99	25.22	24.53	23.88	24.69	25.64	.....	.....	.....	.....	.....	23.70
7	25.14	25.18	24.60	23.98	24.81	.....	.....	.....	.....	.....	.....	23.64
8	25.03	25.25	24.69	24.08	24.75	.....	.....	.....	.....	.....	.....	23.64
9	25.00	25.20	24.46	24.09	24.75	.....	.....	.....	.....	.....	.....	23.63
10	25.03	25.21	24.02	24.16	24.79	.....	.....	.....	.....	22.96	.....	23.60
11	25.30	25.25	23.95	24.18	24.60	.....	.....	.....	.....	23.04	.....	23.82
12	25.09	25.28	24.20	24.08	24.65	.....	.....	.....	.....	23.00	.....	23.80
13	24.84	25.45	24.15	23.70	24.76	26.37	.....	26.03	.....	23.04	.....	23.70
14	24.98	25.33	24.25	23.65	24.81	26.80	.....	.....	.....	23.32	.....	23.65
15	25.00	25.29	24.35	23.91	24.85	26.47	25.81	25.87	.....	23.40	.....	23.82
16	25.03	25.20	24.45	24.07	24.91	25.90	25.99	25.68	.....	23.50	.....	24.04
17	25.21	25.25	24.45	24.15	24.97	25.42	.....	25.43	.....	23.74	.....	23.90
18	25.30	25.39	24.37	24.13	24.90	25.35	.....	25.50	.....	23.89	24.05	23.84
19	25.31	25.31	24.05	24.28	24.89	25.38	.....	.....	.....	23.62	23.83	23.65
20	25.20	25.29	23.77	24.18	24.79	25.56	.....	.....	.....	23.55	23.75	23.69
21	25.20	25.38	23.53	24.20	24.88	25.51	.....	.....	.....	23.69	23.57	23.70
22	25.30	25.36	23.49	24.36	25.16	25.46	.....	.....	.....	23.62	23.61	23.85
23	25.42	25.04	23.50	24.31	25.62	25.54	.....	.....	.....	23.62	23.42	23.90
24	25.48	24.73	23.77	24.26	25.75	25.59	.....	.....	.....	.....	23.12	23.66
25	25.42	24.74	23.91	24.18	25.62	.....	.....	.....	.....	.....	23.15	22.22
26	25.40	24.40	24.04	24.08	25.28	.....	.....	.....	.....	.....	23.17	21.08
27	25.21	24.60	24.23	23.98	25.38	.....	.....	.....	.....	.....	23.18	21.43
28	25.09	24.63	24.27	24.00	25.82	.....	.....	.....	.....	.....	23.32	21.87
29	25.38	24.59	24.31	23.99	25.57	.....	.....	.....	.....	.....	23.32	22.18
30	25.49		24.43	24.09	25.48	.....	.....	.....	.....	.....	23.27	22.26
31	25.38		24.39		25.55	.....	.....	.....	.....	.....	.....	22.32

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: 1940-44, 1950-52.

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	-1.55	-2.34	-1.57	-2.73	-3.65	-1.08	-2.31	-0.59	-0.72	-0.37	-0.49	-0.85
2	1.59	1.65	1.63	2.81	3.68	.93	2.37	.09	.75	.10	.46	.86
3	1.63	.39	1.69	2.88	3.72	.51	1.50	.16	.78	.54	.51	.88
4	1.67	.88	1.75	2.95	3.75	1.19	1.28	.05	.28	.35	e.52	.84
5	1.70	.67	1.82	3.00	3.80	1.31	.70	.54	.08	-.05	e.53	.90
6	1.71	1.00	1.86	3.05	3.84	1.40	.29	.06	-.55	+20	e.54	.95
7	1.80	1.05	1.90	3.10	3.88	1.44	.80	.42	.00	-.05	e.55	.96
8	1.83	1.08	1.95	3.15	3.91	1.05	.93	.64	+0.05	-.13	e.56	.97
9	1.85	1.10	2.01	3.19	3.95	1.35	.89	.74	+0.02	+11	e.57	.97
10	1.91	1.12	2.05	3.24	3.90	1.47	.38	.72	-.48	-.17	e.58	.90
11	1.97	1.16	2.10	3.27	1.98	1.56	.72	.81	+0.04	-.24	e.59	1.06
12	2.00	1.19	2.12	3.31	1.91	1.65	.78	.80	+0.02	+16	e.60	1.06
13	2.01	1.23	2.18	3.35	2.09	1.45	.65	.84	-.45	.25	.65	1.05
14	2.05	1.27	2.24	3.39	2.22	1.68	.75	.85	.35	.20	.66	.87
15	2.06	1.28	2.29	3.43	2.31	1.78	.83	.18	.60	+10	.72	.60
16	2.07	1.32	2.35	3.48	2.37	1.85	.90	.71	.65	-.03	.73	1.03
17	2.10	1.14	2.37	3.51	2.42	1.90	.54	.22	.71	-.12	.76	1.07
18	2.14	1.42	2.48	3.55	2.49	1.95	.88	.68	.16	+27	.76	1.08
19	2.16	1.45	2.52	3.58	2.50	2.08	1.04	.18	.58	.01	.73	1.08
20	2.18	1.50	2.55	3.62	2.16	1.62	1.09	.70	.32	+17	.77	1.08
21	2.22	1.55	2.59	3.65	.81	1.87	1.05	.77	.60	-.10	.71	1.14
22	2.26	1.60	2.65	3.69	.60	1.93	1.15	.79	.65	.15	.73	1.16
23	2.30	1.65	2.70	3.71	1.10	2.00	1.23	.79	.62	.18	.75	1.17
24	2.33	1.47	2.75	3.75	1.25	2.03	.99	.78	.35	.22	.77	1.19
25	2.34	1.55	2.84	3.78	1.35	2.10	.53	.75	.70	.27	.77	1.20
26	2.35	.95	2.93	3.79	1.44	2.21	.57	.67	.75	.18	.78	1.23
27	2.37	1.30	2.65	3.53	1.48	2.23	1.14	.68	.05	.31	.80	1.24
28	2.42	1.43	2.62	3.52	.59	2.11	.95	.85	.53	.37	.82	1.29
29	2.07	1.50	2.43	3.57	1.06	2.25	.54	.10	.62	.45	.83	1.32
30	2.24		2.55	3.62	1.16	2.17	1.05	.70	.73	.45	.84	1.30
31	2.30		2.65		1.20		.09	.70		.44		.80

e Estimated.

5. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 44 S., R. 32 E. Jetted observation water-table well in sand, 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: 1941-52.

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	-2.37	-2.63	-0.76	-2.10	-2.92	-1.10	-0.49	-0.40	-0.68	....	-0.56	-1.71
2	2.39	1.70	.84	2.14	2.98	+11	.22	.40	.78	....	.61	1.75
3	2.42	1.18	.90	2.19	3.00	-.18	.28	.46	.88	....	.67	1.78
4	2.44	1.42	1.00	2.25	3.04	.29	.35	.30	.87	....	.72	1.77
5	2.45	.91	1.06	2.28	3.07	.38	.21	.38	.88	....	.77	1.82
6	2.43	1.15	1.10	2.32	3.10	.45	.24	.32	.88	....	.80	1.85
7	2.47	1.20	1.13	2.37	3.13	.17	.29	.38	.98	....	.86	1.88
8	2.50	1.29	1.18	2.42	3.15	.26	.35	.47	.53	....	.90	e1.90
9	2.52	1.34	1.25	2.45	3.17	.30	.42	.55	.62	....	.93	e1.93
10	2.55	1.39	1.31	2.50	3.20	.28	.48	.63	.82	....	.99	e1.96
11	2.57	1.44	1.26	2.55	3.20	.36	.51	.49	.95	....	1.03	e1.99
12	2.59	1.48	1.36	2.59	3.24	.43	.62	.62	.88	....	.98	e2.02
13	2.60	1.55	1.44	2.62	3.27	.45	.50	.69	1.06	....	1.06	e2.05
14	2.62	1.59	1.50	2.65	3.30	.55	.49	.78	.74	....	1.08	1.75
15	2.65	1.63	1.40	2.69	3.32	.63	.65	.85	1.04	-0.38	1.15	1.85
16	2.65	1.65	1.62	2.75	3.35	.28	.75	.67	1.13	.44	1.20	e2.00
17	2.67	1.33	1.68	2.79	3.25	.33	.45	.70	1.21	.27	1.25	2.07
18	2.69	1.65	1.75	2.82	2.85	.30	.68	.85	.90	.11	1.28	2.10
19	2.70	1.71	1.79	2.85	2.58	.39	.82	.30	.47	.19	1.30	2.10
20	2.72	1.77	1.85	2.88	1.47	.39	.90	.37	.42	.01	.99	2.12

5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	-2.74	-1.81	-1.90	-2.91	-1.45	-0.37	-0.97	-0.46	-0.36	-0.11	-1.23	-2.13
22	2.75	1.85	1.95	2.95	1.62	.45	1.04	.54	.45	.16	1.33	2.15
23	2.77	1.88	2.00	2.97	1.74	.55	1.07	.60	.47	.18	1.41	2.19
24	2.80	1.43	2.05	2.99	1.86	.62	1.15	.53	.53	.22	1.47	2.21
25	2.76	1.54	2.10	2.96	1.97	.73	.80	.40	.56	.25	1.51	2.23
26	2.75	.41	1.50	2.67	1.12	.82	1.04	.55	....	.29	1.55	2.24
27	2.79	.50	1.62	2.65	.62	.22	.70	.35	....	.32	1.59	2.25
28	2.52	.62	1.71	2.71	.60	.32	.75	.35	....	.36	1.62	2.26
29	2.45	.68	1.84	2.78	.82	.38	.55	.43	....	.44	1.65	2.28
30	2.52		1.95	2.85	.92	.46	.45	.52	....	.50	1.68	2.29
31	2.58		2.02		1.00		.33	.60		.53		2.29

e Estimated.

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 feet, gravel 19-26. Land-surface datum is 131.00 feet above msl. Highest water level 130.50 above msl, Oct. 20, 1952; lowest 125.27 above msl, Aug. 8, 1950. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	127.83	127.54	128.39	128.53	127.49	128.75	128.14	128.82	129.33	.....	128.98	128.27
2	127.81	127.58	128.35	128.45	127.48	128.62	128.53	128.72	129.15	.....	128.94	128.25
3	127.80	127.94	128.30	128.40	127.45	128.51	128.60	128.99	129.07	.....	128.90	128.23
4	127.78	127.95	128.25	128.35	127.42	128.40	128.45	129.02	129.00	.....	128.87	128.21
5	127.77	128.14	128.20	128.30	127.40	128.33	129.52	128.87	128.98	.....	128.82	128.19
6	127.75	128.14	128.15	128.25	127.37	128.27	129.69	128.72	128.87	.....	128.78	128.15
7	127.72	128.12	128.10	128.20	127.35	128.21	129.77	128.65	129.62	.....	128.73	128.13
8	127.70	128.10	128.05	128.17	127.32	128.17	129.45	128.60	129.37	.....	128.70	128.11
9	127.67	128.07	128.02	128.15	127.30	128.13	130.31	128.58	129.11	.....	128.68	128.09
10	127.64	128.03	128.00	128.10	127.28	128.09	129.88	128.55	129.00	.....	128.66	128.08
11	127.62	128.00	127.97	128.06	127.26	128.04	130.05	128.48	128.92	.....	128.63	128.04
12	127.61	127.97	127.95	128.03	127.25	127.99	129.40	128.42	128.88	.....	128.58	128.02
13	127.60	127.94	127.92	128.00	127.23	127.98	129.60	128.37	128.98	.....	128.55	127.99
14	127.57	127.90	128.08	127.97	127.20	127.95	129.22	128.35	128.82	.....	128.51	128.32
15	127.55	127.87	128.70	127.95	127.18	127.92	129.06	129.09	128.75	.....	128.48	128.30
16	127.54	127.85	128.65	127.90	127.17	127.90	129.47	128.95	128.73	129.55	128.46	128.25
17	127.53	127.99	128.57	127.87	127.67	127.85	130.00	128.77	128.68	129.46	128.42	128.19
18	127.52	127.99	128.51	127.84	127.84	129.20	129.45	130.24	128.63	130.41	128.39	128.14
19	127.50	127.96	128.46	127.82	128.23	128.90	129.16	129.57	128.57	129.89	128.38	128.10
20	127.50	127.92	128.41	127.80	128.27	128.75	129.25	130.10	128.56	130.50	128.87	128.08
21	127.48	127.87	128.37	127.79	128.25	128.61	128.98	129.46	.....	129.85	128.80	128.03
22	127.46	127.84	128.32	127.72	128.20	128.55	130.30	129.30	.....	129.91	128.72	127.98
23	127.45	127.82	128.26	127.69	128.20	128.45	129.40	129.64	.....	129.55	128.65	127.95
24	127.43	127.81	128.22	127.65	128.21	128.40	129.25	130.03	.....	129.41	128.57	127.94
25	127.41	127.80	128.19	127.63	128.14	128.50	129.15	130.25	.....	129.29	128.52	127.92
26	127.40	128.51	129.05	127.62	128.09	128.37	129.05	129.50	.....	129.27	128.47	127.90
27	127.40	128.54	129.07	127.60	128.42	128.31	128.97	129.30	.....	129.98	128.42	127.89
28	127.39	128.48	128.92	127.58	128.50	128.27	128.90	129.40	.....	129.28	128.37	127.86
29	127.58	128.43	128.80	127.55	128.46	128.23	128.83	129.23	.....	129.11	128.33	127.85
30	127.58		128.70	127.53	129.00	128.18	128.77	130.08	.....	129.08	128.30	127.84
31	127.56		128.59		128.89		128.91	129.80		129.03		127.90

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, 1948; lowest 84.65 above msl, Apr. 6-8, 1951. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	87.19	86.61	86.25	86.25	86.40	85.93	85.50	85.41	86.92	.....	.....	e87.70
2	87.17	86.62	86.25	86.27	86.38	85.92	85.48	85.41	86.97	.....	.....	e87.68
3	87.15	86.60	86.25	86.30	86.35	85.90	85.46	85.41	.....	.....	.....	e87.66
4	87.13	86.58	86.25	86.33	86.33	85.89	85.45	85.41	.....	.....	.....	e87.64
5	87.12	86.55	86.24	86.35	86.31	85.88	85.43	85.41	.....	.....	.....	e87.62

10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
6	87.10	86.54	86.23	86.37	86.30	85.86	85.42	85.41	.....	.....	.....	e87.60
7	87.08	86.53	86.23	86.40	86.28	85.85	85.41	85.43	.....	.....	.....	e87.57
8	87.06	86.51	86.22	86.42	86.27	85.84	85.40	85.45	.....	.....	.....	e87.55
9	87.05	86.50	86.22	86.45	86.25	85.82	85.40	85.45	.....	.....	.....	e87.53
10	87.02	86.50	86.21	86.46	86.24	85.81	85.40	85.46	.....	.....	.....	e87.51
11	87.00	86.49	86.21	86.47	86.22	85.80	85.40	85.46	.....	.....	.....	e87.48
12	86.98	86.47	86.21	86.50	86.20	85.78	85.40	85.46	.....	.....	.....	e87.46
13	86.97	86.46	86.21	86.52	86.20	85.76	85.40	85.47	.....	.....	.....	e87.44
14	86.95	86.45	86.20	86.53	86.18	85.75	85.40	85.48	.....	.....	.....	e87.42
15	86.94	86.44	86.20	86.54	86.17	85.73	85.41	85.50	.....	.....	.....	e87.40
16	86.92	86.43	86.19	86.54	86.16	85.72	85.41	85.52	.....	.....	.....	e87.38
17	86.90	86.41	86.18	86.53	86.15	85.70	85.42	85.60	.....	.....	e87.97	e87.36
18	86.88	86.39	86.18	86.53	86.13	85.69	85.42	85.70	e87.95	e87.34
19	86.86	86.38	86.17	86.53	86.12	85.68	85.42	85.81	e87.93	e87.32
20	86.85	86.37	86.17	86.53	86.10	85.66	85.43	85.93	.....	.....	e87.91	e87.30
21	86.83	86.35	86.17	86.53	86.08	85.65	85.43	86.06	.....	.....	e87.90	e87.29
22	86.81	86.34	86.16	86.52	86.07	85.64	85.43	86.19	.....	.....	e87.88	e87.28
23	86.79	86.33	86.16	86.52	86.05	85.62	85.44	86.31	.....	.....	e87.86	e87.27
24	86.77	86.31	86.15	86.51	86.04	85.60	85.41	86.41	.....	.....	e87.84	e87.26
25	86.75	86.30	86.15	86.50	86.03	85.59	85.41	86.51	.....	.....	e87.82	e87.25
26	86.74	86.29	86.15	86.50	86.01	85.57	85.41	86.58	.....	.....	e87.80	e87.24
27	86.72	86.27	86.14	86.48	86.00	85.55	85.41	86.65	.....	.....	e87.78	e87.22
28	86.71	86.25	86.14	86.45	85.98	85.54	85.41	86.72	.....	.....	e87.76	e87.21
29	86.67	86.25	86.15	86.44	85.97	85.52	85.41	86.77	.....	.....	e87.74	e87.20
30	86.65	86.24	86.17	86.42	85.95	85.51	85.41	86.82	.....	.....	e87.72	e87.18
31	86.63	86.22	86.22	86.42	85.95	85.51	85.41	86.87	.....	.....	.....	e87.16

e Estimated.

11. U. S. Geol. Survey. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 35 S., R. 31 E. Drilled observation water-table well in sand 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 50.20 above msl, Oct. 2, 1951; lowest 45.10 above msl, Apr. 25, 1950. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	Ma.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.68	47.65	48.49	48.37	47.06	48.52	46.95	48.54	49.14	49.05	48.74	47.88
2	47.65	47.64	48.45	48.32	47.03	48.37	47.25	49.61	48.94	48.98	48.67	47.87
3	47.63	48.38	48.38	48.26	47.01	48.26	47.34	49.36	48.77	49.49	48.62	47.84
4	47.60	48.32	48.33	48.18	46.98	48.17	47.30	49.77	48.64	48.98	48.55	47.82
5	47.58	48.55	48.29	48.13	46.95	48.10	47.22	49.97	48.54	49.52	48.49	47.80
6	47.61	48.36	48.23	48.06	46.93	48.01	48.35	49.59	48.45	49.60	48.45	47.74
7	47.62	48.33	48.20	48.01	46.89	47.95	48.82	49.26	48.41	49.72	48.53	47.71
8	47.53	48.25	48.15	47.94	46.86	47.90	48.64	49.02	48.37	49.78	48.38	47.68
9	47.50	48.19	48.10	47.88	46.82	47.84	48.43	48.95	48.88	49.38	48.36	47.65
10	47.47	48.15	48.06	47.78	46.79	47.78	48.27	48.76	48.52	49.18	48.33	47.64
11	47.44	48.09	48.04	47.74	46.77	47.72	48.19	48.64	48.45	49.07	48.30	47.58
12	47.43	48.04	48.01	47.69	46.72	47.64	48.54	48.52	49.33	49.02	48.50	47.55
13	47.41	48.00	47.97	47.65	46.67	47.61	48.30	48.42	49.00	50.00	48.36	47.54
14	47.39	47.95	47.94	47.59	46.63	47.54	48.98	48.36	49.15	50.01	48.29	47.87
15	47.35	47.92	48.83	47.53	46.60	47.52	48.71	48.30	48.80	49.86	48.25	47.84
16	47.34	47.88	48.59	47.47	46.57	47.44	48.65	49.10	48.68	49.90	48.22	47.80
17	47.31	48.07	48.45	47.43	46.55	47.38	49.15	49.72	48.56	50.04	48.15	47.74
18	47.29	47.97	48.35	47.37	46.53	47.31	48.87	49.74	48.46	50.11	48.12	47.68
19	47.27	47.91	48.33	47.33	46.50	47.27	48.55	49.32	48.40	49.80	48.12	47.63
20	47.25	47.85	48.28	47.29	46.48	47.20	e48.43	49.66	48.34	50.11	48.47	47.60
21	47.24	47.82	48.21	47.25	47.23	47.14	e48.34	49.30	48.30	49.79	48.37	47.56
22	47.21	47.77	48.16	47.20	47.57	47.10	e49.47	49.03	48.75	49.65	48.24	47.53
23	47.18	47.76	48.11	47.17	47.73	47.04	e48.95	48.86	48.72	49.46	48.16	47.48
24	47.16	47.78	48.05	47.14	47.77	47.00	e48.82	49.07	48.42	49.25	48.10	47.48
25	47.15	47.81	48.02	47.12	47.65	46.96	48.75	49.57	48.36	49.65	48.06	47.45
26	47.51	48.98	49.15	47.33	47.55	46.92	48.73	49.16	48.30	49.22	48.04	47.43
27	47.53	49.00	49.23	47.38	48.79	46.91	48.74	49.36	48.29	49.51	48.01	47.42
28	47.50	48.68	48.90	47.28	48.83	46.88	48.57	49.67	48.86	49.18	47.97	47.41
29	47.78	48.57	48.67	47.20	48.52	46.84	48.51	49.37	49.49	48.95	47.93	47.38
30	47.73	48.52	48.53	47.12	48.46	46.79	48.76	49.83	49.28	48.84	47.91	47.37
31	47.67	48.45	48.45	47.12	49.00	46.79	48.55	49.37	48.80	48.80	47.53	47.33

e Estimated.

12. U. S. Geol. Survey. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 36 S., R. 33 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 21 feet, cased to 18 feet, gravel 15-21. Land-surface datum is 45.60 feet above msl. Highest water level 45.85 above msl, Oct. 2, 1951; lowest 38.97 above msl, June 5, 1950. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.74	42.53	43.30	42.86	42.27	43.00	42.40	43.35	42.68	44.65	43.85	42.97
2	42.72	43.10	43.21	42.78	42.20	42.83	43.25	43.27	42.60	44.46	43.75	42.95
3	42.70	43.65	43.15	42.70	42.13	42.71	43.01	43.75	42.54	44.25	43.66	42.93
4	42.67	43.35	43.04	42.63	42.05	42.56	43.18	43.20	42.49	44.03	43.56	42.90
5	42.66	43.63	42.95	42.56	42.00	42.47	42.88	43.10	42.62	43.92	43.52	42.88
6	42.85	43.26	42.89	42.50	41.95	42.40	42.75	43.34	42.65	45.16	43.50	42.83
7	42.65	43.15	42.84	42.45	41.92	42.33	43.48	43.37	42.57	45.07	43.45	42.80
8	42.62	43.05	42.77	42.41	41.89	42.27	43.95	43.80	43.44	44.75	43.38	42.78
9	42.60	42.96	42.73	42.37	41.87	42.20	43.57	43.50	43.29	44.56	43.37	42.77
10	42.56	42.90	42.70	42.32	41.98	42.16	43.33	43.30	43.09	44.38	43.35	42.78
11	42.53	42.83	42.67	42.28	41.90	42.11	43.11	43.18	42.98	44.21	43.33	42.70
12	42.52	42.78	42.63	42.25	41.87	42.06	44.20	43.07	43.12	44.11	43.83	42.67
13	42.51	42.72	42.60	42.22	41.83	42.00	43.80	42.98	43.01	45.03	43.50	42.66
14	42.50	42.67	43.28	42.30	41.80	41.95	44.44	42.94	42.90	44.65	43.36	42.78
15	42.48	42.64	44.00	42.18	41.76	41.92	44.10	43.44	42.77	45.12	43.30	42.66
16	42.47	42.60	43.47	42.14	41.75	41.87	44.25	43.10	42.66	44.65	43.25	42.62
17	42.45	42.80	43.24	42.10	41.73	41.84	43.63	43.00	42.55	45.30	43.21	42.60
18	42.43	42.64	43.10	42.08	41.71	41.80	44.66	42.96	42.47	45.58	43.18	42.57
19	42.41	42.57	43.00	42.06	41.69	41.75	44.04	42.87	42.42	44.85	43.19	42.56
20	42.40	42.52	42.92	42.04	41.67	41.72	43.73	42.80	42.40	45.39	44.11	42.56
21	42.38	42.55	42.84	42.01	41.72	41.68	43.53	42.74	42.37	44.87	43.63	42.55
22	42.36	42.45	42.78	42.01	42.44	41.65	43.85	42.68	42.87	44.94	43.37	42.52
23	42.33	42.43	42.70	42.00	42.48	41.62	43.30	42.63	43.08	44.75	43.25	42.49
24	42.30	42.42	42.65	41.98	42.62	41.59	43.18	43.37	42.91	44.62	43.16	42.47
25	42.29	42.40	42.61	42.17	42.55	41.56	43.13	43.07	43.72	44.53	43.18	42.46
26	42.28	44.35	43.87	42.73	42.44	42.88	43.60	43.00	43.35	44.44	43.10	42.45
27	42.26	43.97	43.70	42.67	42.50	42.64	43.33	42.86	43.21	44.70	43.07	42.44
28	42.87	43.70	43.49	42.54	42.54	42.76	43.11	43.00	44.72	45.11	43.03	42.42
29	42.97	43.47	43.27	42.45	42.48	42.61	43.05	42.91	44.80	44.37	43.01	42.40
30	42.68		43.08	42.35	42.43	42.50	44.28	42.94	44.96	44.12	43.00	42.38
31	42.59		42.95		42.95		43.62	42.80		43.99		42.37

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: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.78	25.26	26.55	26.25	26.15	27.64	26.32	26.12	26.86	27.05	27.68	26.26
2	25.76	25.25	26.45	26.17	26.04	28.31	26.49	28.12	26.71	27.27	27.55	26.23
3	25.73	26.29	26.35	26.09	25.96	27.61	27.05	28.74	26.58	26.96	27.43	26.21
4	25.71	26.26	26.26	26.00	25.88	27.55	26.80	28.42	26.45	26.89	27.30	26.18
5	25.70	26.32	26.20	25.94	25.80	27.43	27.13	28.19	26.38	28.13	27.21	26.14
6	25.69	26.25	26.14	25.88	25.73	27.29	28.00	29.07	26.27	28.79	27.16	26.09
7	25.65	26.20	26.08	25.82	25.65	28.77	27.68	28.65	26.22	28.69	27.07	26.05
8	25.62	26.13	26.02	25.77	25.60	28.58	28.19	28.29	26.54	28.63	26.99	26.00
9	25.60	26.07	25.96	25.73	25.54	28.25	27.52	28.03	26.73	28.44	26.95	25.97
10	25.57	26.01	25.92	25.67	25.48	27.87	27.22	27.87	26.49	28.26	26.90	25.98
11	25.54	25.95	25.90	25.63	25.72	27.63	27.49	27.73	26.35	28.11	26.85	25.95
12	25.53	25.90	25.83	25.59	25.77	27.40	27.05	28.50	27.15	28.03	27.18	25.91
13	25.51	25.85	25.80	25.56	25.63	27.30	28.23	27.57	26.97	28.26	26.90	25.89
14	25.49	25.80	26.63	25.59	25.50	27.12	28.35	27.36	27.02	27.89	26.84	25.90
15	25.47	25.77	27.33	25.50	25.42	27.02	27.70	27.22	26.85	27.23	26.75	25.88
16	25.46	25.72	27.00	25.45	25.37	26.90	27.35	27.08	26.73	28.20	26.71	25.86
17	25.43	25.96	26.82	25.40	25.33	26.77	27.24	27.01	26.60	29.07	26.65	25.83
18	25.41	25.93	26.67	25.35	25.28	26.69	27.80	27.20	26.54	29.19	26.57	25.82
19	25.39	25.88	26.60	25.31	25.22	26.80	27.05	26.90	26.40	28.98	26.67	25.80
20	25.37	25.80	26.48	25.27	25.45	26.63	26.92	27.28	26.39	29.23	27.11	25.77
21	25.35	25.75	26.37	25.22	27.20	26.53	26.80	26.85	26.85	29.03	26.89	25.75
22	25.33	25.67	26.27	25.16	27.30	26.49	26.70	26.73	27.47	28.88	26.75	25.73
23	25.31	26.03	26.21	25.14	27.48	26.40	26.63	26.75	27.22	28.80	26.63	25.70
24	25.28	26.15	26.13	25.11	27.18	26.34	26.55	26.67	27.55	28.69	26.57	25.67
25	25.27	26.17	26.07	26.21	26.97	26.25	26.49	26.59	27.67	28.80	26.50	25.65

13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	25.25	27.25	27.10	26.82	28.04	26.33	26.47	26.50	27.30	27.52	26.48	25.62
27	25.23	27.08	26.97	26.72	28.60	26.80	26.44	26.42	27.13	27.73	26.42	25.62
28	25.35	26.89	26.80	26.53	28.30	26.68	26.44	26.35	27.54	27.33	26.37	25.61
29	25.43	26.66	26.62	26.37	28.05	26.55	26.36	26.29	27.23	27.07	26.33	25.59
30	25.37		26.46	26.25	27.87	26.42	26.31	27.26	27.14	27.94	26.30	25.56
31	25.31		26.35		28.23		26.20	27.02		27.81		e25.54

e Estimated.

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 124.67 above msl, Oct. 8, 1948; lowest 114.50 above msl, July 1, 1951. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	120.08	119.48	119.13	119.22	118.83	118.31	117.97	118.32	117.86	117.64	119.38	118.85
2	120.06	119.48	119.11	119.23	118.81	118.30	117.97	118.30	117.85	117.64	119.35	118.83
3	120.04	119.47	119.11	119.23	118.80	118.29	117.96	118.28	117.84	117.64	119.32	118.81
4	120.02	119.46	119.10	119.24	118.77	118.27	117.95	118.27	117.82	117.63	119.29	118.80
5	120.00	119.42	119.08	119.25	118.76	118.26	117.95	118.25	117.81	117.63	119.26	118.78
6	119.98	119.40	119.06	119.22	118.75	118.25	117.94	118.22	117.80	117.63	119.23	118.77
7	119.96	119.38	119.06	119.21	118.72	118.25	117.93	118.20	117.80	117.63	119.19	118.75
8	119.95	119.37	119.05	119.20	118.70	118.23	117.95	118.18	117.78	117.63	119.17	118.73
9	119.93	119.35	119.04	119.20	118.70	118.22	118.02	118.16	117.77	117.60	119.16	118.72
10	119.90	119.34	119.03	119.17	118.68	118.21	118.09	118.14	117.76	117.60	119.15	118.71
11	119.88	119.32	119.02	119.15	118.66	118.21	118.13	118.11	117.74	117.59	119.13	118.68
12	119.86	119.31	119.01	119.15	118.63	118.21	118.17	118.09	117.73	117.59	119.11	118.67
13	119.85	119.29	119.00	119.12	118.61	118.20	118.20	118.07	117.73	117.58	119.10	118.66
14	119.82	119.28	118.99	119.09	118.60	118.18	118.23	118.06	117.72	117.58	119.08	118.65
15	119.80	119.26	119.00	119.06	118.58	118.17	118.27	118.05	117.72	117.58	119.07	118.63
16	119.79	119.25	119.03	119.02	118.56	118.17	118.28	118.03	117.71	117.58	119.05	118.61
17	119.77	119.22	119.05	119.00	118.55	118.15	118.31	118.02	117.70	117.61	119.04	118.60
18	119.75	119.20	119.07	118.98	118.53	118.14	118.33	118.01	117.70	117.70	119.03	118.59
19	119.73	119.18	119.08	118.97	118.51	118.12	118.35	118.00	117.69	117.85	119.02	118.58
20	119.71	119.16	119.10	118.96	118.50	118.12	118.38	117.98	117.68	118.00	119.02	118.56
21	119.69	119.15	119.11	118.95	118.49	118.10	118.39	117.97	117.67	118.59	119.00	118.54
22	119.67	119.12	119.12	118.93	118.47	118.08	118.40	117.96	117.67	119.05	118.98	118.51
23	119.65	119.12	119.13	118.94	118.46	118.08	118.41	117.95	117.66	119.26	118.97	118.50
24	119.62	119.10	119.13	118.93	118.45	118.07	118.42	117.93	117.65	119.37	118.95	118.47
25	119.60	119.08	119.12	118.92	118.44	118.06	118.42	117.92	117.64	119.43	118.94	118.45
26	119.58	119.10	119.12	118.91	118.42	118.05	118.42	117.92	117.63	119.45	118.92	118.43
27	119.57	119.10	119.13	118.90	118.41	118.03	118.42	117.91	117.62	119.46	118.90	118.41
28	119.56	119.11	119.15	118.87	118.37	118.02	118.42	117.90	117.61	119.46	118.89	118.39
29	119.54	119.12	119.15	118.86	118.35	118.00	118.40	117.90	117.62	119.42	118.87	118.37
30	119.51		119.16	118.85	118.35	117.99	118.38	117.88	117.64	119.41	118.86	118.35
31	119.49		119.19		118.33		118.34	117.87		119.40		118.33

15. U. S. Geol. Survey. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 39 S., R. 30 E. Drilled observation water-table well in sand 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: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.66	55.53	56.45	55.97	54.88	55.73	55.50	55.77	56.44	.....	.....	55.95
2	55.65	55.52	56.41	55.91	54.87	56.18	55.50	57.53	56.35	.....	.....	55.94
3	55.63	56.45	56.35	55.85	55.30	56.02	55.95	57.05	56.30	.....	.....	55.92
4	55.61	56.24	56.30	55.79	55.31	55.89	56.32	56.83	56.25	.....	.....	55.90
5	55.60	56.54	56.24	55.72	55.24	55.76	56.60	56.74	56.22	.....	.....	55.87
6	55.64	56.23	56.22	55.67	55.17	55.65	56.58	56.57	56.15	.....	.....	55.85
7	55.60	56.26	56.17	55.61	55.11	55.58	56.52	56.43	56.92	.....	.....	55.83
8	55.57	56.14	56.12	55.57	55.05	55.53	56.35	56.34	57.31	.....	.....	55.81
9	55.55	56.09	56.07	55.52	54.98	55.48	56.17	57.48	57.15	.....	.....	55.79
10	55.53	56.03	56.03	55.47	54.92	55.43	56.07	57.63	56.87	.....	.....	55.78
11	55.51	55.96	56.00	55.43	54.88	55.38	56.32	57.88	56.74	.....	.....	55.75
12	55.50	55.92	56.06	55.39	54.87	55.30	56.05	57.15	56.72	.....	.....	55.75
13	55.50	55.88	56.00	55.35	54.82	55.26	56.00	56.75	58.00	.....	.....	55.75
14	55.48	55.85	56.00	55.33	54.80	55.22	56.23	56.57	57.25	.....	.....	55.85
15	55.47	55.82	56.58	55.26	54.76	55.21	56.00	57.97	57.10	.....	.....	55.83

15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	55.45	55.80	56.25	55.22	54.75	55.16	55.90	57.37	58.10	.....	.....	55.79
17	55.44	56.00	56.11	55.20	55.94	55.12	55.85	57.72	57.56	.....	.....	55.75
18	55.43	55.82	56.02	55.15	55.98	55.09	55.80	57.95	58.10	.....	.....	55.74
19	55.42	55.78	56.00	55.14	55.90	55.06	55.72	57.52	57.90	.....	.....	55.72
20	55.40	55.75	55.95	55.10	56.24	55.00	55.65	57.00	.....	.....	.....	55.70
21	55.38	55.71	55.88	55.07	56.14	55.20	55.58	58.15	.....	.....	56.40	55.69
22	55.37	55.67	55.85	55.05	56.25	55.27	55.50	57.15	.....	.....	56.30	55.67
23	55.36	55.65	55.80	54.97	56.10	55.30	55.47	56.80	.....	.....	56.21	55.65
24	55.35	55.84	55.75	54.95	55.96	55.23	55.42	56.70	.....	.....	56.15	55.64
25	55.32	55.84	55.70	54.98	55.85	55.15	55.38	56.70	.....	.....	56.11	55.63
26	55.31	57.43	56.78	55.03	55.76	55.10	55.34	56.84	.....	.....	56.08	55.62
27	55.30	57.35	56.54	55.05	55.73	55.74	55.31	56.62	.....	.....	56.05	55.60
28	55.25	56.62	56.36	54.98	56.13	55.80	55.29	57.53	.....	.....	56.00	55.59
29	55.68	56.55	56.23	54.94	56.00	55.67	55.93	56.81	.....	.....	55.98	55.57
30	55.62	.....	56.11	54.90	55.92	55.55	55.90	56.94	.....	.....	55.97	55.55
31	55.57	.....	56.04	.....	55.86	.....	55.84	56.52	.....	.....	.....	55.54

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, 1944-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.50	8.12	.....	.....	8.29	8.35	7.67	7.28	7.15	7.15	6.87	7.70
2	7.54	7.93	.....	.....	8.36	8.25	7.65	7.13	7.13	7.22	6.93	7.67
3	7.57	7.50	.....	.....	8.43	8.21	7.65	7.03	7.15	7.30	6.97	7.70
4	7.58	7.79	.....	.....	8.50	8.21	7.68	6.99	7.15	7.37	7.00	7.75
5	7.59	7.78	.....	.....	8.54	8.23	7.70	6.98	7.12	7.38	7.08	7.77
6	7.58	7.85	.....	.....	8.56	8.29	7.68	6.96	7.10	7.40	7.13	7.85
7	7.68	7.82	.....	.....	8.57	8.30	7.58	6.95	7.10	7.32	7.25	7.88
8	7.67	7.85	.....	.....	8.58	8.25	7.55	6.98	7.12	7.21	7.31	7.90
9	7.67	7.81	.....	.....	8.63	8.26	7.57	6.97	7.16	7.15	7.30	7.90
10	7.74	7.80	.....	.....	8.68	8.26	7.60	6.97	7.18	7.16	7.29	7.87
11	7.87	7.77	.....	7.53	8.74	8.26	7.62	6.97	7.23	7.15	7.31	8.00
12	7.87	7.77	.....	7.55	8.86	8.28	7.67	6.98	7.29	7.13	7.38	8.04
13	7.83	7.81	.....	7.56	8.92	8.36	7.68	7.03	7.30	7.13	7.40	7.99
14	7.80	.....	.....	7.58	8.95	8.40	7.63	7.08	7.31	7.12	7.41	7.96
15	7.82	.....	.....	7.63	8.98	8.41	7.61	7.10	7.27	7.12	7.44	8.02
16	7.84	.....	.....	7.70	9.01	8.40	7.63	7.12	7.26	7.14	7.50	8.05
17	7.87	.....	.....	7.77	9.06	8.42	7.68	7.08	7.28	7.18	7.53	8.03
18	7.90	.....	.....	7.81	9.10	8.42	7.72	7.03	7.29	7.12	7.53	8.04
19	7.95	.....	.....	7.83	9.12	8.43	7.73	7.05	7.35	6.98	7.49	8.04
20	7.96	.....	.....	7.88	9.14	8.44	7.76	7.05	7.41	6.77	7.42	8.02
21	7.97	.....	.....	7.91	9.18	8.36	7.73	7.08	7.41	6.73	7.45	7.99
22	7.98	.....	.....	7.96	9.23	8.18	7.65	7.12	7.37	6.65	7.50	8.02
23	8.08	.....	.....	7.99	9.25	8.07	7.65	7.13	7.28	6.60	7.51	8.06
24	8.18	.....	.....	8.02	9.21	7.96	7.66	7.18	7.20	6.57	7.49	8.12
25	8.15	.....	.....	8.06	9.21	7.96	7.72	7.21	7.10	6.57	7.46	8.14
26	8.14	.....	.....	8.04	9.21	7.97	7.81	7.15	7.06	6.63	7.48	8.15
27	8.12	.....	.....	8.08	9.26	7.92	7.75	7.13	7.07	6.64	7.52	8.15
28	8.00	.....	.....	8.13	9.22	7.85	7.67	7.17	7.12	6.66	7.60	8.15
29	8.06	.....	.....	8.16	9.16	7.80	7.62	7.17	7.14	6.80	7.63	8.15
30	8.16	.....	.....	8.20	8.91	7.70	7.53	7.18	7.13	6.88	7.65	8.10
31	8.20	.....	.....	.....	8.50	.....	7.46	7.18	.....	6.86	.....	8.07

30. C. L. Councilman. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 31 S., R. 19 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 500 feet, cased to 34. Land-surface datum is 6.82 feet above msl. Highest water level 13.02 above lsd, Sept. 6, 1950; lowest 1.63 above lsd, May 16, 1952. Records available: 1950-52.

30--Continued.

Daily mean water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.76	5.05	7.98	....	2.01	5.80	6.04	6.19	....	6.52	7.02	....
2	7.86	5.70	8.23	....	1.95	5.81	5.97	7.08	....	6.54	6.89	....
3	6.28	7.67	8.30	....	2.00	5.62	5.97	7.65	....	6.36	6.68	....
4	5.20	8.21	8.22	....	2.14	4.95	5.90	7.78	6.48	5.97	6.36	....
5	5.56	8.34	7.98	....	2.00	4.80	6.07	7.91	6.49	5.71	6.09	....
6	5.86	8.61	6.60	....	1.76	4.45	6.17	7.98	6.26	5.77	6.09	....
7	8.08	8.79	6.20	....	1.80	4.79	6.28	8.05	6.03	6.45	6.19	....
8	8.38	8.39	5.20	....	1.81	5.18	6.48	8.10	5.99	7.50	....	....
9	8.29	8.15	4.81	....	1.77	5.36	6.58	8.00	5.94	7.78	....	....
10	8.52	8.27	4.80	....	1.83	5.51	6.59	7.96	5.48	7.79	....	....
11	8.11	7.90	5.54	....	2.24	5.50	6.58	7.92	5.28	7.75	....	....
12	7.30	....	6.77	....	2.18	5.73	6.50	7.85	5.43	7.69	....	....
13	7.13	....	7.19	....	....	5.73	6.41	7.70	5.82	7.64	....	....
14	6.52	....	....	....	....	5.81	6.46	7.20	5.86	7.68	....	....
15	6.49	....	....	....	....	5.90	6.60	6.64	5.84	7.89	....	....
16	5.67	....	....	....	1.66	5.67	6.63	6.43	5.69	8.14	....	....
17	4.73	....	....	....	2.00	5.20	6.51	6.53	5.58	8.37	....	....
18	4.35	....	....	....	3.20	5.20	6.32	6.65	5.18	8.47	....	....
19	4.34	....	....	....	3.62	5.21	6.25	6.70	5.60	8.58	....	....
20	4.55	....	....	....	3.47	5.34	6.28	6.64	5.93	8.72	....	....
21	4.35	....	....	....	3.20	5.75	6.33	6.39	6.10	8.46	....	....
22	3.74	....	....	....	2.27	5.82	6.40	6.00	6.22	8.31	....	....
23	3.48	....	....	....	2.29	5.82	6.11	5.73	6.10	8.40	....	....
24	3.18	....	....	2.18	2.94	5.65	5.52	5.68	6.13	8.46	....	....
25	3.59	....	....	2.78	2.82	5.38	4.87	5.78	6.15	8.47	....	....
26	3.78	....	....	4.24	2.73	5.23	4.72	5.90	5.97	8.48	....	....
27	3.83	....	....	5.99	2.50	5.29	4.70	5.79	6.07	8.52	....	....
28	4.25	....	....	5.50	2.90	6.10	4.73	6.00	6.26	8.60	....	....
29	5.22	7.78	....	3.50	4.30	6.34	5.04	6.28	6.28	8.30	....	....
30	5.64	....	....	2.29	4.96	6.28	5.70	....	6.38	7.66	....	....
31	5.18	....	....	....	5.59	....	5.80	6.34	....	7.29	....	....

500. Paul Carter. Wimauma. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 32 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 330 feet, cased to 97. Land-surface datum is 87.85 feet above msl. Highest water level 49.00 below lsd, Oct. 10, 1951; lowest 53.43 below lsd, May 22, 1952. Records available: 1951-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.25	52.02	50.76	50.57	51.94	52.99	51.55	50.90	50.63	50.33	49.23	50.14
2	50.24	51.78	50.75	50.48	52.03	52.95	51.53	50.85	50.59	50.34	49.24	50.10
3	50.24	51.61	50.67	50.47	52.14	52.90	51.51	50.81	50.56	50.34	49.26	50.11
4	50.24	51.63	50.63	50.39	52.24	52.85	51.48	50.78	50.53	50.35	49.28	50.12
5	50.24	51.65	50.67	50.37	52.33	52.80	51.48	50.78	50.55	50.28	49.36	50.07
6	50.24	51.75	50.64	50.46	52.43	52.76	51.44	50.79	50.53	50.23	49.44	50.13
7	50.42	51.70	50.57	50.46	52.52	52.71	51.41	50.68	50.50	50.18	49.60	50.17
8	50.48	51.72	50.55	50.45	52.57	52.66	51.37	50.68	50.47	50.03	49.74	50.21
9	50.53	51.62	50.53	50.44	52.61	52.66	51.30	50.61	50.46	50.03	49.77	50.23
10	50.60	51.53	50.48	50.48	52.67	52.64	51.27	50.67	50.43	50.09	49.80	50.19
11	50.82	51.42	50.49	50.53	52.75	52.57	51.28	50.54	50.38	50.09	49.88	50.32
12	50.86	51.34	50.54	50.59	52.95	52.48	51.28	50.55	50.46	....	49.97	50.41
13	50.86	51.26	50.55	50.63	53.07	52.45	51.24	50.55	50.48	....	50.02	50.40
14	50.85	51.19	50.61	50.74	53.13	52.42	51.18	50.52	50.50	....	50.05	50.39
15	50.89	51.12	50.64	50.91	53.15	52.36	51.14	50.47	50.50	....	50.08	50.56
16	50.92	51.09	50.82	51.05	53.18	52.27	51.14	50.42	50.48	49.77	50.16	50.64
17	50.96	51.15	50.89	51.15	53.24	52.18	51.16	50.39	50.47	49.73	50.22	50.67
18	51.04	51.26	50.89	51.23	53.28	52.14	51.16	50.39	50.50	49.64	50.25	50.67
19	51.08	51.25	50.91	51.32	53.30	52.10	51.12	50.39	50.54	49.54	50.18	50.67
20	51.12	51.22	50.92	51.41	53.33	52.05	51.05	50.41	50.55	49.39	50.09	50.66
21	51.18	51.23	50.88	51.48	53.34	52.03	51.07	50.43	50.54	....	50.18	50.60
22	51.27	51.22	50.81	51.57	53.36	52.00	51.12	50.43	50.50	....	50.33	50.62
23	51.43	51.10	50.78	51.65	53.34	51.95	51.13	50.43	50.53	....	50.40	50.66
24	51.62	51.04	50.73	51.69	53.29	51.88	51.08	50.43	50.53	49.39	50.39	50.73
25	51.64	51.07	50.70	51.71	53.24	51.82	51.07	50.45	50.48	49.34	50.32	50.76

500--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	51.69	50.89	50.65	51.71	53.18	51.76	51.07	50.45	50.43	49.34	50.2f	50.78
27	51.68	50.94	50.67	51.78	53.18	51.67	51.05	50.45	50.43	49.28	50.2f	50.82
28	51.58	50.96	50.71	51.85	53.19	51.66	51.00	50.51	50.43	49.23	50.2f	50.85
29	51.74	50.84	50.74	51.89	53.13	51.64	50.97	50.52	50.43	49.33	50.1f	50.90
30	51.96		50.76	51.90	53.04	51.60	50.98	50.54	50.38	49.36	50.16	50.87
31	52.06		50.71		52.98		50.98	50.60		49.29		50.85

Holmes County

4. Mrs. D. Hughes. Ponce de Leon. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 3 N., R. 17 W. 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: 1947-52. Jan. 28, +2.73; Apr. 23, +2.97; July 19, +1.79; Aug. 26, +1.95; Oct. 14, +1.91; Nov. 23, +1.72.

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: 1947-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.53	11.86	12.52	12.64	12.21	12.13	12.72	12.80
2	11.58	11.89	12.59	12.60	12.17	12.17	12.73	12.74
3	11.62	11.91	12.62	12.58	12.15	12.25	12.75	12.80
4	11.60	11.93	12.65	12.61	12.13	12.28	12.73	12.80
5	11.60	11.96	12.69	12.65	12.14	12.27	12.74	12.77
6	11.59	12.01	12.72	12.63	12.14	12.27	12.74	12.80
7	11.60	12.04	12.75	12.57	12.12	12.28	12.83	12.79
8	11.61	12.06	12.72	12.55	12.15	12.24	12.87	12.78
9	11.61	12.11	12.70	12.51	12.20	12.28	12.81	12.77
10	11.63	12.12	12.70	12.46	12.22	12.35	12.75	12.72
11	11.65	12.12	12.73	12.46	12.20	12.37	12.81	12.80
12	11.75	12.13	12.75	12.48	12.24	12.35	12.87	12.80
13	11.75	12.20	12.76	12.50	12.30	12.38	12.87	12.78
14	11.75	12.24	12.75	12.50	12.32	12.37	12.85	12.80
15	11.75	12.26	12.76	12.48	12.28	12.36	12.88	12.85
16	11.76	12.25	12.80	12.45	12.18	12.39	12.82	12.88
17	11.77	12.25	12.87	12.46	12.14	12.44	12.84	12.87
18	h11.23	.....	11.77	12.27	12.92	12.47	12.12	12.47	12.83	12.87
19	11.76	12.28	12.94	12.45	12.13	12.45	12.78	12.86
20	11.71	12.30	12.95	12.45	12.15	12.47	12.72	12.80
21	11.75	12.35	12.91	12.45	12.12	12.62	12.73	12.80
22	11.76	12.36	12.78	12.45	12.05	12.62	12.75	12.81
23	11.77	12.37	12.70	12.45	12.05	12.60	12.78	12.81
24	11.75	12.38	12.62	12.44	12.07	12.57	12.77	12.83
25	11.39	11.75	12.39	12.62	12.43	12.06	12.56	12.73	12.80
26	11.38	11.74	12.41	12.65	.....	12.04	12.61	12.75	12.80
27	11.40	11.77	12.44	12.65	12.37	12.06	12.62	12.80	12.76
28	h11.88	.....	.....	11.45	11.80	12.45	12.66	12.38	12.10	12.61	12.83	12.75
29	11.46	11.77	12.48	12.67	12.25	12.13	12.73	12.80	12.75
30	11.49	11.75	12.48	12.67	12.19	12.13	12.77	12.81	12.64
31	11.80	.....	12.68	12.18	.....	12.73	.....	12.60

h Tape measurement.

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 30.00 feet above msl. Highest water level 31.45 above msl, Oct. 18, 1950; lowest 26.68 above msl, May 9, 1952. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 13	28.49	Oct. 17	30.60	Oct. 21	29.87	Oct. 25	29.50
14	28.68	18	31.46	22	29.67	26	29.43
15	28.70	19	30.40	23	30.19	27	29.33
16	29.95	20	30.15	24	29.69	28	29.39

25--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 29	29.20	Nov. 14	28.95	Nov. 30	28.65	Dec. 16	28.47
30	29.15	15	29.24	Dec. 1	28.63	17	28.62
31	29.11	16	29.10	2	28.62	18	28.52
Nov. 1	29.20	17	28.98	3	28.77	19	28.43
2	29.05	18	28.87	4	28.65	20	28.38
3	29.03	19	28.80	5	28.58	21	28.35
4	29.56	20	28.76	6	28.55	22	28.35
5	29.17	21	28.71	7	28.82	23	28.32
6	29.08	22	28.68	8	28.72	24	28.30
7	29.01	23	28.63	9	28.69	25	28.27
8	28.97	24	29.20	10	28.60	26	28.25
9	28.94	25	28.98	11	28.54	27	28.23
10	28.90	26	28.90	12	28.53	28	28.23
11	28.87	27	28.82	13	28.49	29	28.23
12	28.84	28	28.75	14	28.45	30	28.25
13	28.80	29	28.71	15	28.43	31	28.27

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.15	27.60	27.86	27.12	28.80	27.90	27.67	28.42	28.45	28.65	28.14	28.58
2	28.10	28.75	27.83	27.08	28.73	27.81	27.64	28.28	28.33	29.30	28.08	28.54
3	28.07	29.03	27.82	27.05	28.65	27.77	27.58	28.22	28.24	29.08	28.03	28.51
4	28.05	28.86	27.79	27.00	28.56	27.74	27.57	28.42	28.16	28.92	27.97	28.50
5	28.04	28.80	27.76	26.96	28.49	27.70	27.57	28.13	28.09	28.80	27.92	28.48
6	28.04	28.75	27.73	26.95	28.37	27.66	27.48	28.87	28.03	28.72	27.88	28.45
7	28.05	28.85	27.69	28.97	28.27	27.61	27.44	28.90	27.95	28.65	27.85	28.38
8	28.00	28.70	27.66	28.83	28.21	27.54	27.86	28.77	28.87	28.60	27.80	28.34
9	27.95	28.65	27.63	28.73	28.15	27.47	28.38	28.64	27.80	28.57	27.75	28.29
10	27.93	28.60	27.59	29.04	28.07	27.45	28.39	28.56	27.73	28.55	27.70	28.24
11	27.90	28.55	27.54	28.86	28.04	27.49	28.13	29.04	27.68	28.45	27.68	28.20
12	27.90	28.53	27.66	29.40	28.00	27.49	28.03	28.71	27.69	28.35	27.65	28.27
13	27.88	28.50	27.81	29.10	28.08	28.30	27.93	28.60	27.52	28.50	27.73	28.11
14	27.87	28.46	27.75	28.95	27.91	28.03	27.86	28.70	27.48	29.14	27.68	28.08
15	27.89	28.40	27.67	28.85	27.84	27.95	27.76	28.50	27.42	29.04	27.63	28.21
16	27.85	28.35	27.63	28.78	27.80	27.85	27.66	28.50	27.37	28.89	28.60	28.11
17	27.82	28.31	27.56	28.74	27.75	27.83	27.61	28.40	27.51	28.77	29.42	28.05
18	27.80	28.26	27.53	29.30	27.70	27.83	27.70	28.27	27.54	28.67	29.28	28.03
19	27.78	28.22	27.50	29.70	27.66	28.04	27.61	28.23	27.57	28.58	29.16	28.00
20	27.77	28.19	27.48	29.95	27.61	27.83	27.54	28.84	27.60	28.55	29.06	27.98
21	27.76	28.15	27.47	29.55	27.56	27.83	27.51	28.63	27.43	28.47	28.97	27.96
22	27.75	28.10	27.45	29.38	27.50	27.66	28.35	28.49	27.35	28.40	28.90	27.95
23	27.73	28.05	27.40	29.24	27.45	27.58	28.31	28.41	27.27	28.72	28.92	27.91
24	27.72	28.01	27.37	29.14	27.39	27.83	28.16	28.30	27.21	28.90	28.85	27.89
25	27.70	27.98	27.34	29.05	27.35	27.83	28.34	28.23	27.17	28.69	28.80	27.87
26	27.68	27.95	27.29	29.01	27.31	27.63	28.16	28.16	27.13	28.62	28.75	27.85
27	27.65	27.92	27.25	28.93	28.46	27.55	28.66	28.13	27.09	28.51	28.70	27.87
28	27.65	27.90	27.22	28.88	28.58	27.40	28.57	28.80	27.68	28.40	28.68	27.82
29	27.63		27.19	29.15	28.27	27.35	28.46	28.67	28.08	28.34	28.66	27.78
30	27.62		27.18	28.87	28.12	27.30	28.38	28.87	28.28	28.25	28.60	27.75
31	27.60		27.15		28.00		28.63	28.55		28.20		27.71

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.68	27.12	28.38	28.15	26.85	28.24	27.35	29.44	.....	29.34	29.12	28.03
2	27.66	27.35	28.31	28.07	26.79	28.07	28.35	29.80	.....	29.30	29.07	27.99
3	27.62	28.07	28.25	27.97	26.76	27.97	28.43	29.67	.....	29.20	29.01	27.95
4	27.60	28.08	28.15	27.91	26.74	27.87	28.22	29.92	.....	29.14	28.96	27.93
5	27.57	28.18	28.08	27.85	26.72	27.79	29.22	29.52	.....	29.12	28.91	27.90
6	27.57	28.07	28.02	27.77	26.71	27.68	30.19	29.32	.....	e29.22	.....	27.86
7	27.52	28.00	27.95	27.70	26.70	27.61	30.27	29.22	.....	e29.20	.....	27.83
8	27.49	27.93	27.90	27.63	26.70	27.55	29.70	29.38	.....	e29.18	.....	27.80
9	27.47	27.86	27.84	27.57	26.68	27.48	29.50	29.13	.....	e29.16	.....	27.76
10	27.43	27.82	27.80	27.52	26.70	27.92	29.35	29.02	.....	e29.14	.....	27.75
11	27.40	27.75	27.75	27.47	27.20	27.95	29.62	29.50	.....	e29.12	.....	27.70
12	27.38	27.70	27.72	27.43	27.40	27.74	29.26	29.17	.....	e29.10	.....	27.67
13	27.36	27.65	27.70	27.38	27.42	27.75	29.19	29.05	.....	e29.08	.....	27.66
14	27.33	27.60	27.67	27.55	27.29	27.62	29.09	29.18	.....	e29.06	.....	27.76
15	27.30	27.57	28.57	27.39	27.20	27.51	29.00	29.02	.....	e29.05	.....	27.68

25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	27.29	27.53	28.48	27.32	27.13	27.42	28.92	29.13	.....	e29.04	.....	27.63
17	27.26	27.73	28.35	27.26	27.09	27.38	29.48	28.95	.....	e29.70	.....	27.60
18	27.24	27.59	28.25	27.21	27.07	27.53	29.12	28.85	.....	e29.95	.....	27.56
19	27.22	27.53	28.20	27.16	26.98	27.60	28.98	28.85	.....	e30.28	.....	27.55
20	27.20	27.48	28.13	27.12	26.93	27.64	29.04	e29.00	.....	e30.37	.....	27.53
21	27.18	27.47	28.05	27.07	27.07	27.69	28.87	28.83	.....	e30.17	.....	27.52
22	27.15	27.42	27.95	27.03	28.53	27.75	28.78	28.77	.....	e30.00	.....	27.50
23	27.12	27.40	27.88	26.97	28.59	27.60	28.93	28.72	.....	e29.80	.....	27.46
24	27.10	27.41	27.82	26.93	28.42	27.48	28.77	28.65	.....	29.57	.....	27.43
25	27.24	27.41	27.77	26.94	28.27	27.38	28.70	29.12	.....	29.45	.....	27.40
26	27.25	28.63	28.71	27.10	28.13	27.28	28.60	28.90	.....	29.93	.....	27.38
27	27.20	28.68	28.80	27.13	28.41	27.28	28.62	28.78	.....	29.71	.....	27.37
28	27.29	28.54	28.65	27.00	28.27	27.26	28.55	29.15	.....	29.52	28.11	27.36
29	27.31	28.46	28.50	26.91	28.17	27.20	28.83	.....	.....	29.33	28.10	27.35
30	27.22	.....	28.37	26.87	28.52	27.07	28.75	.....	29.47	29.25	28.00	27.34
31	27.16	.....	28.25	.....	28.40	.....	28.64	.....	.....	29.18	.....	27.34

e Estimated.

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 59.72 below lsd, Dec. 29, 1952. Records available: 1949-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.47	54.96	53.50	53.59	53.90	55.18	56.23	56.86	57.63	58.33	58.70
2	56.30	54.89	53.50	53.64	53.96	55.25	56.13	56.88	57.62	58.32	58.68
3	56.25	54.81	53.53	53.70	54.00	55.22	56.21	56.91	57.81	58.35	58.70
4	56.24	54.70	53.50	53.55	54.03	55.34	56.31	56.95	57.72	58.45	58.78
5	56.32	54.72	53.40	53.48	54.09	55.65	56.30	57.00	57.89	58.39	58.72
6	56.38	54.67	53.50	53.62	54.11	55.45	56.34	56.96	57.89	58.38	58.75
7	56.35	54.62	53.50	53.40	54.22	55.46	56.27	57.02	57.82	58.42	58.76
8	56.42	54.57	53.49	53.33	54.24	55.46	56.30	57.05	57.80	58.44	58.75
9	56.39	54.49	53.48	53.40	54.33	55.43	56.35	57.10	57.78	58.43	58.81
10	56.40	54.34	53.47	53.50	54.34	55.41	56.35	57.15	58.02	58.45	58.75
11	56.38	54.29	53.54	53.49	54.37	55.45	56.38	57.18	58.09	58.52	58.78
12	56.42	54.30	53.52	53.50	54.46	55.55	56.47	57.12	58.10	58.48	58.83
13	56.40	54.20	53.40	53.52	54.71	55.60	56.53	57.20	58.10	58.45	58.82
14	56.29	54.18	53.42	53.55	54.77	55.61	56.56	57.28	58.12	58.47	58.88
15	56.05	54.15	53.40	53.56	54.69	55.73	56.57	57.19	57.98	58.45	58.89
16	55.95	54.18	53.39	53.59	54.82	55.66	56.58	57.23	57.95	58.54	58.97
17	56.00	54.11	53.44	53.62	54.73	55.75	56.59	57.21	58.20	58.55	58.99
18	56.07	53.95	53.51	53.60	54.73	55.93	56.63	57.28	58.18	58.58	58.97
19	56.00	53.91	53.58	53.61	54.76	55.83	56.68	57.26	58.08	58.41	58.97
20	55.85	53.89	53.47	53.60	54.98	56.70	56.71	57.23	57.92	58.38	58.95
21	55.82	53.87	53.46	53.63	54.87	55.90	56.63	57.32	58.23	58.43	58.93
22	55.76	53.81	53.52	53.70	54.93	55.83	56.67	57.13	58.28	58.45	58.96
23	55.58	53.81	53.55	53.71	54.98	55.86	56.67	57.25	58.05	58.54	59.00
24	55.48	53.72	53.40	53.72	54.97	55.89	56.72	57.24	58.17	58.58	59.03
25	55.41	53.70	53.39	53.74	55.03	55.92	56.73	57.32	58.19	58.60	58.99
26	55.27	53.68	53.29	53.72	55.19	55.97	56.80	57.38	58.23	58.63	58.99
27	55.22	53.66	53.28	53.74	55.17	56.09	56.82	57.70	58.13	58.62	59.00
28	55.17	53.65	53.38	53.82	55.10	56.03	56.85	57.49	58.27	58.63	59.02
29	56.44	55.00	53.65	53.41	53.81	55.11	56.08	56.69	57.79	58.35	58.63	59.08
30	56.48	.....	53.66	53.63	53.85	55.12	56.12	56.72	57.52	58.32	58.63	59.05
31	56.50	.....	53.60	.....	53.85	.....	56.18	.....	.....	58.32	.....	58.96

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.19	55.66	54.20	54.42	54.85	56.07	56.99	57.63	58.40	59.02	59.37
2	57.06	55.57	54.37	54.54	54.90	56.08	57.00	57.65	58.45	58.97	59.32
3	56.96	55.56	54.38	54.46	54.95	56.14	57.00	57.70	58.51	59.12	59.40
4	56.97	55.42	54.26	54.27	55.00	56.20	57.10	57.75	58.55	59.07	59.42
5	57.08	55.42	54.39	54.34	55.06	56.29	57.10	57.73	58.48	59.12	59.35

15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	57.05	55.31	54.21	54.41	55.17	56.30	57.13	57.74	58.51	59.11	59.42
7	57.10	55.29	54.32	54.23	55.17	56.31	57.08	57.74	58.40	59.12	59.38
8	57.12	55.28	54.31	54.33	55.26	56.28	57.13	57.83	58.42	59.22	59.42
9	57.14	55.18	54.29	54.47	55.27	56.26	57.11	57.87	58.32	59.19	59.44
10	57.12	55.06	54.30	54.55	55.30	56.30	57.15	57.88	58.09	59.15	59.38
11	57.09	55.04	54.37	54.33	55.35	56.35	57.21	57.87	58.10	59.12	59.52
12	57.11	55.05	54.34	54.46	55.44	56.41	57.30	57.92	58.11	59.13	59.51
13	57.13	54.92	54.18	54.49	55.52	56.44	57.34	57.97	58.12	59.13	59.50
14	57.06	54.90	54.19	54.52	55.57	56.50	57.35	57.95	58.52	59.13	59.52
15	56.78	54.88	54.13	54.59	55.58	56.50	57.35	57.98	58.60	59.20	59.58
16	56.65	54.86	54.22	54.61	55.63	56.56	57.36	57.96	58.20	59.19	59.62
17	56.71	54.90	54.34	54.58	55.64	56.64	57.40	58.02	58.79	59.23	59.62
18	56.80	54.68	54.44	54.58	55.65	56.70	57.46	58.00	58.80	59.25	59.61
19	56.73	54.68	54.43	54.58	55.70	56.79	57.49	57.99	58.78	59.08	59.60
20	56.57	54.66	54.28	54.55	55.77	56.79	57.42	58.05	58.82	59.02	59.58
21	56.53	54.63	54.35	54.62	55.80	56.83	57.45	58.02	58.94	59.03	59.55
22	56.44	54.61	54.35	54.68	55.82	56.69	57.43	57.95	58.93	59.13	59.62
23	56.23	54.50	54.40	54.73	55.83	56.71	57.47	57.97	58.86	59.18	59.61
24	56.15	54.39	54.18	54.75	55.85	56.74	57.50	58.03	58.83	59.23	59.62
25	56.06	54.50	54.10	54.71	55.91	56.73	57.54	58.08	58.89	59.31	59.58
26	56.92	54.41	54.06	54.69	55.93	56.84	57.58	58.11	58.89	59.28	59.61
27	55.91	54.43	54.05	54.76	55.98	56.83	57.60	58.21	58.96	59.28	59.62
28	55.82	54.39	54.21	54.75	55.95	56.84	57.61	57.80	58.92	59.32	59.70
29	57.13	55.68	54.43	54.32	54.79	55.94	56.91	57.44	58.17	59.02	59.32	59.72
30	57.23	.....	54.51	54.41	54.79	56.00	56.96	57.50	58.32	59.08	59.42	59.61
31	57.26	.....	54.41	.....	54.80	.....	57.01	57.60	.....	59.01	.....	59.63

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 26.77 below lsd, Mar. 29, 1952; lowest 43.76 below lsd, Nov. 2, 1951. Records available: 1950-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.19	38.20	34.31	28.57	35.70	37.13	38.23	39.57	39.30	38.97	39.82	40.86
2	37.31	37.91	34.16	29.35	.....	37.00	38.28	39.59	39.31	39.00	39.84	40.88
3	37.41	37.88	34.05	29.80	.....	37.01	38.32	39.62	39.24	39.02	39.86	40.92
4	37.47	37.92	33.98	30.31	.....	37.05	38.35	39.66	39.20	39.04	39.90	40.95
5	37.50	38.00	33.97	31.02	.....	37.13	38.40	39.72	39.18	39.06	39.91	40.98
6	37.59	38.00	33.72	31.65	.....	37.19	38.45	39.75	39.15	39.09	39.94	41.02
7	e37.65	37.95	32.91	32.09	.....	37.25	38.50	39.78	39.12	39.11	39.98	41.03
8	37.67	37.91	32.09	32.43	.....	37.32	38.56	39.78	39.13	39.14	40.00	41.06
9	37.81	37.90	30.80	32.79	.....	37.38	38.61	39.78	39.16	39.19	40.00	41.08
10	37.81	37.91	29.72	33.14	.....	37.43	38.68	39.63	39.17	39.23	40.02	41.10
11	37.89	37.93	30.02	33.41	.....	37.48	38.77	39.52	39.17	39.27	40.07	41.13
12	e37.91	37.97	30.46	33.65	.....	37.52	38.80	39.47	39.19	39.32	40.11	41.14
13	e37.92	38.01	30.12	33.85	.....	37.60	38.82	39.47	39.19	39.38	40.16	41.15
14	e37.93	38.04	29.51	34.04	.....	37.65	38.85	39.50	39.18	39.42	40.22	41.16
15	e37.98	38.01	28.85	34.21	.....	37.68	38.89	39.55	39.19	39.44	40.28	41.18
16	e38.02	37.75	28.64	34.33	.....	37.73	38.93	39.57	39.19	39.47	40.33	41.20
17	e38.05	37.34	.....	34.40	.....	37.75	38.98	39.60	39.20	39.50	40.38	41.20
18	.....	36.84	.....	34.56	.....	37.78	39.02	39.60	39.20	39.52	40.43	41.22
19	.....	36.52	29.94	34.66	.....	37.80	39.05	39.60	39.20	39.52	40.45	41.23
20	.....	36.40	30.60	34.76	.....	37.81	39.09	39.63	39.19	39.55	40.48	41.25
21	.....	36.24	31.22	34.48	.....	37.85	39.14	39.62	38.94	39.70	40.68	41.33
22	.....	36.02	31.70	35.00	36.97	37.88	39.16	39.61	39.11	39.63	40.56	41.27
23	.....	35.76	32.18	35.10	37.00	37.92	39.18	39.57	39.04	39.65	40.60	41.30
24	.....	35.05	32.52	35.18	37.03	37.95	39.22	39.57	39.00	39.65	40.63	41.31
25	.....	35.41	31.92	35.26	37.06	37.99	39.25	39.59	38.97	39.67	40.66	41.33
26	.....	35.21	30.60	35.32	37.10	38.04	39.30	39.62	38.94	39.70	40.68	41.33
27	.....	35.10	28.91	35.41	37.15	38.08	39.33	39.63	38.92	39.72	40.73	41.31
28	.....	34.89	27.42	35.51	37.19	38.12	39.37	39.67	38.92	39.74	40.76	41.30
29	38.53	34.58	26.86	35.59	37.17	38.15	39.42	39.66	38.94	39.79	40.80	41.29
30	38.57	.....	27.12	35.68	37.18	38.18	39.45	39.44	38.95	39.80	40.83	41.27
31	38.49	.....	27.82	.....	37.19	.....	39.53	39.30	.....	39.80	.....	41.27

e Estimated.

Lake County

18. Maurice Brantley. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 17 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 190 feet. Land-surface datum is 99.2 feet above msl. Highest water level 49.6 below lsd, Nov. 1948; lowest 57.0 below lsd, Apr. 1936. Records available: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	56.94	Apr. 29	55.05	July 18	54.74	Oct. 9	56.60
Apr. 3	54.19	June 7	55.24	Aug. 29	54.45	Nov. 21	56.39

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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	53.07	Apr. 29	52.30	July 18	53.17	Oct. 9	52.55
Apr. 3	52.34	June 7	52.55	Aug. 29	53.00	Nov. 21	52.29

20. Margarite E. Wilson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 17 S., R. 29 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 252 feet. Land-surface datum is 10.7 feet above msl. Highest water level 11.3 above lsd, Oct. 1945; lowest 7.9 above lsd, Apr. 1939. Records available: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	+9.3	Apr. 29	+9.0	July 18	+7.9	Oct. 9	+9.0
Apr. 3	+9.4	June 7	+8.4	Aug. 29	+8.4	Nov. 21	+8.8

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 0.14 above lsd, Oct. 2, 1951; lowest 9.67 below lsd, June 8, 1949. Records available: 1945-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.70	5.71	4.71	5.08	5.91	6.19	3.71	2.46	0.91	0.73	1.41	3.01
2	4.74	5.69	4.71	5.11	5.93	6.13	3.76	2.41	1.11	.66	1.47	3.03
3	4.78	5.42	4.71	5.16	5.96	6.09	3.66	2.68	1.40	.89	1.58	3.07
4	4.83	5.15	4.76	5.21	5.98	6.06	3.43	1.71	1.59	1.01	1.65	3.11
5	4.88	5.02	4.81	5.26	6.00	6.05	3.12	1.93	1.64	.95	1.74	3.13
6	4.93	4.91	4.86	5.29	6.02	6.04	3.09	2.06	.62	.64	1.78	3.18
7	4.97	4.86	4.89	5.31	6.04	6.01	3.01	2.15	.76	.69	1.88	3.21
8	5.01	4.85	4.94	5.34	6.06	5.91	2.91	1.57	.80	.65	1.96	3.24
9	5.05	4.85	4.98	5.39	6.08	5.76	3.06	1.44	1.00	.72	1.99	3.26
10	5.11	4.86	5.00	5.44	6.11	5.64	3.16	.46	1.10	.78	2.07	3.29
11	5.16	4.87	5.06	5.48	6.13	5.53	3.26	.81	.62	.83	2.13	3.16
12	5.18	4.91	5.10	5.51	6.16	5.46	3.33	1.06	.62	.79	1.81	3.26
13	5.21	4.96	5.13	5.54	6.18	5.42	3.06	1.20	.68	.86	2.17	3.29
14	5.25	5.00	5.19	5.58	6.21	5.38	2.64	.71	.63	.65	2.23	3.13
15	5.29	5.03	5.24	5.61	6.23	5.36	2.77	1.13	.74	.66	2.31	3.16
16	5.31	5.07	5.29	5.63	6.25	5.33	2.89	1.29	.83	.76	2.38	3.22
17	5.35	5.15	5.32	5.66	6.26	5.26	2.98	1.96	.99	.81	2.43	3.28
18	5.38	5.17	5.34	5.68	6.27	4.91	3.08	2.25	.84	.65	2.50	3.32
19	5.41	5.20	5.38	5.71	6.29	4.46	3.16	1.74	.62	.65	2.56	3.34
20	5.44	5.26	5.42	5.73	6.31	4.27	3.24	1.47	.66	.65	2.24	3.36
21	5.46	5.31	5.46	5.74	6.33	4.23	3.31	.83	.72	.71	2.43	3.36
22	5.50	5.33	5.49	5.76	6.35	4.05	3.37	1.37	.81	.76	2.60	3.41
23	5.55	5.36	5.52	5.78	6.36	3.96	3.44	1.50	.94	.71	2.65	3.43
24	5.57	5.41	5.55	5.80	6.38	3.92	3.49	1.61	.66	.76	2.72	3.46
25	5.60	5.43	5.57	5.82	6.39	3.97	2.97	1.66	.78	.90	2.78	3.49
26	5.62	5.27	5.59	5.83	6.41	4.01	2.82	1.75	.93	1.00	2.81	3.51
27	5.64	4.96	5.39	5.84	6.42	4.03	2.98	1.90	.72	1.05	2.88	3.53
28	5.68	4.79	5.23	5.85	6.44	3.94	3.07	1.38	.97	1.15	2.91	3.56
29	5.71	4.73	5.17	5.86	6.41	3.71	3.17	1.96	1.13	1.34	2.95	3.58
30	5.73		5.13	5.88	6.33	3.66	3.26	1.97	.68	1.37	2.98	3.59
31	5.74		5.09		6.26		3.34	.64		1.26		3.57

367. J. H. Roediger. McGregor Blvd. and Whiskey Creek. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 45 S., R. 24 E. Drilled irrigation artesian well in limestone of Floridan aquifer, diameter 6 inches, reported depth 1,060 feet. Highest water level 29.3 above lsd, Sept. 25, 1944; lowest 21.8 above lsd, Mar. 24, 1952. Records available: 1944, 1950-52. Mar. 24, +21.8; Sept. 30, +25.8.

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 1.03 below lsd, Oct. 2, 1951; lowest 5.37 below lsd, Apr. 26, 1950. Records available: 1948-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.52	4.29	3.25	3.70	4.57	4.22	3.32	2.89	2.25	....	2.37	3.54
2	4.59	4.15	3.28	3.80	4.59	4.20	3.35	2.94	2.35	....	2.43	3.59
3	4.60	3.87	3.30	3.88	4.60	4.21	3.05	3.02	2.45	....	2.48	3.70
4	4.57	3.79	3.38	3.95	4.61	4.22	2.85	3.08	2.55	....	2.53	3.75
5	4.60	3.73	3.42	4.01	4.62	4.25	2.65	2.58	2.60	....	2.58	3.75
6	4.63	3.72	3.46	4.01	4.63	4.17	2.62	2.52	2.29	2.15	2.65	3.77
7	4.61	3.70	3.48	4.03	4.64	3.83	2.45	2.64	2.38	1.90	2.73	3.79
8	4.66	3.75	3.52	4.08	4.65	3.66	2.34	2.70	2.42	1.73	2.76	3.81
9	4.67	3.73	3.55	4.17	4.65	3.60	2.43	2.32	2.28	1.73	2.78	3.86
10	4.72	3.77	3.58	4.22	4.67	3.50	2.51	2.00	2.38	1.89	2.84	3.86
11	4.78	3.80	3.60	4.25	4.69	3.47	2.60	1.82	2.02	2.00	2.92	3.88
12	4.80	3.87	3.62	4.25	4.70	3.52	2.70	1.88	1.66	2.04	2.80	3.98
13	4.75	3.92	3.63	4.27	4.72	3.60	2.75	1.98	e1.63	2.10	2.78	4.16
14	4.74	3.94	3.66	4.30	4.74	3.53	2.32	2.06	e1.68	1.60	2.85	3.96
15	4.75	3.95	3.69	4.35	4.75	3.45	2.25	1.80	e1.70	1.60	2.90	3.88
16	4.85	3.97	3.72	4.43	4.77	3.48	2.46	1.78	e1.71	1.55	2.95	4.05
17	4.89	4.00	3.76	4.48	4.79	3.45	2.60	1.95	e1.72	1.65	3.05	4.10
18	4.90	4.01	3.81	4.52	4.70	3.48	2.67	1.75	e1.75	1.40	3.13	4.05
19	4.87	4.07	3.87	4.55	4.68	3.33	1.75	1.90	e1.78	1.38	3.16	4.03
20	4.84	4.13	3.90	4.55	4.70	3.25	2.83	1.98	e1.80	1.22	3.09	4.03
21	4.80	4.20	3.94	4.54	4.72	3.21	2.92	1.89	e1.82	1.37	2.96	4.05
22	4.78	4.21	4.01	4.56	4.75	3.09	2.98	2.03	e1.84	1.48	3.00	4.04
23	4.95	4.22	4.10	4.59	4.75	3.16	3.03	2.10	e1.87	1.50	3.07	4.14
24	4.99	4.20	4.20	4.62	4.76	3.25	3.10	1.86	e1.88	1.53	3.14	4.25
25	5.02	4.13	4.27	4.60	4.77	3.32	3.16	2.04	e1.90	1.69	3.18	4.27
26	5.05	3.62	3.95	4.52	4.78	3.38	2.97	2.18	e1.92	1.81	3.24	4.24
27	4.99	3.40	3.65	4.48	4.80	3.45	3.00	2.18	e1.95	1.90	3.31	4.29
28	4.73	3.37	3.56	4.48	4.63	3.15	3.03	1.89	e1.97	2.02	3.41	4.29
29	4.50	3.22	3.60	4.51	4.35	3.14	3.08	1.79	e2.00	2.20	3.47	4.25
30	4.40		3.63	4.55	4.25	3.24	2.93	1.97	....	2.28	3.54	4.37
31	4.35		3.65		4.23		2.84	2.12		2.32		4.40

e Estimated.

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. Records available: 1931-52.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	105.2	102.5	101.6	100.5	102.4	.....	.....	103.8	.....	104.9	.....
2	.....	105.2	102.5	101.5	100.5	102.4	.....	.....	.....	.....	104.6	105.2
3	.....	105.2	102.4	101.3	100.5	102.4	103.4	.....	.....	.....	.....	.....
4	105.3	105.2	102.3	101.3	100.5	.....	.....	.....	.....	.....	105.0	105.5
5	105.3	105.2	102.2	101.3	100.5	.....	.....	.....	104.1	.....	102.7	105.6
6	105.4	105.2	102.1	101.1	100.5	.....	.....	104.4	.....	.....	104.7	.....
7	105.4	103.6	102.1	101.1	.....	.....	.....	.....	.....	.....	105.6	105.7
8	105.4	103.6	102.1	101.0	100.5	.....	.....	104.7	.....	.....	104.9	.....
9	105.4	103.6	102.1	101.0	100.5	.....	103.6	.....	.....	.....	105.6	105.7
10	105.4	103.5	102.1	100.9	100.5	.....	103.6	.....	103.6	.....	105.6	105.7
11	105.4	103.5	102.0	100.9	100.5	102.6	103.6	104.3	104.6	.....	.....	105.8
12	105.4	103.5	102.0	100.9	101.3	102.6	.....	.....	.....	104.4	105.2	102.5
13	105.4	103.5	101.9	100.9	.....	102.8	.....	.....	105.4	.....	105.2	.....
14	105.4	103.4	101.9	100.7	.....	102.0	103.6	.....	103.9	104.4	.....	.....
15	105.4	103.4	101.9	100.7	101.6	.....	.....	103.6	.....	.....	.....	105.5

5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	105.4	103.4	101.9	100.6	101.9	102.9	103.3	.....	.....	104.4	.....	105.5
17	105.4	103.3	101.8	100.6	101.9	102.9	103.6	104.5	.....	104.6	.....	105.5
18	105.4	103.3	101.8	100.6	101.9	102.2	103.9	.....	.....	.....	.....	105.5
19	105.4	103.2	101.8	100.6	101.9	102.6	103.5	.....	.....	104.6	.....	.....
20	105.4	103.2	101.8	100.6	101.9	102.7	103.9	.....	.....	104.1	.....	105.7
21	105.4	103.2	101.8	100.6	.....	102.5	.....	.....	.....	104.6	104.9	.....
22	105.4	103.2	101.8	100.6	.....	102.3	103.9	.....	.....	104.2	.....	.....
23	105.4	103.2	101.8	100.5	101.9	.....	.....	104.2	.....	.....	.....	.....
24	105.4	103.2	101.7	100.5	.....	.....	.....	103.6	.....	.....	.....	.....
25	105.4	103.2	101.7	100.5	102.1	.....	.....	104.0	.....	.....	.....	106.0
26	105.4	103.1	101.7	100.5	102.4	.....	.....	104.2	.....	104.3	.....	.....
27	105.4	.....	101.6	100.5	102.3	.....	.....	.....	.....	.....	.....	106.1
28	105.4	103.1	101.6	100.5	102.1	.....	.....	.....	.....	104.5	.....	.....
29	105.4	102.6	101.6	100.5	.....	103.2	.....	.....	.....	.....	.....	106.1
30	105.4	.....	101.6	100.5	.....	.....	.....	.....	.....	104.6	.....	105.9
31	105.2	.....	101.6	.....	.....	.....	.....	.....	.....	104.5	.....	.....

7. City of Tallahassee. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 1 N., R. 1 W. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 211 feet. Land-surface datum is 186.5 feet above msl. Highest water level 148.84 below lsd, Apr. 26, 1948; lowest 167.60 below lsd, July 5, 1945. Records available: 1945-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	163.35	163.59	162.14	160.60	160.87	161.90	.....	163.94	163.80	163.63	164.52	.....
2	163.35	163.42	162.13	160.66	160.92	161.85	163.04	163.91	.....	163.68	164.55	.....
3	163.34	163.41	162.03	160.70	160.98	162.00	163.06	163.91	.....	163.74	164.57	165.30
4	163.30	163.44	161.97	160.61	161.01	162.03	163.09	163.97	.....	163.80	164.67	165.32
5	163.26	163.57	161.94	160.60	161.04	162.09	163.11	164.05	.....	163.78	164.61	165.26
6	163.26	163.70	161.87	160.73	160.98	162.13	163.16	164.07	.....	163.77	164.59	165.37
7	163.37	163.68	161.85	160.71	161.00	162.16	163.18	164.08	.....	163.82	164.77	165.37
8	.....	163.71	161.82	160.70	161.04	162.18	163.18	164.10	.....	163.80	164.76	165.37
9	163.31	163.66	161.72	160.67	161.04	.....	163.23	164.11	163.61	163.85	164.72	165.37
10	163.29	163.66	161.56	160.72	161.08	.....	163.25	164.12	163.57	163.95	164.67	165.33
11	163.49	163.63	161.45	160.67	161.07	162.27	163.31	164.13	163.53	163.97	164.73	165.43
12	163.46	163.68	161.37	160.66	.....	162.27	163.38	164.18	163.55	163.98	164.81	165.45
13	163.38	163.66	161.33	160.48	.....	162.37	163.41	164.21	163.57	.....	164.80	165.43
14	163.38	163.69	161.34	160.46	.....	162.45	163.40	164.18	163.55	.....	164.78	165.42
15	163.42	163.64	161.28	160.59	.....	.....	163.46	164.19	163.54	.....	164.84	165.51
16	163.43	163.40	.....	160.58	.....	.....	163.43	164.17	163.50	.....	164.80	165.55
17	163.46	163.40	.....	160.70	.....	162.48	163.49	164.17	163.52	.....	164.80	165.55
18	163.44	163.36	.....	160.68	.....	162.52	163.53	.....	163.54	.....	164.95	165.58
19	163.48	163.20	161.18	160.64	.....	162.54	163.53	.....	163.55	.....	164.80	165.60
20	163.42	163.00	161.16	160.65	161.56	162.57	163.52	.....	163.60	.....	164.81	165.57
21	163.51	163.00	161.12	160.65	161.62	162.60	.....	.....	163.56	.....	164.88	165.58
22	163.47	162.85	161.04	.....	161.66	162.64	163.56	.....	163.52	164.28	165.06	.....
23	163.53	162.69	161.00	.....	161.70	162.66	163.68	.....	163.59	164.29	165.10	165.64
24	163.64	162.61	160.92	.....	161.70	162.70	163.63	.....	163.61	164.32	165.13	165.66
25	163.62	162.52	160.96	.....	161.73	162.70	163.72	.....	163.56	164.33	.....	165.67
26	163.58	.....	160.88	.....	161.70	162.75	163.76	.....	163.57	164.42	.....	165.65
27	163.52	.....	160.85	.....	161.73	162.77	163.82	164.06	163.58	164.42	.....	165.67
28	163.41	162.24	160.84	.....	161.80	162.82	163.85	164.05	163.61	164.42	.....	165.68
29	163.60	162.18	160.88	160.76	161.78	162.88	163.84	163.95	163.63	164.57	.....	.....
30	163.70	.....	160.83	160.82	161.80	.....	163.89	163.91	163.64	164.55	.....	.....
31	163.73	.....	160.71	.....	161.85	.....	163.94	163.91	.....	164.52	.....	165.60

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	163.53	163.86	162.38	160.85	162.29	162.15	.....	164.17	164.06	163.90	165.95	.....
2	163.51	163.69	162.33	160.88	162.34	162.20	164.27	164.15	.....	163.98	165.98	.....
3	163.53	163.62	162.24	160.93	161.21	162.33	164.28	164.03	.....	164.04	166.00	166.53
4	163.49	163.71	162.24	160.81	162.38	163.47	164.27	164.25	.....	164.02	166.05	165.43
5	163.46	163.85	162.12	160.87	162.42	163.58	163.41	164.32	.....	164.03	165.83	166.53
6	163.50	163.88	162.08	160.96	162.40	163.58	163.41	164.34	.....	164.07	165.85	165.59
7	163.58	163.93	162.01	160.93	162.48	163.57	164.56	164.34	.....	164.08	165.98	166.58
8	.....	163.98	161.98	161.87	162.50	163.44	164.44	164.36	.....	164.05	166.14	165.63
9	163.52	163.88	161.93	162.00	162.52	.....	164.43	164.36	163.86	164.14	166.05	166.57
10	163.63	163.87	161.92	162.04	162.54	.....	164.46	164.20	163.80	164.20	165.97	166.55

7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	163.71	163.91	161.77	162.08	162.54	163.72	164.54	164.38	163.78	164.21	165.98	166.67
12	163.63	163.93	161.59	160.87	.....	163.75	163.47	164.43	163.77	164.07	166.05	165.70
13	163.58	163.92	161.52	161.78	.....	163.85	163.44	164.46	163.82	.....	166.04	166.62
14	163.56	163.92	161.55	161.83	.....	163.73	164.62	164.40	163.62	.....	166.05	166.68
15	163.61	163.88	161.55	161.98	.....	.....	164.63	164.45	163.78	.....	165.11	166.68
16	163.63	163.70	.....	161.79	.....	.....	164.67	164.47	163.80	.....	166.11	166.78
17	163.63	163.61	.....	161.98	.....	162.74	164.73	164.30	163.82	.....	166.15	166.80
18	163.63	163.56	.....	161.96	.....	162.64	164.75	.....	163.83	.....	166.13	166.78
19	163.63	162.52	161.40	162.04	.....	163.76	164.67	.....	163.68	.....	165.12	166.79
20	163.62	163.33	161.38	162.04	162.84	164.00	164.75	.....	163.86	.....	166.13	166.78
21	163.68	163.30	161.32	162.08	163.02	164.03	.....	.....	163.84	.....	165.22	166.60
22	163.63	163.16	161.26	.....	163.05	162.78	165.00	.....	163.75	165.45	165.13	.....
23	163.83	162.94	161.23	.....	163.12	163.96	165.08	.....	163.84	165.53	165.19	166.87
24	163.86	162.80	161.25	.....	163.15	163.95	165.13	.....	163.78	165.55	165.37	166.86
25	163.80	162.78	161.16	.....	161.94	164.13	165.14	.....	163.85	165.75	.....	166.88
26	163.77	.....	161.13	.....	162.97	164.02	165.15	.....	163.79	165.63	.....	166.80
27	163.76	.....	161.06	.....	163.16	163.04	164.04	164.30	163.69	165.68	.....	165.79
28	163.71	162.48	161.04	.....	163.25	164.08	165.00	164.32	163.70	165.87	.....	165.78
29	163.83	162.37	161.07	162.13	163.14	163.14	164.99	164.26	163.90	165.78	.....	.....
30	163.91	.....	161.02	162.23	163.19	.....	165.06	164.16	163.92	165.97	.....	.....
31	163.93	.....	161.00	.....	163.22	.....	164.03	163.95	165.77	.....	.....	166.85

c Nearly well being pumped.

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: 1950-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	142.62	142.56	140.99	139.13	138.22	.....	138.82	139.55	140.63	140.68	141.33	141.91
2	142.62	142.24	141.08	139.12	138.24	.....	138.91	139.49	140.61	140.71	141.37	141.82
3	142.62	142.10	141.06	139.16	138.28	.....	138.92	139.51	140.62	140.80	141.37	141.92
4	142.58	142.09	141.05	139.01	138.30	.....	138.95	139.55	140.65	140.85	141.38	141.96
5	142.50	142.26	141.16	138.95	138.31	.....	138.97	.....	140.70	140.80	141.37	141.90
6	142.53	142.34	141.12	139.06	138.30	.....	138.98	140.09	140.70	140.75	141.37	141.98
7	142.64	142.39	141.09	139.05	138.30	.....	138.99	140.11	140.67	140.75	141.50	141.98
8	142.55	142.38	141.08	138.90	138.28	.....	138.98	140.41	140.67	140.68	141.55	141.98
9	142.49	142.32	141.04	138.87	138.25	.....	138.95	140.61	140.74	140.79	141.46	141.98
10	142.62	142.30	140.87	138.87	138.26	138.44	138.97	140.23	140.73	140.92	141.38	141.88
11	142.79	142.26	140.82	138.82	138.25	138.42	139.07	140.27	140.66	140.95	141.43	142.07
12	142.74	142.26	140.85	138.76	138.42	138.40	139.14	140.34	140.70	140.95	141.55	142.07
13	142.63	142.25	140.71	138.61	138.45	138.45	139.16	140.37	140.77	140.97	141.54	142.05
14	142.56	142.24	140.64	138.55	138.36	138.53	139.14	140.38	140.78	140.95	141.53	142.07
15	142.57	142.18	140.32	138.56	138.34	138.53	139.15	140.35	140.73	140.92	141.58	142.21
16	142.57	142.03	140.40	138.56	138.35	138.51	139.20	140.37	140.70	140.93	141.65	142.27
17	142.54	142.05	140.36	138.61	.....	138.54	139.27	140.37	140.73	141.00	141.67	142.25
18	142.52	142.08	140.19	138.62	.....	138.56	139.30	140.41	140.72	141.05	141.65	142.25
19	142.50	142.01	140.15	138.57	.....	138.58	139.28	140.44	140.73	140.98	141.49	142.25
20	142.46	141.92	140.12	138.58	.....	138.60	139.25	140.45	140.77	140.96	141.51	142.18
21	142.49	141.90	140.03	138.56	.....	138.66	139.27	140.50	140.74	141.22	141.63	142.20
22	142.40	141.71	139.96	138.57	.....	138.71	139.31	140.47	140.65	141.18	141.74	142.22
23	142.65	141.49	139.91	138.54	.....	138.71	139.32	140.46	140.64	141.14	141.85	142.27
24	142.74	141.36	139.78	138.42	.....	138.70	139.32	140.53	140.65	141.13	141.86	142.35
25	142.62	141.35	139.63	138.28	.....	138.69	139.35	140.55	140.64	141.12	141.82	142.37
26	142.55	141.13	139.43	138.09	.....	138.70	139.44	140.57	140.61	141.17	141.82	142.41
27	142.45	141.18	139.32	138.08	.....	138.69	139.45	140.55	140.63	141.13	141.88	142.39
28	142.30	141.08	139.29	138.11	.....	138.75	139.41	140.56	140.70	141.12	141.92	142.40
29	142.52	140.97	139.34	138.11	.....	138.79	139.40	140.52	140.75	141.38	141.90	142.42
30	142.65	.....	139.35	138.18	.....	138.78	139.48	140.48	140.72	141.43	141.92	142.26
31	142.69	.....	139.30	.....	.....	.....	139.55	140.55	.....	141.36	.....	142.26

36. Dawkins Pond Church. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 3 N., R. 2 E. Dug unused water-table well in sand, diameter 4 feet, depth 30 feet, cribbed with stone. Highest water level 0.12 above lsd, Oct. 4, 1948; lowest 26.50 below lsd, Jan. 31, 1944. Records available: 1935-37, 1942-44, 1947-52.

36--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	17.89	Apr. 30	7.80	July 31	17.50	Nov. 3	20.00
Feb. 29	7.20	June 2	9.47	Aug. 26	18.19	Dec. 1	21.40
Mar. 31	6.68	30	15.31	Oct. 1	18.75	30	22.72

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 87.9 below lsd, Apr. 13, 1950; lowest 89.9 below lsd, Feb. 28, 1951. Records available: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	86.0	Apr. 30	82.7	July 31	85.2	Nov. 3	85.7
Feb. 19	85.6	June 9	84.4	Aug. 26	85.1	Dec. 1	86.4
29	84.9	30	83.9	Oct. 6	84.7	30	86.5
Apr. 8	83.1						

b Pumped recently.

Manatee County

92. Ray E. Anderson. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 35 S., R. 20 E. Drilled unused artesian well in Floridan aquifer, diameter 5 inches, depth 600 feet, cased to 154. Land-surface datum is 79.77 feet above msl. Highest water level 35.67 below lsd, Oct. 7, 1946; lowest 42.90 below lsd, May 28, 1952. Records available: 1941-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.63	41.91	.....	40.65	41.58	42.84	41.55	40.60	40.17	39.90	39.38	40.10
2	40.64	41.70	.....	40.59	41.64	42.83	41.51	40.49	40.18	39.94	39.39	40.05
3	40.65	41.48	.....	40.60	41.69	42.82	41.48	40.43	40.18	39.98	39.40	40.05
4	40.65	41.53	.....	40.57	41.75	42.81	41.47	40.40	40.20	39.99	39.39	40.05
5	40.61	41.56	40.70	40.59	41.80	42.78	41.46	40.40	40.23	39.95	39.40	40.00
6	40.58	41.65	40.70	40.70	41.85	42.76	41.43	40.36	40.20	39.90	39.42	40.04
7	40.71	41.67	40.66	40.73	41.91	42.72	41.40	40.30	40.17	39.85	39.52	40.05
8	40.77	41.73	40.66	40.70	41.96	41.67	41.35	40.25	40.15	39.74	39.62	40.07
9	40.79	41.66	40.65	40.68	42.01	42.66	41.28	40.24	40.15	39.75	39.62	40.05
10	40.87	41.60	40.59	40.67	42.09	42.63	41.20	40.20	40.13	39.84	39.60	40.00
11	41.08	41.51	40.56	40.66	42.15	42.57	41.20	40.20	40.09	39.85	39.62	40.10
12	41.13	41.43	40.60	40.64	42.28	.....	41.20	40.20	40.15	39.83	39.72	40.18
13	41.15	41.38	40.57	40.61	42.41	.....	41.18	40.22	40.18	39.80	39.77	40.15
14	41.15	41.33	40.58	40.64	42.48	.....	41.15	40.20	40.16	39.74	39.80	40.11
15	41.18	41.23	40.56	40.76	42.54	.....	41.10	40.15	40.14	39.68	39.84	40.26
16	41.21	41.15	40.67	40.86	42.56	.....	41.06	40.12	40.10	39.64	39.92	40.36
17	41.24	41.17	40.71	40.96	42.60	42.18	41.04	40.12	40.09	39.65	39.98	40.38
18	41.28	41.28	40.72	41.04	42.62	42.13	41.05	40.13	40.11	39.61	39.99	40.40
19	41.30	41.26	40.75	41.08	42.63	42.07	41.00	40.12	40.14	.....	39.92	40.38
20	41.30	41.18	40.79	41.15	42.67	42.03	40.95	40.12	40.15	.....	39.84	40.38
21	41.32	41.17	40.79	41.19	42.73	42.01	40.95	40.10	40.15	.....	39.92	40.34
22	41.35	41.17	40.78	41.26	42.79	42.00	40.95	40.10	40.12	.....	40.05	40.35
23	41.46	41.07	40.79	41.30	42.82	41.96	40.93	40.08	40.10	.....	40.15	40.41
24	41.61	.....	40.78	41.32	42.80	41.90	40.90	40.06	40.12	39.41	40.15	40.48
25	41.60	41.04	40.77	41.32	42.81	41.82	40.88	40.06	40.08	39.37	40.12	40.53
26	41.60	.....	40.72	41.29	42.81	41.76	40.88	40.05	40.03	39.39	40.11	40.55
27	41.58	.....	40.75	41.35	42.84	41.68	40.87	40.04	40.02	39.35	40.11	40.57
28	41.45	.....	40.79	41.44	42.88	41.68	40.80	40.05	40.05	39.35	40.15	40.58
29	41.57	.....	40.79	41.50	42.85	41.66	40.67	40.05	40.01	39.44	40.14	40.60
30	41.79	.....	40.81	41.51	42.84	41.60	40.62	40.05	39.95	39.51	40.11	40.56
31	41.91	.....	40.77	.....	42.82	.....	40.63	40.13	.....	39.44	.....	40.53

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: 1933-52.

5--Continued.

Daily mean water level, above lsd, from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.58	9.25	10.14	10.83	10.70	10.20	9.73	9.36	9.25	9.25	9.72	9.50
2	9.59	9.47	10.12	10.84	10.67	10.18	9.70	9.42	9.28	9.23	9.74	9.53
3	9.59	9.58	10.21	10.79	10.64	10.16	9.65	9.42	9.28	9.17	9.76	9.48
4	9.62	9.47	10.28	10.84	10.62	10.14	9.63	9.37	9.27	9.14	9.79	9.44
5	9.67	9.36	10.23	10.83	10.61	10.13	9.64	9.33	9.26	9.21	9.83	9.49
6	9.70	9.20	10.25	10.71	10.60	10.10	9.63	9.32	9.28	9.23	9.85	9.42
7	9.55	9.21	10.31	10.73	10.59	10.10	9.64	9.34	9.30	9.26	9.77	9.38
8	9.58	9.15	10.33	10.76	10.60	10.09	9.64	9.33	9.29	9.29	9.74	9.39
9	9.60	9.20	10.38	10.80	10.60	10.03	9.66	9.32	9.27	9.21	9.81	9.40
10	9.55	9.21	10.50	10.81	10.57	10.04	9.63	9.33	9.32	9.14	9.90	9.46
11	9.39	9.25	10.56	10.84	10.55	10.05	9.55	9.31	9.33	9.14	9.88	9.33
12	9.43	9.25	10.53	10.89	10.43	10.05	9.51	9.29	9.25	9.17	9.80	9.28
13	9.51	9.23	10.58	10.95	10.39	9.99	9.53	9.28	9.24	9.19	9.79	9.31
14	9.56	9.22	10.57	10.96	10.35	9.94	9.53	9.29	9.26	9.20	9.79	9.31
15	9.56	9.25	10.58	10.88	10.36	9.96	9.54	9.32	9.27	9.28	9.79	9.23
16	9.55	9.37	10.50	10.83	10.37	9.98	9.49	9.32	9.29	9.29	9.73	9.17
17	9.55	9.31	10.50	10.78	10.36	9.95	9.46	9.32	9.28	9.24	9.73	9.17
18	9.55	9.23	10.56	10.79	10.35	10.13	9.44	9.30	9.25	9.25	9.76	9.17
19	9.54	9.29	10.57	10.81	10.35	9.91	9.48	9.32	9.23	9.30	9.85	9.17
20	9.56	9.42	10.54	10.81	10.36	9.87	9.54	9.29	9.21	9.32	9.89	9.22
21	9.53	9.45	10.58	10.82	10.32	9.83	9.54	9.28	9.24	9.25	9.76	9.33
22	9.53	9.50	10.62	10.81	10.25	9.80	9.51	9.29	9.27	9.27	9.63	9.16
23	9.41	9.68	10.62	10.84	10.26	9.80	9.50	9.30	9.26	9.33	9.57	9.08
24	9.29	9.78	10.66	10.86	10.30	9.82	9.51	9.29	9.26	9.38	9.58	9.03
25	9.35	9.75	10.63	10.89	10.30	9.83	9.48	9.27	9.26	9.46	9.61	9.03
26	9.40	9.97	10.70	10.95	10.33	9.81	9.43	9.28	9.27	9.47	9.62	9.03
27	9.37	9.91	10.68	10.89	10.29	9.80	9.42	9.31	9.24	9.54	9.58	9.01
28	9.58	9.94	10.66	10.81	10.25	9.74	9.45	9.28	9.21	9.62	9.53	8.99
29	9.41	10.08	10.63	10.80	10.29	9.73	9.45	9.31	9.20	9.50	9.52	8.98
20	9.21		10.63	10.74	10.30	9.75	9.39	9.34	9.24	9.50	9.51	9.05
31	9.17		10.70		10.26		9.35	9.26		9.63		9.07

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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	19.09	Apr. 29	17.35	July 10	18.80	Sept. 29	19.18
Apr. 3	17.35	May 26	16.89	Aug. 18	18.72	Nov. 10	17.94

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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	4.94	May 26	4.37	Aug. 18	4.48	Nov. 10	3.62
Apr. 3	3.21	July 10	3.67	Sept. 29	4.21	Dec. 22	4.10
29	3.70						

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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	27.95	May 15	26.47	Aug. 7	26.92	Oct. 27	26.40
Apr. 1	25.99	June 25	26.5	Sept. 18	27.09	Dec. 11	26.65

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: 1935-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	29.66	May 15	28.27	Aug. 7	29.42	Oct. 27	29.77
Apr. 3	27.89	June 25	28.92	Sept. 18	29.71	Dec. 11	29.77

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 10 feet, cased to 65, screened 65-90. Land-surface datum is 17.60 feet above msl. Highest water level 7.05 above msl, Oct. 29, 1952; lowest 1.40 above msl, Aug. 24, 1952. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	3.16	2.60	2.37	2.22	1.91	1.71	1.51	1.48	1.56	2.48	6.89	4.97
	3.15	2.60	2.37	2.20	1.90	1.71	1.50	1.48	1.57	2.48	6.79	4.95
	3.14	2.59	2.37	2.20	1.89	1.71	1.50	1.46	1.58	2.48	6.72	4.90
	3.11	2.59	2.36	2.19	1.88	1.71	1.51	1.46	1.58	2.49	6.65	4.82
	3.10	2.58	2.35	2.18	1.87	1.71	1.54	1.46	1.58	2.54	6.59	4.80
	3.08	2.57	2.35	2.17	1.85	1.71	1.56	1.46	1.58	2.56	6.52	4.75
	3.05	2.56	2.34	2.16	1.84	1.71	1.60	1.46	1.58	2.60	6.44	4.71
	3.03	2.56	2.33	2.15	1.83	1.71	1.61	1.46	1.59	2.63	6.38	4.67
	3.01	2.55	2.32	2.14	1.82	1.70	1.63	1.46	1.73	2.65	6.31	4.64
	2.98	2.54	2.32	2.12	1.81	1.70	1.64	1.45	1.85	2.69	6.24	4.62
	2.96	2.53	2.31	2.11	1.80	1.70	1.65	1.45	1.93	2.74	6.17	4.56
	2.95	2.52	2.30	2.10	1.79	1.69	1.65	1.45	1.99	2.75	6.10	4.53
	2.94	2.49	2.30	2.10	1.78	1.68	1.65	1.45	2.05	2.78	6.03	4.50
	2.92	2.48	2.29	2.09	1.77	1.67	1.65	1.45	2.10	2.80	5.96	4.47
	2.90	2.48	2.29	2.07	1.76	1.66	1.65	1.45	2.18	2.83	5.88	4.42
	2.88	2.47	2.28	2.06	1.76	1.65	1.65	1.45	2.22	2.84	5.81	4.40
	2.86	2.45	2.28	2.05	1.75	1.65	1.65	1.45	2.27	2.90	5.75	4.36
	2.84	2.43	2.29	2.04	1.75	1.64	1.64	1.44	2.30	3.25	5.68	4.33
	2.82	2.42	2.30	2.04	1.74	1.63	1.62	1.43	2.34	3.50	5.63	4.30
	2.80	2.40	2.30	2.03	1.72	1.62	1.60	1.43	2.36	3.88	5.56	4.27
	2.78	2.40	2.29	2.02	1.72	1.61	1.60	1.43	2.38	4.20	5.50	4.23
	2.76	2.38	2.28	2.01	1.72	1.60	1.58	1.42	2.40	4.49	5.44	4.20
	2.75	2.38	2.27	2.00	1.72	1.59	1.56	1.41	2.42	4.88	5.38	4.16
	2.74	2.36	2.27	1.98	1.71	1.58	1.55	1.40	2.43	5.60	5.33	4.14
	2.72	2.36	2.25	1.97	1.71	1.57	1.52	1.41	2.44	6.33	5.27	4.10
	2.69	2.36	2.24	1.97	1.70	1.56	1.51	1.42	2.44	6.68	5.22	4.07
	2.67	2.36	2.23	1.96	1.70	1.55	1.50	1.44	2.45	6.90	5.17	4.05
	2.65	2.36	2.23	1.94	1.70	1.54	1.49	1.47	2.45	7.00	5.13	4.01
	2.64	2.37	2.22	1.94	1.70	1.52	1.49	1.50	2.47	7.05	5.05	4.00
	2.62		2.22	1.93	1.70	1.51	1.48	1.52	2.47	7.04	5.01	3.98
	2.61		2.22		....		1.48	1.54		6.98		3.95

Nassau County

2. G. G. Gerbing. Amelia City. Sec. 50, T. 2 N., R. 28 E. 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 27.2 above lsd, Aug. 7, 1951. Records available: 1939-40, 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	+31.3	Apr. 17	+30.9	July 15	+31.8	Oct. 28	+31.2
Mar. 6	+31.6	May 28	+30.5	Sept. 9	+31.8	Dec. 17	+30.8

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, 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	+31.1	Apr. 17	+31.7	July 15	+31.1	Oct. 28	+31.6
Mar. 6	+31.8	May 28	+31.1	Sept. 9	+32.2	Dec. 17	+30.3

12. J. W. Sheffield. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 2 N., R. 28 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 640 feet. Land-surface datum is 13.02 feet above msl. Highest water level 40.9 above lsd, Mar. 25, 1939; lowest 9.22 below lsd, Aug. 7, 1951. Records available: 1939, 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	3.28	Apr. 17	7.85	July 15	5.66	Oct. 28	4.60
Mar. 6	2.38	May 28	5.89	Sept. 9	4.23	Dec. 17	5.75

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 13.65 feet above msl. Highest water level 30.0 above lsd, Mar. 28, 1939; lowest 13.24 below lsd, Aug. 7, 1951. Records available: 1939-41, 1944-52.

22--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	7.78	Apr. 17	9.46	July 15	7.80	Oct. 28	7.54
Mar. 6	9.19	May 28	6.06	Sept. 9	7.05	Dec. 17	4.14

23. Florida Forest and Park Service. Near Fernandina. Drilled public-supply artesian well in Floridan aquifer, diameter 4 inches, depth 800 feet, cased to 557. Land-surface datum is about 7.82 feet above msl. Highest water level 43.1 above lsd, Mar. 27, 1939; lowest 17.8 above lsd, Aug. 7, 1951. Records available: 1939-42, 1944, 1946-52.

Jan. 10	+21.8	Apr. 17	+20.1	July 15	+22.7	Oct. 28	+22.8
Mar. 6	+19.8	May 28	+21.8	Sept. 9	+22.1	Dec. 17	+21.9

27. Judge Fishler and others. Atlantic Blvd. and North 18th St., Fernandina. Drilled unused artesian well in Floridan aquifer, diameter 3 inches. Land-surface datum is 20.45 feet above msl. Highest water level 29.5 above lsd, Mar. 28, 1939; lowest 9.54 below lsd, Aug. 7, 1951. Records available: 1939-41, 1944-52.

Jan. 10	6.82	Apr. 17	8.13	July 15	6.28	Oct. 28	5.57
Mar. 6	5.60	May 28	5.42	Sept. 9	5.01	Dec. 17	5.80

34. W. L. Hardee. Hardee Dock in Fernandina. Drilled unused artesian well in Floridan aquifer, diameter 2½ inches. Land-surface datum is 3.79 feet above msl. Highest water level 47.5 above lsd, June 19, 1939; lowest 17.71 below lsd, Sept. 21, 1940. Records available: 1939-41, 1944-52.

Jan. 10	7.44	Apr. 17	6.70	July 15	6.25	Oct. 28	5.91
Mar. 6	6.24	May 28	7.14	Sept. 9	5.15	Dec. 17	3.23

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 34.81 feet above msl. Highest water level 26.4 above lsd, Aug. 25, 1938; lowest 12.5 above lsd, Aug. 7, 1951. Records available: 1934, 1938, 1940, 1944-52. Jan. 10 +13.9; May 28, +13.7; July 15, +14.6; Sept. 9, +12.6; Oct. 28, +12.7; Dec. 17, +12.6.

50. C. J. McKendree. SW¼SE¼ 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, 1947; lowest 27.2 above lsd, Nov. 20, 1951. Records available: 1940-41, 1944-52.

Jan. 10	+27.2	Apr. 17	+29.2	July 15	+33.0	Oct. 28	+33.1
Mar. 6	+30.0	May 28	+34.0	Sept. 9	+29.3	Dec. 17	+33.1

51. Harold D. Blosser. Callahan. Near SW cor. NW¼ sec. 29, T. 2 N., R. 25 E. Drilled domestic artesian well in Floridan aquifer, diameter 2 inches, reported depth 580 feet. Land-surface datum is 18.8 feet above msl. Highest water level 42.5 above lsd, July 15, 1947; lowest 33.5 above lsd, June 22, 1951. Records available: 1940-42, 1944-52.

Jan. 10	+36.0	Apr. 17	+35.5	July 15	+34.8	Oct. 28	+34.7
Mar. 6	+35.8	May 28	+35.4	Sept. 9	+33.8	Dec. 17	+34.1

55. L. R. Church. At O'Neil. NW¼NW¼ sec. 27, T. 2 N., R. 28 E. 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 19.8 above lsd, Dec. 17, 1952. Records available: 1940, 1944-52. July 15, +21.8; Sept. 9, +21.4; Oct. 28, +20.6; Dec. 17, +19.8.

64. A. H. Crews. SW¼SE¼ 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. Measurements withheld for adjustment.

Okaloosa County

3. Okaloosa County. Fort Walton. NW¼SW¼ sec. 13, T. 2 S., R. 24 W. 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: 1946-52.

Jan. 29	+4.8	Apr. 20	+3.60	July 16	-13.05	Oct. 11	-4.22
Mar. 19	+6.0	June 12	-9.70	Aug. 22	-7.91	Nov. 20	-.62

23. U. S. Army. Eglin Auxiliary Field 2, near Valparaiso. Drilled public-supply artesian well in Floridan aquifer, diameter 10 inches, reported depth 652 feet, cased to 409. Land-surface datum is 154.00 feet above msl. Highest water level 92.3 below lsd, Apr. 14, 1948; lowest 101.1 below lsd, July 16, 1952. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	97.3	Apr. 22	97.5	July 16	101.1	Oct. 11	99.4
Mar. 18	98.3	June 4	97.3	Aug. 22	100.3	Nov. 20	99.3

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 113.9 below lsd, Oct. 14, 1952. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	111.4	Apr. 22	110.7	July 16	113.4	Oct. 14	113.9
Mar. 20	110.6	June 4	113.4	Aug. 25	112.3	Nov. 20	112.5

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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	29.2	Apr. 20	29.6	July 16	32.8	Oct. 11	33.7
Mar. 20	28.7	June 4	30.2	Aug. 22	32.8	Nov. 20	32.2

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 106.5 below lsd, Apr. 20, 1952. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	104.6	Apr. 20	106.5	July 16	105.1	Oct. 11	106.4
Mar. 20	104.4	June 4	102.6	Aug. 22	106.0	Nov. 20	106.1

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: 1948-52. Jan. 30, 50.7; Apr. 20, 50.2; June 4, 50.0; July 16, 51.1; Aug. 22, 50.9; Oct. 11, 52.6; Nov. 20, 51.5.

Okeechobee County

2. U. S. Geol. Survey. On Florida Highway 66, near Bassinger. 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 10 inches, depth 21 feet, cased to 18, gravel 16-21. Land-surface datum is 47.80 feet above msl. Highest water level 47.85 above msl, Oct. 2, 1951; lowest 39.51 above msl, June 17, 1949. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.43	43.75	44.58	44.35	43.32	43.85	43.95	44.04	44.37	46.14	45.90	45.01
2	44.40	43.75	44.55	44.28	43.28	43.85	44.24	44.00	44.32	45.91	45.81	44.98
3	44.38	44.28	44.51	44.22	43.25	43.80	44.25	44.06	44.26	45.75	45.75	44.96
4	44.35	44.33	44.46	44.15	43.21	43.68	44.25	44.05	44.19	45.63	45.69	44.93
5	44.33	44.42	44.40	44.09	43.17	43.60	44.20	44.00	44.15	45.58	45.63	44.90
6	44.32	44.42	44.35	44.03	43.13	43.50	44.15	44.25	44.45	45.95	45.62	44.85
7	44.28	44.39	44.30	43.95	43.10	43.43	44.12	45.17	44.42	46.35	45.53	44.82
8	44.25	44.33	44.25	43.90	43.07	43.36	44.54	45.13	45.30	46.28	45.50	44.78
9	44.23	44.28	44.20	43.85	43.03	43.30	44.55	45.05	45.35	46.08	45.50	44.75
10	44.20	44.23	44.15	43.80	43.00	43.25	44.48	44.97	45.38	45.91	45.48	44.74
11	44.17	44.20	44.12	43.75	42.98	43.17	44.38	44.90	45.23	45.95	45.44	44.67
12	44.15	44.13	44.07	43.71	42.95	43.09	44.58	44.93	45.18	45.74	45.59	44.65
13	44.13	44.09	44.04	43.68	42.92	43.05	44.55	44.82	45.11	45.69	45.41	44.63
14	44.10	44.03	44.01	43.65	42.87	42.98	44.62	44.73	45.07	46.53	45.38	44.62
15	44.07	44.00	44.50	43.60	42.84	42.92	44.62	45.00	45.00	46.18	45.33	44.57
16	44.05	43.95	44.59	43.55	42.80	42.85	44.53	44.93	44.93	46.32	45.30	44.55
17	44.04	43.91	44.58	43.52	42.77	42.80	44.47	44.85	44.85	46.02	45.26	44.53
18	44.00	43.86	44.54	43.48	42.74	42.75	44.60	44.77	44.76	47.55	45.28	44.48
19	43.98	43.82	44.50	43.45	42.70	42.68	44.53	45.16	44.70	47.56	45.34	44.46
20	43.95	43.77	44.45	43.42	42.67	42.63	44.42	45.07	44.66	47.80	45.80	44.45

2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	43.93	43.75	44.40	43.38	42.65	42.57	44.32	44.94	44.67	47.44	45.58	44.43
22	43.90	43.71	44.34	43.37	42.67	42.52	44.25	44.83	44.69	47.26	45.40	44.40
23	43.87	43.70	44.28	43.33	42.67	42.47	44.17	44.72	44.62	47.10	45.28	44.37
24	43.85	43.68	44.24	43.30	42.72	42.42	44.09	44.63	44.56	46.86	45.23	44.32
25	43.83	43.66	44.18	43.30	42.77	42.35	44.06	44.56	44.53	46.62	45.21	44.30
26	43.81	44.45	44.26	43.42	42.78	43.75	44.13	44.53	44.60	46.55	45.18	44.28
27	43.78	44.60	44.52	43.50	42.77	43.88	44.07	44.47	44.55	47.34	45.16	44.25
28	43.78	44.60	44.55	43.52	43.12	44.08	44.02	44.57	45.73	46.59	45.10	44.22
29	43.88	44.64	44.53	43.45	43.27	44.10	43.97	44.55	45.60	46.18	45.07	44.19
30	43.85		44.47	43.38	43.35	44.03	44.10	44.50	46.00	46.02	45.03	44.17
31	43.79		44.40		43.77		44.10	44.43		45.97		44.15

e Estimated.

3. U. S. Geol. Survey. On Florida Highway 15, near Fort Drum. 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. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.02	58.98	59.70	59.20	58.25	59.95	58.37	59.72	59.72	59.63	60.22	59.27
2	59.00	58.97	59.65	59.13	58.19	59.70	59.14	60.49	59.55	59.60	60.12	59.25
3	58.98	59.98	59.60	59.06	58.15	59.56	59.25	60.17	59.45	59.52	60.02	59.22
4	58.96	59.67	59.53	59.00	58.10	59.45	59.30	59.99	59.78	59.47	59.95	59.20
5	58.95	59.97	59.47	58.93	58.07	59.35	60.04	59.85	59.74	59.44	59.90	59.18
6	59.07	59.62	59.43	58.87	58.03	59.27	60.95	59.75	59.28	59.85	59.90	59.15
7	58.98	59.55	59.40	58.81	58.00	59.21	60.71	60.72	59.25	59.74	59.80	59.12
8	58.94	59.48	59.34	58.76	57.96	59.39	60.48	60.32	59.22	59.71	59.77	59.10
9	58.90	59.42	59.30	58.70	57.92	59.30	60.28	60.13	59.44	59.63	59.73	59.07
10	58.87	59.38	59.27	58.66	57.88	59.21	60.09	59.99	59.21	59.52	59.70	59.07
11	58.83	59.33	59.24	58.62	59.04	59.13	59.95	59.87	59.22	59.46	59.66	59.02
12	58.82	59.29	59.20	58.58	59.09	59.05	59.80	60.27	59.25	59.45	59.73	58.98
13	58.81	59.25	59.17	58.55	58.95	59.08	59.80	59.79	59.17	59.52	59.62	58.98
14	58.78	59.23	59.36	58.81	58.84	59.00	59.70	59.70	59.11	59.43	59.60	59.05
15	58.76	59.20	59.94	58.57	58.72	58.93	59.60	60.60	59.66	59.39	59.57	58.97
16	58.75	59.18	59.65	58.50	58.62	58.84	59.55	60.24	59.61	59.56	59.54	58.95
17	58.74	59.65	59.51	58.45	58.57	58.75	59.74	60.04	58.45	60.83	59.51	58.92
18	58.71	59.40	59.43	58.42	58.83	58.67	59.57	59.95	59.65	61.27	59.47	59.15
19	58.70	59.30	59.39	58.38	58.46	58.64	59.54	60.62	58.43	61.05	59.56	59.17
20	58.68	59.25	59.33	58.35	58.38	58.56	59.48	60.42	58.22	61.25	59.85	59.15
21	58.67	59.37	59.27	58.31	59.24	58.73	59.41	60.20	58.89	60.99	59.65	59.12
22	58.64	59.22	59.20	58.27	59.42	58.69	59.36	60.02	59.73	60.89	59.54	59.10
23	58.62	59.22	59.15	58.25	59.88	58.55	59.33	59.87	59.77	61.05	59.47	59.06
24	58.60	59.28	59.08	58.22	59.72	58.45	59.27	59.77	59.60	60.84	59.45	59.05
25	58.92	59.27	59.25	58.43	59.57	58.40	59.53	60.22	59.59	60.68	59.43	59.02
26	58.98	60.36	59.75	58.69	59.46	58.32	59.40	59.87	59.49	61.02	59.40	58.99
27	58.91	60.05	59.69	58.73	59.55	58.55	59.36	59.73	60.37	61.05	59.38	58.97
28	59.15	59.90	59.57	58.55	59.34	58.62	59.30	59.70	60.05	60.85	59.35	58.96
29	59.19	59.80	59.43	58.43	59.88	58.53	59.25	59.72	59.88	60.58	59.30	58.92
30	59.07		59.33	58.32	60.01	58.42	59.67	59.68	59.74	60.43	59.29	58.92
31	59.00		59.26		60.22		59.76	59.51		60.32		59.14

4. U. S. Geol. Survey. On Florida Highway 70. 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: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.00	26.80	27.90	27.61	27.33	28.42	27.41	27.89	28.10	28.72	28.52	27.66
2	26.98	26.78	27.83	27.55	27.25	29.50	28.20	27.83	28.07	28.45	28.44	27.64
3	26.96	27.88	27.77	27.48	27.20	28.73	28.65	29.47	27.87	28.21	28.38	27.62
4	26.95	27.68	27.70	27.42	27.15	28.43	29.14	29.84	27.81	28.23	28.35	27.59
5	26.92	27.90	27.64	27.36	27.08	28.23	29.40	29.77	27.77	29.72	28.25	27.56

4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	26.94	27.65	27.60	27.30	27.02	28.12	29.85	29.65	27.70	29.86	28.25	27.52
7	26.88	27.60	27.56	27.25	26.96	29.73	29.23	29.73	27.84	29.36	28.26	27.48
8	26.86	27.52	27.51	27.20	26.90	29.12	28.72	29.12	28.23	29.50	28.11	27.46
9	26.83	27.45	27.47	27.16	26.83	28.76	28.45	28.70	28.37	29.10	28.15	27.43
10	26.80	27.40	27.42	27.12	27.00	28.46	28.27	28.75	27.95	28.88	28.08	27.45
11	26.77	27.35	27.41	27.08	27.65	28.27	28.61	28.40	27.82	28.74	28.47	27.38
12	26.75	27.30	27.36	27.04	27.67	28.11	28.17	29.58	29.07	28.72	28.32	27.35
13	26.74	27.26	27.32	27.01	27.43	28.07	29.37	28.60	28.53	29.14	28.18	27.34
14	26.72	27.23	28.27	27.12	27.32	28.13	29.43	28.40	28.35	28.76	28.12	27.43
15	26.70	27.20	29.10	26.97	27.22	27.95	28.67	28.37	28.13	29.74	28.03	27.35
16	26.69	27.17	28.27	26.92	27.15	27.87	28.38	28.21	28.45	29.32	28.00	27.30
17	26.67	27.58	28.04	26.87	27.10	27.80	29.63	28.68	28.14	29.12	28.04	27.28
18	26.65	27.41	27.92	26.82	27.07	27.75	28.90	28.71	28.21	30.12	27.95	27.25
19	26.63	27.35	27.87	26.77	27.00	28.27	28.52	28.95	28.01	29.50	27.99	27.24
20	26.61	27.28	27.80	26.72	26.93	27.93	28.36	28.37	28.52	30.08	28.62	27.23
21	26.60	27.25	27.73	26.68	28.07	27.75	28.16	28.18	28.30	29.55	28.20	27.20
22	26.58	27.18	27.65	26.67	27.94	27.70	28.07	28.08	28.14	29.22	28.00	27.17
23	26.56	27.57	27.60	26.63	27.87	27.61	28.03	28.02	29.50	29.37	27.90	27.16
24	26.53	27.65	27.55	26.60	27.82	27.55	27.98	27.98	28.87	29.10	27.85	27.14
25	26.68	27.61	27.50	27.65	27.65	27.49	27.97	27.93	28.58	29.46	27.83	27.12
26	26.74	29.08	28.80	28.13	28.60	27.43	27.93	27.90	28.40	29.00	27.80	27.09
27	26.70	28.42	28.45	27.85	29.63	28.00	27.87	27.85	28.90	29.52	27.77	27.08
28	26.85	28.18	28.15	27.65	28.97	27.80	29.11	28.06	28.90	29.80	27.74	27.07
29	26.97	28.02		27.51	28.65	27.62	28.37	27.90	28.49	28.58	27.72	27.03
30	26.90		27.76	27.41	28.55	27.48	28.12	28.88	28.34	28.58	27.70	27.01
31	26.84		27.67		29.07		27.99	28.33		28.56		e28.98

e Estimated.

Orange County

47. Orange County. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 8 to 6 inches, depth 350 feet, cased to 328. Land-surface datum is 72.12 feet above msl. Highest water level 8.00 above lsd, Sept. 30, 1930; lowest 8.00 below lsd, May 10, 1933. Records available: 1930-33, 1943-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.24	....	....	....	4.78	5.74	6.27	6.83	6.94	....	....	7.05
2	4.29	....	....	....	4.85	5.75	6.34	6.74	6.94	....	....	7.05
3	4.36	....	....	....	4.91	5.78	6.41	6.62	6.95	6.71	....	7.09
4	4.41	....	....	2.92	4.95	5.84	6.44	6.60	6.98	....	....	7.10
5	4.46	....	....	3.10	4.98	5.88	6.48	6.60	6.96	....	....	7.08
6	4.50	....	....	3.34	5.05	5.93	6.50	6.62	6.77	....	....	7.13
7	4.59	....	....	3.50	5.13	5.97	6.50	6.62	6.69	....	....	7.15
8	4.61	....	....	3.65	5.19	6.03	6.53	6.65	6.65	....	....	7.17
9	4.67	....	....	3.78	5.24	6.08	6.54	6.70	6.63	....	....	7.18
10	4.72	....	....	3.91	5.31	6.11	6.55	6.73	6.61	....	....	7.18
11	4.86	....	....	4.04	5.35	6.16	6.52	6.76	6.64	....	....	7.24
12	4.90	....	....	4.14	5.39	6.25	6.49	6.85	6.72	....	....	7.28
13	4.90	....	....	4.16	5.41	6.19	6.44	6.92	6.77	....	6.78	7.26
14	4.90	....	....	4.05	5.46	6.15	6.40	6.95	6.81	....	6.83	7.25
15	4.93	....	....	4.14	5.52	6.15	6.39	6.93	6.85	....	6.86	7.27
16	4.96	5.40	....	4.25	5.62	6.16	6.41	6.93	6.88	....	6.90	7.33
17	5.00	2.10	....	4.35	5.65	6.19	6.45	6.92	6.95	....	6.92	7.33
18	5.05	....	....	4.43	5.65	6.20	6.45	6.92	7.03	....	6.91	7.33
19	5.10	....	....	4.48	5.70	6.25	6.45	6.98	7.12	....	6.85	7.34
20	5.11	....	....	4.53	5.75	6.27	6.45	6.99	7.13	....	6.80	7.31
21	5.16	....	....	4.57	5.75	6.30	6.50	7.00	7.11	....	6.82	7.30
22	5.21	....	....	4.62	5.77	6.33	6.59	7.02	7.10	....	6.88	7.32
23	5.30	....	....	4.67	5.72	6.33	6.65	6.92	7.13	....	6.93	7.38
24	....	....	....	4.71	5.74	6.32	6.70	6.72	7.03	....	6.94	7.43
25	....	....	....	4.73	5.73	6.18	6.75	6.71	6.90	....	6.93	7.44
26	....	....	....	4.66	5.72	6.14	6.80	6.73	6.85	....	6.93	7.45
27	....	....	....	4.56	5.65	6.14	6.83	6.75	....	....	6.95	7.45
28	....	....	....	4.60	5.65	6.18	6.81	6.80	....	....	6.98	7.46
29	....	....	....	4.64	5.64	6.20	6.78	6.84	....	....	7.00	7.47
30	....	....	....	4.70	5.66	6.22	6.80	6.87	....	....	7.02	7.45
31	....	....	....	....	5.70	....	6.83	6.92	....	....	....	7.43

82 WATER LEVELS AND ARTESIAN PRESSURES, 1952, SOUTHEASTERN STATES

47-B. U. S. Geol. Survey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 17 feet, cased to 17. Highest water level 4.36 above lsd, Oct. 18, 1948; lowest 5.84 below lsd, Dec. 31, 1952. Records available: 1948-52

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.11	3.04	2.59	....	2.12	3.18	4.01	4.71	5.17	4.88	5.05	5.47
2	2.14	3.05	2.59	....	2.18	3.20	4.05	4.72	5.19	4.90	5.07	5.48
3	2.17	3.04	2.60	e1.57	2.20	3.24	4.09	4.74	5.21	4.93	5.09	5.49
4	2.20	3.05	2.60	1.56	2.23	3.28	4.10	4.74	5.22	4.95	5.10	5.50
5	2.21	3.06	2.61	1.54	2.28	3.30	4.12	4.74	5.23	4.98	5.12	5.51
6	2.24	3.07	2.62	1.54	2.31	3.34	4.16	4.77	5.24	5.00	5.13	5.52
7	2.29	3.08	2.64	1.54	2.35	3.38	4.20	4.79	5.25	5.02	5.16	5.53
8	2.30	3.11	2.68	1.54	2.39	3.41	4.21	4.77	5.25	5.00	5.20	5.54
9	2.33	3.13	2.70	1.54	2.42	3.45	4.23	4.79	5.25	5.03	5.21	5.56
10	2.38	3.18	2.72	1.55	2.47	3.49	4.24	4.81	5.23	5.06	5.22	5.57
11	2.41	3.20	2.74	1.57	2.50	3.50	4.27	4.83	5.27	5.09	5.23	5.58
12	2.45	3.23	2.77	1.59	2.52	3.55	4.28	4.85	5.27	5.12	5.26	5.60
13	2.48	3.27	2.79	1.58	2.58	3.65	4.29	4.88	5.29	5.13	5.28	5.61
14	2.50	3.29	2.81	1.52	2.61	3.58	4.30	4.91	5.30	5.16	5.30	5.62
15	2.52	3.31	2.70	1.57	2.66	3.61	4.31	4.95	5.30	5.18	5.31	5.64
16	2.55	3.29	2.67	1.60	2.70	3.64	4.33	4.97	5.29	5.19	5.33	5.67
17	2.58	2.98	2.64	1.67	2.72	3.69	4.35	5.00	5.23	5.20	5.35	5.68
18	2.60	2.83	2.63	1.71	2.75	3.70	4.36	4.97	5.32	5.20	5.37	5.69
19	2.63	2.81	2.63	1.75	2.79	3.75	4.39	4.98	5.35	5.19	5.38	5.70
20	2.67	2.81	2.65	1.79	2.81	3.75	4.40	5.02	5.37	5.11	5.33	5.71
21	2.70	2.81	2.67	1.83	2.83	3.79	4.42	5.05	5.36	5.10	5.32	5.72
22	2.72	2.83	2.69	1.88	2.89	3.81	4.45	5.08	5.39	5.10	5.38	5.73
23	2.77	2.84	2.70	1.90	2.90	3.85	4.48	5.06	5.41	5.07	5.40	5.74
24	2.80	2.85	2.71	1.94	2.94	3.89	4.52	5.00	5.27	5.07	5.40	5.76
25	2.83	2.85	2.73	1.99	2.99	3.91	4.55	5.03	4.77	5.06	5.41	5.78
26	2.87	2.78	2.45	2.00	3.01	3.92	4.57	5.06	4.71	5.04	5.42	5.79
27	2.89	2.65	2.13	2.00	3.03	3.97	4.60	5.10	4.74	5.02	5.43	5.80
28	2.90	2.60	1.96	2.02	3.07	3.95	4.61	5.11	4.77	5.01	5.44	5.81
29	2.91	2.59	1.83	2.07	3.10	3.98	4.62	5.13	4.83	5.01	5.45	5.82
30	2.97		1.77	2.09	3.11	4.00	4.66	5.14	4.86	5.03	5.46	5.83
31	3.00		....		3.15		4.68	5.15		5.04		5.84

e Estimated.

47-C. U. S. Geol. Survey. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 22 S., R. 28 E. Drilled observation water-table well in sand, diameter 6 inches, depth 46 feet, cased to 46. Highest water level 29.58 below lsd, Nov. 11, 1948; lowest 39.25 below lsd, Sept. 4, 1950. Records available: 1948-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.60	35.77	36.10	36.42	36.09	35.92	36.26	36.62	36.98	37.28	37.55	37.83
2	35.60	35.77	36.11	36.42	36.08	35.92	36.27	36.63	36.99	37.29	37.56	37.84
3	35.60	35.76	36.13	36.41	36.06	35.93	36.28	36.63	37.00	37.26	37.58	37.85
4	35.60	35.75	36.14	36.41	36.05	35.94	36.30	36.65	37.00	37.27	37.59	37.85
5	35.60	35.76	36.15	36.41	36.04	35.95	36.31	36.65	37.01	37.28	37.60	36.86
6	35.61	35.78	36.16	36.42	36.03	35.95	36.32	36.67	37.03	37.29	37.60	37.87
7	35.61	35.80	36.18	36.42	36.02	35.96	36.35	36.68	37.04	37.30	37.61	37.89
8	35.61	35.83	36.20	36.43	36.01	35.97	36.36	36.69	37.05	37.30	37.62	37.90
9	35.62	35.85	36.20	36.43	36.00	35.98	36.37	36.70	37.06	37.31	37.63	37.90
10	35.62	35.86	36.21	36.44	35.98	35.99	36.39	36.70	37.07	37.32	37.65	37.90
11	35.63	35.86	36.22	36.44	35.97	36.00	36.40	36.70	37.08	37.33	37.65	37.90
12	35.64	35.87	36.23	36.44	35.96	36.00	36.42	36.71	37.10	37.34	37.65	37.92
13	35.65	35.88	36.24	36.43	35.96	36.01	36.44	36.73	37.10	37.35	37.68	37.93
14	35.65	35.89	36.25	36.42	35.96	36.02	36.45	36.75	37.10	37.36	37.68	37.94
15	35.65	35.90	36.25	36.41	35.96	36.03	36.46	36.75	37.10	37.37	37.69	37.95
16	35.65	35.90	36.28	36.41	35.95	36.04	36.47	36.77	37.12	37.38	37.70	37.97
17	35.65	35.92	36.29	36.41	35.95	36.05	36.48	36.78	37.14	37.40	37.70	37.98
18	35.65	35.94	36.30	36.41	35.95	36.06	36.49	36.80	37.15	37.40	37.71	37.98
19	35.66	35.97	36.30	36.39	35.94	36.08	36.50	36.84	37.15	37.41	37.72	38.00
20	35.66	35.98	36.32	36.37	35.93	36.10	36.50	36.85	37.16	37.43	37.73	38.00
21	35.66	35.99	36.33	36.35	35.93	36.11	36.52	36.85	37.19	37.44	37.74	38.01
22	35.67	36.01	36.34	36.32	35.93	36.12	36.53	36.86	37.20	37.45	37.75	38.02
23	35.68	36.02	36.35	36.30	35.93	36.15	36.54	36.88	37.21	37.45	37.75	38.03
24	35.70	36.02	36.35	36.27	35.93	36.15	36.54	36.89	37.22	37.47	37.76	38.04
25	35.71	36.04	36.35	36.23	35.92	36.16	36.55	36.90	37.24	37.48	37.78	38.05

47-C--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	35.72	36.05	36.36	36.19	35.92	36.17	36.56	36.91	37.25	37.49	37.70	38.05
27	35.73	36.05	36.37	36.15	35.92	36.19	36.57	36.92	37.25	37.50	37.80	38.05
28	35.73	36.08	36.38	36.14	35.92	36.20	36.58	36.94	37.25	37.50	37.80	38.06
29	35.73	36.10	36.39	36.12	35.92	36.22	36.59	36.95	37.26	37.51	37.81	38.07
30	35.74		36.40	36.10	35.92	36.24	36.60	36.95	37.27	37.53	37.82	38.08
31	35.76		36.41		35.92		36.61	36.96		37.54		38.09

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 32.45 above msl, Oct. 21, 1952; lowest 28.28 above msl, July 4, 1952. Records available: 1950-52.

Daily highest water level, above msl, from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 14	28.50	Nov. 3	31.09	Nov. 23	e30.86	Dec. 13	e31.26
15	28.50	4	31.33	24	e30.82	14	e31.24
16	30.30	5	31.25	25	e30.78	15	e31.23
17	31.40	6	31.23	26	e30.74	16	e31.22
18	32.22	7	31.15	27	e30.70	17	e31.20
19	32.13	8	31.15	28	e30.66	18	e31.18
20	31.79	9	31.13	29	30.63	19	e31.16
21	31.63	10	31.10	30	30.61	20	e31.14
22	31.55	11	31.07	Dec. 1	30.60	21	e31.13
23	31.45	12	31.06	2	30.61	22	e31.11
24	31.38	13	31.05	3	31.40	23	e31.09
25	31.29	14	31.15	4	31.35	24	e31.07
26	31.24	15	31.23	5	31.38	25	e31.05
27	31.21	16	31.30	6	31.38	26	e31.03
28	31.20	17	31.10	7	e31.37	27	e31.02
29	31.15	18	e31.06	8	e31.35	28	e31.00
30	31.18	19	e31.02	9	e31.33	29	e30.99
31	31.12	20	e30.98	10	e31.31	30	e30.98
Nov. 1	31.11	21	e30.94	11	e31.29	31	e31.24
2	31.10	22	e30.90	12	e31.27		

e Estimated.

Daily highest water level, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e31.15	30.68	30.57	29.45	30.05	29.17	28.61	30.79	31.52	32.05	31.30	31.23
2	31.12	30.96	30.53	29.49	30.00	29.07	28.56	30.69	31.42	32.25	31.25	31.22
3	31.11	31.44	30.47	29.37	29.87	29.00	28.53	30.64	31.33	31.98	31.30	31.20
4	31.09	31.40	30.43	29.31	29.80	28.99	29.15	30.52	31.30	31.80	31.18	31.27
5	e31.07	31.35	30.40	29.26	29.67	28.88	29.03	30.90	31.52	31.65	31.14	31.23
6	31.05	31.32	30.37	29.31	29.60	28.79	28.98	31.58	31.46	31.55	31.13	31.20
7	31.03	31.40	30.33	30.64	29.48	28.73	29.65	32.12	31.60	31.47	31.05	31.18
8	31.02	31.44	30.26	30.62	29.44	28.66	29.55	31.77	31.47	31.40	31.00	31.15
9	31.00	31.40	30.22	30.50	29.39	28.61	29.45	31.61	31.36	31.35	30.98	31.12
10	30.98	31.36	30.16	30.65	29.37	28.57	29.34	31.48	31.27	31.60	30.95	31.08
11	30.97	31.32	30.16	30.70	29.26	28.53	29.37	31.35	31.21	31.35	30.91	31.05
12	30.95	31.27	30.52	30.95	29.43	29.69	29.49	31.25	31.13	31.28	30.88	31.00
13	30.93	31.23	30.27	30.83	29.37	29.56	29.24	31.17	31.10	31.23	30.85	30.96
14	30.92	31.20	30.16	30.71	29.21	29.43	29.16	31.08	31.03	31.21	30.83	30.95
15	30.90	31.15	30.06	30.63	29.11	29.62	29.61	31.01	30.95	31.38	30.82	31.08
16	30.88	31.12	30.00	30.55	29.06	29.50	29.27	30.93	31.87	31.33	32.25	30.98
17	30.87	31.07	29.97	30.46	29.13	29.35	29.15	30.89	31.82	31.29	32.25	30.97
18	e30.85	31.03	29.89	30.40	29.02	29.28	29.10	30.93	32.25	31.39	31.95	31.17
19	30.85	30.98	29.87	30.70	28.99	29.59	29.90	30.85	32.07	31.27	31.70	31.08
20	30.85	30.93	30.05	31.03	28.89	29.39	29.67	30.78	31.86	31.24	31.68	31.08
21	30.83	30.89	30.29	30.87	28.86	29.28	29.84	30.76	31.72	31.34	31.60	31.05
22	30.83	30.85	30.03	30.80	28.83	29.18	29.59	30.99	31.60	31.45	31.56	31.20
23	30.80	30.80	29.90	30.73	28.79	29.10	29.60	30.79	31.50	32.25	31.52	31.15
24	30.80	30.76	29.82	30.61	29.07	29.27	29.65	30.69	31.44	32.03	31.48	31.13
25	30.79	30.72	29.78	30.60	28.97	29.02	30.47	30.66	31.35	31.81	31.45	31.10

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Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	30.94	30.67	29.70	30.47	28.86	28.91	30.66	31.12	31.28	31.79	31.42	31.10
27	30.80	30.63	29.66	30.41	29.95	28.83	30.60	31.14	31.22	31.60	31.38	31.27
28	30.75	30.63	29.63	30.33	29.71	28.75	30.53	31.73	31.43	31.52	31.34	31.25
29	30.74	.....	29.59	30.24	29.54	28.75	30.67	31.61	32.25	31.45	31.29	31.23
30	30.71		29.54	30.15	29.40	28.67	30.57	31.77	32.21	31.40	31.26	31.20
31	30.70		29.47		29.29		30.58	31.63		31.35		31.19

e Estimated.

Daily highest water level, above msl, from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.16	31.10	31.55	31.50	.....	28.90	28.50	30.91	31.14	31.71	31.48	31.06
2	31.14	31.33	31.49	31.41	.....	28.85	28.42	31.24	31.07	31.66	31.43	31.04
3	31.11	31.42	31.44	31.31	.....	28.80	28.34	31.40	31.02	31.73	31.38	31.00
4	31.08	31.32	31.37	31.23	.....	28.75	28.28	31.37	30.93	31.67	31.33	30.98
5	31.05	31.49	31.32	31.12	.....	28.69	29.60	31.28	30.85	31.59	31.28	30.95
6	31.06	31.40	31.30	31.05	.....	28.63	30.00	31.43	30.75	31.51	31.25	30.89
7	30.98	31.36	31.25	31.00	.....	28.60	29.95	31.27	30.65	31.48	31.19	30.86
8	30.95	31.33	31.20	30.91	.....	28.55	29.83	31.18	30.63	31.69	31.16	30.83
9	30.94	31.28	31.15	30.85	29.38	28.52	29.67	31.12	31.03	31.69	31.13	30.81
10	30.87	31.25	31.11	30.78	29.83	28.47	30.00	31.07	30.85	31.52	31.10	30.81
11	30.86	31.22	31.15	30.73	30.07	28.42	29.82	31.51	30.92	31.52	31.07	30.68
12	30.86	31.18	31.05	30.65	29.82	28.50	29.64	31.37	31.01	31.45	31.03	30.65
13	30.83	31.15	31.00	30.96	29.63	28.90	30.15	31.26	30.80	31.40	31.00	31.00
14	30.81	31.12	31.14	30.80	29.46	28.83	29.96	31.18	30.70	31.36	30.97	31.16
15	30.80	31.10	31.45	30.65	29.35	28.68	29.81	31.22	30.60	31.96	30.93	31.11
16	30.79	31.07	31.43	30.55	29.25	28.55	29.67	31.22	30.53	31.82	30.90	31.09
17	30.78	31.31	31.46	30.48	29.20	28.43	29.55	31.54	30.42	31.75	30.85	31.07
18	30.74	31.18	31.42	30.42	29.34	28.36	29.45	31.49	30.37	31.78	30.83	31.03
19	30.76	31.16	31.38	30.35	29.10	28.33	29.35	31.54	30.25	31.87	30.86	31.01
20	30.73	31.23	31.32	30.30	29.55	28.42	29.25	31.45	30.52	32.27	31.35	30.99
21	30.74	31.15	31.26	30.23	29.65	28.33	29.16	31.35	30.64	32.45	31.31	30.95
22	30.70	31.10	31.20	30.17	29.53	29.04	29.06	31.27	30.42	32.13	31.35	30.90
23	30.65	31.26	31.14	30.11	29.45	29.07	28.98	31.22	30.30	31.95	31.36	30.87
24	30.64	31.32	31.06	30.05	29.30	29.18	28.89	31.36	31.78	31.83	31.32	30.84
25	30.94	31.33	31.11	29.97	29.18	29.07	29.86	31.67	31.93	31.71	31.28	30.80
26	30.85	31.67	32.10	29.90	29.09	28.95	29.68	31.58	31.76	31.68	31.25	30.80
27	30.80	31.88	32.17	29.84	29.31	28.90	29.57	31.47	31.67	31.85	31.21	30.77
28	31.27	31.72	31.87	29.78	29.15	28.79	29.48	31.43	32.02	31.80	31.15	30.88
29	31.29	31.63	31.75	.....	29.07	28.68	29.98	31.35	32.19	31.68	31.12	30.78
30	31.15		31.65	.....	29.07	28.57	29.91	31.28	31.85	31.60	31.08	30.76
31	31.13		31.57		28.95		30.78	31.19		31.54		30.93

179. U. S. Geol. Survey. U. S. Highway 192, near Deer Park. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 27 S., R. 34 E. Drilled observation water-table well in sand of Pleistocene age, diameter 6 inches, depth 18 feet, cased to 18, gravel 13-18. Land-surface datum is 4 $\frac{1}{2}$ feet above msl. Highest water level 48.18 above msl, Sept. 29, 1949; lowest 43.24 above msl, June 8, 1949. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.84	46.22	46.48	46.60	45.35	44.51	43.83	44.25	46.67	46.77	46.81	46.07
2	45.82	46.35	46.37	46.87	45.30	44.45	43.81	44.80	46.62	47.12	46.78	46.05
3	45.79	46.62	46.27	46.75	45.26	44.45	43.88	45.03	46.57	46.91	46.75	46.02
4	45.76	46.57	46.18	46.67	45.24	44.42	43.85	45.10	46.48	46.85	46.73	46.00
5	45.73	46.73	46.10	46.59	45.17	44.38	43.83	45.08	46.40	46.84	46.70	45.96
6	45.71	46.63	46.05	46.48	45.13	44.35	44.53	45.03	46.32	46.79	46.68	45.93
7	45.68	46.58	46.00	46.40	45.08	44.31	45.14	44.98	46.26	46.75	46.63	45.88
8	45.65	46.54	45.92	46.33	45.04	44.28	45.28	44.90	46.51	46.78	46.58	45.86
9	45.62	46.45	45.87	46.28	45.00	44.25	45.41	44.92	46.55	46.75	46.55	45.83
10	45.60	46.34	45.82	46.22	44.97	44.22	45.37	44.82	46.55	46.71	46.52	45.82
11	45.57	46.25	45.79	46.18	44.95	44.19	45.32	46.20	46.53	46.75	46.50	45.78
12	45.55	46.17	45.73	46.13	44.91	44.15	45.25	46.37	46.77	46.71	46.46	45.75
13	45.53	46.10	45.70	46.10	44.87	44.17	45.24	46.16	46.63	46.70	46.42	45.75
14	45.50	46.05	45.67	46.05	44.83	44.14	45.19	45.97	46.62	46.67	46.40	45.87
15	45.48	46.01	47.10	46.00	44.79	44.11	45.12	46.02	46.51	46.65	46.35	45.78

179--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	45.46	45.96	46.78	45.94	44.75	44.07	45.01	45.97	46.37	46.62	46.33	45.74
17	45.43	46.17	46.69	45.90	44.71	44.05	44.97	45.88	46.25	47.37	46.30	45.72
18	45.41	46.03	46.65	45.85	44.67	44.00	44.92	47.50	46.19	47.45	46.27	45.68
19	45.39	45.96	46.63	45.80	44.63	43.97	44.87	47.12	46.13	47.05	46.25	45.66
20	45.36	45.91	46.60	45.77	44.72	43.95	44.80	46.92	46.64	47.75	46.68	45.65
21	45.34	45.97	46.56	45.71	44.62	43.92	44.73	46.79	46.87	48.15	46.70	45.63
22	45.32	45.87	46.48	45.66	44.86	43.89	44.67	46.72	46.75	47.42	46.63	45.61
23	45.28	45.85	46.38	45.62	44.90	43.92	44.61	46.71	46.67	47.14	46.55	45.59
24	45.26	45.85	46.30	45.58	44.92	43.85	44.56	46.87	46.61	47.07	46.44	45.58
25	46.25	45.85	46.26	45.55	44.85	44.12	44.53	47.01	46.59	46.98	46.35	45.55
26	46.42	46.70	47.20	45.70	44.77	44.11	44.47	46.85	46.55	47.20	46.28	45.53
27	46.25	46.66	46.93	45.55	44.70	44.06	44.44	46.73	47.35	47.25	46.24	45.52
28	46.16	46.60	46.80	45.48	44.63	44.05	44.40	46.81	47.38	46.96	46.18	45.50
29	46.52	46.56	46.72	45.43	44.60	43.93	44.36	46.75	46.99	46.90	46.13	45.48
30	46.45		46.67	45.38	44.58	43.85	44.33	46.71	46.85	46.84	46.10	45.46
31	46.33		46.62		44.55		44.28	46.87		46.83		45.54

180. U. S. Geol. Survey. U. S. Highway 192, near 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 74.32 above msl, Aug. 27, 1949; lowest 69.55 above msl, June 20, 1950. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	72.86	72.62	73.11	72.88	71.42	71.90	73.82	73.74	.....	.....	72.83	72.43
2	72.80	73.57	73.00	72.74	71.35	71.75	73.82	73.42	.....	72.63	72.75	72.40
3	72.75	73.78	72.92	72.58	71.30	71.63	73.59	73.80	.....	73.31	72.67	72.35
4	72.70	73.26	72.82	72.47	71.27	71.55	73.45	73.65	.....	72.95	72.60	72.30
5	72.65	73.80	72.68	72.35	71.20	71.45	73.81	73.40	.....	72.75	72.62	72.27
6	72.90	73.42	72.77	72.25	71.15	71.38	73.82	73.37	.....	73.40	72.49	72.21
7	72.55	73.30	72.59	72.17	71.12	71.32	73.81	73.15	.....	73.30	72.40	72.16
8	72.52	.....	72.48	72.10	71.09	71.27	73.53	72.90	.....	73.06	72.35	72.12
9	72.51	.....	72.43	72.04	71.05	71.20	73.29	73.30	.....	72.83	72.62	72.07
10	72.50	.....	72.37	72.00	71.00	71.14	73.82	72.80	.....	72.74	72.28	72.16
11	72.50	.....	72.50	71.99	71.40	71.10	73.80	72.70	.....	72.68	72.25	72.02
12	72.50	.....	72.35	71.93	71.46	71.82	73.37	72.48	.....	72.65	72.25	71.96
13	72.45	.....	72.30	72.03	71.33	72.32	73.33	72.37	.....	72.65	72.18	72.30
14	72.40	.....	72.25	72.07	71.20	72.17	72.95	72.27	.....	73.83	72.15	72.77
15	72.38	.....	73.83	71.81	71.10	72.02	72.70	72.70	.....	73.75	72.12	72.60
16	72.35	.....	73.48	71.75	71.00	71.87	72.52	73.82	.....	73.45	72.09	72.47
17	72.32	.....	73.25	71.70	71.00	71.75	73.80	e73.70	.....	73.82	72.03	72.38
18	72.30	.....	73.08	71.65	71.00	71.65	73.40	e73.60	.....	73.68	72.00	72.30
19	72.27	.....	73.15	71.60	70.95	71.87	73.05	e73.82	.....	74.11	72.01	72.25
20	72.22	.....	72.97	71.57	71.18	73.80	72.71	73.85	.....	74.16	73.82	72.22
21	72.15	.....	72.85	71.52	71.26	73.81	72.48	73.60	.....	73.80	73.39	72.17
22	e72.12	.....	72.73	71.47	71.37	73.72	72.36	73.42	.....	73.64	73.14	72.10
23	e72.10	.....	72.63	71.43	71.90	73.42	72.26	73.10	.....	73.54	72.93	72.05
24	e72.08	.....	72.52	71.38	71.95	73.22	72.17	72.85	.....	73.38	72.84	72.01
25	e72.07	.....	72.40	71.36	71.81	72.87	72.13	72.78	.....	73.25	72.77	71.97
26	e72.88	.....	73.83	71.98	71.73	73.22	72.38	.....	.....	73.94	72.72	71.95
27	e72.70	.....	73.82	72.00	71.88	73.82	72.22	.....	.....	73.62	72.66	71.93
28	73.54	73.54	73.67	71.78	71.90	73.81	72.43	72.70	.....	73.42	72.57	71.92
29	73.12	73.29	73.47	71.65	71.79	73.62	72.22	72.57	.....	73.11	72.54	71.89
30	72.82	.....	73.27	71.53	72.12	73.39	72.38	72.48	.....	73.00	72.49	71.88
31	72.68	.....	73.00	.....	72.03	.....	72.35	.....	.....	72.90	.....	72.23

e Estimated.

181. U. S. Geol. Survey. On U. S. Highway 192. 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 79.00 above msl, Sept. 29, 1949; lowest 73.50 above msl, June 9, 1949. Records available: 1948-52.

181--Continued.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.72	76.02	76.52	76.55	75.57	75.42	75.26	76.25	75.72	73.55	76.71	76.05
2	76.68	76.05	76.45	76.48	75.50	75.34	75.60	76.27	75.66	73.45	76.67	76.02
3	76.65	76.28	76.39	76.40	75.45	75.25	75.63	76.24	75.60	73.36	76.64	76.00
4	76.62	76.28	76.32	76.35	75.41	75.17	75.55	76.17	75.55	73.30	76.60	75.97
5	76.59	76.42	76.26	76.28	75.37	75.10	76.15	76.07	76.00	73.35	76.56	75.95
6	76.57	76.40	76.22	76.22	75.34	75.02	.....	75.98	75.85	73.23	76.53	75.92
7	76.53	76.35	76.17	76.17	75.30	74.97	.....	75.90	75.79	73.21	76.48	75.88
8	76.49	76.28	76.11	76.12	75.27	74.93	.....	75.88	75.75	73.18	76.45	75.86
9	76.46	76.22	76.05	76.07	75.25	74.90	.....	75.80	75.95	73.13	76.42	75.84
10	76.43	76.16	76.01	76.02	75.22	74.85	.....	75.75	75.92	76.09	76.39	75.82
11	76.39	76.10	76.00	75.98	75.36	74.81	76.66	75.70	75.86	76.05	76.36	75.78
12	76.37	76.05	75.95	75.93	75.25	75.00	76.52	75.62	75.90	76.02	76.33	75.75
13	76.35	76.00	75.92	75.90	75.18	75.05	76.45	75.57	75.80	75.99	76.28	75.74
14	76.32	75.97	75.90	75.85	75.15	75.00	76.38	75.52	75.73	75.96	76.25	75.88
15	76.29	75.95	76.80	75.81	75.12	74.93	76.30	75.50	75.65	76.71	76.22	75.83
16	76.26	75.93	76.66	75.77	75.08	74.85	76.22	75.46	75.60	76.65	76.19	75.78
17	76.23	76.04	76.57	75.73	75.07	74.78	76.33	75.47	75.70	76.00	76.16	75.73
18	76.21	75.96	76.50	75.70	75.10	74.75	76.23	76.35	75.57	76.83	76.13	75.70
19	76.19	75.92	76.44	75.66	75.03	74.73	76.14	76.35	75.52	76.75	76.12	75.68
20	76.16	75.90	76.37	75.63	75.02	74.70	76.08	76.27	75.50	77.40	76.62	75.67
21	76.14	75.95	76.30	75.60	75.00	74.76	76.02	76.16	75.91	77.76	76.58	75.65
22	76.10	75.90	76.25	75.56	74.97	74.74	75.95	76.07	76.49	77.40	76.51	75.64
23	76.07	75.88	76.18	75.50	75.14	74.68	75.90	75.98	76.59	77.26	76.44	75.61
24	76.05	75.94	76.13	75.48	75.08	74.66	75.84	76.13	76.60	77.15	76.37	75.59
25	76.04	75.98	76.18	75.45	75.21	75.27	75.79	76.17	76.52	77.03	76.32	75.57
26	76.06	76.68	76.95	75.95	75.15	75.25	75.79	76.15	76.48	77.00	76.26	75.56
27	76.02	76.74	77.02	75.86	75.12	75.27	75.73	76.07	76.55	77.18	76.20	75.54
28	76.18	76.67	76.90	75.80	75.62	75.19	75.70	75.99	76.50	76.95	76.15	75.53
29	76.25	76.60	76.80	75.72	75.61	75.36	75.65	75.90	76.74	76.85	76.12	75.51
30	76.13		76.70	75.65	75.58	75.30	75.63	75.85	76.65	76.80	76.07	75.49
31	76.07		76.62		75.50		76.23	75.78		76.76		75.49

182. U. S. Geol. Survey. On Florida Highway 60, near Kissimmee River. 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 lsd, Oct. 18, 1952; lowest 55.94 above lsd, Aug. 13, 1950. Records available: 1949-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.04	58.72	60.00	59.66	58.11	59.08	57.37	e60.30	.....	.....	60.23	59.52
2	59.00	58.74	59.90	59.56	58.08	58.95	57.47	e61.15	.....	.....	60.13	59.48
3	58.95	59.21	59.81	59.47	58.06	58.71	57.54	60.70	.....	.....	60.03	59.45
4	58.92	59.22	59.73	59.37	58.03	58.60	58.33	60.50	.....	.....	59.95	59.41
5	58.89	59.44	59.64	59.29	58.00	58.51	58.95	61.37	.....	.....	59.88	59.37
6	58.85	59.41	59.55	59.20	57.95	58.43	59.45	61.06	.....	.....	59.85	59.32
7	58.81	59.34	59.49	59.12	57.92	58.37	59.98	60.77	.....	.....	59.77	e59.28
8	58.78	59.25	59.41	59.05	57.89	58.32	59.81	60.58	.....	60.96	59.73	e59.25
9	58.75	59.18	59.35	58.99	57.86	58.25	59.56	60.84	.....	61.08	59.71	e59.22
10	58.71	59.10	59.29	58.94	57.83	58.20	60.18	60.35	.....	60.69	59.68	e59.18
11	58.68	59.03	59.24	58.88	57.83	58.13	60.20	60.22	.....	60.58	59.67	e59.15
12	58.65	58.96	59.20	58.83	57.81	58.07	59.88	60.40	.....	60.48	59.72	59.13
13	58.63	58.90	59.15	58.80	57.79	58.05	60.18	60.00	.....	60.36	59.62	59.10
14	58.61	58.85	59.13	58.75	57.76	58.01	60.23	59.86	.....	60.29	59.58	59.67
15	58.59	58.80	60.17	58.69	57.73	57.95	60.00	59.78	.....	61.57	59.54	59.58
16	58.57	58.77	60.07	58.64	57.71	57.90	59.80	59.74	.....	61.42	59.50	59.48
17	58.55	59.00	59.90	58.58	57.90	57.85	59.75	61.42	.....	61.33	59.47	59.43
18	58.53	59.01	59.75	58.54	58.50	57.80	59.95	61.46	.....	61.73	59.43	59.34
19	58.51	58.96	59.67	58.50	58.53	57.75	59.65	61.22	.....	61.45	59.42	59.28
20	58.50	58.89	59.60	58.47	58.62	57.72	59.49	61.43	.....	61.67	60.48	59.25
21	58.48	58.84	59.53	58.43	58.63	57.67	59.35	61.09	.....	61.47	60.55	59.20
22	58.46	58.78	59.45	58.40	58.57	57.63	60.42	60.80	.....	61.31	60.25	59.15
23	58.44	58.74	59.36	58.36	58.52	57.58	60.30	60.53	.....	61.20	60.08	59.10
24	58.42	58.73	59.28	58.30	58.49	57.55	60.10	60.40	.....	60.97	59.97	59.08
25	58.40	58.75	59.23	58.27	58.44	57.51	59.92	61.57	.....	60.75	59.87	59.06

182--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	58.38	60.22	60.15	58.25	58.38	57.48	59.83	61.40	.....	61.15	59.80	58.03
27	58.35	60.39	60.40	58.24	58.60	57.47	60.24	61.19	.....	61.36	59.74	58.02
28	58.42	60.24	60.22	58.20	58.62	57.45	60.00	61.00	.....	61.06	59.67	58.00
29	58.77	60.12	60.10	58.17	58.58	57.41	59.87	.....	.....	60.70	59.62	58.97
30	58.82		59.92	58.13	58.93	57.38	60.54	.....	.....	60.48	59.57	58.95
31	58.76		59.77		59.15		60.35	.....	.....	60.34		58.95

e Estimated.

183. U. S. Geol. Survey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 31 S., R. 33 E. Drilled observation water-table well in sand 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 73.36 above lsd, Aug. 27, 1949; lowest 68.47 above lsd, May 20, 1950. Records available: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.10	70.83	71.95	71.72	70.28	69.67	69.11	69.80	70.45	70.60	72.12	71.23
2	71.06	70.79	71.85	71.58	70.23	69.65	69.09	70.10	70.38	70.57	72.03	71.20
3	71.02	71.38	71.74	71.47	70.20	69.62	69.07	70.24	70.31	70.57	71.93	71.18
4	71.06	71.36	71.64	71.37	70.18	69.60	69.05	70.25	70.23	70.55	71.85	71.15
5	70.96	71.61	71.52	71.28	70.15	69.58	69.04	70.23	70.15	70.50	71.76	71.14
6	70.99	71.53	71.47	71.20	70.12	69.56	69.03	70.20	70.09	70.47	71.69	71.10
7	70.95	71.45	71.40	71.13	70.08	69.53	70.05	70.42	70.03	70.45	71.62	71.07
8	70.90	71.38	71.33	71.07	70.05	69.51	70.28	70.43	69.99	70.70	71.57	71.05
9	70.87	71.32	71.29	71.01	70.00	69.49	70.30	70.36	69.94	70.71	71.55	71.02
10	70.84	71.23	71.23	70.96	70.02	69.46	70.27	70.35	69.90	70.70	71.52	71.08
11	70.80	71.17	71.22	70.92	70.07	69.45	70.26	70.31	69.87	70.66	71.50	71.03
12	70.78	71.10	71.17	70.87	70.03	69.43	70.25	70.25	69.95	70.61	71.54	70.96
13	70.75	71.03	71.13	71.06	69.94	69.41	70.22	70.15	69.98	70.57	71.47	70.94
14	70.73	70.98	72.06	70.90	69.92	69.40	70.18	70.07	69.95	70.53	71.44	71.57
15	70.71	70.93	72.98	70.80	69.89	69.38	70.11	70.02	69.90	70.52	71.40	71.50
16	70.70	70.89	72.30	70.73	69.87	69.37	70.05	70.10	69.85	70.56	71.37	71.40
17	70.68	71.37	72.07	70.68	69.90	69.35	70.00	70.16	69.79	72.25	71.33	71.30
18	70.65	71.30	71.90	70.65	70.02	69.34	70.04	70.17	69.75	72.75	71.30	71.22
19	70.64	71.23	71.87	70.60	70.03	69.33	70.03	70.17	69.70	72.65	71.30	71.17
20	70.62	71.17	71.76	70.57	70.00	69.31	70.00	70.19	69.67	73.20	72.55	71.12
21	70.61	71.12	71.63	70.53	69.95	69.28	69.95	70.17	69.70	73.05	72.28	71.07
22	70.59	70.90	71.52	70.48	69.90	69.28	69.90	70.12	69.75	72.90	72.02	71.01
23	70.57	71.09	71.44	70.45	69.87	69.26	69.83	70.05	69.77	73.00	71.83	70.96
24	70.54	71.18	71.35	70.40	69.84	69.24	69.78	70.00	69.77	72.69	71.72	70.93
25	70.54	71.18	71.32	70.38	69.81	69.22	69.73	70.76	69.74	72.82	71.62	70.90
26	70.55	72.80	73.03	70.74	69.78	69.20	69.68	70.88	69.70	72.70	71.54	70.88
27	70.53	72.40	72.87	70.75	69.75	69.18	69.65	70.82	69.67	73.13	71.47	70.87
28	70.52	72.23	72.58	70.55	69.73	69.16	69.62	70.73	70.63	72.84	71.40	70.85
29	71.00	72.11	72.25	70.42	69.70	69.15	69.59	70.64	70.64	72.54	71.33	70.83
30	70.95		72.04	70.33	69.69	69.13	69.57	70.57	70.63	72.33	71.28	70.82
31	70.90		71.84		69.68		69.55	70.52		72.20		70.82

e Estimated.

Palm Beach County

88. U. S. Geol. Survey. South F St. 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 lsd, Oct. 5, 1948; lowest 4.35 above lsd, Aug. 16, 1952. Records available: 1944-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.16	5.35	5.50	6.68	5.43	4.88	4.44	4.44	5.24	7.10	8.81	7.50
2	6.14	5.34	5.50	6.58	5.40	4.88	4.43	4.42	5.19	7.07	8.81	7.46
3	6.11	5.58	5.50	6.50	5.37	4.86	4.70	4.63	5.15	7.03	8.78	7.42
4	6.08	5.48	5.49	6.43	5.36	4.85	4.63	4.53	5.10	7.30	8.73	7.39
5	6.05	5.46	5.47	6.38	5.33	4.83	4.85	4.47	5.05	7.50	8.68	7.35
6	6.04	5.43	5.45	6.33	5.30	4.80	4.83	4.44	5.02	8.00	8.62	7.31
7	6.00	5.38	5.42	6.27	5.27	4.78	4.91	4.42	5.02	8.17	8.55	7.28
8	5.98	5.36	5.38	6.20	5.25	4.77	4.93	4.40	5.33	8.07	8.48	7.25
9	5.95	5.34	5.35	6.15	5.22	4.75	4.94	4.39	.....	8.08	8.42	7.20
10	5.92	5.33	5.31	6.13	5.20	4.73	4.94	4.38	.....	8.10	8.36	7.18

88--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	5.90	5.31	5.27	6.08	5.18	4.72	4.94	4.50	7.24	8.05	8.31	7.14
12	5.87	5.30	5.25	6.02	5.28	4.70	4.94	4.45	7.07	8.02	8.25	7.10
13	5.85	5.28	5.22	5.98	5.22	4.68	4.95	4.42	7.67	8.00	8.20	7.06
14	5.82	5.26	5.18	5.93	5.17	4.67	4.95	4.39	7.56	7.95	8.15	7.03
15	5.79	5.25	5.16	5.88	5.13	4.66	4.95	4.37	7.67	7.93	8.10	6.99
16	5.75	5.23	5.14	5.85	5.12	4.65	4.95	4.35	7.67	7.88	8.03	6.95
17	5.72	5.27	5.12	5.80	5.10	4.64	4.92	5.20	7.59	7.85	7.98	6.93
18	5.70	5.23	5.10	5.76	5.07	4.64	4.92	4.79	7.55	7.82	7.95	6.90
19	5.66	5.22	5.08	5.74	5.00	4.63	4.91	5.11	7.57	7.80	7.94	6.87
20	5.63	5.20	5.07	5.68	5.02	4.62	4.87	5.01	7.47	8.05	7.90	6.83
21	5.60	5.17	5.06	5.65	5.00	4.60	4.84	4.97	7.43	8.16	7.85	6.80
22	5.57	5.16	5.05	5.63	4.98	4.60	4.80	4.95	7.47	8.15	7.82	6.77
23	5.54	5.15	5.04	5.58	4.97	4.60	4.75	4.95	7.35	8.52	7.79	6.75
24	5.50	5.14	5.03	5.55	4.95	4.58	4.73	4.94	7.37	8.45	7.75	6.72
25	5.55	5.12	5.02	5.52	4.93	4.57	4.70	5.49	7.24	8.55	7.72	6.68
26	5.48	5.75	5.02	5.50	4.92	4.55	4.65	5.67	7.17	8.60	7.68	6.65
27	5.44	5.57	5.03	5.52	4.90	4.53	4.60	5.36	7.15	8.73	7.65	6.61
28	5.40	5.52	....	5.52	4.87	4.52	4.56	5.35	7.18	8.73	7.61	6.58
29	5.52	5.51	....	5.48	4.86	4.50	4.52	5.34	7.16	8.77	7.57	6.55
30	5.40	....	7.12	5.45	4.85	4.45	4.50	5.32	7.14	8.79	7.54	6.52
31	5.38	....	6.83	....	4.85	....	4.46	5.28	....	8.80	....	6.50

99. U. S. Geol. Survey. Garden Ave. and Bradley Sts., 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: 1948-52.

Daily highest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.15	6.40	6.60	6.38	6.08	6.00	5.63	5.97	6.50	8.21	9.81	8.37
2	7.10	6.40	6.61	6.35	6.04	6.00	5.62	5.96	6.48	8.18	9.75	8.32
3	7.07	6.62	6.60	6.33	6.02	5.99	5.70	6.05	6.44	8.12	9.68	8.29
4	7.04	6.62	6.58	6.30	6.00	5.96	6.00	6.11	6.40	8.09	9.60	8.25
5	7.02	6.61	6.57	6.27	5.97	5.95	6.20	6.12	6.36	8.46	9.54	8.21
6	7.00	6.60	6.55	6.25	5.93	5.93	6.27	6.08	6.50	8.97	9.47	8.17
7	6.97	6.57	6.54	6.23	5.92	5.93	6.32	6.01	6.51	9.52	9.40	8.13
8	6.93	6.55	6.51	6.20	5.90	5.92	6.33	5.96	7.44	9.57	9.34	8.09
9	6.90	6.52	6.48	6.16	5.90	5.90	6.34	5.94	7.96	9.58	9.30	8.05
10	6.87	6.48	6.45	6.15	5.89	5.86	6.33	5.96	7.96	9.58	9.24	8.02
11	6.85	6.45	6.43	6.12	5.97	5.84	6.32	5.98	8.06	9.57	9.20	7.98
12	6.82	6.42	6.41	6.11	6.01	5.82	6.30	5.95	8.10	9.58	9.16	7.95
13	6.80	6.40	6.39	6.10	6.00	5.80	6.40	5.92	8.10	9.54	9.12	7.91
14	6.76	6.38	6.37	6.09	5.97	5.77	6.40	5.89	8.12	9.50	9.07	7.88
15	6.75	6.37	6.36	6.08	5.94	5.76	6.40	5.88	8.14	9.47	9.03	7.85
16	6.70	6.36	6.35	6.06	5.91	5.75	6.39	5.97	8.14	9.42	8.99	7.81
17	6.69	6.36	6.31	6.05	5.88	5.73	6.40	6.02	8.10	9.36	8.94	7.78
18	6.66	6.35	6.28	6.03	5.87	5.72	6.37	6.20	8.10	9.32	8.90	7.75
19	6.64	6.32	6.26	6.01	5.86	5.71	6.34	6.43	8.08	9.32	8.89	7.71
20	6.61	6.30	6.23	6.00	5.85	5.70	6.34	6.56	8.06	9.35	8.85	7.70
21	6.59	6.28	6.21	5.98	5.84	5.70	6.29	6.61	8.02	9.52	8.80	7.67
22	6.57	6.27	6.20	5.96	5.83	5.69	6.26	6.62	7.96	9.61	8.77	7.64
23	6.55	6.26	6.18	5.95	5.81	5.67	6.21	6.61	7.91	9.80	8.72	7.60
24	6.53	6.25	6.17	5.93	5.80	5.66	6.19	6.60	7.86	9.85	8.68	7.57
25	6.50	6.23	6.16	5.97	5.79	5.65	6.15	6.64	7.81	9.90	8.63	7.55
26	6.48	6.47	6.15	6.10	5.78	5.63	6.11	6.65	7.79	9.92	8.60	7.50
27	6.46	6.55	6.15	6.15	5.77	5.73	6.08	6.63	7.75	9.99	8.53	7.48
28	6.45	6.58	6.35	6.17	5.76	5.75	6.05	6.60	8.35	10.00	8.49	7.45
29	6.50	6.60	6.40	6.13	5.79	5.70	6.03	6.60	8.30	9.94	8.45	7.42
30	6.44	....	6.40	6.10	5.85	5.66	6.02	6.57	8.25	9.92	8.41	7.39
31	6.42	....	6.39	....	5.95	....	5.99	6.55	....	9.87	....	7.37

Pasco County

13. C. C. Cone. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 25 S., R. 19 E. Drilled unused water-table well in Floridan aquifer, diameter 6 inches, depth 43 feet, cased to 43. Land-surface datum is 80.5 feet above msl. Highest water level 4.6 below lsd, Aug. 1945; lowest 10.5 below lsd, June 1945. Records available: 1934, 1936-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.06	5.79	7.15	7.74	6.95	7.80	6.62	6.11	6.11	6.93
2	6.12	5.84	7.20	7.82	6.95	7.23	6.70	6.20	6.18	6.93
3	6.18	5.93	7.25	7.90	7.04	7.14	6.79	6.30	6.22	6.98
4	6.13	6.01	7.30	7.99	7.10	7.19	6.83	6.35	6.28	7.00
5	6.30	6.04	7.33	8.00	7.10	7.18	6.70	6.40	6.30	7.00
6	6.32	6.13	7.39	7.90	7.18	7.12	6.80	6.45	6.33	7.03
7	6.33	6.19	7.42	7.92	7.20	7.12	6.85	6.39	6.37	7.05
8	6.42	6.23	7.46	7.77	7.20	7.05	6.91	6.24	6.43	7.10
9	6.50	6.30	7.51	7.80	7.18	6.98	6.99	6.11	6.48	7.10
10	6.54	6.35	7.55	7.83	7.20	6.91	7.05	6.21	6.48	7.10
11	6.58	6.39	7.62	7.91	7.20	6.99	7.12	6.30	6.48	7.18
12	6.62	6.43	7.70	8.00	7.30	7.05	7.15	6.34	6.50	7.21
13	6.64	6.40	7.74	8.01	7.38	7.13	7.15	6.34	6.53	7.19
14	6.68	6.33	7.80	7.97	7.35	7.20	7.21	6.45	6.58	7.15
15	6.43	6.45	7.83	8.05	7.42	7.15	7.23	6.47	6.60	7.19
16	6.37	6.55	7.88	8.10	7.51	7.03	7.31	6.49	6.65	7.23
17	6.45	6.60	7.80	8.10	7.54	7.05	7.38	6.48	6.68	7.28
18	6.52	6.65	7.50	8.15	7.66	7.12	7.41	6.34	6.70	7.28
19	6.57	6.70	7.53	8.21	7.74	7.00	7.47	6.23	6.71	7.28
20	6.61	6.63	6.75	7.60	8.27	7.79	6.78	7.55	5.59	6.55	7.28
21	6.54	6.70	6.79	7.63	8.27	7.80	6.74	7.55	5.34	6.51	7.30
22	6.61	6.75	6.83	7.72	8.22	7.75	6.60	7.44	5.35	6.60	7.30
23	6.60	6.80	6.87	7.80	7.61	7.84	6.68	7.09	5.45	6.69	7.35
24	6.45	6.83	6.90	7.85	7.49	7.89	6.68	6.85	5.50	6.72	7.37
25	6.36	6.45	6.93	7.90	7.51	7.96	6.65	5.98	5.65	6.76	7.39
26	6.06	5.45	6.84	7.93	7.59	7.96	6.49	5.93	5.80	6.78	7.40
27	5.90	5.28	6.84	7.98	7.55	7.90	6.58	6.00	5.86	6.81	7.41
28	5.98	5.40	6.94	8.01	7.20	7.95	6.63	6.03	5.90	6.85	7.38
29	6.01	5.53	7.03	7.83	7.05	7.99	6.50	5.94	6.00	6.88	7.39
30	5.62	7.09	7.72	6.90	7.90	6.55	6.04	6.08	6.90	7.40
31	5.73	....	7.68	....	7.90	6.53	....	6.08	....	7.24

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: 1936-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.24	66.35	67.00	65.61	65.53	66.84	67.37	67.97	68.22	68.15	67.70	68.26
2	65.27	66.29	66.97	65.50	65.58	66.86	67.38	67.98	68.22	68.16	67.78	68.27
3	65.30	66.33	66.90	65.42	65.63	66.89	67.39	68.01	68.21	68.19	67.64	68.32
4	65.33	66.41	66.87	65.31	65.68	66.91	67.40	68.04	68.21	68.20	67.62	68.35
5	65.34	66.48	66.85	65.27	65.72	66.94	67.41	68.07	68.20	68.19	67.60	68.36
6	65.37	66.54	66.81	65.26	65.76	66.98	67.42	68.09	68.18	68.19	67.59	68.41
7	65.46	66.56	66.75	65.19	65.81	67.00	67.42	68.10	68.16	68.19	67.61	68.43
8	65.47	66.62	66.72	65.14	65.85	67.03	67.43	68.13	68.16	68.19	67.61	68.48
9	65.50	66.62	66.68	65.11	65.90	67.07	67.44	68.14	68.15	68.23	67.57	68.49
10	65.57	66.65	66.63	65.09	65.95	67.10	67.46	68.16	68.12	68.25	67.57	68.50
11	65.64	66.66	66.61	65.06	66.00	67.13	67.49	68.19	68.13	68.26	67.58	68.57
12	65.65	66.70	66.60	65.03	66.09	67.15	67.51	68.21	68.15	68.26	67.62	68.59
13	65.66	66.74	66.56	65.02	66.12	67.21	67.52	68.22	68.14	68.27	67.63	68.60
14	65.67	66.75	66.57	65.04	66.17	67.24	67.53	68.23	68.13	68.27	67.66	68.62
15	65.71	66.77	66.55	65.06	66.20	67.27	67.55	68.24	68.13	68.28	67.69	68.68
16	65.74	66.80	66.57	65.09	66.25	67.29	67.58	68.25	68.11	68.30	67.74	68.70
17	65.78	66.88	66.55	65.12	66.30	67.32	67.61	68.27	68.12	68.32	67.77	68.72
18	65.81	66.93	66.51	65.14	66.34	67.36	67.63	68.27	68.13	68.31	67.79	68.75
19	65.84	66.94	66.51	65.15	66.38	67.37	67.64	68.27	68.14	68.30	67.79	68.77
20	65.87	66.95	66.50	65.18	66.43	67.40	67.66	68.27	68.14	68.29	67.83	68.78

16--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	65.91	67.01	66.49	65.19	66.49	67.43	67.69	68.27	68.14	68.32	67.90	68.81
22	65.95	67.02	66.48	65.23	66.54	67.43	67.72	68.26	68.14	68.25	67.95	68.85
23	66.04	67.00	66.47	65.24	66.58	67.44	67.74	68.25	68.16	68.19	68.00	68.90
24	66.09	67.05	66.46	65.27	66.60	67.42	67.76	68.26	68.17	68.12	68.02	68.94
25	66.10	67.10	66.48	65.29	66.64	67.40	67.79	68.26	68.15	68.05	68.04	68.98
26	66.12	67.04	66.45	65.30	66.66	67.39	67.84	68.24	68.15	68.00	68.07	69.00
27	66.13	67.12	66.41	65.35	66.70	67.38	67.85	68.22	68.16	67.93	68.12	69.03
28	66.12	67.09	66.27	65.40	66.74	67.39	67.87	68.23	68.17	67.88	68.17	69.07
29	66.25	67.04	66.13	65.42	66.75	67.38	67.90	68.21	68.17	67.87	68.19	69.08
30	66.34		65.96	65.47	66.77	67.37	67.92	68.20	68.15	67.82	68.23	69.10
31	66.37		65.78		66.80		67.96	68.23		67.77		69.15

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: 1947-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.55	9.71	9.35	9.50	9.26	9.48	9.72	9.68	9.54	9.55	9.70	9.40
2	9.57	9.40	9.30	9.61	9.29	9.51	9.73	9.66	9.50	9.57	9.67	9.28
3	9.53	9.42	9.27	9.87	9.30	9.51	9.75	9.60	9.51	9.60	9.60	9.45
4	9.53	9.50	9.22	9.82	9.32	9.53	9.74	9.62	9.54	9.60	9.61	9.40
5	9.56	9.63	9.25	9.53	9.33	9.53	9.71	9.55	9.55	9.57	9.48	9.47
6	9.55	9.73	9.25	9.48	9.36	9.57	9.70	9.57	9.51	9.50	9.43	9.50
7	9.71	9.75	9.23	9.30	9.37	9.55	9.75	9.58	9.52	9.53	9.38	9.38
8	9.50	9.68	9.26	9.18	9.38	9.50	9.77	9.48	9.52	9.47	9.40	9.31
9	9.54	9.80	9.21	9.10	9.39	9.54	9.74	9.48	9.54	9.55	9.35	9.35
10	9.64	9.92	9.19	9.09	9.40	9.53	9.72	9.45	9.57	9.58	9.28	9.30
11	9.68	9.98	9.21	9.09	9.39	9.58	9.78	9.46	9.50	9.54	9.28	9.53
12	9.65	10.02	9.22	9.09	9.48	9.53	9.80	9.45	9.52	9.56	9.30	9.36
13	9.62	9.98	9.22	9.07	9.51	9.59	9.80	9.47	9.53	9.51	9.32	9.35
14	9.58	9.90	9.21	9.00	9.52	9.60	9.70	9.45	9.53	9.50	9.30	9.40
15	9.56	9.82	9.20	9.01	9.50	9.64	9.68	9.46	9.50	9.49	9.30	9.47
16	9.60	9.70	9.24	9.12	9.48	9.63	9.70	9.42	9.52	9.50	9.33	9.48
17	9.61	9.75	9.43	9.20	9.49	9.64	9.74	9.43	9.52	9.54	9.35	9.45
18	9.60	9.81	9.53	9.24	9.50	9.67	9.75	9.40	9.52	9.48	9.35	9.50
19	9.58	9.77	9.62	9.20	9.50	9.68	9.80	9.40	9.50	9.48	9.25	9.50
20	9.54	9.68	9.83	9.20	9.51	9.70	9.71	9.41	9.55	9.40	9.26	9.46
21	9.50	9.71	9.90	9.21	9.53	9.68	9.73	9.39	9.54	9.31	9.34	9.48
22	9.50	9.70	9.85	9.22	9.57	9.67	9.73	9.38	9.54	9.06	9.36	9.48
23	9.64	9.63	9.77	9.25	9.54	9.67	9.75	9.39	9.56	9.17	9.38	9.47
24	9.70	9.60	9.60	9.24	9.54	9.66	9.75	9.41	9.55	9.30	9.35	9.50
25	9.63	9.64	9.66	9.24	9.51	9.67	9.74	9.50	9.50	9.42	9.30	9.49
26	9.68	9.45	9.47	9.22	9.50	9.70	9.77	9.50	9.57	9.50	9.28	9.50
27	9.60	9.58	9.23	9.20	9.49	9.68	9.80	9.50	9.58	9.65	9.26	9.56
28	9.41	9.52	9.13	9.20	9.49	9.70	9.75	9.48	9.56	9.68	9.40	9.57
29	9.72	9.41	9.29	9.21	9.45	9.70	9.72	9.48	9.57	9.90	9.37	9.56
30	9.77		9.45	9.25	9.40	9.71	9.67	9.47	9.60	10.00	9.38	9.44
31	9.80		9.50		9.40		9.70	9.50		9.88		9.35

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: 1947-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.22	65.78	65.20	65.00	65.58	65.12	66.54	65.31	65.13	65.16	65.33	65.26
2	65.36	65.33	65.23	65.01	65.58	65.21	66.55	65.26	65.02	65.12	65.26	65.12
3	65.39	64.93	65.16	65.18	65.55	65.30	66.60	65.20	65.03	65.13	65.31	65.05
4	65.41	64.98	65.10	65.13	65.56	65.40	66.20	65.18	65.04	65.19	65.30	65.11
5	65.33	65.13	65.29	65.10	65.82	65.89	65.84	65.10	65.09	65.18	65.31	65.07

77--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	65.30	65.45	65.40	65.30	65.90	65.36	65.57	65.16	65.09	65.02	65.20	65.27
7	65.62	65.42	65.42	65.36	65.75	65.30	65.57	65.12	65.02	64.90	65.22	65.17
8	65.50	65.68	65.50	65.34	65.88	65.20	65.60	65.13	65.02	64.78	65.30	65.03
9	65.32	65.62	65.40	65.26	65.83	65.24	65.80	65.12	65.15	64.82	65.23	64.95
10	65.25	65.66	65.08	65.25	65.66	65.43	65.82	65.11	65.20	65.03	65.06	64.89
11	65.71	65.63	64.85	65.25	65.40	65.60	65.87	65.12	65.12	65.15	65.04	65.07
12	65.59	65.66	65.04	65.13	65.93	65.70	66.16	65.18	65.01	65.20	65.15	65.22
13	65.54	65.63	65.10	64.89	66.40	65.70	66.26	65.22	65.05	65.22	65.22	65.10
14	65.38	65.53	65.18	65.12	66.87	65.56	66.30	65.26	65.00	65.13	65.19	65.05
15	65.30	65.43	65.11	65.50	66.68	65.60	66.40	65.25	64.98	65.08	65.13	65.27
16	65.30	65.24	65.34	65.75	66.98	65.58	65.62	65.20	64.96	65.04	65.21	65.36
17	65.33	65.36	65.44	65.87	66.71	65.81	65.60	65.18	64.92	65.11	65.25	65.39
18	65.24	65.63	65.35	65.70	66.42	65.90	65.62	65.18	64.89	65.16	65.23	65.30
19	65.29	65.60	65.27	65.63	66.41	65.99	65.53	65.16	64.81	64.99	64.97	65.37
20	65.22	65.48	65.46	65.49	66.58	66.11	65.42	65.17	64.94	64.89	64.73	65.21
21	65.20	65.52	65.50	65.47	66.31	65.81	65.38	65.17	64.93	65.22	64.92	65.18
22	65.13	65.57	65.43	65.52	66.77	65.60	65.37	65.17	64.97	65.34	65.12	65.23
23	65.23	65.33	65.36	65.51	66.78	66.14	65.38	65.10	65.04	65.26	65.19	65.30
24	65.64	65.24	65.24	65.41	66.84	66.20	65.41	65.01	65.11	65.29	65.18	65.35
25	65.58	65.24	65.28	65.30	66.03	66.16	65.44	65.09	65.12	65.31	65.11	65.34
26	65.43	64.97	65.21	65.10	66.40	66.30	65.47	65.23	65.12	65.32	65.00	65.40
27	65.25	65.18	65.10	65.12	66.53	66.19	65.44	65.25	65.20	65.31	65.00	65.50
28	65.03	65.45	65.05	65.25	66.60	66.10	65.35	65.17	65.21	65.30	65.20	65.54
29	65.33	65.28	65.13	65.35	66.47	65.81	65.30	65.13	65.23	65.43	65.22	65.55
30	65.74		65.17	65.42	65.44	66.20	65.25	65.06	65.21	65.55	65.19	65.42
31	65.89		65.10		65.20		65.28	65.07		65.46		65.06

166. Juice Industries, Inc. Dunedin. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 28 S., R. 15 E. Drill'ed 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, 19⁰⁰; lowest 17.01 below lsd, May 27, 1949. Records available: 1948-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	10.96	11.35	.....	.....	.....	11.98	.....	11.84	11.77	11.20	11.14
2	.....	10.63	11.39	.....	.....	.....	11.86	.....	12.06	11.70	11.28	11.20
3	.....	10.52	11.10	.....	.....	.....	11.70	.....	12.05	11.85	11.22	11.13
4	10.59	10.53	11.43	10.50	.....	.....	11.57	.....	11.76	12.10	11.28	11.20
5	10.68	10.52	11.60	10.50	.....	.....	11.47	.....	11.80	12.12	11.27	11.32
6	10.48	10.53	11.58	10.50	.....	.....	11.20	.....	11.66	11.72	11.07	11.20
7	10.61	10.53	11.55	.....	.....	.....	11.23	11.25	11.69	.....	10.96	11.16
8	10.60	10.56	11.60	10.51	.....	.....	11.20	11.31	11.60	.....	11.15	11.08
9	10.54	10.51	11.47	10.79	.....	.....	11.20	11.30	11.75	.....	11.19	11.24
10	10.57	10.58	11.25	10.95	.....	.....	11.37	11.06	11.97	.....	11.09	11.26
11	10.57	10.51	11.15	11.11	.....	.....	11.32	11.00	11.99	.....	11.02	11.30
12	10.57	10.90	11.36	11.10	.....	.....	11.45	11.02	12.09	.....	11.01	11.46
13	10.65	11.18	11.56	10.65	.....	.....	11.50	11.30	11.72	.....	11.01	11.10
14	10.55	11.37	11.67	.....	.....	.....	11.16	11.61	11.63	.....	11.01	10.94
15	10.62	11.53	10.97	10.91	.....	.....	11.03	11.90	11.70	.....	11.11	11.07
16	10.65	11.42	11.25	11.18	.....	.....	11.07	11.85	11.82	.....	11.11	.....
17	10.74	11.32	11.11	11.28	.....	.....	11.22	11.74	12.00	.....	11.08	.....
18	10.78	11.58	11.30	11.55	.....	.....	11.39	11.62	12.15	.....	11.24	.....
19	10.90	11.70	11.45	11.62	.....	.....	11.65	11.43	12.14	.....	11.06	.....
20	10.83	11.73	11.27	11.60	.....	.....	11.69	11.31	12.13	.....	10.89	.....
21	10.82	11.78	11.52	11.60	.....	.....	11.60	11.29	11.70	.....	10.60	.....
22	10.84	11.78	11.65	11.70	.....	.....	11.57	11.33	11.52	.....	10.70	.....
23	11.06	11.52	11.34	11.79	.....	.....	12.05	11.45	11.60	.....	10.7	.....
24	11.10	11.40	11.30	11.82	13.29	.....	12.23	11.48	11.40	.....	10.78	.....
25	11.02	11.05	11.21	.....	13.40	12.29	11.63	11.47	11.52	.....	10.89	.....
26	11.15	10.96	10.70	.....	.....	12.56	.....	11.70	11.33	.....	10.89	.....
27	10.98	10.82	.....	.....	.....	12.37	.....	11.78	11.37	.....	11.11	.....
28	10.82	11.28	.....	.....	.....	12.07	.....	11.94	11.43	10.80	11.15	.....
29	10.75	11.25	.....	.....	.....	12.03	.....	11.77	11.38	11.10	11.33	.....
30	10.82	.....	.....	.....	.....	12.02	.....	12.09	11.58	11.22	11.32	.....
31	10.83	.....	.....	.....	.....	.....	.....	11.70	.....	11.29	.....	.....

166--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.27	12.98	13.20	11.33	.....	.....	13.70	.....	14.89	13.75	13.30	13.11
2	12.51	12.46	12.48	11.92	.....	.....	13.41	.....	14.39	14.25	13.04	13.57
3	12.54	11.64	13.11	12.31	.....	.....	13.47	.....	14.17	14.63	13.37	13.16
4	12.82	11.68	13.40	12.39	.....	.....	13.19	.....	14.38	14.44	13.40	13.30
5	12.41	11.81	13.71	11.77	.....	.....	13.01	.....	13.51	13.89	13.28	13.20
6	11.80	11.99	13.55	11.81	.....	.....	12.84	.....	13.91	14.06	13.02	12.98
7	12.39	11.88	13.46	12.48	.....	.....	13.03	13.80	14.00	.....	13.13	12.90
8	12.35	12.47	13.73	13.31	.....	.....	12.83	13.71	14.42	.....	13.73	13.10
9	12.94	12.35	13.62	13.20	.....	.....	13.18	13.47	14.78	.....	12.99	13.32
10	12.23	12.18	13.71	13.77	.....	.....	13.50	13.11	15.12	.....	13.62	13.06
11	12.52	12.85	13.41	13.93	.....	.....	13.36	13.42	15.13	.....	12.32	12.99
12	12.62	13.51	14.04	13.87	.....	.....	13.80	13.82	13.33	.....	12.29	13.38
13	12.65	13.62	14.23	12.42	.....	.....	13.00	14.40	13.55	.....	11.85	11.95
14	12.96	13.73	13.86	12.60	.....	.....	12.70	14.98	13.47	.....	12.99	11.68
15	13.12	13.58	12.62	12.95	.....	.....	12.72	15.20	13.62	.....	13.08	12.21
16	12.93	13.28	12.03	13.37	.....	.....	13.14	14.35	13.98	.....	12.86	.....
17	13.16	12.98	12.15	13.60	.....	.....	13.50	14.00	14.90	.....	13.78	.....
18	13.27	13.33	12.65	13.94	.....	.....	13.89	13.00	15.19	.....	13.52	.....
19	12.64	13.45	13.18	14.16	.....	.....	14.06	12.81	14.49	.....	12.97	.....
20	12.56	13.59	13.36	13.73	.....	.....	13.92	12.78	13.91	.....	11.77	.....
21	12.65	13.36	13.57	14.26	.....	.....	13.27	13.49	12.97	.....	11.68	.....
22	12.84	13.55	13.89	14.55	.....	.....	14.28	13.70	13.81	.....	11.84	.....
23	12.92	13.47	13.65	14.70	.....	.....	15.10	14.25	13.03	.....	11.78	.....
24	13.08	13.20	13.75	14.37	16.50	.....	15.34	13.40	13.28	.....	12.55	.....
25	13.27	12.66	12.78	.....	15.90	15.68	15.20	13.75	12.94	.....	12.72	.....
26	13.40	12.95	12.32	.....	.....	15.63	.....	14.80	13.50	.....	12.88	.....
27	13.17	12.75	11.70	.....	.....	14.08	.....	14.87	13.71	.....	12.64	.....
28	12.82	13.26	11.61	.....	.....	14.61	.....	14.02	13.52	13.07	13.31	.....
29	12.31	13.10	11.30	.....	.....	14.58	.....	15.13	13.32	13.00	13.55	.....
30	12.74	.....	10.99	.....	.....	14.64	.....	14.21	13.77	13.15	12.92	.....
31	12.93	.....	11.20	.....	.....	.....	.....	13.94	.....	13.22	.....	.....

246. City of Clearwater. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 29 S., R. 15 E. Garden and Marshall Sts. 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: 1946-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.95	26.70	25.91	25.68	26.57	26.04	26.37	25.96	25.98	26.03	26.11	26.20
2	26.06	26.15	25.93	25.72	26.58	26.23	26.37	25.84	25.96	25.95	26.03	26.08
3	26.10	25.72	25.82	25.93	26.62	26.40	26.35	25.77	26.00	26.04	26.11	26.06
4	26.15	25.78	25.84	25.88	26.64	26.55	26.34	25.78	26.07	26.15	26.20	26.07
5	26.10	25.98	26.10	25.85	26.72	26.56	26.21	25.79	26.14	26.13	26.17	26.03
6	26.02	26.30	26.22	26.11	26.85	26.35	26.14	25.89	26.15	26.00	26.05	26.18
7	26.34	26.24	26.20	26.24	26.87	26.18	26.14	25.83	26.13	25.85	26.15	26.05
8	26.20	26.52	26.28	26.27	26.90	26.04	26.13	25.88	26.12	25.53	26.27	25.97
9	26.03	26.37	26.16	26.23	26.87	26.08	26.08	25.85	26.24	25.66	26.20	25.96
10	25.98	26.34	25.83	26.27	26.83	26.17	26.12	25.84	26.32	25.82	26.02	25.80
11	26.48	25.26	25.63	26.23	26.60	26.26	26.18	25.87	26.27	25.93	25.93	26.10
12	26.40	26.33	25.84	26.13	26.87	26.37	26.25	25.93	26.13	25.97	26.06	26.20
13	26.33	26.31	25.90	25.79	27.14	26.48	26.23	26.04	25.95	25.99	26.07	26.02
14	26.15	26.24	26.01	25.70	27.28	26.42	26.08	26.12	25.94	25.95	26.05	25.85
15	26.13	26.13	25.87	26.04	27.22	26.48	25.95	26.15	25.80	25.90	26.06	26.18
16	26.14	25.93	26.11	26.33	27.13	26.46	25.98	26.07	25.88	25.95	26.15	26.32
17	26.16	26.06	26.22	26.51	27.00	26.58	26.03	25.96	25.92	26.00	26.20	26.32
18	26.32	26.40	26.07	26.60	26.70	26.73	26.10	25.90	25.90	25.87	26.20	26.30
19	26.16	26.37	25.92	26.57	26.68	26.76	26.16	25.87	25.85	25.70	25.95	26.35
20	26.09	26.25	26.05	26.45	26.83	26.82	26.12	25.87	25.92	25.61	25.66	26.21
21	26.04	26.29	26.08	26.38	26.82	26.80	26.08	25.90	25.78	26.23	25.82	26.10
22	25.95	26.28	26.05	26.50	26.85	26.57	26.07	25.94	25.75	.....	26.00	26.10
23	26.13	26.03	26.00	26.51	26.90	26.48	26.16	25.94	25.82	.....	26.07	26.25
24	26.56	25.93	25.88	26.40	26.77	26.58	26.26	25.87	25.90	.....	26.07	26.37
25	26.54	25.98	25.94	26.23	26.62	26.63	26.33	25.98	25.92	26.13	26.01	26.30

246--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Nov.
26	26.45	25.70	25.90	26.05	26.58	26.82	26.40	26.16	25.94	26.10	25.92	26.34
27	26.28	26.15	25.84	26.01	26.73	26.73	26.21	26.23	26.05	26.01	25.95	26.50
28	25.98	26.27	25.87	26.17	26.80	26.52	26.00	26.20	26.06	25.97	26.15	26.48
29	26.31	26.03	25.92	26.32	26.85	26.46	25.95	26.12	26.05	26.21	26.15	26.44
30	26.66		25.97	26.40	26.48	26.38	25.89	26.13	25.07	26.32	26.15	26.33
31	26.79		25.85		26.13		25.93	25.98		26.18		26.06

269. City of Clearwater. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 29 S., R. 15 E. Lady Mary Dr. and Evergreen Ave. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, reported depth 192 feet. Land-surface datum is 15.03 feet above msl. Highest water level 4.31 below lsd, Sept. 24, 1947; lowest 14.23 below lsd, May 28, 1952. Records available: 1930, 1947-52. Measurement discontinued.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.49	8.50	7.39	7.50	9.75	7.85	8.42	7.46	7.88	8.00	8.13	8.18
2	7.49	8.29	7.50	7.17	9.28	8.31	8.10	7.20	8.26	7.43	8.40	8.50
3	7.74	7.70	7.50	7.63	9.37	9.47	8.07	7.12	8.35	7.82	8.35	8.53
4	7.85	7.17	7.54	7.99	9.64	10.08	8.50	7.06	8.10	8.52	8.35	8.54
5	7.90	7.12	8.38	7.49	9.74	9.13	8.70	7.08	8.33	8.33	7.49	8.56
6	7.60	7.50	8.18	7.44	10.39	8.35	7.93	7.24	8.94	7.78	7.44	8.00
7	7.46	7.51	8.33	7.51	10.45	7.82	7.79	7.73	8.98	7.30	7.88	8.13
8	7.80	7.76	7.99	8.63	10.45	7.58	7.83	7.97	8.93	6.87	8.44	8.24
9	7.64	7.75	8.17	8.30	10.48	7.42	7.79	7.95	9.00	6.68	8.33	8.56
10	7.53	7.92	7.90	8.43	10.63	7.73	8.10	7.91	9.50	6.88	8.28	8.37
11	7.80	7.78	7.72	8.53	9.84	8.23	8.83	7.92	9.60	7.08	8.00	....
12	8.00	8.02	7.50	8.59	9.24	8.92	8.91	7.71	8.63	7.25	7.43	....
13	8.00	8.35	8.09	8.42	10.20	9.33	8.41	8.10	7.67	7.23	7.80	....
14	8.58	8.85	8.11	7.29	10.88	8.22	8.05	8.75	7.86	7.59	7.78	....
15	8.17	8.30	7.60	7.47	11.13	8.66	7.97	8.73	7.62	7.67	8.10	....
16	8.16	7.91	7.45	7.88	10.81	8.37	7.82	8.90	7.97	7.97	8.26	....
17	8.17	7.48	7.56	8.37	12.00	9.04	7.89	7.98	8.23	7.86	8.06	....
18	8.17	7.69	7.70	8.69	10.47	9.50	8.07	7.31	7.90	7.20	8.54	....
19	8.25	7.95	7.59	8.22	10.19	9.86	8.87	7.10	8.10	7.30	8.23	....
20	7.93	7.95	7.50	9.18	10.07	10.15	9.28	7.00	7.73	6.57	7.72	....
21	7.96	7.72	7.84	8.39	9.21	10.33	9.22	7.53	7.20	6.66	7.07	....
22	7.84	7.69	8.00	8.85	9.55	9.23	8.10	7.90	6.86	7.20	7.53	....
23	7.91	7.75	8.00	9.07	10.84	9.11	8.76	8.71	6.84	7.16	7.72	....
24	8.19	7.35	7.80	9.13	10.35	8.54	8.56	8.61	7.00	7.20	7.87	....
25	8.20	7.26	7.70	8.78	10.01	9.38	9.48	8.56	7.17	7.28	8.15	....
26	8.57	7.18	7.40	8.17	9.85	9.47	9.68	8.48	7.28	7.50	8.10	....
27	8.38	7.12	6.87	7.65	11.54	8.67	8.71	8.53	7.46	7.63	8.30	....
28	7.99	7.75	7.08	7.73	10.78	8.12	7.72	9.21	7.94	7.34	8.04	....
29	7.56	7.57	7.17	8.30	10.46	8.70	7.58	8.56	7.52	7.82	8.22	....
30	8.01		7.35	8.89	8.50	8.15	7.82	8.70	7.60	7.93	8.43	....
31	8.31		7.47		8.24		7.54	7.79		8.03		....

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.54	11.26	9.80	10.07	13.03	10.95	10.37	9.20	11.13	10.48	11.50	11.44
2	10.75	10.38	9.08	10.58	13.09	12.16	9.63	8.62	11.00	10.52	11.38	11.49
3	10.87	8.96	10.53	11.18	13.00	12.41	10.52	8.62	11.20	11.37	11.58	11.37
4	10.93	9.37	10.10	10.94	12.49	12.90	10.43	8.66	11.57	11.67	11.34	11.60
5	11.08	8.80	10.95	8.51	13.25	12.21	9.73	9.10	11.75	11.45	11.49	11.10
6	9.10	9.83	10.64	8.61	13.08	10.28	9.85	9.78	12.34	11.53	11.15	10.90
7	10.39	9.37	10.83	10.92	13.22	9.36	9.87	10.25	11.75	9.13	11.46	11.07
8	10.61	10.44	11.15	11.48	13.58	9.20	9.83	10.29	11.87	8.33	11.83	11.53
9	10.64	10.52	11.13	11.94	13.61	10.18	9.37	10.01	12.06	8.80	11.42	11.62
10	9.98	10.49	10.93	12.00	13.40	11.03	10.67	10.30	12.88	8.64	11.38	....
11	10.94	10.73	10.04	12.24	12.29	12.23	10.90	9.69	13.06	9.99	9.30	....
12	11.24	11.25	11.29	12.07	13.11	12.46	10.82	10.33	11.90	9.40	9.50	....
13	11.07	11.46	11.31	10.49	13.75	12.19	10.54	10.82	11.06	10.68	10.01	....
14	11.50	11.39	10.85	9.34	14.13	11.56	9.98	11.33	10.76	11.12	10.70	....
15	11.54	10.94	9.07	10.58	14.13	11.55	10.02	11.68	10.97	11.41	11.28	....

269--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	11.50	9.15	8.66	11.50	14.17	12.18	10.04	10.84	11.46	11.42	11.00	.....
17	11.69	9.15	9.84	12.09	12.98	12.77	10.32	10.40	11.60	9.91	11.55	.....
18	11.48	10.30	10.48	12.59	12.60	13.13	11.17	9.39	11.44	9.03	11.76	.....
19	11.06	10.66	9.10	12.75	12.96	13.14	11.46	8.89	11.03	8.06	11.15	.....
20	10.90	10.74	10.76	11.83	12.89	13.38	11.16	9.10	11.15	8.31	9.09	.....
21	10.80	9.70	11.20	12.68	12.54	12.71	10.80	9.97	8.61	9.12	8.86	.....
22	10.85	10.63	11.56	12.91	12.88	10.88	11.23	10.87	8.98	8.90	9.78	.....
23	10.69	10.08	11.05	12.92	13.05	10.83	11.40	11.44	8.78	9.57	10.20	.....
24	11.22	8.63	11.08	12.24	12.66	11.44	12.23	11.02	9.67	10.27	11.09	.....
25	12.26	9.90	8.56	12.46	12.25	12.47	.....	11.46	9.60	10.75	11.28	.....
26	12.19	9.13	9.57	10.50	13.25	12.92	12.60	11.92	10.46	10.63	11.27	.....
27	11.50	9.30	8.07	10.15	14.10	12.62	9.87	12.54	10.90	10.17	10.73	.....
28	10.36	9.90	8.62	11.48	14.23	11.37	9.70	11.63	10.60	10.96	11.29	.....
29	9.73	9.85	8.87	12.20	14.04	11.13	9.61	12.33	10.28	10.92	11.48	.....
30	10.38	.....	10.05	12.87	13.20	10.46	9.40	11.44	10.80	11.32	11.20	.....
31	11.09	.....	10.38	.....	10.17	.....	9.66	9.40	.....	11.72	.....	.....

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 3.80 below lsd, May 14, 1952. Records available: 1947-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.03	2.62	2.82	2.29	2.36	2.30	2.29	2.45
2	3.05	2.72	2.80	2.23	2.32	2.24	2.23	2.35
3	3.08	2.77	2.75	2.18	2.32	2.28	2.28	2.32
4	3.13	2.79	2.72	2.16	2.34	2.34	2.36	2.35
5	3.21	2.82	2.59	2.15	2.39	2.35	2.42	2.28
6	3.28	2.78	2.54	2.18	2.40	2.15	2.32	2.52
7	3.30	2.73	2.55	2.17	2.30	2.02	2.38	2.48
8	3.28	2.61	2.55	2.17	2.27	1.85	2.56	2.33
9	3.25	2.63	2.52	2.19	2.37	1.91	2.50	2.25
10	3.18	2.65	2.53	2.20	2.45	2.14	2.31	2.12
11	3.05	2.69	2.55	2.22	2.40	2.27	2.28	2.35
12	3.27	2.72	2.61	2.30	2.27	2.33	2.45	2.63
13	3.60	2.80	2.64	2.38	2.30	2.34	2.53	2.40
14	3.72	2.82	2.55	2.37	2.23	2.23	2.49	2.27
15	3.65	2.86	2.42	2.35	2.18	2.12	2.43	2.55
16	3.50	2.82	2.40	2.32	2.15	2.09	2.52	2.69
17	3.40	2.82	2.43	2.30	2.09	2.10	2.57	2.70
18	3.20	2.86	2.48	2.30	2.07	2.18	2.54	2.58
19	2.63	.....	.....	.....	3.08	2.91	2.49	2.30	2.00	2.02	2.31	2.61
20	2.58	.....	.....	.....	3.11	2.96	2.45	2.33	2.10	1.88	2.02	2.47
21	2.55	.....	.....	.....	3.11	3.00	2.38	2.38	2.10	2.35	2.22	2.38
22	2.50	.....	.....	.....	3.14	2.95	2.37	2.39	2.07	2.63	2.44	2.45
23	2.54	.....	.....	.....	3.19	2.94	2.38	2.34	2.12	2.44	2.49	2.50
24	3.10	.....	.....	.....	3.12	2.93	2.44	2.28	2.21	2.38	2.50	2.58
25	2.98	2.99	2.47	2.32	2.24	2.39	2.42	2.81
26	2.91	3.10	2.51	2.49	2.21	2.36	2.27	2.63
27	2.95	3.05	2.48	2.58	2.34	2.29	2.30	2.70
28	3.04	2.93	2.38	2.48	2.35	2.23	2.42	2.76
29	2.99	2.87	2.33	2.36	2.38	2.35	2.50	2.78
30	2.81	2.82	2.80	2.30	2.33	2.36	2.59	2.40	2.68
31	2.67	.....	2.31	2.33	.....	2.43	.....	2.35

Polk County

44. P. E. Williams. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 26 S., R. 27 E. Drilled unused artesian well in Floridan aquifer, diameter 10 inches, depth 180 feet. Land-surface datum is 113.14 feet above msl. Highest water level 0.58 below lsd, Sept. 23, 1947; lowest 3.50 below lsd, June 8, 1951. Records available: 1946-52.

44--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	2.38	1.82	....	2.32	2.38	2.50	....	1.13	....	0.94	1.42
2	....	2.31	1.84	1.65	2.36	2.42	2.42	....	1.11	....	.96	1.43
3	....	2.18	1.85	1.71	2.39	2.46	2.44	....	1.14	....	.99	1.46
4	....	2.22	1.92	1.72	2.41	2.50	2.47	....	1.16	....	1.01	1.48
5	....	2.20	1.97	1.77	2.43	2.53	2.51	....	1.21	....	1.02	1.47
6	1.97	2.22	1.98	1.83	2.48	2.56	2.38	....	1.22	....	1.06	1.51
7	2.03	2.23	1.98	1.85	2.51	2.59	1.83	....	1.25	....	1.09	....
8	2.05	2.28	2.02	1.88	2.52	2.62	1.73	....	1.24	....	1.12	....
9	2.08	2.28	2.03	1.91	2.55	2.66	1.73	....	1.17	....	1.10	....
10	2.12	2.28	2.06	1.94	2.59	2.66	1.74	....	1.18	....	1.11	....
11	2.17	2.31	2.08	1.96	2.61	2.68	1.65	....	1.24	....	1.16	....
12	2.15	2.36	2.10	1.97	2.66	2.71	....	....	1.30	....	1.19	....
13	2.11	2.38	2.11	1.96	2.70	2.67	....	....	1.32	....	1.20	....
14	2.12	2.40	2.16	1.97	2.74	2.63	....	....	....	....	1.23	....
15	2.17	2.41	1.88	2.07	2.75	2.65	....	....	....	....	1.25	....
16	2.19	2.40	1.72	2.11	2.80	2.69	....	1.55	....	....	1.28	....
17	2.20	2.25	1.70	2.14	2.83	2.74	....	1.49	....	....	1.30	....
18	2.22	2.23	1.76	2.17	2.62	2.75	....	1.39	....	....	1.31	....
19	2.24	2.25	1.81	2.18	2.31	2.77	....	1.34	....	....	1.28	1.63
20	2.21	2.26	1.85	2.21	2.04	2.80	....	1.32	....	....	1.20	1.62
21	2.24	2.32	1.88	2.22	2.09	2.83	....	1.35	....	....	1.15	1.62
22	2.28	2.34	1.90	2.25	2.15	2.81	....	1.39	....	....	1.19	1.66
23	2.34	2.29	1.95	2.27	2.15	2.66	....	1.42	....	....	1.22	1.70
24	2.36	2.20	1.97	2.28	2.14	2.50	....	1.32	....	....	1.25	1.71
25	2.34	2.16	1.95	2.30	2.17	2.50	....	1.28	....	....	1.28	1.72
26	2.34	1.87	1.59	2.19	2.20	2.53	....	1.19	....	....	1.30	1.73
27	2.33	1.78	1.40	2.08	2.22	2.42	....	1.21	....	....	1.33	1.75
28	2.31	1.80	....	2.16	2.27	2.39	....	1.23	....	....	1.37	1.77
29	2.34	1.79	....	2.21	2.28	2.43	....	1.15	....	0.93	1.38	1.78
30	2.40	....	....	2.27	2.30	2.47	....	1.13	....	.92	1.39	1.81
31	2.40	....	....	....	2.32	....	....	1.11	....	....	....	1.79

45. Claude Hardin. At Sand Gully, 3.6 miles south of Lakeland. Drilled unured artesian well in Floridan aquifer, diameter 18 to 12 inches, reported depth 768 feet, cased to 325. Highest water level 58.75 below lsd, Oct. 18, 1948; lowest 72.07 below lsd, May 15, 1950. Records available: 1948-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	....	66.83	68.99	68.72	67.98	67.45	....	66.04	65.54	65.55
2	....	....	....	66.83	69.24	68.55	67.95	67.35	....	66.15	65.57	65.52
3	....	....	....	66.99	69.32	68.53	67.86	67.18	....	66.28	65.56	65.59
4	....	....	....	67.04	69.38	68.49	67.80	66.99	....	66.45	65.54	65.67
5	....	....	....	67.08	69.50	68.44	67.68	66.96	....	66.45	65.60	65.65
6	....	....	....	67.12	69.80	68.51	67.50	....	....	66.42	65.79	65.62
7	....	....	68.30	67.10	69.81	68.51	67.40	....	....	66.40	65.74	65.58
8	....	....	68.36	67.16	69.84	68.36	67.40	....	....	66.30	65.75	65.56
9	....	....	68.27	67.26	69.88	68.27	67.33	....	....	66.31	65.65	65.57
10	....	....	68.11	67.38	69.91	68.28	67.40	....	....	66.35	65.55	65.56
11	....	....	68.06	67.45	69.90	68.31	67.42	....	....	66.36	65.56	65.59
12	....	....	68.11	67.49	70.16	68.35	67.40	....	....	66.27	65.67	65.58
13	....	....	68.13	67.50	70.43	68.23	67.30	....	....	66.19	65.77	65.56
14	....	....	68.17	67.40	70.50	68.10	67.13	....	....	66.22	65.90	65.50
15	66.92	....	68.07	67.48	70.54	68.06	67.09	....	....	66.28	66.00	65.55
16	67.09	....	68.00	67.59	70.85	67.97	67.13	....	....	66.36	65.93	65.59
17	67.22	....	67.84	67.74	71.07	68.06	67.19	....	....	66.32	65.84	65.65
18	67.39	....	67.76	67.91	70.83	68.15	67.23	....	....	66.27	65.86	65.67
19	67.40	....	67.80	68.04	70.78	68.28	67.30	....	....	66.08	65.86	65.70
20	67.38	....	67.82	68.17	70.79	68.39	67.22	....	....	65.80	65.78	65.80
21	67.40	....	67.91	68.19	70.43	68.44	67.17	....	....	65.75	65.67	65.86
22	67.50	....	67.99	68.27	70.26	68.33	67.30	....	....	65.72	65.67	65.85
23	67.70	....	68.04	68.30	70.21	68.11	67.42	....	....	65.66	65.60	65.87
24	67.83	....	68.01	68.31	70.14	68.07	67.52	....	....	65.60	65.49	65.99
25	67.85	....	67.96	68.36	69.98	68.03	67.65	....	....	65.55	65.42	65.87

45--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	67.93	.....	67.68	68.31	69.71	68.07	67.80	.....	.....	65.54	65.48	65.50
27	67.95	.....	67.45	68.24	69.50	68.01	67.87	.....	.....	65.40	65.62	65.35
28	67.80	.....	67.27	68.28	69.57	68.02	67.85	.....	.....	65.38	65.57	65.29
29	67.85	.....	67.14	68.40	69.40	68.02	67.72	.....	.....	65.51	65.46	65.25
30	67.99	.....	67.09	68.60	69.08	67.92	67.60	.....	65.99	65.59	65.54	65.26
31	68.04	.....	66.99	.....	68.85	.....	67.55	.....	.....	65.58	.....	65.35

45-A. Claude Hardin. At Sand Gulley, 3.6 miles south of Lakeland. Drilled observation water-table well in sand, diameter 6 inches, reported depth 26 feet, cased to 17. Highest water level 0.77 below lsd, Sept. 28, 1948; lowest 3.72 below lsd, May 27, 1949. Records available: 1948-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.57	2.91	2.41	1.99	2.70	2.97	3.00	2.27	2.08	2.25	1.63	1.92
2	2.60	2.85	2.43	2.02	2.73	2.99	2.90	2.20	2.12	2.27	1.66	1.93
3	2.61	2.75	2.45	2.06	2.75	3.01	2.88	2.15	2.12	2.33	1.71	1.95
4	2.61	2.74	2.48	2.10	2.77	3.03	2.90	1.99	1.95	2.38	1.74	1.98
5	2.61	2.73	2.54	2.15	2.79	3.05	2.93	1.99	1.90	2.40	1.77	2.00
6	2.61	2.75	2.59	2.21	2.80	3.07	2.95	1.98	1.90	2.40	1.80	2.02
7	2.64	2.75	2.62	2.25	2.80	3.09	2.92	1.98	1.95	2.39	1.85	2.05
8	2.65	2.78	2.62	2.29	2.81	3.10	2.93	1.98	2.00	2.22	1.90	2.08
9	2.66	2.79	2.63	2.31	2.82	3.12	2.94	1.99	2.04	2.00	1.91	2.10
10	2.67	2.79	2.64	2.34	2.84	3.14	2.89	2.00	2.08	2.00	1.92	2.10
11	2.73	2.79	2.65	2.36	2.86	3.15	2.68	2.00	2.11	2.02	1.94	2.13
12	2.74	2.79	2.66	2.38	2.90	3.14	2.66	2.04	2.17	2.04	1.97	2.19
13	2.75	2.80	2.67	2.38	2.94	3.10	2.66	1.97	2.15	2.07	2.00	2.19
14	2.75	2.80	2.60	2.39	2.95	3.09	2.65	1.95	2.15	2.10	2.00	2.17
15	2.75	2.81	2.32	2.43	2.96	3.09	2.66	1.95	2.17	2.12	2.02	2.18
16	2.75	2.81	2.13	2.47	2.98	3.10	2.71	2.00	2.20	2.13	2.05	2.22
17	2.75	2.81	2.13	2.52	2.98	3.11	2.76	2.00	2.20	2.10	2.09	2.24
18	2.75	2.84	2.14	2.55	2.98	3.14	2.80	1.85	2.25	1.60	2.10	2.25
19	2.75	2.85	2.15	2.55	2.99	3.16	2.83	1.83	2.29	1.65	2.10	2.25
20	2.75	2.85	2.18	2.58	3.00	3.18	2.85	1.82	2.32	1.43	1.90	2.27
21	2.75	2.86	2.20	2.59	2.96	3.19	2.88	1.85	2.34	1.38	1.62	2.27
22	2.76	2.89	2.23	2.61	2.97	3.18	2.92	1.90	2.35	1.38	1.63	2.27
23	2.78	2.89	2.25	2.62	2.99	3.18	2.95	1.95	2.37	1.37	1.68	2.30
24	2.83	2.87	2.28	2.63	2.99	3.18	2.97	1.95	2.40	1.34	1.71	2.32
25	2.84	2.86	2.27	2.63	2.99	3.18	3.00	2.04	2.38	1.37	1.73	2.33
26	2.84	2.63	2.03	2.58	3.00	3.15	3.02	2.05	2.37	1.47	1.75	2.33
27	2.84	2.43	1.86	2.55	3.03	3.07	3.05	2.08	2.39	1.37	1.80	2.36
28	2.80	2.42	1.85	2.59	3.06	2.98	2.98	2.13	2.40	1.43	1.83	2.40
29	2.78	2.41	1.89	2.63	3.04	2.98	2.70	2.15	2.39	1.57	1.86	2.40
30	2.86	.....	1.94	2.65	3.00	3.00	2.57	2.14	2.25	1.67	1.90	2.40
31	2.90	.....	1.97	.....	2.96	.....	2.45	2.05	.....	1.62	.....	2.37

47. U. S. Geol. Survey. Near Davenport. 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: 1948-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.93	46.52	46.92	46.70	46.52	46.82	47.25	46.92	46.10	44.94	.....	.....
2	45.95	46.53	46.91	46.68	46.53	46.83	47.26	46.90	46.05	44.94	.....	.....
3	45.96	46.55	46.89	46.66	46.55	46.84	47.27	46.90	46.03	44.94	.....	.....
4	45.97	46.57	46.87	46.64	46.56	46.85	47.27	46.89	45.98	44.94	.....	.....
5	45.98	46.60	46.87	46.64	46.57	46.86	47.28	46.88	45.95	44.94	.....	.....
6	45.99	46.62	46.87	46.63	46.58	46.87	47.28	46.85	45.90	44.97	.....	.....
7	46.01	46.64	46.86	46.61	46.60	46.89	47.29	46.83	45.85	44.96	.....	.....
8	46.02	46.66	46.86	46.60	46.61	46.91	47.30	46.81	45.81	e44.96	.....	.....
9	46.04	46.68	46.86	46.58	46.62	46.92	47.26	46.79	45.77	e45.02	.....	.....
10	46.06	46.69	46.86	46.57	46.64	46.94	47.22	46.75	45.77	e45.05	.....	.....
11	46.08	46.71	46.86	46.55	46.65	46.95	47.20	46.73	45.69	e45.08	.....	.....
12	46.10	46.72	46.87	46.55	46.67	46.97	47.16	46.71	45.65	e45.11	.....	.....
13	46.11	46.74	46.87	46.54	46.70	46.98	47.13	46.68	45.60	e45.14	.....	.....
14	46.13	46.75	46.90	46.52	46.73	47.00	47.10	46.65	45.55	e45.17
15	46.15	46.77	46.91	46.52	46.74	47.01	47.09	46.63	45.50	e45.20

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Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	46.17	46.78	46.92	46.52	46.75	47.03	47.05	46.61	45.43	e45.23
17	46.18	46.81	46.91	46.52	46.77	47.05	47.03	46.58	45.38	e45.26	.....	.....
18	46.20	46.83	46.89	46.51	46.79	47.06	47.01	46.55	45.33	e45.30	.....	45.58
19	46.22	46.84	46.87	46.51	46.80	47.08	46.98	46.53	45.28	e45.28	.....	.....
20	46.24	46.86	46.85	46.50	46.81	47.10	46.97	46.50	45.23	e45.26	.....	.....
21	46.26	46.88	46.84	46.50	46.82	47.12	46.95	46.48	45.18	e45.24	.....	.....
22	46.28	46.89	46.82	46.50	46.82	47.13	46.94	46.44	45.14	e45.23	.....	.....
23	46.30	46.90	46.81	46.50	46.80	47.16	46.93	46.41	45.11	e45.22	.....	.....
24	46.33	46.91	46.80	46.50	46.79	47.18	46.93	46.38	45.09	e45.19	.....	.....
25	46.35	46.93	46.80	46.50	46.78	47.19	46.92	46.34	45.05	e45.19	.....	.....
26	46.37	46.94	46.80	46.50	46.77	47.20	46.92	46.32	45.03	e45.16	.....	.....
27	46.39	46.95	46.80	46.50	46.77	47.21	46.91	46.29	45.01	e45.13	.....	.....
28	46.40	46.97	46.79	46.51	46.77	47.22	46.91	46.25	44.99	e45.10	.....	.....
29	46.45	46.93	46.79	46.51	46.78	47.23	46.91	46.21	44.97	e45.07	.....	.....
30	46.47		46.77	46.51	46.79	47.24	46.92	46.18	44.95	e45.05	.....	.....
31	46.50		46.74		46.80		46.92	46.15	.....	.....	.....	.....

e Estimated.

48. U. S. Geol. Survey. On Florida Highway 17, near Frostproof. 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: 1949-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.99	46.30	46.37	46.27	46.43	46.25	46.23	46.45	46.06	45.84	44.20	44.28
2	46.00	46.30	46.36	46.22	46.43	46.25	46.27	46.45	46.04	45.83	44.17	44.30
3	46.01	46.30	46.35	46.22	46.44	46.24	46.26	46.40	46.01	45.81	44.13	44.35
4	46.02	46.30	46.35	46.22	46.45	46.20	46.25	46.42	46.00	45.78	44.10	44.36
5	46.04	46.30	46.35	46.22	46.46	46.18	46.24	46.41	45.98	45.78	44.08	44.37
6	46.05	46.30	46.35	46.22	46.47	46.13	46.23	46.40	45.97	45.78	44.08	44.40
7	46.06	46.30	46.35	46.22	46.48	46.13	46.22	46.37	45.96	45.78	44.08	44.42
8	46.07	46.30	46.35	46.22	46.48	46.12	46.22	46.41	45.96	45.78	44.07	44.43
9	46.09	46.30	46.35	46.23	46.48	46.10	46.22	46.41	45.95	45.77	44.06	44.44
10	46.09	46.30	46.35	46.25	46.49	46.10	46.22	46.41	45.95	45.77	44.05	44.45
11	46.10	46.30	46.35	46.25	46.50	46.10	46.22	46.41	45.95	45.77	44.05	44.49
12	46.10	46.30	46.35	46.26	46.52	46.05	46.23	46.41	45.95	45.76	44.06	44.50
13	46.10	46.31	46.35	46.27	46.52	46.09	46.23	46.42	45.95	45.76	44.07	44.51
14	46.11	46.32	46.35	46.29	46.54	46.10	46.24	46.43	45.95	45.76	44.08	44.52
15	46.12	46.33	46.35	46.30	46.58	46.10	46.25	46.46	45.96	45.75	44.09	44.54
16	46.13	46.34	46.35	46.32	46.59	46.10	46.26	46.46	45.96	45.81	44.10	44.56
17	46.15	46.35	46.35	46.33	46.60	46.10	46.27	46.47	45.95	45.81	44.11	44.57
18	46.17	46.36	46.35	46.35	46.61	46.10	46.27	46.49	45.95	45.78	44.12	44.58
19	46.20	46.37	46.35	46.37	46.60	46.11	46.28	46.50	45.95	45.75	44.13	44.61
20	46.21	46.39	46.35	46.38	46.60	46.12	46.29	46.51	45.95	45.61	44.14	44.62
21	46.22	46.40	46.35	46.38	46.58	46.14	46.31	46.52	45.96	45.54	44.15	44.62
22	46.24	46.40	46.35	46.40	46.56	46.15	46.32	46.53	46.00	45.34	44.15	44.63
23	46.25	46.41	46.35	46.40	46.52	46.20	46.34	46.54	46.01	45.20	44.15	44.65
24	46.25	46.42	46.35	46.41	46.48	46.21	46.35	46.55	46.01	45.06	44.18	44.66
25	46.27	46.43	46.35	46.42	46.44	46.22	46.37	46.54	46.01	44.95	44.20	44.67
26	46.27	46.43	46.34	46.42	46.42	46.23	46.39	46.54	46.01	44.85	44.21	44.67
27	46.28	46.41	46.34	46.42	46.30	46.24	46.40	46.33	45.94	44.72	44.22	44.69
28	46.28	46.38	46.33	46.42	46.35	46.25	46.42	46.24	45.95	44.54	44.23	44.73
29	46.29	46.37	46.32	46.42	46.32	46.26	46.43	46.20	45.91	44.45	44.25	44.75
30	46.29		46.30	46.42	46.27	46.27	46.44	46.14	45.87	44.35	44.26	44.79
31	46.29		46.28		46.27		46.45	46.10	.....	44.28	.....	44.81

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 0.01 below lsd, Aug. 27, 1949; lowest 5.54 below lsd, June 10, 1949. Records available: 1949-52.

49--Continued.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.31	2.70	1.80	1.65	3.13	1.68	3.20	1.50	1.31	1.32	1.15	1.70
2	2.34	2.50	1.89	1.74	3.18	1.87	1.94	1.19	1.40	1.35	1.20	1.72
3	2.36	2.00	2.00	1.82	3.21	2.01	1.59	1.60	1.53	1.43	1.22	1.77
4	2.40	2.17	2.05	1.88	3.25	2.15	1.79	1.77	1.66	1.52	1.26	1.80
5	2.42	1.58	2.16	1.97	3.30	2.25	1.47	1.82	1.57	1.59	1.30	1.83
6	2.44	1.67	2.21	2.02	3.33	2.35	1.35	2.00	1.75	1.67	1.30	1.88
7	2.48	1.73	2.27	2.07	3.37	2.43	1.30	2.10	1.82	1.70	1.37	1.91
8	2.50	1.90	2.33	2.15	3.42	2.50	1.25	2.17	1.74	1.40	1.43	1.94
9	2.53	2.00	2.38	2.21	3.44	2.58	1.63	2.25	1.90	1.44	1.48	1.97
10	2.56	2.10	2.43	2.26	3.48	2.62	1.92	2.32	1.95	1.70	1.53	1.98
11	2.59	2.19	2.47	2.30	3.50	2.68	1.83	2.39	2.02	1.74	1.40	2.03
12	2.60	2.25	2.50	2.36	3.55	2.75	2.13	.57	1.94	1.77	1.43	2.02
13	2.61	2.30	2.55	2.41	3.60	2.59	2.20	1.32	2.05	1.82	1.56	1.93
14	2.64	2.35	2.60	2.46	3.62	2.68	2.23	1.43	1.80	.47	1.61	1.48
15	2.65	2.40	1.45	2.52	3.65	2.80	2.34	.45	2.02	.37	1.65	1.60
16	2.66	2.43	1.58	2.58	3.68	2.88	2.42	1.11	2.10	.84	1.68	1.73
17	2.69	1.93	1.78	2.63	3.73	2.93	2.48	.93	2.19	.25	1.72	1.83
18	2.70	2.22	1.92	2.67	3.44	3.00	1.25	.52	2.24	.55	1.75	1.90
19	2.72	2.34	1.98	2.71	3.50	3.02	1.65	1.22	.82	.66	1.75	1.95
20	2.75	2.42	2.03	2.76	3.32	3.10	1.09	1.32	1.26	.08	.59	1.97
21	2.77	2.47	2.13	2.80	3.30	3.15	1.43	1.40	1.20	.58	1.17	2.01
22	2.80	2.52	2.21	2.86	3.33	3.19	1.63	1.47	1.41	.69	1.27	2.05
23	2.83	2.53	2.28	2.90	1.62	3.26	1.80	1.23	1.48	.80	1.31	2.07
24	2.85	2.45	2.33	2.98	1.58	3.32	1.95	1.53	.57	.92	1.34	2.10
25	2.87	2.45	2.35	3.00	1.85	3.38	2.02	1.10	1.18	1.02	1.37	2.12
26	2.90	1.40	.64	2.80	2.05	3.22	2.10	.50	1.30	.40	1.40	2.14
27	2.94	1.33	1.13	2.78	2.20	2.95	1.52	1.30	.80	.67	1.42	2.13
28	2.51	1.53	1.29	2.99	2.03	2.83	.95	1.37	.61	.85	1.53	2.15
29	2.43	1.62	1.40	3.05	2.30	2.96	1.22	1.40	1.05	1.02	1.59	2.17
30	2.57		1.43	3.08	1.34	3.10	1.13	.53	1.26	1.08	1.65	2.19
31	2.65		1.57		1.52		1.43	1.19		1.10		e2.21

e Estimated.

50. U. S. Geol. Survey. On Florida Highway 60, near Kissimmee River. 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 0.23 above lsd, Sept. 29, 1949; lowest 4.27 below lsd, Mar. 21, 1950. Records available: 1948-52.

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	e-2.75	-2.84	-0.95	-1.00	-2.98	-1.97	-2.85	-2.11	-1.88	-0.56	-1.02	-2.16
2	e2.77	2.85	1.00	1.20	3.02	2.01	2.87	1.98	2.08	.60	1.16	2.21
3	e2.79	2.33	1.02	1.39	3.05	2.03	2.88	1.95	2.20	.18	1.27	2.27
4	e2.81	2.29	1.18	1.53	3.06	2.07	2.90	2.18	2.33	.58	1.42	2.30
5	e2.83	1.62	1.28	1.68	3.09	2.10	2.80	2.32	2.40	.75	1.52	2.32
6	e2.85	1.60	1.38	1.81	3.12	2.16	2.30	2.40	2.48	.94	1.62	2.37
7	e2.87	1.63	1.47	1.92	3.15	2.21	2.13	2.48	1.48	1.10	1.75	2.42
8	2.88	1.70	1.55	2.00	3.17	2.26	2.05	2.54	1.42	.58	1.82	2.44
9	2.90	1.74	1.62	2.07	3.20	2.28	2.11	2.61	1.78	1.00	1.86	2.47
10	2.93	1.79	1.70	2.13	3.22	2.29	2.17	2.67	1.98	1.22	1.92	2.09
11	2.95	1.85	1.77	2.18	3.05	2.31	2.18	2.72	2.15	1.32	1.95	2.06
12	2.97	1.90	1.82	2.22	3.03	2.34	2.19	1.85	2.24	1.43	1.86	2.40
13	3.00	1.96	1.86	2.27	3.03	2.35	2.22	2.09	2.32	-.19	2.03	2.44
14	3.02	2.02	1.90	2.32	3.06	2.38	2.12	2.24	2.39	+1.15	2.07	1.45
15	3.04	2.06	.82	2.37	3.10	2.40	2.13	2.30	2.48	.00	2.12	1.73
16	3.05	2.10	.80	2.42	3.15	2.43	2.15	1.09	2.53	-.08	2.15	1.88
17	3.07	1.77	.90	2.47	3.18	2.45	2.17	.90	2.61	+2.20	2.20	1.97
18	3.09	1.80	.98	2.52	3.17	2.49	2.07	1.12	2.65	.00	2.23	2.05
19	3.10	1.86	1.05	2.57	3.15	2.50	2.08	1.09	2.70	-.05	2.22	2.10
20	3.11	1.92	1.13	2.62	2.89	2.53	2.13	1.35	1.30	+2.20	.60	2.13
21	3.13	1.94	1.22	2.66	2.84	2.55	2.18	1.55	1.25	-.03	1.03	2.20
22	3.15	1.99	1.33	2.70	2.83	2.58	2.23	1.73	1.53	.10	1.33	2.28
23	3.16	2.03	1.43	2.73	2.73	2.60	2.28	1.90	1.65	.20	1.51	2.34
24	3.18	1.95	1.55	2.78	2.53	2.64	2.32	1.97	.08	.35	1.62	2.38
25	3.19	1.91	1.64	2.83	2.52	2.67	2.35	1.30	.15	.52	1.70	2.43

50--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-3.20	-0.92	-0.16	-2.84	-2.54	-2.70	-2.38	-1.63	-0.35	-0.10	-1.76	-2.45
27	3.21	.74	.10	2.85	2.57	2.73	2.40	1.91	.50	.02	1.85	2.32
28	3.23	.79	.13	2.88	2.58	2.75	2.30	1.97	.05	.22	1.95	2.39
29	2.85	.86	.22	2.91	2.60	2.79	2.20	1.85	.23	.54	2.02	2.46
30	2.80		.43	2.95	2.30	2.82	1.93	2.12	.39	.74	2.10	2.48
31	2.82		.74		1.95		1.92	1.38		.84		e2.43

e Estimated.

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 4.18 below lsd, Nov. 20, 1949; lowest 12.07 below lsd, June 9, 1951. Records available: 1949-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.96	7.32	6.58	6.80	7.32	6.95	6.67	6.49	....	5.90	5.57	5.61
2	5.97	7.03	6.55	6.69	7.68	6.93	6.63	6.40	....	5.91	5.55	5.58
3	6.01	6.60	6.48	6.74	7.34	6.95	6.62	6.36	....	5.97	5.57	5.62
4	5.96	6.53	6.42	6.71	7.14	6.98	6.61	6.36	....	6.01	5.53	5.63
5	5.92	6.50	6.93	6.54	7.09	6.94	6.61	6.42	....	5.99	5.48	5.60
6	....	6.60	6.71	6.52	7.59	6.96	6.59	6.40	....	5.98	5.47	5.63
7	....	6.57	6.82	6.66	7.88	6.93	6.54	6.40	....	5.96	5.56	5.60
8	6.18	6.63	6.66	6.57	8.19	6.91	6.50	6.40	....	5.90	5.60	5.63
9	6.30	6.59	6.59	6.67	8.47	6.92	6.48	6.38	....	5.97	5.55	5.63
10	6.36	6.55	6.54	6.85	8.32	6.86	6.47	6.37	....	6.05	5.48	5.57
11	6.53	6.52	6.93	7.18	8.72	6.81	6.52	6.39	....	6.09	5.49	5.62
12	6.46	6.80	7.15	7.17	8.32	6.77	6.56	6.45	....	6.05	5.56	5.70
13	6.41	7.02	6.89	6.71	8.13	6.74	6.54	6.45	....	6.04	5.52	5.63
14	6.48	6.99	7.25	6.95	7.80	6.72	6.49	....	....	6.02	5.54	5.55
15	6.74	7.10	6.78	7.30	6.80	6.67	6.48	....	....	5.97	5.56	5.62
16	6.70	7.10	6.59	7.85	6.68	6.63	6.50	....	....	5.96	5.58	5.70
17	6.75	6.86	6.82	8.08	6.56	6.68	6.51	....	6.15	5.97	5.60	5.70
18	6.85	6.70	6.58	8.14	7.28	6.71	6.49	....	6.16	5.90	5.63	5.68
19	6.83	6.66	6.73	7.96	7.17	6.71	6.47	....	6.27	5.78	5.53	5.60
20	6.97	6.55	6.58	7.97	7.78	6.76	6.41	....	6.47	5.68	5.45	5.58
21	7.11	6.85	6.74	8.70	8.66	6.79	6.38	....	6.35	5.72	5.56	5.52
22	7.30	6.70	6.56	9.07	8.28	6.79	6.40	....	6.22	5.75	5.58	5.55
23	7.61	6.53	6.52	9.34	8.19	6.77	6.42	....	6.15	5.70	5.58	5.62
24	7.90	6.47	6.98	9.39	7.74	6.73	6.42	....	6.10	5.62	5.60	5.70
25	8.05	6.55	7.18	9.55	7.48	6.70	6.45	....	6.05	5.59	5.57	5.69
26	8.03	6.72	6.62	8.56	7.57	6.70	6.52	....	6.00	5.59	5.57	5.68
27	7.78	7.01	6.80	7.70	7.53	6.70	6.50	....	6.00	5.52	5.58	5.75
28	7.67	6.79	6.54	7.71	7.31	6.68	6.45	....	5.96	5.52	5.60	5.80
29	7.58	6.85	6.94	7.63	7.18	6.68	6.42	....	5.94	5.62	5.61	5.81
30	7.48		6.65	7.52	7.07	6.66	6.40	....	5.92	5.65	5.60	5.76
31	7.43		6.84		6.97		6.50	....		5.62		5.77

Putnam County

28. R. O. Puckett. Fruitland. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 12 S., R. 26 E. 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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	6.20	May 15	6.71	Aug. 7	6.87	Oct. 27	5.74
Apr. 1	5.98	June 25	6.7	Sept. 18	6.42	Dec. 11	6.17

29. C. L. Conway. Palatka. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 10 S., R. 26 E. Drilled public-supply artesian well in Floridan aquifer, diameter 8 inches, reported depth 300 feet. Land-surface datum is 22.2 feet above msl. Highest water level 12.0 above lsd, Jan. 1948; lowest 7.5 above lsd, Mar. 6, 1951. Records available: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	+9.8	May 30	+10.2	Aug. 7	+9.0	Oct. 27	+9.9
Apr. 1	+10.1	June 25	+9.0	Sept. 18	+9.9	Dec. 11	+10.4
May 15	+8.8						

St. Johns County

2. P. J. Manucy. Vilano Beach. Sec. 8, T. 7 S., R. 30 E. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, reported depth 198 feet, cased to 195. Land-surface datum is 6.09 feet above msl. Highest water level 32.0 above lsd, Aug. 16, 1949; lowest 24.1 above lsd, July 16, 1952. Records available: 1934, 1940-42, 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	+26.7	Apr. 16	+26.1	July 16	+24.1	Oct. 29	+25.7
Mar. 7	+26.1	May 28	+24.9	Sept. 10	+26.2	Dec. 16	+25.3

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. Records available: 1934, 1940-41, 1944-52.

Jan. 9	+30.5	Apr. 16	+30.2	July 16	+28.1	Oct. 29	+30.2
Mar. 7	+29.9	May 28	+29.3	Sept. 10	+30.0	Dec. 16	+29.4

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, 1949-52.

Jan. 9	+17.0	Apr. 16	+17.3	July 16	+15.8	Oct. 29	+17.6
Mar. 7	+17.5	May 29	+16.3	Sept. 10	+16.7	Dec. 16	+16.8

5. G. L. Oesterricker. Near 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, 1944-52.

Jan. 9	41.4	Apr. 16	43.9	July 16	42.5	Oct. 29	43.5
Mar. 7	44.0	May 28	43.5	Sept. 10	43.3	Dec. 18	43.0

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 31.1 above lsd, July 16, 1952. Records available: 1934, 1940-42, 1944, 1946-52. Jan. 9, 32.6; Apr. 16, 32.2; May 28, 31.6; July 16, 31.1; Sept. 10, 32.0; Oct. 29, 33.0; Dec. 16, 32.1.

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, 1946-52.

Jan. 9	28.5	Apr. 16	28.0	July 16	26.6	Oct. 30	28.1
Mar. 7	28.1	May 29	28.2	Sept. 10	27.8	Dec. 16	27.9

Santa Rosa County

8. P. L. Coleman. NE cor. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 2 S., R. 26 W. Drilled domestic artesian well in Floridan aquifer, diameter 6 inches, depth 1,063 feet, cased to 716. Land-surface datum is 11.82 feet above msl. Highest water level 63.0 above lsd, Mar. 9, 1949; lowest 53.3 above lsd, July 11, 1951. Records available: 1947-52. Jan. 30, 56.5; Mar. 19, 57.8; Apr. 20, 57.0; Aug. 22, 55.3; Oct. 11, 54.3; Nov. 20, 54.5.

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 9.07 below lsd, May 22, 1950. Records available: 1941-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.01	7.03	6.90	7.71	8.58	7.68	6.80	6.31	6.10	5.84	6.35
2	7.80	7.04	6.86	7.76	8.57	7.66	6.71	6.30	6.10	5.86	6.32
3	7.66	7.01	6.90	7.81	8.56	7.63	6.66	6.33	6.14	5.90	6.34
4	7.70	7.00	6.89	7.85	8.56	7.62	6.62	6.38	6.18	5.90	6.37
5	7.70	7.05	6.92	7.88	8.55	7.62	6.62	6.40	6.16	5.91	6.35

5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	7.03	7.80	7.05	7.02	7.92	8.46	7.61	6.57	6.40	6.14	5.94	6.40
7	7.14	7.76	7.03	7.02	7.96	8.42	7.58	6.49	6.38	6.10	6.00	6.41
8	7.17	7.81	7.04	7.01	7.99	8.40	7.49	6.45	6.37	6.00	6.08	6.43
9	7.21	7.76	7.05	7.00	8.00	8.41	7.44	6.40	6.38	6.00	6.07	6.42
0	7.28	7.73	7.01	7.00	8.05	8.38	7.40	6.39	6.35	6.04	6.05	6.38
1	7.45	7.66	7.02	6.98	8.10	8.33	7.41	6.38	6.36	....	6.08	6.49
2	7.50	7.61	7.02	6.95	8.23	8.28	7.43	6.40	6.38	....	6.14	6.55
3	7.49	7.56	7.00	6.93	8.32	8.27	7.39	6.39	6.40	....	6.16	6.50
4	7.47	7.53	6.99	6.96	8.38	8.25	7.32	6.38	6.38	....	6.18	6.45
5	7.49	7.48	6.94	7.04	8.40	8.18	7.25	6.33	6.35	....	6.21	6.58
6	7.51	7.44	7.01	7.10	8.41	8.11	7.22	6.32	6.32	....	6.29	6.64
7	7.52	7.46	7.03	7.17	8.44	8.10	7.23	6.25	6.30	....	6.33	6.65
8	7.54	7.52	7.01	7.21	8.45	8.08	7.23	6.24	6.33	....	6.35	6.65
9	7.55	7.47	7.04	7.24	8.46	8.05	7.18	6.25	6.35	....	6.29	6.62
0	7.54	7.43	7.05	7.27	8.47	8.02	7.18	6.25	6.35	....	6.19	6.61
1	7.54	7.43	7.05	7.30	8.52	8.02	7.17	6.25	6.33	....	6.24	6.57
2	7.55	7.41	7.05	7.36	8.56	8.01	7.12	6.24	6.30	....	6.32	6.58
3	7.65	7.31	7.08	7.38	8.58	7.99	7.10	6.23	6.28	....	6.37	6.65
4	7.79	7.27	7.07	7.40	8.59	7.93	7.07	6.23	6.29	5.69	6.35	6.70
5	7.80	7.32	7.08	7.43	8.59	7.87	7.05	6.25	6.26	5.68	6.35	6.73
6	7.79	7.15	7.01	7.41	8.58	7.83	7.05	6.23	6.22	5.70	6.35	6.74
7	7.76	7.21	7.00	7.49	8.60	7.78	7.03	6.20	6.22	5.70	6.36	6.75
8	7.65	7.20	7.00	7.59	8.61	7.77	6.98	6.21	6.25	5.68	6.39	6.77
9	7.75	7.09	7.00	7.64	8.57	7.75	6.91	6.20	6.23	5.79	6.38	6.80
0	7.94		7.03	7.65	8.54	7.71	6.87	6.20	6.12	5.88	6.35	6.75
1	8.02		6.99		8.55		6.86	6.28		5.85		6.75

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, 1941-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.13	3.69	2.03	2.15	2.31	3.00	2.38	....	....	1.85	....	....
2	3.48	3.61	2.05	2.10	2.43	2.93	2.29	....	....	1.38	....	....
3	3.57	3.06	2.02	2.24	2.50	2.97	2.27	....	....	1.40	....	....
4	3.53	2.91	2.17	2.25	2.60	2.93	2.18	....	....	1.67	....	....
5	3.74	2.80	2.37	2.22	2.66	2.95	1.95	....	....	1.75	....	....
6	3.14	2.86	2.45	2.22	2.66	2.88	1.82	....	....	1.58	....	....
7	3.12	2.74	2.45	2.21	2.86	2.81	1.80	....	....	1.40	....	....
8	3.46	2.73	2.41	2.27	2.91	2.76	1.75	....	....	1.14	....	....
9	3.83	2.70	2.37	2.26	2.95	2.70	1.78	....	....	1.02	....	....
10	3.93	2.63	2.38	2.23	3.35	2.66	1.90	....	....	1.02	....	....
11	3.72	2.62	2.51	2.29	2.95	2.58	2.02	....	....	1.05	....	....
12	3.54	2.75	2.35	2.26	2.98	2.50	2.22	....	2.05	1.01	....	....
13	3.41	2.86	2.43	2.27	3.03	2.46	1.90	....	1.83	1.01	....	....
14	3.34	2.95	2.45	2.28	3.08	2.44	1.62	....	1.95	1.07	....	....
15	3.42	3.02	2.23	2.34	3.17	2.40	1.73	....	2.04	1.22	....	....
16	3.70	2.84	2.11	2.44	3.38	2.34	1.88	....	2.19	1.28	....	....
17	4.06	2.64	2.08	2.49	3.80	2.31	2.12	....	2.15	1.25	....	....
18	3.96	2.55	2.20	2.54	3.40	2.28	1.94	....	2.17	1.10	....	....
19	3.75	2.61	2.27	2.65	3.65	2.31	2.00	....	1.97	.94	....	2.32
20	3.54	2.36	2.24	2.67	3.45	2.34	1.90	....	1.57	.82	....	2.35
21	3.51	2.36	2.31	2.75	3.46	2.34	1.70	....	1.53	....	....	2.24
22	3.56	2.28	2.45	2.85	3.53	2.33	1.65	....	1.61	....	....	2.30
23	3.59	2.28	2.46	2.95	3.42	2.26	1.75	....	1.83	....	....	2.74
24	3.68	2.21	2.47	2.65	3.40	2.17	1.72	....	1.75	.87	....	3.00
25	3.95	2.24	2.41	2.47	3.32	2.20	1.41	....	1.63	.85	....	3.01
26	4.25	2.10	2.24	2.34	3.26	2.22	1.45	....	1.62	.85	....	2.77
27	4.12	2.08	2.21	2.26	3.31	2.38	1.30	....	1.64	.95	....	2.98
28	3.68	2.05	2.22	2.25	3.34	2.45	1.18	....	1.43	1.08	....	2.93
29	3.45	2.00	2.23	2.23	3.22	2.42	1.11	....	1.50	1.53	....	2.85
30	3.41		2.23	2.21	3.10	2.40	1.05	....	1.50	1.76	....	2.95
31	3.55		2.18		3.08		....	....		1.95		2.82

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: 1946-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.83	1.31	....	1.09	....	2.29	3.20	3.89	1.40	1.49	2.52	2.84
2	.87	1.23	....	1.11	....	2.33	2.62	3.27	1.50	1.57	2.60	2.86
3	.90	1.01	....	1.21	....	2.35	2.71	2.93	1.56	1.66	2.60	2.93
4	.91	1.11	....	1.19	....	2.06	2.82	2.94	1.51	1.71	2.65	2.92
5	.92	1.20	....	1.12	....	1.80	2.91	3.00	1.36	1.74	2.68	2.90
6	.98	1.27	....	1.23	....	1.90	2.87	2.70	1.40	1.78	2.70	....
7	1.06	1.21	....	1.30	....	2.00	2.93	2.19	1.48	1.66	2.75	....
8	1.07	1.25	....	1.34	....	2.09	3.01	2.10	1.53	1.56	2.78	....
9	1.09	1.28	....	1.39	....	2.09	3.08	2.10	1.77	....	2.80	....
10	1.12	1.31	....	1.42	....	2.19	3.15	2.14	2.02	....	2.80	....
11	e1.20	1.32	....	....	....	2.28	3.23	2.08	1.72	....	2.78	....
12	1.20	1.37	....	....	....	2.35	3.30	2.08	1.67	....	2.70	....
13	1.21	1.40	....	....	....	2.49	3.36	2.13	1.70	....	2.73	....
14	1.23	1.43	....	....	....	2.54	3.41	2.20	1.77	....	2.78	....
15	1.27	1.17	....	....	....	2.51	3.49	2.04	1.84	....	2.80	....
16	1.29	....	....	....	....	2.58	3.52	1.76	1.87	....	2.87	....
17	1.30	....	....	....	....	2.62	3.38	1.43	1.95	....	2.89	....
18	1.32	....	....	....	....	2.71	3.22	1.39	1.99	....	2.90	....
19	1.33	....	....	....	....	2.78	3.22	1.15	1.89	....	2.85	....
20	1.34	....	....	....	....	2.84	3.30	1.10	1.84	....	2.40	....
21	1.38	....	....	....	....	2.91	3.33	.98	1.58	....	2.38	....
22	1.39	....	....	....	....	2.86	3.40	.78	1.08	....	2.47	....
23	1.36	....	....	....	....	2.68	3.50	.90	1.08	....	2.50	....
24	1.30	....	....	....	....	2.77	3.60	.90	1.18	....	2.57	....
25	1.33	....	....	....	....	2.79	3.66	.95	1.17	....	2.60	....
26	1.36	....	....	....	....	2.88	3.69	....	1.21	....	2.63	....
27	1.37	....	....	....	....	2.83	3.70	....	1.31	....	2.69	....
28	1.20	....	....	....	2.59	2.57	3.75	....	1.38	2.37	2.75	....
29	1.15	....	....	....	2.60	2.61	3.80	....	1.38	2.47	2.78	....
30	1.28	....	....	....	2.58	2.67	3.85	1.20	1.47	2.50	2.80	....
31	1.31	....	....	....	2.40	....	3.87	1.33	....	2.50	....	....

e Estimated.

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: 1947-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.47	7.58	5.62	6.69	7.59	8.68	9.53	10.44	6.92	6.91	8.48	9.36
2	6.49	7.58	5.65	6.69	7.65	8.71	9.55	10.27	6.99	6.99	8.52	9.39
3	6.52	7.53	5.73	6.74	7.67	8.77	9.58	10.03	7.12	7.09	8.57	9.41
4	6.55	7.52	5.76	6.80	7.75	8.77	9.60	9.98	7.15	7.17	8.62	9.45
5	6.58	7.54	5.79	6.80	7.80	8.77	9.64	9.98	6.90	7.23	8.65	9.44
6	6.62	7.58	5.84	6.81	7.86	8.80	9.65	9.88	6.82	7.28	8.70	9.43
7	6.69	7.62	5.88	6.88	7.93	8.84	9.69	9.52	6.83	7.34	8.74	9.46
8	6.76	7.68	5.95	6.95	7.98	8.89	9.72	9.28	6.88	7.35	8.76	9.48
9	6.86	7.70	5.99	6.98	8.03	8.95	9.76	9.16	7.06	7.40	8.74	9.52
10	6.96	7.71	6.02	7.04	8.08	8.98	9.79	9.05	7.21	7.46	8.83	9.54
11	7.05	7.74	6.02	7.06	8.10	9.02	9.84	8.95	7.20	7.51	8.88	9.57
12	7.09	7.77	6.04	7.12	8.15	....	9.88	8.90	7.22	7.55	8.91	9.62
13	7.12	7.78	6.06	7.01	8.20	....	9.90	8.84	7.27	7.59	8.92	9.65
14	7.15	7.80	6.15	6.80	8.24	....	9.95	8.75	7.32	7.64	8.92	9.65
15	7.17	7.80	6.19	6.77	8.30	....	9.99	8.64	7.37	7.67	8.95	9.67
16	7.26	7.28	6.23	6.78	8.35	....	10.03	8.50	7.42	7.71	8.98	9.71
17	7.30	6.25	6.26	6.84	8.39	....	10.05	8.20	7.47	7.75	9.02	9.76
18	7.33	6.03	6.32	6.91	8.42	....	10.04	7.95	7.52	7.80	9.05	9.81
19	7.37	5.98	6.40	6.99	8.47	....	10.04	7.70	7.55	7.83	9.07	9.85
20	7.40	5.94	6.45	7.05	8.50	....	10.06	7.50	7.58	7.87	9.02	9.87

36--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.44	5.91	6.50	7.11	8.54	....	10.06	7.27	7.56	7.93	9.01	9.89
2	7.48	5.91	6.53	7.18	8.57	9.27	10.12	6.96	7.27	7.97	9.04	9.92
3	7.50	5.85	6.56	7.24	8.61	9.30	10.18	6.76	6.92	8.01	9.07	9.93
4	7.52	5.78	6.55	7.27	8.65	9.33	10.23	6.66	6.75	8.05	9.10	9.93
5	7.53	5.75	6.51	7.30	8.69	9.36	10.26	6.62	6.68	8.10	9.15	9.95
6	7.56	5.65	6.51	7.34	8.68	9.41	10.26	6.61	6.66	8.14	9.20	9.97
7	7.58	5.63	6.52	7.35	8.62	9.45	10.31	6.63	6.69	8.20	9.24	9.99
8	7.58	5.61	6.56	7.41	8.63	9.48	10.35	6.68	6.74	8.28	9.27	10.01
9	7.54	5.60	6.61	7.49	8.71	9.48	10.39	6.69	6.79	8.35	9.30	10.04
10	7.53	....	6.64	7.54	8.72	9.50	10.43	6.75	6.84	8.40	9.33	10.06
11	7.56	....	6.70	....	8.68	....	10.44	6.83	....	8.43	....	10.08

Volusia County

23. City of Daytona Beach. Beach St. and Live Oak Ave. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, reported depth 190 feet, cased to 84. Highest water level 2.93 above lsd, Oct. 14, 1949; lowest 1.12 below lsd, July 27, 1951. Records available: 1947-52. Feb. 14, +1.80. Measurement discontinued.

24. City of New Smyrna. In city well field. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 190 feet, cased to 78. Land-surface datum is 17.70 feet above msl. Highest water level 3.15 below lsd, Oct. 27, 1949; lowest 16.75 below lsd, July 3, 1952. Records available: 1948-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.34	....	6.50	6.76	13.03	....	11.53	....	7.21	6.52	5.68	4.91
2	11.55	....	7.92	8.11	6.78	....	11.53	....	7.08	5.00	5.71	5.87
3	11.53	....	7.86	8.17	13.17	....	11.31	....	7.49	4.91	5.65	4.98
4	11.53	....	7.85	8.20	13.22	....	10.83	....	7.14	5.06	5.87	5.01
5	11.54	....	8.06	8.20	13.26	....	11.07	....	7.00	6.29	5.77	6.22
6	11.45	....	8.00	8.28	13.28	11.78	11.01	....	6.77	6.17	5.84	6.00
7	12.38	....	7.99	8.37	12.81	11.50	10.55	....	6.78	6.02	5.82	5.95
8	12.36	....	8.02	8.39	....	11.55	10.47	....	6.58	5.99	5.76	5.91
9	11.56	....	7.98	8.39	....	11.02	11.22	....	6.57	5.92	5.87	6.07
10	11.52	....	7.95	8.44	....	11.05	10.45	....	6.40	6.07	5.84	5.30
11	11.70	....	7.95	8.44	....	11.64	10.70	....	6.50	6.03	4.89	6.21
12	11.89	....	8.01	8.45	....	11.53	10.48	....	6.54	6.02	5.75	4.87
13	12.60	....	4.40	8.35	....	10.68	10.45	....	6.58	5.91	5.58	6.20
14	11.70	....	8.00	8.33	....	10.48	10.68	....	6.48	5.91	5.75	5.11
15	11.71	8.25	8.06	12.81	....	11.65	10.36	....	6.52	5.99	5.08	5.91
16	....	8.07	8.12	12.84	....	10.68	10.74	....	6.40	5.73	5.75	6.02
17	....	8.00	8.18	12.87	....	13.27	11.03	....	6.95	5.34	5.25	6.09
18	....	8.10	8.20	12.92	....	13.36	7.94	....	6.93	6.05	5.34	6.18
19	....	8.09	8.20	12.92	....	13.31	13.81	....	6.94	5.53	6.01	6.32
20	....	8.04	8.29	12.93	....	13.29	8.31	....	6.72	5.05	5.64	6.31
21	....	8.05	8.31	12.83	....	13.27	8.00	....	6.57	6.00	5.60	6.01
22	....	8.09	8.30	12.45	....	11.58	13.31	....	6.32	5.49	5.68	6.05
23	....	7.94	8.30	12.37	....	13.27	8.81	....	6.60	5.44	5.79	6.11
24	....	7.92	8.34	12.92	....	11.58	13.36	....	6.97	5.82	5.70	6.15
25	....	7.93	8.34	12.36	....	11.56	....	....	6.28	5.49	5.87	5.25
26	....	7.78	5.22	12.87	....	11.54	....	....	6.50	5.55	4.69	5.30
27	....	7.79	7.99	12.84	....	11.53	....	....	6.21	5.35	6.00	6.08
28	....	7.86	8.16	12.29	....	11.53	....	....	6.45	5.83	4.76	6.10
29	....	7.84	8.21	12.91	....	11.99	....	....	6.15	6.04	5.83	6.03
30	....	....	8.24	12.97	....	11.53	....	7.30	6.10	5.76	5.91	5.64
31	....	....	8.21	....	....	....	....	6.99	....	5.63	....	6.04

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.61	....	11.76	8.21	13.15	....	13.75	....	13.01	12.03	11.84	8.95
2	13.50	....	8.05	8.18	13.19	....	13.78	....	13.08	12.15	11.76	12.00
3	13.45	....	8.94	8.23	13.27	....	16.75	....	13.20	11.95	11.87	9.11
4	13.40	....	12.13	8.23	13.31	....	16.54	....	12.94	11.96	11.90	9.10
5	13.84	....	12.38	8.28	13.34	....	16.65	....	12.81	12.28	11.93	12.20

24--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	13.27	....	8.20	8.38	13.40	....	16.66	....	12.7 ⁷	....	11.90	12.15
7	12.81	....	13.72	8.40	16.02	....	16.60	....	12.6 ⁷	11.95	11.89	12.12
8	12.70	....	12.13	8.42	....	....	16.60	....	12.60	11.81	11.97	12.22
9	13.63	....	8.15	8.46	....	....	16.60	....	12.5 ⁹	12.02	12.00	12.04
10	13.57	....	13.98	8.49	....	....	16.42	....	12.3 ⁷	12.10	12.04	9.70
11	13.67	....	14.28	10.30	....	14.12	16.57	....	12.4 ⁵	12.01	8.94	12.36
12	13.80	....	14.24	8.48	....	14.01	16.57	....	12.4 ⁵	12.01	11.75	12.30
13	12.88	....	9.24	8.45	....	16.62	16.35	....	12.5 ⁷	12.01	10.62	12.38
14	13.71	....	8.12	13.75	....	16.51	16.49	....	12.4 ⁵	12.04	11.70	11.80
15	13.68	12.62	8.12	12.90	....	16.60	16.46	....	12.6 ⁷	11.94	8.69	12.15
16	....	8.28	8.17	12.93	....	15.00	16.55	....	12.5 ³	11.10	12.00	12.30
17	....	11.80	8.21	12.99	....	13.43	13.80	....	12.6 ²	9.10	9.03	12.40
18	....	8.23	8.25	12.99	....	....	15.10	....	12.81	11.93	8.95	12.47
19	....	8.24	8.30	13.00	....	13.41	14.01	....	12.8 ³	11.83	11.95	12.45
20	....	8.20	8.34	13.01	....	13.36	13.90	....	12.7 ⁷	9.61	11.75	12.26
21	....	8.21	13.57	13.03	....	13.31	15.65	....	12.4 ⁷	11.51	11.80	12.25
22	....	8.21	8.35	14.39	....	....	15.65	....	12.3 ⁷	11.31	11.95	12.31
23	....	8.14	8.35	14.48	....	13.39	15.70	....	12.5 ⁵	11.00	11.68	....
24	....	8.06	13.87	13.00	....	13.96	16.07	....	12.2 ⁰	11.63	12.09	12.68
25	....	8.08	10.14	14.35	....	13.89	....	....	12.16	11.62	11.71	11.81
26	....	8.01	13.70	13.00	....	13.72	....	....	12.4 ²	11.22	8.87	8.72
27	....	7.99	8.18	12.93	....	13.88	....	....	12.33	11.39	....	12.37
28	....	7.99	8.22	13.69	....	13.89	....	....	11.73	11.70	8.82	12.19
29	....	8.77	8.28	13.03	....	13.89	....	....	12.6 ⁵	11.82	11.65	11.18
30	....	....	8.27	13.09	....	13.89	....	12.75	10.9 ⁷	11.80	11.99	8.51
31	....	....	8.26	....	....	....	....	12.80	....	11.90	....	12.30

25. City of Daytona Beach. Fairview Ave. and Beach St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 225 feet, cased to 86. Land-surface datum is 7.71 feet above msl. Highest water level 3.15 above lsd, Oct. 11, 1948; lowest 3.28 below lsd, July 22, 1952. Records available: 1948-52.

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	+2.07	+1.80	+1.68	+1.56	+1.40	+1.93	-2.13	-2.70	+0.8 ⁶	+1.87	+2.29	+1.91
2	2.21	1.95	2.14	1.56	1.30	1.74	1.90	1.42	.91	2.07	2.36	1.79
3	2.17	2.24	1.38	1.35	1.20	1.53	1.98	.70	1.0 ⁰	2.05	2.08	1.80
4	2.20	2.26	1.61	1.35	1.28	1.23	.51	.65	1.2 ⁶	2.10	1.85	1.97
5	2.30	2.16	1.75	1.49	1.17	.90	-.06	1.20	1.4 ⁰	2.18	2.13	1.94
6	2.29	2.02	1.05	1.67	.93	.65	+1.10	1.22	1.7 ⁰	2.23	2.23	2.06
7	2.10	1.90	1.72	1.61	.65	.55	-1.00	1.27	1.8 ⁰	2.15	2.17	2.14
8	2.20	1.73	1.85	1.25	.50	.55	1.60	1.58	1.7 ⁰	2.30	2.13	1.96
9	2.18	1.79	1.96	1.14	.50	.50	1.65	1.52	1.4 ⁰	2.45	2.18	1.64
10	2.55	1.98	1.99	1.14	.54	+.23	1.15	.50	1.6 ⁵	2.40	1.92	1.73
11	2.25	1.80	1.88	1.31	.86	-.30	1.10	.73	2.0 ⁰	2.52	1.53	1.65
12	1.85	1.50	1.85	1.36	1.25	1.15	.63	1.30	1.63	2.20	1.60	1.00
13	2.12	1.42	1.81	1.52	1.18	1.37	.04	1.57	1.72	2.44	1.80	1.10
14	2.08	1.38	1.77	1.61	.85	-.10	.70	1.98	1.92	2.40	1.65	1.84
15	1.45	1.35	1.94	1.40	.76	+.59	1.65	2.06	1.80	2.30	1.70	1.38
16	1.72	1.83	2.36	1.42	.40	.00	2.00	1.50	1.50	2.37	1.92	.60
17	1.73	2.18	1.96	1.44	.43	-1.10	2.08	1.25	1.44	2.38	1.90	.49
18	1.74	1.75	1.71	1.30	....	1.31	2.16	1.23	1.23	2.40	1.68	.81
19	1.83	1.75	1.57	1.08	1.10	1.00	2.25	1.54	1.10	2.64	1.60	1.26
20	1.97	1.85	1.34	1.14	1.31	.90	1.27	1.40	1.23	2.70	1.70	1.46
21	1.95	1.88	1.13	1.30	1.36	-.18	1.63	1.40	1.33	2.89	1.75	1.93
22	1.94	1.65	1.24	.94	1.45	+.08	2.50	1.85	1.75	2.88	1.85	2.00
23	1.95	....	1.49	.75	1.50	-.70	2.68	1.87	1.95	2.77	2.07	1.45
24	1.98	....	1.05	.79	1.50	1.45	3.00	1.45	2.21	2.70	2.15	1.40
25	1.98	....	1.47	....	1.59	1.50	3.02	.65	2.30	2.64	1.87	1.62
26	1.90	2.32	1.87	1.47	1.59	2.10	3.04	.67	2.36	2.77	1.75	1.90
27	1.80	2.18	2.02	1.99	1.51	2.30	2.45	.63	2.46	2.67	1.90	1.89
28	1.60	1.63	1.75	2.00	1.64	1.50	1.70	.85	2.54	2.37	1.87	2.12
29	1.50	1.17	1.78	1.80	1.70	.92	2.36	1.00	2.57	1.52	1.90	1.13
30	1.48	....	2.08	1.60	1.75	1.50	2.50	-.85	2.10	2.14	2.05	1.23
31	1.55	....	1.65	....	1.87	....	2.59	+.27	....	2.40	....	1.41

27. City of Daytona Beach. Orange Ave. and South Caroline St. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 219 feet. Highest water level 3.70 above lsd, Oct. 17, 1949; lowest 1.31 below lsd, June 27, 1950. Records available: 1948-52.

Daily highest water level, above lsd, from recorder graph*

Day	Feb.	Mar.	Apr.	Sept.	Oct.	Nov.	D?c.
1	....	2.96	2.61	....	....	3.02	2.95
2	....	2.71	2.46	....	....	2.97	2.68
3	....	2.99	1.75	....	....	3.00	2.81
4	....	....	2.43	....	....	....	2.81
5	....	....	2.64	....	....	....	1.32
6	....	2.59	1.90	....	....	....	2.87
7	....	2.49	2.71	....	....	....	2.83
8	....	2.58	2.25	....	....	....	....
9	....	....	1.11	....	....	....	....
10	....	2.57	.95	....	....	....	....
11	....	....	1.07	....	....	....	....
12	....	2.82	1.20	....	....	....	....
13	....	1.70	1.66	....	....	....	....
14	....	2.75	2.70	....	....	....	....
15	2.00	1.72	....	2.70	....	....	....
16	2.74	2.83	....	2.41	....	....	....
17	2.94	....	....	2.40	....	....	....
18	2.99	1.66	....	2.26	....	....	....
19	2.63	....	....	2.28	....	....	2.11
20	2.58	1.15	....	2.37	....	....	2.15
21	2.67	1.23	....	2.38	....	....	2.59
22	2.75	1.29	....	....	....	....	2.80
23	2.76	1.17	....	....	....	2.90	2.48
24	3.06	....	....	....	....	2.98	2.37
25	3.11	2.24	....	....	....	2.85	2.35
26	3.11	2.70	....	....	....	2.62	2.76
27	3.18	2.96	....	....	....	2.75	2.58
28	2.97	1.48	....	....	....	2.93	2.62
29	2.90	2.80	....	....	....	2.82	2.79
30	....	2.80	....	....	....	2.80	2.18
31	....	e2.95	....	....	2.99	....	2.39

* No record for January, May, June, July, and August.

e Estimated.

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

Day	Feb.	Mar.	Apr.	Sept.	Oct.	Nov.	D?c.
1	....	....	+0.98	....	+0.93	+1.46	+0.64
2	....	+1.29	.93	....	1.36	1.49	1.14
3	....	....	.44	....	1.26	....	.97
4	....	.80	.75	....	1.32	....	1.22
5	....	.80	1.14	....	1.45	....	1.12
6	....	.34	1.16	....	1.44	....	1.41
7	....	.77	.58	....	1.49	....	1.45
8	....	....	....	....	1.58	....	+ .60
9	....	1.04	.28	....	1.53	....	....
10	....	1.47	.75	....	1.50	....	....
11	....	1.28	.75	....	1.61	....	....
12	....	....	.95	....	.90	....	....
13	....	1.09	1.05	+1.10	1.44	....	....
14	....	1.37	....	1.19	1.44	....	....
15	+0.52	1.38	....	.40	1.42	....	....
16	....	....	....	.58	1.57	....	....
17	1.54	1.03	....	.44	1.48	....	....
18	.67	.98	....	.35	1.65	....	- .10
19	....	....	....	.34	1.78	....	+ .14
20	.80	....	....	.49	1.77	....	.38
21	.82	....	....	.83	1.80	....	1.27
22	.72	.47	....	1.19	1.74	.72	.34
23	1.04	....	....	1.27	1.73	1.43	.35
24	1.69	.00	....	1.45	1.68	.69	.28
25	1.07	....	....	1.42	1.70	.69	.78

27--Continued.

Day	Feb.	Mar.	Apr.	Sept.	Oct.	Nov.	Dec.
26	+1.14	....	....	+1.65	+1.74	+0.61	+0.45
27	.96	+1.13	....	1.64	1.07	1.35	.91
28	.93	....	....	1.90	.96	.58	+1.19
29	....	.82	....	1.68	.28	1.11	-1.10
30		1.23	....	.81	1.32	1.35	+2.23
31		.80			1.37		.35

* No record for January, May, June, July, and August.

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: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	15.75	Apr. 25	15.55	July 17	16.37	Oct. 10	15.28
Apr. 1	16.23	June 5	15.76	Aug. 30	15.75	Nov. 22	15.28

30. Herbert Cowart. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 14 S., R. 28 E. Drilled unused artesian well in Floridan aquifer, diameter 4 inches, reported depth 180 feet. Land-surface datum is 14.9 feet above msl. Highest water level 12.3 above lsd, Dec. 1941; lowest 6.7 above lsd, May 1948. Records available: 1936-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	11.0	Apr. 25	10.9	July 17	10.0	Oct. 10	11.2
Apr. 1	11.9	June 5	10.3	Aug. 30	10.6	Nov. 22	10.5

31. Florida State Road Dept. Alama. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 18 S., R. 32 E. Drilled unused artesian well in Floridan aquifer, diameter 6 inches, depth 113 feet. Land-surface datum is 35.9 feet above msl. Highest water level 3.80 below lsd, Sept. 1945; lowest 8.07 below lsd, Aug. 8, 1950. Records available: 1936-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.14	5.76	4.81	5.01	5.86	6.03	6.60	7.24	6.16	4.68	4.72	5.23
2	5.16	5.68	4.87	5.02	5.91	5.93	6.67	e7.23	6.12	4.71	4.76	5.24
3	5.19	5.55	4.90	5.07	5.96	5.88	6.73	7.17	6.01	4.77	4.80	5.26
4	5.20	5.53	4.93	5.09	6.00	5.87	6.75	7.15	5.92	4.83	4.83	5.28
5	5.21	5.50	5.00	5.13	6.05	5.88	6.73	7.15	5.85	4.85	4.87	5.28
6	5.20	5.52	5.05	5.22	6.10	5.93	6.72	7.09	5.72	4.88	4.90	5.32
7	5.28	5.49	5.08	5.28	6.15	5.97	6.71	7.05	5.67	4.87	4.97	5.36
8	5.31	5.51	5.12	5.32	6.19	6.02	6.70	7.04	5.59	4.83	5.03	5.38
9	5.33	5.50	5.16	5.38	6.23	6.07	6.70	7.03	5.51	4.82	5.05	5.39
10	5.37	5.49	5.17	....	6.27	6.11	6.65	6.98	5.44	4.85	5.05	5.38
11	5.45	5.49	5.16	....	6.31	6.14	6.56	6.90	5.37	4.88	5.06	5.42
12	5.48	5.50	5.20	....	6.48	6.17	6.63	....	5.36	4.89	5.09	5.47
13	5.48	5.52	5.20	....	6.44	6.18	6.50	....	5.35	4.88	5.12	5.48
14	5.47	5.55	5.22	....	6.50	6.15	6.45	....	5.34	4.84	5.14	5.47
15	5.50	5.56	5.22	....	6.50	6.15	6.43	....	5.35	4.82	5.16	5.47
16	5.51	5.42	5.26	....	6.58	6.16	6.45	6.81	5.36	4.82	5.19	5.50
17	5.54	5.27	5.32	....	6.62	6.21	6.48	6.69	5.36	4.84	5.23	5.51
18	5.56	5.24	5.35	....	6.65	6.27	6.54	6.62	5.44	4.84	5.25	5.52
19	5.58	5.18	5.37	....	6.68	6.34	6.58	6.56	5.46	4.79	5.23	5.53
20	5.59	5.13	5.42	....	6.63	6.37	6.62	6.40	5.52	4.60	5.14	5.54
21	5.61	5.10	5.46	....	6.57	6.36	6.68	6.31	5.52	4.47	5.06	5.53
22	5.62	5.11	5.48	....	6.53	6.36	6.70	6.26	e5.47	4.39	5.06	5.55
23	5.68	5.06	5.50	....	6.46	6.38	6.75	6.25	e5.34	4.35	5.08	5.58
24	5.74	4.98	5.53	....	6.37	6.39	6.80	6.23	e5.17	4.32	5.10	5.62
25	5.75	4.96	5.54	....	6.30	6.39	6.86	6.16	5.05	4.34	5.10	5.65
26	5.75	4.83	5.35	5.68	6.24	6.41	6.94	6.11	4.96	4.40	5.10	5.66
27	5.74	4.78	5.18	5.66	6.23	6.43	6.99	6.08	4.85	4.44	5.12	5.67
28	5.68	4.81	5.09	5.69	6.24	6.47	7.03	6.09	4.80	4.48	5.16	5.68
29	5.67	4.80	5.05	5.73	6.22	6.53	7.07	6.10	4.72	4.58	5.18	5.69
30	5.74		5.05	5.79	6.17	6.56	7.13	6.11	4.68	4.66	5.20	5.68
31	5.78		5.04		6.15		7.20	6.13		4.70		5.65

e Estimated.

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

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: 1946-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.32	1.61	1.65	2.28	2.52	....	....	2.63	1.68	1.97	2.52	2.78
2	1.43	1.13	1.54	....	2.48	....	2.75	2.32	1.60	1.88	2.42	2.30
3	1.43	.91	1.30	....	2.45	....	2.75	2.25	1.65	2.07	2.70	2.37
4	1.49	1.11	1.69	....	2.53	....	2.64	2.20	1.74	2.12	2.80	2.42
5	1.40	1.47	1.78	....	2.64	....	2.56	2.16	1.70	2.02	2.60	2.40
6	1.62	1.68	1.80	....	2.65	....	2.45	2.05	1.75	1.97	2.52	2.70
7	1.97	1.67	1.83	....	2.61	....	2.50	1.80	1.80	1.93	2.71	2.43
8	1.62	1.73	1.65	....	2.59	....	2.48	1.68	1.83	1.81	2.77	2.20
9	1.36	1.50	1.19	....	2.50	....	2.42	1.75	2.08	2.04	2.60	2.13
10	1.55	1.55	....	....	2.25	....	2.52	1.85	2.18	2.30	2.32	1.96
11	2.00	1.47	....	....	2.02	....	2.57	1.94	2.13	2.35	2.45	2.85
12	1.63	1.46	....	....	2.72	....	2.62	1.87	1.68	2.36	2.78	2.63
13	1.63	1.35	....	2.35	2.76	....	2.54	1.93	1.58	2.32	2.72	2.47
14	1.45	1.26	....	2.38	2.76	....	2.32	1.98	1.60	2.25	2.62	2.60
15	1.38	1.16	....	2.63	2.56	....	2.13	1.96	1.55	2.07	2.58	3.00
16	1.44	.91	....	2.60	2.39	....	2.19	1.86	1.52	2.12	2.68	3.00
17	1.51	1.32	....	2.47	2.39	....	2.31	1.92	1.47	2.22	2.70	2.87
18	1.43	1.51	....	2.54	2.34	....	2.41	1.89	1.37	2.27	2.50	2.55
19	1.45	1.40	....	2.43	2.25	....	2.52	1.88	1.17	2.29	2.10	2.58
20	1.42	1.35	....	2.28	2.09	....	2.60	1.95	1.40	2.34	2.25	2.25
21	1.48	1.68	....	2.23	2.04	....	2.55	1.87	1.44	3.17	2.82	2.57
22	1.26	1.65	1.51	2.18	2.10	....	2.62	1.85	1.38	3.13	2.80	2.40
23	1.55	1.40	1.35	2.10	....	....	2.60	1.75	1.65	2.88	2.70	2.34
24	1.88	1.41	1.42	1.76	....	....	2.62	1.80	1.85	2.83	2.60	2.43
25	1.72	1.44	1.63	1.69	....	....	2.60	1.85	1.89	2.85	2.37	2.46
26	1.55	1.23	1.70	1.78	....	....	2.66	2.03	1.88	2.78	2.25	2.58
27	1.40	1.94	1.67	2.31	....	....	2.68	2.10	2.00	2.83	2.65	2.75
28	1.11	1.56	1.70	2.55	....	....	2.61	1.88	1.98	2.65	3.12	2.77
29	1.75	1.37	2.02	2.52	....	....	2.62	1.44	2.14	3.15	2.80	2.80
30	1.84	....	2.27	2.52	....	....	....	1.55	2.13	2.95	2.83	2.40
31	1.75	....	2.35	....	....	....	2.60	1.63	....	2.73	....	1.88

11. U. S. Dept. of Interior. Near Panacea on Ochlocknee Bay. 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 4.00 below lsd, Mar. 7, 1949. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	6.29	Apr. 18	7.99	Aug. 12	7.40	Nov. 3	8.38
Mar. 21	7.35	May 23	7.61	Sept. 25	7.23	Dec. 18	7.63

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 6.4 above lsd, July 16, 1952. Records available: 1947-52.

Jan. 30	+8.0	Apr. 19	+9.0	July 16	+6.4	Oct. 10	+7.1
Mar. 20	+8.7	June 3	+8.5	Aug. 21	+7.5	Nov. 18	+6.25

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, 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 13.3 above lsd, July 16, 1952. Records available: 1946-52. Jan. 30, +14.5; Mar. 20, +14.8; Apr. 19, +14.9; June 3, +13.5; July 16, +13.3; Aug. 21, +13.8; Oct. 10, +14.2.

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: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	+10.8	Apr. 19	+10.8	July 16	+9.4	Oct. 10	+10.4
Mar. 20	+10.9	June 3	+11.1	Aug. 21	+9.7	Nov. 18	+9.9

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: 1947-52. Jan. 30, +28.6; Mar. 20, +29.3; Apr. 19, +29.3; June 3, +30.0; July 16, +27.7; Aug. 21, +28.1; Nov. 18, +28.1.

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: 1946-52.

Jan. 28	15.00	Apr. 23	11.13	July 20	14.35	Oct. 14	16.86
Mar. 18	14.05	June 7	12.29	Aug. 26	14.30	Nov. 23	17.98

GEORGIA

By R. L. Wait and S. M. Herrick

Scope of Water-Level Program

The observation-well program in Georgia, begun in 1938, in cooperation with the State Department of Mines, Mining and Geology, was continued in 1952. In 1938 the program covered three counties - Chatham, Dougherty, and Glynn. In 1952 it included 27 counties, 6 of which are in the northern part of the State. In 1952 recording gages were maintained on 4 wells during the entire year. Figures 14, 15, and 16 show the location of observation wells. The publication of data for observation wells for which measurements have been published in previous annual water-level reports and for which no measurements appear in this report has been discontinued in the annual water-level reports. They may be published in project reports or special reports from time to time.

Precipitation

In northern Georgia precipitation was spotty in 1952 - below normal in some areas and normal in others. Accordingly, water-table wells in this part of Georgia showed varying water levels at the close of 1952 as compared with December 1951 levels. Rainfall on the Coastal Plain was uniformly below normal during 1952. Consequently, water levels in water-table wells in southern Georgia were lower during 1952 as compared with 1951. With the exception of wells situated in recharge areas, artesian wells are not immediately affected by annual precipitation.

Pumpage

In coastal Georgia there are three areas in which water levels are notably affected by heavy pumping - Savannah, Brunswick, and St. Marys. Only in Savannah was an increase in annual withdrawal of ground water during 1952 recorded, the other two areas showing substantial decreases. In 1952 the total metered pumpage of the Savannah area, which is the combined pumpage of the Savannah municipal waterworks and the Union Bag and Paper Corporation, increased 2,212 acre-feet as compared with 1951. In Brunswick, total metered pumpage, which is the combined pumpage of the Peoples Water Service Company, Brunswick Pulp and Paper Company, and the Hercules Powder Company, decreased 3,116 acre-feet as compared with 1951. In the St. Marys area, metered pumpage by the St. Marys Kraft Corporation decreased 1,227 acre-feet as compared with 1951.

Interpretation of Water-Level Fluctuations

In northern Georgia, where water-table conditions prevail, water levels fluctuate from season to season with the precipitation. The water table stands highest in the months of April and May, when precipitation is greatest, and lowest in December and January, when precipitation is least. The range and frequency of the fluctuations also differ from well to well, the proximity of a well to a main drainage channel and its position in relation to the topography of the surrounding country determines, in large measure, the fluctuations of its water level. Year-end water levels in northern Georgia were variable owing to local variations in rainfall. Variations in water levels ranged from a maximum increase of 2.67 feet to a maximum decrease of 4.24 feet. Spalding County well 12, at the Georgia State Experiment Station, is a dug well, 31 feet deep. The year-end water level in this well was 0.68 foot higher in 1952 as compared with the corresponding water level in 1951. Normal rainfall during 1952 is doubtless the reason for this increase.

In the Coastal Plain, water levels at the close of 1952 were uniformly lower than during the previous December. In Savannah, the average decline for the industrial area as a whole was 2.89 feet. On Wilmington and Tybee Islands the average year-end decline during 1952 amounted to 0.58 foot. In the southern part of Chatham County, December water levels showed an average decline of 1.02 feet. In the northern and northwestern parts of this county year-end levels had declined approximately 1.74 and 1.23 feet, respectively. Increased pumping in the industrial area of Savannah is believed to be the cause of decreased water levels in wells situated in Chatham County. In the remainder of the Coastal Plain, observation wells showed uniformly lower year-end water levels. In Bryan and Liberty Counties, December water levels averaged

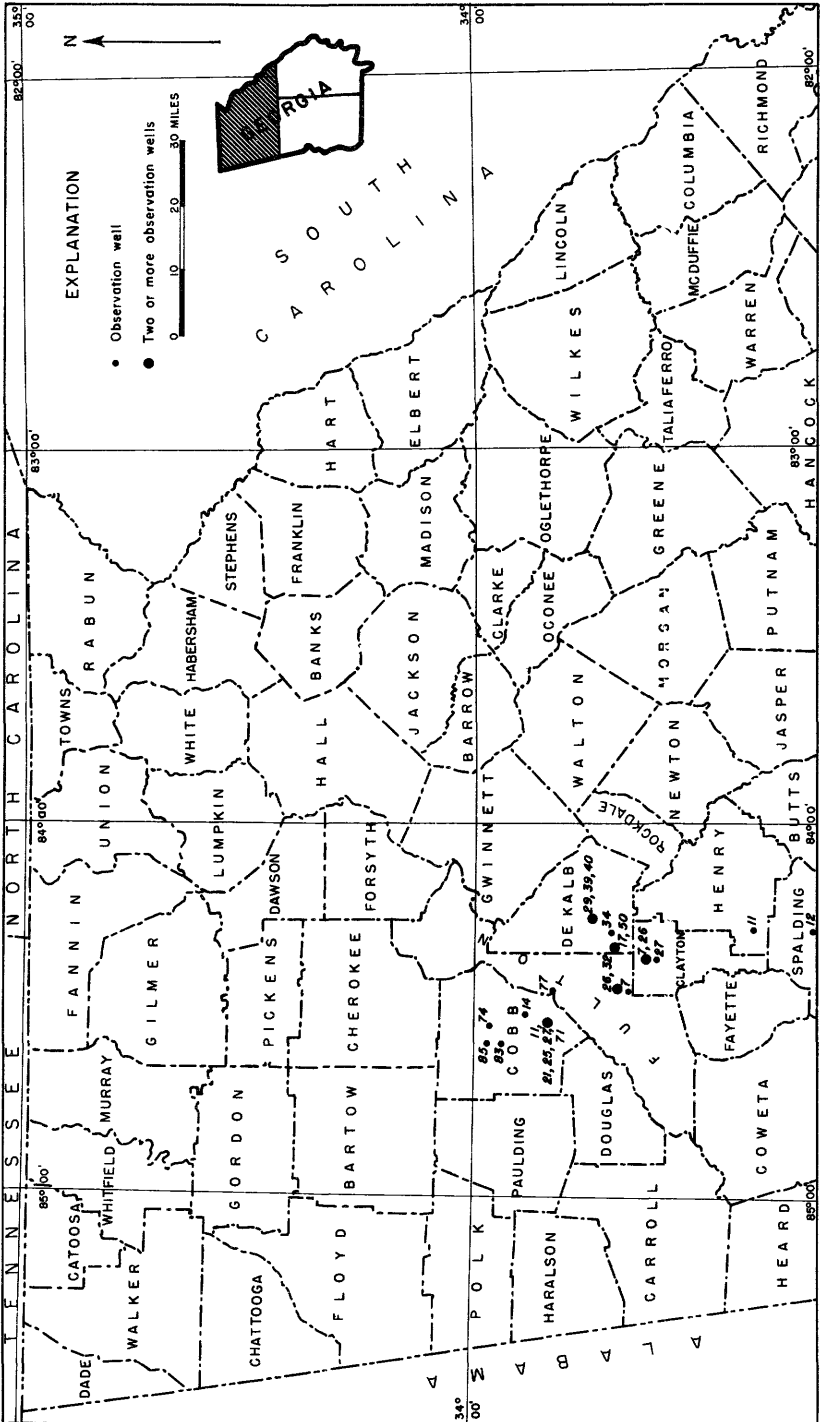


Figure 14. --Location of observation wells in northern Georgia, 1952.

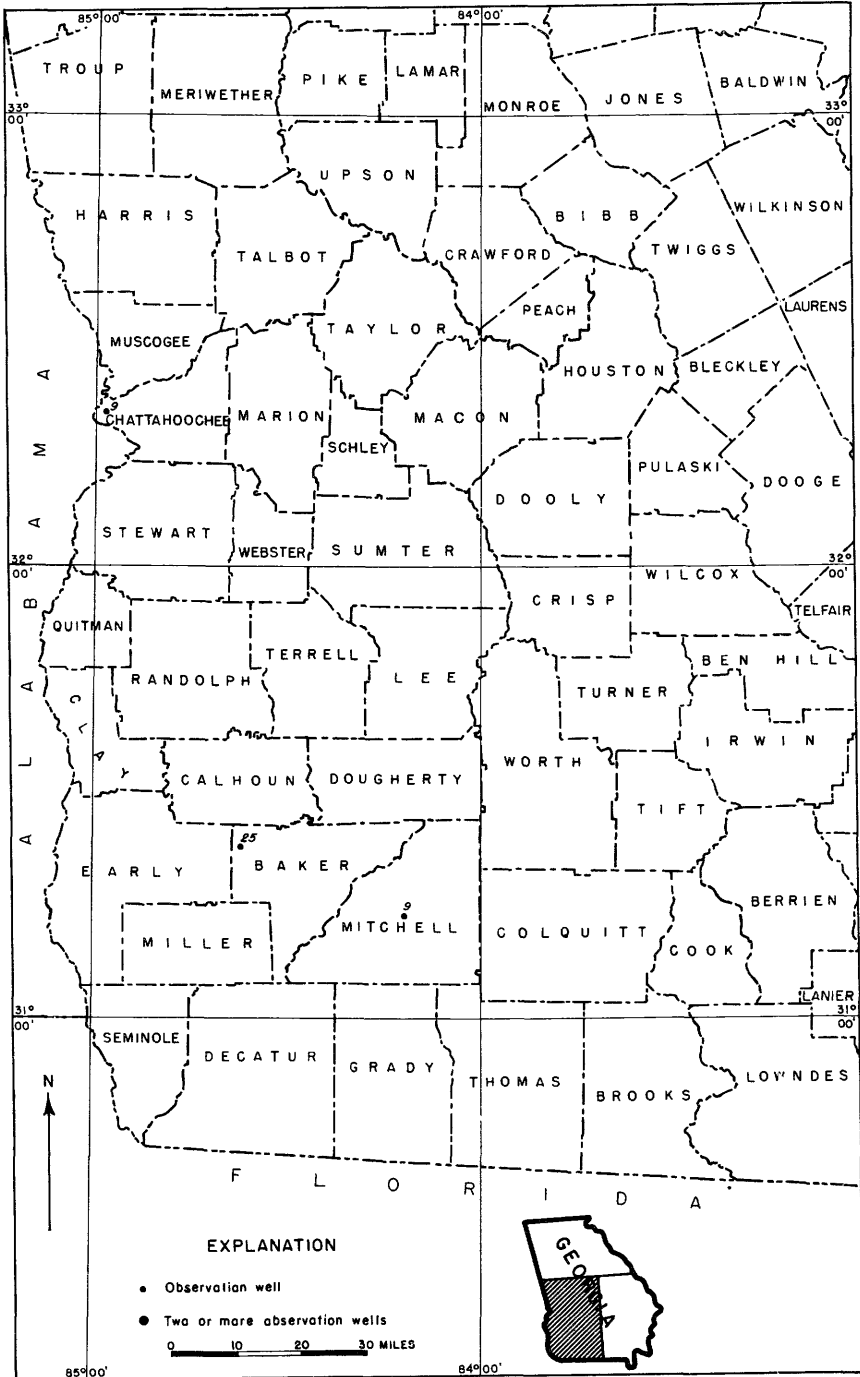


Figure 15. --Location of observation wells in southwestern Georgia, 1952.

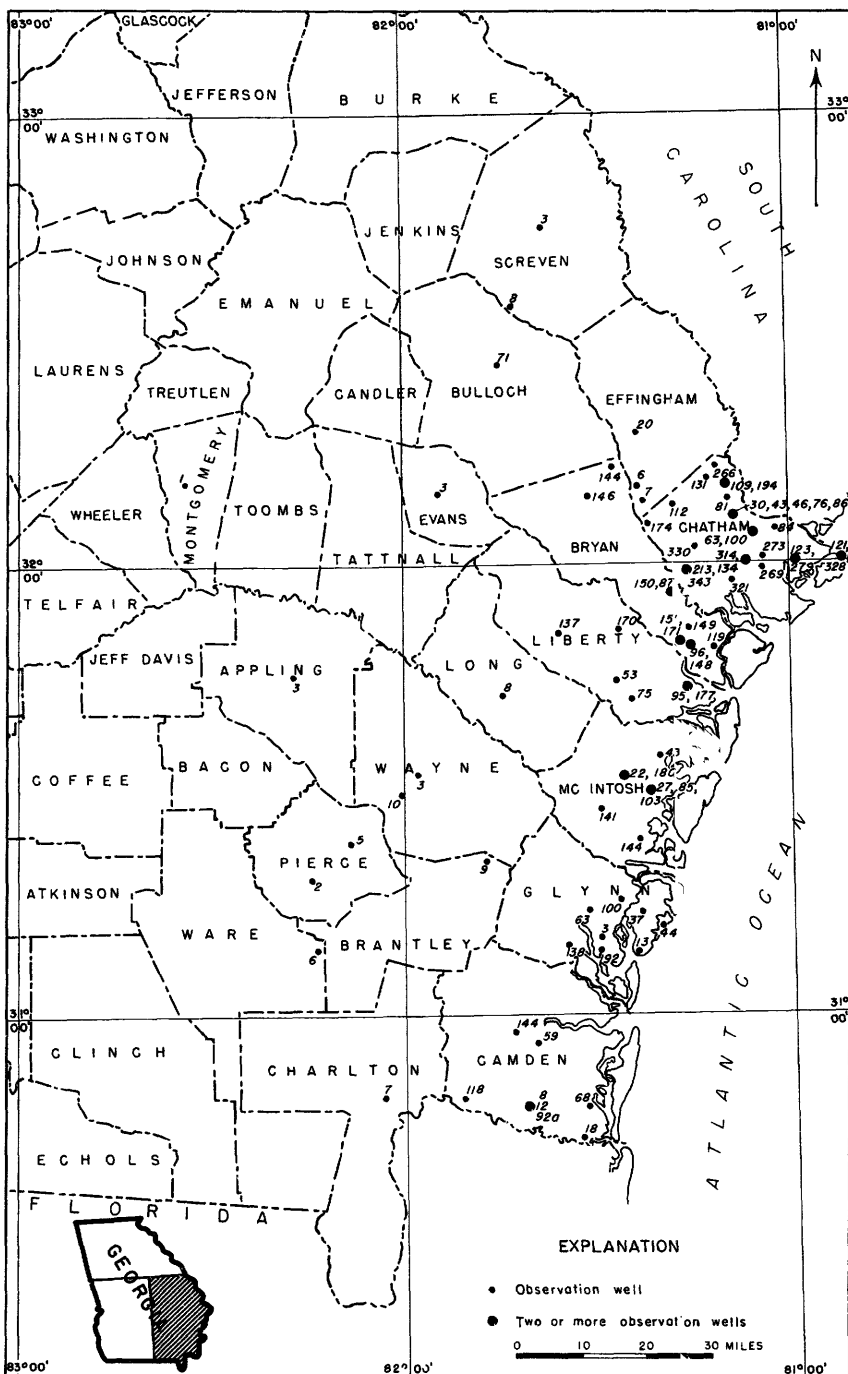


Figure 16. --Location of observation wells in southeastern Georgia, 1952.

1.12 feet and 0.85 foot, respectively, lower in 1952 as compared with 1951. In McIntosh, Glynn, and Camden Counties, average year-end water levels were down 0.76 foot, 0.72 foot, and 1.32 feet, respectively, as compared with December 1951. Glynn County well 3, in the city of Brunswick, showed an average decline of only 0.21 foot, as compared with 1951. As noted above, heavy industrial pumpage substantially declined during 1952 in both the Brunswick and St. Marys areas. It is believed, therefore, that the decline in water levels for Bryan, Liberty, McIntosh, Glynn, and Camden Counties was due to natural causes. Water levels in Appling, Brantley, Bulloch, Charlton, Effingham, Evans, Pierce, Screven, Ware, and Wayne Counties were lower in 1952 as compared with 1951, ranging from 0.15 foot to 1.5 feet lower. All these counties are outside areas of heavy pumping and declines are believed to be normal considering present conditions. The average year-end water level for Chatham County well 343, showed a decline of 5.56 feet in 1952 as compared with 1951, the result of decreased precipitation during 1952. The average water level in Baker County well 25 was down 1.69 feet in 1952 as compared with the average water level in 1951. Decreased precipitation during 1952 is believed to be the reason for the decline in water level.

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

Well-Numbering System

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

Well Descriptions and Water-Level Measurements

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

Appling County

3. Filtered Rosin Products Co. Near Baxley. Lat. 31°46'15", long. 82°19'54". Drilled industrial artesian well in Ocala limestone, diameter 8 inches, depth 625 feet, cased to 525 feet. Land-surface datum is 204 feet above msl. Highest water level 128.6 below lsd, Sept. 20 1946; lowest 132.89 below lsd, Dec. 9, 1952. Records available: 1940-52. May 4, 130.73; Dec. 9, 132.89.

Baker County

25. Emory University Field Station well 35. Atmos. 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: 1940-52.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Oct.	Dec.
1	11.89	13.74	5.49	6.86	10.96	12.17	15.11	.....	.....
2	11.79	13.39	5.68	7.09	11.12	12.16	15.20	.....	.....
3	11.76	12.79	5.92	7.35	11.28	12.16	15.39	.....	.....
4	11.76	12.18	6.16	7.49	.....	12.18	.....	.....	.....
5	11.80	11.43	6.33	7.71	.....	12.26	.....	.....	(f)
6	11.81	10.59	6.40	7.88	.....	12.38	.....	.....	.....
7	11.92	10.04	6.52	8.12	.....	12.50	.....	.....	.....
8	12.01	9.69	6.70	8.27	.....	12.61	.....	.....	.....
9	12.05	9.48	6.87	8.47	12.21	12.67	.....	.....	.....
10	12.16	9.33	6.02	8.62	12.20	12.86	.....	.....	.....
11	12.33	9.26	7.19	8.77	12.39	12.97	.....	.....	.....
12	12.45	9.26	7.38	8.93	12.42	13.11	.....	.....	.....
13	12.51	9.23	7.41	9.05	12.56	13.24	.....	.....	.....
14	12.56	9.22	7.52	9.19	12.64	13.37	.....	.....	.....
15	12.60	9.24	7.61	9.43	12.70	13.51	.....	.....	.....
16	12.68	7.38	7.79	9.56	12.75	13.65	.....	.....	.....
17	12.77	.....	7.88	9.67	12.77	13.77	.....	.....	.....
18	12.87	.....	7.96	9.67	12.79	13.82	.....	.....	.....
19	12.96	5.97	8.07	9.76	12.80	13.83	.....	.....	.....
20	13.08	.....	8.19	9.86	12.79	13.89	.....	.....	.....

25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Oct.	Dec.
21	13.20	6.32	8.29	9.97	12.82	13.96	.....	.....	.....
22	13.42	5.99	8.35	10.06	12.86	14.04	.....	.....	.....
23	13.55	5.94	8.39	10.16	12.86	14.14	.....	.....	.....
24	13.71	6.06	8.34	10.28	12.89	14.24	.....	.....	.....
25	13.82	6.10	5.66	10.37	12.91	14.35	.....	.....	.....
26	13.89	6.11	5.43	10.43	12.90	14.47	.....	.....	.....
27	13.95	5.71	5.64	10.51	12.72	14.59	.....	.....	.....
28	14.01	5.26	5.90	10.61	12.61	14.67	.....	.....	.....
29	14.01	5.27	6.18	10.67	12.54	14.84	.....	.....	.....
30	13.96		6.44	10.84	12.39	14.97	.....	17.59	.....
31	13.87		6.69		12.24		.....	.....	(f)

f Dry.

Brantley County

9. U. S. Government. Lat. $31^{\circ}14'51''$, long. $81^{\circ}47'26''$. 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 6.89 below lsd, July 30, 1951. Records available: 1941-43, 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	5.95	May 1	5.32	July 30	6.65	Oct. 30	7.16
Feb. 29	5.40	31	5.85	Aug. 31	6.87	Nov. 30	7.28
Mar. 29	5.99	June 30	6.37	Sept. 30	6.93	Dec. 31	6.89

Bryan County

87. Henry Ford. Richmond Hill. Lat. $31^{\circ}56'44''$, long. $81^{\circ}19'37''$. 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 1.82 below lsd, Oct. 3, 1952. Records available: 1939-52. July 16, 0.41; Oct. 3, 1.82; Dec. 6, 1.70.

96. J. W. Harden. Lat. $31^{\circ}49'02''$, long. $81^{\circ}15'16''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 320 feet, cased to 60. Land-surface datum is 10 feet above msl. Highest water level 11.05 above lsd, May 5, 1939; lowest 5.90 above lsd, July 16, 1952. Records available: 1939-52. July 16, +5.90. Measurement discontinued.

119. Henry Ford. Kilkenny. Lat. $31^{\circ}47'20''$, long. $81^{\circ}12'16''$. 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, 1949-52. Oct. 3, +5.4; Dec. 6, +5.00.

144. U. Butler. Eldora. Lat. $32^{\circ}13'54''$, long. $81^{\circ}26'47''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet, cased to 80 feet. Land-surface datum is 67.4 feet above msl. Highest water level 19.85 below lsd, Nov. 29, 1948; lowest 22.74 below lsd, Dec. 5, 1952. Records available: 1942-52. July 15, 22.05; Oct. 1, 22.64; Dec. 5, 22.74.

146. L. W. Smith. Lat. $32^{\circ}09'04''$, long. $81^{\circ}30'33''$. 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: 1941-52. Oct. 1, 24.39; Dec. 5, 24.44.

148. Henry Ford. Keller. Lat. $31^{\circ}50'35''$, long. $81^{\circ}15'14''$. Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 440 feet, cased to 352. Land-surface datum is 17 feet above msl. Highest water level 7.40 above lsd, Mar. 25, 1941; lowest 3.22 above lsd, Oct. 3, 1952. Records available: 1940-52. Oct. 3, +3.22; Dec. 6, +3.32.

149. Henry Ford. Lat. $31^{\circ}51'40''$, long. $81^{\circ}16'57''$. 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, 1949-52. Oct. 3, +1.50; Dec. 6, +1.55.

150. Henry Ford. Richmond Hill. Lat. $31^{\circ}57'32''$, long. $81^{\circ}19'37''$. 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: 1940-52. July 16, +8.57; Oct. 3, +7.84; Dec. 6, +8.30.

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 4.17 above lsd, Oct. 3, 1952. Records available: 1941-52. July 16, +4.74; Oct. 3, +4.17; Dec. 6, +4.37.

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: 1942-52. July 16, +3.27; Oct. 3, +5.48; Dec. 6, +5.53.

Bulloch County

71. Wingate Faceville. Lat. 32°27'20", long. 81°45'48". Drilled unused artesian well in Ocala limestone, diameter 8 inches, depth 390 feet. Land-surface datum is 187 feet above msl. Highest water level 67.7 below lsd, Feb. 1, 1949; lowest 73.30 below lsd, July 31, 1952. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	70.8	Apr. 30	71.2	July 31	73.30	Oct. 31	72.00
Feb. 29	71.8	May 31	70.8	Aug. 30	71.80	Nov. 29	71.30
Mar. 31	71.0	June 28	72.2	Sept. 30	72.30	Dec. 31	72.30

Camden County

8. M. L. Hill. Kingsland. Lat. 30°47'51", long. 81°41'08". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 486 feet, cased to 300. 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: 1938-52. July 17, +18.90; Dec. 8, +18.25.

12. J. J. Godley. Kingsland. Lat. 30°48'00", long. 81°41'26". Domestic artesian well in Ocala limestone, diameter 3 inches. Land-surface datum is 36.9 feet above msl. Highest water level 25.48 above lsd, Dec. 7, 1947; lowest 19.19 above lsd, Dec. 8, 1952. Records available: 1938, 1940-52. July 17, +19.74; Dec. 8, +19.19.

59. Zack Coffson. Lat. 30°56'34", long. 81°40'17". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth about 400 feet. Land-surface datum is 26 feet above msl. Highest water level 32.7 above lsd, June 22, 1939; lowest 26.12 above lsd, Dec. 8, 1952. Records available: 1939-46, 1949-52. July 17, +26.45; Dec. 8, +26.12.

68. Kings Bay Club. Lat. 30°47'53", long. 81°31'03". Drilled domestic artesian well in Ocala limestone, diameter 3 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, 1949-52. July 17, +40.25; Dec. 8, +37.72.

92a. Camden Race Track. Lat. 30°47'26", long. 81°39'29". Drilled unused artesian well in Ocala limestone, diameter 3 inches, depth about 500 feet, cased to 200. 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. July 17, +29.1; Dec. 8, +28.41.

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. Records available: 1939, 1941-52. July 17, +35.2; Dec. 8, +34.50.

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 feet. Land-surface datum is 12 feet above msl. Highest water level 40.1 above lsd, Dec. 8, 1939; lowest 30.65 above lsd, Dec. 8, 1952. Records available: 1939-43, 1945-52. July 17, +32.45; Dec. 8, +30.65.

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 18.83 below lsd, Aug. 19, 1951. Records available: 1941-43, 1945-52. July 18, 18.08; Dec. 8, 18.80.

Chatham County

28. Reliance Fertilizer Co. Lat. $32^{\circ}05'02''$, long. $81^{\circ}07'53''$. 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. Oct. 2, 74.38; Dec. 5, 70.12.

30. Dixie Asphalt Corp. Lat. $32^{\circ}06'53''$, long. $81^{\circ}07'58''$. 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 68.92 below lsd, Sept. 30, 1952. Records available: 1938-52. July 15, 66.32; Sept. 30, 68.92, pumped recently; Dec. 5, 65.45.

43. Southern Cotton Oil Co. Lat. $32^{\circ}05'32''$, long. $81^{\circ}06'42''$. 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: 1940-52. Sept. 30, 89.6, nearby well being pumped.

46. Union Bag & Paper Corp. Lat. $32^{\circ}06'12''$, long. $81^{\circ}07'20''$. 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, 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	144.6	Mar. 14	139.6	May 29	148.6	Oct. 9	130.6
10	139.6	20	139.6	June 5	144.6	16	130.6
17	144.6	27	139.6	12	144.6	23	130.6
24	144.6	Apr. 3	139.6	July 24	144.6	30	130.6
31	139.6	10	139.6	31	144.6	Nov. 6	135.6
Feb. 7	139.6	17	139.6	Aug. 7	144.6	13	132.6
14	134.6	24	139.6	14	138.6	20	132.6
21	144.6	May 8	139.6	21	151.6	Dec. 4	132.6
28	139.6	15	144.6	28	132.6	11	132.6
Mar. 7	139.6	22	139.6	Oct. 2	132.6	19	132.6

63. Colonial Ice Co. McGuire and Indian Sts., Savannah. Lat. $32^{\circ}05'07''$, long. $81^{\circ}05'49''$. 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: 1939-52. July 15, 81.04; Sept. 30, 79.71; Dec. 5, 75.46.

76. Pierpont Manufacturing Co. Lathrop Ave., Savannah. Lat. $32^{\circ}05'50''$, long. $81^{\circ}07'00''$. 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: 1939-52. July 15, 92.71; Sept. 30, 94.23; Dec. 5, 88.54.

81. Gordon Saussy. Lat. $32^{\circ}08'24''$, long. $81^{\circ}08'42''$. Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 522 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: 1940-52. July 15, 49.65; Sept. 29, 52.31.

84. Standard Oil Co. Lat. $32^{\circ}04'37''$, long. $81^{\circ}02'31''$. Drilled industrial artesian well in Ocala limestone, diameter 10 inches, depth 652 feet, cased to 230. Land-surface datum is 6.1 feet above msl. Highest water level 20.75 below lsd, Jan. 4, 1941; lowest 35.97 below lsd, Sept. 30, 1952. Records available: 1940-52. July 15, 35.76; Sept. 30, 35.97; Dec. 5, 32.19.

86. Southern Cotton Oil Co. Lathrop Ave., Savannah. Lat. $32^{\circ}05'32''$, long. $81^{\circ}06'42''$. Drilled industrial artesian well in Ocala limestone, diameter 12 inches, depth 665 feet, cased to 240 feet. Land-surface datum is 9.2 feet above msl. Highest water level 57.25 below lsd, Nov. 30, 1940; lowest 102.95 below lsd, Sept. 30, 1952. Records available: 1940-47, 1949-52. July 15, 100.79; Sept. 30, 102.95; Dec. 5, 76.70.

100. Producers Cooperative Association. Savannah. Lat. $32^{\circ}04'22''$, long. $81^{\circ}04'20''$. Drilled unused artesian well in Ocala limestone, diameter 6 inches, depth 310 feet. Land-surface datum is 7 feet above msl. Highest water level 32.36 below lsd, Dec. 5, 1951; lowest 44.92 below lsd, Aug. 24, 1945. Records available: 1943-52. May 3, 34.16; Sept. 30, 38.66; Dec. 5, 33.70.

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. July 15, 22.48; Sept. 29, 24.92.

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, 1945-52. July 15, 5.86; Oct. 1, 6.25.

121. Robert Schneider. Lat. 32°01'12", long. 80°51'23". Drilled domestic artesian well in Hawthorn formation, diameter 2 inches, depth 174, 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: 1939-52. July 16, 9.49; Sept. 29, 8.57.

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 13.66 below lsd, July 16, 1952. Records available: 1939-52. July 16, 13.66; Sept. 29, 13.07; Dec. 5, 11.71.

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 14.19 below lsd, Sept. 30, 1952. Records available: 1938-52. July 15, 13.05; Sept. 30, 14.19; Dec. 5, 13.72.

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 35.20 below lsd, July 16, 1952. Records available: 1938, 1942-52. July 16, 35.20; Oct. 2, 34.37; Dec. 6, 31.83.

174. H. C. Connor. Formerly Mrs. Eda W. Sapp. 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. July 15, +2.85; Oct. 1, +4.71.

194. Mrs. W. W. Keller, Sr. Drakies Point. Lat. 32°10'34", long. 81°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 26.33 below lsd, Sept. 30, 1952. Records available: 1938-52. July 15, 25.13; Sept. 30, 26.33; Dec. 5, 25.44.

213. J. L. Budreau. Burroughs Road and U. S. Highway 17. Lat. 31°59'38", long. 81°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 3.79 below lsd, Oct. 3, 1952. Records available: 1939-52. Oct. 3, 3.79; Dec. 6, 3.27.

266. J. H. Chisholm. Lat. 32°13'42", long. 81°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 10.25 below lsd, Oct. 1, 1952. Records available: 1939-52. July 15, 9.98; Oct. 1, 10.25; Dec. 5, 10.11.

269. W. J. Pierpont Estate. Isle of Hope. Lat. 31°58'48", long. 81°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 21.38 below lsd, July 16, 1952. Records available: 1939-52. Oct. 2, 20.32; July 16, 21.38; Dec. 5, 18.02.

273. C. A. Gross. Lat. 32°00'25", long. 81°02'35". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 360 feet, cased to about 100. 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. July 16, 27.66.

279. J. B. Pound Hotel Corp. General Oglethorpe Hotel, Wilmington Island. Lat. 32°00'15", long. 80°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 26.89 below lsd, July 16, 1952. Records available: 1939-52. July 16, 26.89; Sept. 30, 26.09; Dec. 5, 22.86.

314. J. M. Breckenridge. Lat. 32°00'12", long. 81°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 37.38 below lsd, July 16, 1952. Records available: 1940-52. July 16, 37.38; Oct. 2, 36.65; Dec. 6, 33.92.

321. R. C. Hinley. Lat. 31°57'55", long. 81°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 16.68 below lsd, July 16, 1952. Records available: 1940-52. July 16, 16.68; Oct. 2, 16.17; Dec. 6, 14.94.

328. U. S. Dept. of the Army. Fort Screven, Tybee Island. Lat. 32°01'25", long. 80°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: 1940-52. July 16, 13.01; Sept. 29, 12.6; Dec. 5, 12.26.

330. State Highway Department. Lat. 32°01'18", long. 81°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, 1949-52. May 3, 3.55; Oct. 3, 6.14; Dec. 6, 5.24.

343. U. S. Department of Agriculture. Barbour Lathrop Plant Introduction Station. Lat. 31°59'35", long. 81°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 0.07 below lsd, Dec. 21, 1947; lowest 10.72 below lsd, Dec. 25, 1942. Records available: 1942-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.18	5.38	4.40	4.17	5.38	3.09	5.64	7.35	7.57	8.92	9.38	9.92
2	4.23	5.37	4.44	4.24	5.46	3.18	5.72	7.42	7.52	8.95	9.41	9.91
3	4.27	5.27	4.38	4.32	5.57	3.31	5.82	7.48	7.54	9.01	9.44	9.93
4	4.33	5.11	4.41	4.37	5.63	3.18	5.93	7.56	7.60	9.05	9.46	9.95
5	4.36	5.05	4.30	4.44	5.68	3.35	6.05	7.64	7.68	9.06	9.48	9.95
6	4.39	5.04	4.25	4.52	5.73	3.48	6.08	7.72	7.75	9.06	9.50	9.96
7	4.46	5.01	4.25	4.60	5.80	3.60	5.98	7.77	7.83	9.12	9.54	9.98
8	4.47	5.01	4.31	4.66	5.82	3.75	5.89	7.84	7.96	9.12	....	9.90
9	4.50	4.98	4.36	4.73	5.79	3.88	5.89	7.81	8.02	8.95	....	10.00
10	4.53	5.00	4.40	4.79	5.77	4.00	5.95	7.65	8.05	8.95	9.60	10.00
11	4.63	5.01	4.36	4.86	5.77	4.11	6.07	7.63	8.10	8.95	9.61	10.01
12	4.65	....	4.04	4.92	5.80	4.24	6.10	7.66	8.18	8.93	9.64	10.03
13	4.72	....	3.94	4.95	5.81	4.36	6.10	7.69	8.23	8.94	9.65	10.05
14	4.78	....	3.65	4.99	5.88	4.49	6.12	7.74	8.26	8.93	9.67	10.06
15	4.82	....	3.65	5.05	5.92	4.59	6.17	7.78	8.34	8.93	9.68	10.09
16	4.87	....	3.72	5.10	5.98	4.71	6.23	7.82	8.38	8.94	9.70	10.10
17	4.90	....	3.80	5.16	6.04	4.82	6.22	7.88	8.44	8.98	9.71	10.12
18	4.93	5.19	3.86	5.21	6.11	4.93	6.23	7.95	8.50	8.99	9.72	10.13
19	4.98	5.18	....	5.27	6.03	5.05	6.26	8.00	8.55	8.97	9.71	10.14
20	5.00	5.19	....	5.33	6.05	5.18	6.32	8.04	8.59	9.00	9.71	10.15
21	5.10	5.23	....	5.40	6.11	4.58	6.41	7.95	8.62	9.09	9.74	....
22	5.11	....	....	5.46	6.16	4.43	6.49	7.92	8.62	9.09	9.77	10.14
23	5.18	....	....	5.51	6.21	4.48	6.57	7.94	8.67	9.10	9.79	10.15
24	5.22	....	4.24	5.57	6.27	4.60	6.66	7.73	8.69	9.12	9.81	10.15
25	5.23	5.32	4.17	5.53	6.30	4.76	6.77	7.60	8.72	9.15	9.82	10.15
26	5.25	5.25	4.07	5.57	5.00	4.96	6.88	7.51	8.74	9.20	9.83	10.16
27	5.29	5.02	3.92	5.52	4.26	5.14	6.92	7.46	8.79	9.24	9.84	10.16
28	5.30	4.58	3.91	5.43	5.26	5.27	6.99	7.53	8.85	9.24	9.86	10.16
29	5.34	4.48	3.98	5.34	4.31	5.39	7.07	7.57	....	9.32	9.87	10.16
30	5.36	....	4.56	5.35	3.03	5.49	7.18	7.59	....	9.35	9.89	10.16
31	5.37	....	4.13	....	2.92	....	7.28	7.60	....	9.36	....	10.12

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 11.37 below lsd, Aug. 30, 1950. Records available: 1950-52. Mar. 5, 2.10.

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: 1943-52. July 7, 37.36; Dec. 11, 37.65.

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

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: 1943-52. July 7, 32.09; Dec. 11, 36.83.

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. Land-surface datum is 900 feet above msl. Highest water level 22.6 below lsd, Apr. 16, 1947; lowest 33.47 below lsd, Dec. 22, 1947. Records available: 1943-52. July 10, 24.54; Dec. 16, 28.00.

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: 1943-52. July 10, 38.53; Dec. 16 47.52.

21. J. B. Gaines. Formerly Lewis Ray. 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: 1943-52. July 10, 30.97; Dec. 16, 35.36

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: 1943-52. July 10, 15.87; Dec. 16, 15.85.

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: 1943-52. July 10, 20.26; Dec. 16, 24.65.

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: 1943-52. July 10, 53.08; Dec. 16, 54.22.

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: 1943-52. July 10, 43.86; Dec. 16, 46.96.

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 5.14 below lsd, Feb. 28, 1946; lowest 5.63 below lsd, Sept. 13, 1946. Records available: 1943-52. July 10, 5.09; Dec. 16, 5.47.

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. No measurement made in 1952.

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: 1943-52. July 7, 36.94; Dec. 11, 35.54.

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 36.75 below lsd, June 1, 1944, Feb. 26, 1946; lowest 40.69 below lsd, Dec. 7, 1951. Records available: 1944-52. July 7, 37.45; Dec. 16, 39.86.

34. I. W. Williams. Candler and Flat Shoals Rds., Panthersville. Lat. 33°42'15", long. 84°16'24". Drilled unused water-table well in gneiss, diameter 5 inches, depth 72 feet. Land-surface datum is 877 feet above msl. Highest water level 43.04 below lsd, Aug. 4, 1949; lowest 50.30 below lsd, Dec. 7, 1951. Records available: 1944-52. July 7, 46.11; Dec. 16, 49.63.

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: 1944-52. July 7, 38.07; Dec. 16, 40.55.

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 1.9 below lsd, Dec. 22, 1948; lowest 15.15 below lsd, Aug. 4, 1949. Records available: 1944-52. July 7, 3.19; Dec. 16, 2.78.

50. Miss Annie Mae Lyle. 1550 Moreland Ave., Atlanta. Lat. 33°42'35", long. 84°20'50". Drilled unused water-table well in granite, diameter 6 inches, depth 187 feet, cased to 19. Highest water level 32.93 below lsd, Dec. 11, 1952; lowest 34.40 below lsd, Aug. 24, 1948. Records available: 1944-52. July 7, 33.74; Dec. 11, 32.93.

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 5.25 below lsd, Oct. 1, 1952. Records available: 1939-52. July 15, 3.99; Oct. 1, 5.25; Dec. 5, 4.50.

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 1.70 below lsd, Dec. 5, 1952. Records available: 1939-44, 1951-52. July 15, 1.20; Oct. 1, 1.68; Dec. 5, 1.70.

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 41.30 below lsd, Dec. 5, 1952. Records available: 1939-52. July 15, 40.66; Oct. 1, 41.29; Dec. 5, 41.30.

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 114.60 below lsd, Dec. 4, 1952. Records available: 1939-52. July 7, 114.23; Dec. 4, 114.60.

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. July 7, 37.21; Dec. 11, 39.98.

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: 1943-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.94	17.52	16.95	14.85	15.59	.....	17.18	18.29	18.55	19.25	19.98	20.53
2	17.95	17.42	16.92	14.95	15.63	.....	17.24	18.30	18.47	19.22	20.02	20.48
3	17.96	17.26	16.76	15.07	15.70	.....	17.25	18.32	18.51	19.35	20.02	20.55
4	17.93	17.17	16.47	14.91	15.77	.....	17.30	18.37	18.56	.....	20.06	20.55
5	17.89	17.21	16.46	14.97	15.79	.....	17.34	18.41	18.61	.....	20.05	20.50

26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	17.88	17.22	16.43	15.05	15.82	.....	17.39	18.44	18.63	19.37	20.08	20.51
7	17.88	17.25	16.43	15.09	15.86	.....	17.40	18.45	18.65	19.40	20.15	20.53
8	17.82	17.22	16.42	15.07	15.86	.....	17.38	18.45	18.82	19.40	20.15	20.53
9	17.80	17.21	16.41	15.15	15.88	16.65	17.43	18.45	18.87	19.44	20.18	20.53
10	17.96	17.22	16.28	15.15	15.91	16.67	17.48	18.48	18.86	19.48	20.15	20.38
11	17.98	17.19	16.04	15.16	15.87	16.70	17.55	18.52	18.88	19.50	20.14	20.41
12	17.94	17.22	15.95	15.15	15.91	16.67	17.63	18.57	18.93	19.50	20.23	20.32
13	17.90	17.20	15.80	15.04	15.95	16.70	17.64	18.60	18.95	19.52	20.24	20.30
14	17.87	17.22	15.80	15.10	16.00	16.75	17.65	18.62	18.93	19.52	20.26	20.31
15	17.90	17.22	15.76	15.17	15.98	16.75	17.67	18.57	18.95	19.54	20.27	20.35
16	17.92	17.16	15.80	15.25	16.04	16.77	17.72	18.57	18.93	19.58	20.32	20.40
17	17.89	17.21	15.81	15.37	16.08	16.77	17.79	18.61	18.93	19.62	20.32	20.37
18	17.94	17.23	15.74	15.36	16.12	16.78	17.84	18.66	18.98	19.65	20.32	20.40
19	17.94	17.20	15.72	15.39	16.10	16.81	17.83	18.70	19.98	19.64	20.24	20.43
20	17.94	17.16	15.66	15.44	.....	16.85	17.85	18.73	19.02	19.68	20.25	20.38
21	17.99	17.27	15.62	15.47	.....	16.84	17.89	18.77	19.03	19.77	20.26	20.37
22	17.87	17.28	15.46	15.51	.....	16.89	17.92	18.75	19.03	19.75	20.32	20.36
23	18.00	17.22	15.24	15.51	.....	16.89	17.96	18.72	19.09	19.77	20.29	20.35
24	18.01	17.23	15.06	15.48	.....	16.89	18.00	18.76	19.12	19.78	20.40	20.37
25	17.93	17.27	14.84	15.47	.....	16.92	18.04	18.80	19.12	.....	.....	.....
26	17.86	17.18	14.83	15.39	.....	16.97	18.10	18.84	19.13	.....	20.44	20.33
27	17.82	17.08	14.86	15.37	.....	17.01	18.11	18.85	19.17	19.86	20.44	20.31
28	17.58	16.91	14.92	15.48	.....	17.06	18.12	18.89	19.22	19.86	20.48	20.32
29	17.64	16.86	14.98	15.49	.....	17.10	18.15	18.91	19.24	19.95	20.48	20.33
30	17.63	14.99	15.57	.....	.....	17.09	18.23	18.65	19.24	19.98	20.51	20.28
31	17.60	14.92	.....	.....	.....	.....	18.30	18.57	.....	19.97	.....	.....

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: 1943-52. July 7, 35.33; Dec. 11, 32.12.

77. E. S. Nix. Formerly Mrs. Gory C. Helms. 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 20.30 below lsd, Aug. 4, 1949; lowest 25.09 below lsd, Dec. 21, 1945. Records available: 1943-52. July 10, 21.19; Dec. 16, 24.92.

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 16.79 above lsd, Oct. 30, 1952. Records available: 1938-52.

Daily highest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.89	20.49	20.49	19.99	20.79	19.29	19.29	18.29	18.79	18.49	18.89	19.09
2	21.09	20.49	20.19	19.99	20.29	19.19	19.29	18.59	18.49	18.49	18.99	19.39
3	21.29	20.99	20.19	20.09	19.89	19.29	19.29	18.89	18.39	18.39	18.99	19.19
4	21.99	20.69	20.19	20.19	19.69	19.29	19.19	18.59	18.39	18.39	18.99	18.99
5	20.89	21.09	19.79	20.19	20.39	19.19	19.19	18.49	18.39	18.49	19.19	19.19
6	20.69	20.19	19.69	20.09	19.29	19.19	19.19	19.49	23.89	18.49	19.09	19.39
7	20.09	19.99	19.49	19.99	19.39	19.39	21.49	19.39	23.99	18.59	18.99	19.49
8	20.39	19.79	19.59	19.39	18.89	19.29	19.19	19.69	19.79	18.79	18.99	19.19
9	.....	20.99	19.69	19.49	19.19	19.09	19.09	18.99	19.39	18.69	19.09	19.19
10	.....	20.39	20.09	20.09	19.49	19.19	19.19	19.09	19.79	18.39	18.89	19.39
11	.....	20.09	19.99	19.79	19.79	19.19	19.09	18.79	19.59	18.19	18.79	18.99
12	.....	20.09	20.19	20.09	19.69	19.29	18.79	18.59	19.09	18.19	18.69	19.09
13	.....	20.29	20.49	20.09	19.39	19.19	19.09	18.49	19.19	18.19	19.19	19.19
14	.....	20.39	19.69	20.19	18.99	19.09	19.39	18.49	19.09	18.20	19.19	18.29
15	20.19	20.39	19.59	19.49	19.19	19.19	19.09	18.49	18.79	18.49	19.19	18.69
16	20.29	20.49	19.59	19.89	19.09	19.09	19.09	18.39	18.79	18.69	19.29	18.69
17	20.49	20.59	19.99	20.09	18.79	19.09	18.99	18.39	18.39	18.49	19.39	19.19
18	20.39	20.19	19.69	20.29	19.09	18.99	18.89	18.39	19.39	.....	19.39	19.29
19	20.59	20.29	20.09	20.39	18.79	19.09	18.99	18.29	19.39	.....	19.39	19.39
20	20.49	20.29	19.59	20.49	18.89	18.99	19.09	18.29	18.59	.....	19.59	19.39

3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	20.29	20.39	19.49	20.59	18.49	18.89	18.99	18.49	21.39	18.39	19.39	19.39
22	20.49	19.99	19.49	20.09	18.39	18.69	18.59	18.29	20.99	19.59	19.49	19.29
23	20.19	20.39	20.09	20.29	19.89	18.99	18.59	18.29	20.69	19.69	19.89	24.19
24	19.49	20.49	19.79	20.19	19.49	18.99	18.59	18.09	19.49	19.79	19.49	26.79
25	19.99	19.99	19.29	20.29	18.89	18.79	18.39	18.29	19.69	19.89	19.19	26.29
26	20.29	20.69	19.39	20.39	18.79	18.89	19.99	18.29	19.59	19.79	19.09	26.79
27	20.69	20.49	20.19	20.09	19.69	18.99	20.99	18.39	19.59	19.79	19.09	21.39
28	20.19	20.59	20.09	19.99	19.39	18.69	18.89	18.69	18.99	19.79	18.89	20.09
29	.....	20.39	19.89	19.79	19.19	18.69	19.19	18.69	18.79	18.49	18.89	19.59
30	20.49		19.79	20.89	19.29	18.89	18.59	18.79	18.39	18.39	18.99	19.69
31	20.39		19.69		19.39		18.39	18.89		18.59		19.09

Daily lowest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.79	18.59	19.69	19.29	19.99	18.99	18.69	17.69	17.99	17.89	17.99	17.49
2	20.49	19.99	19.39	19.29	19.79	18.89	18.59	17.69	17.79	17.79	17.99	18.59
3	20.39	20.39	19.59	18.69	19.19	17.59	18.49	17.99	17.69	17.69	18.09	18.19
4	20.29	20.29	19.29	18.89	18.99	18.59	18.39	17.99	17.59	17.39	17.89	17.69
5	20.09	20.59	18.99	19.09	18.89	18.59	18.19	17.89	17.59	17.39	17.19	17.89
6	18.89	18.79	18.89	18.49	18.09	18.49	18.39	18.09	17.89	17.49	18.39	17.59
7	18.79	18.69	18.69	18.29	18.29	18.59	18.19	17.79	19.69	17.69	17.69	17.59
8	19.79	18.59	18.29	18.09	18.39	18.69	18.49	17.79	18.79	18.39	17.29	17.49
9	.....	18.19	18.29	18.99	18.59	18.39	18.39	17.89	18.89	17.79	17.99	18.19
10	.....	19.39	19.29	18.69	18.69	18.39	18.29	18.19	18.89	17.59	18.49	18.79
11	.....	19.59	19.49	19.09	19.19	18.59	18.19	17.79	18.99	17.49	18.39	17.39
12	.....	18.69	19.39	18.99	18.99	18.39	18.29	17.69	18.79	17.49	18.09	17.29
13	.....	19.69	19.79	19.29	18.49	18.29	18.29	18.19	18.49	17.49	17.99	17.59
14	.....	19.69	19.39	19.29	18.19	18.29	18.29	17.79	18.39	17.39	18.59	17.59
15	19.39	19.79	19.29	18.39	18.49	18.29	18.29	17.69	18.29	17.99	18.49	17.59
16	19.39	20.09	19.29	18.29	18.19	18.39	18.39	17.89	18.29	18.29	18.49	17.29
17	19.59	19.39	18.39	18.39	18.09	18.29	18.29	17.99	18.09	18.09	18.49	17.39
18	19.89	18.59	19.09	18.79	18.09	18.39	18.29	18.09	17.99	.....	18.49	17.39
19	19.89	18.59	19.29	19.39	18.19	18.39	18.29	17.99	18.39	.....	18.79	17.39
20	20.09	19.59	18.89	19.59	17.29	18.39	18.39	18.09	18.19	.....	19.09	17.99
21	19.69	19.19	18.09	19.59	17.99	18.29	18.39	18.19	18.29	18.29	18.09	18.69
22	19.79	19.09	18.49	19.49	18.09	18.29	18.29	17.89	19.99	18.09	17.59	18.29
23	19.09	19.59	19.49	19.39	17.79	18.39	18.29	17.69	19.09	18.89	17.89	17.59
24	18.59	19.79	18.69	19.59	18.29	18.49	18.19	17.79	18.89	18.49	17.79	23.39
25	18.99	19.49	18.69	19.89	18.29	18.39	17.99	17.69	18.99	18.59	18.39	25.29
26	19.19	19.69	19.09	19.89	18.39	18.39	17.99	17.59	18.89	18.89	18.39	21.49
27	19.69	19.09	19.09	19.69	18.89	18.39	18.19	17.69	18.79	18.79	18.39	19.39
28	19.29	19.19	18.49	19.09	18.79	18.19	18.09	18.09	18.39	17.99	17.99	18.39
29	.....	19.99	18.59	18.89	18.69	18.19	18.09	18.09	18.09	17.49	17.59	18.19
30	18.59		18.29	19.89	18.99	18.19	17.79	18.19	17.99	16.49	18.39	19.09
31	18.49		18.89		19.09		17.89	18.19		17.39		19.09

13. U. S. Dept. of Commerce. At lighthouse on St. Simon Island. Lat. $31^{\circ}07'57''$, long. $81^{\circ}23'41''$. 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 26.05 above lsd, Aug. 18, 1951. Records available: 1938, 1940-52. July 17, +26.92; Dec. 7, +29.55.

37. F. G. Horne. Lat. $31^{\circ}13'08''$, long. $81^{\circ}23'31''$. 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 24.74 above lsd, Aug. 18, 1951. Records available: 1939, 1941-52. July 1, +24.76; Dec. 7, +25.55.

44. Sea Island Co. Gun Club on St. Simon Island. Lat. $31^{\circ}10'40''$, long. $81^{\circ}21'29''$. 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 31.43 above lsd, July 17, 1951. Records available: 1939-52. July 17, +31.43; Dec. 7, +32.96.

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 11.1 above lsd, July 17, 1952. Records available: 1939, 1942-52. July 17, +11.1; Dec. 7, +11.95.

100. New England Tourist Camp. Lat. 31°15'10", long. 81°26'29". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 600 feet, cased to about 300. Land-surface datum is 16.9 feet above msl. Highest water level 25.1 above lsd, June 20, 1939; lowest 17.0 above lsd, Aug. 18, 1951, July 17, 1952. Records available: 1939-52. July 17, +17.0; Dec. 7, +17.81.

138. G. F. Cowman. Lat. 31°08'22", long. 81°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 28.11 above lsd, Dec. 8, 1952. Records available: 1939-52. July 17, +29.10; Dec. 8, +28.11.

192. Edgar Rittenhouse. Brunswick. Lat. 31°10'44", long. 81°30'36". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 640 feet, cased to 520. Land-surface datum is 13.0 feet above msl. Highest water level 30.58 above lsd, Dec. 27, 1940; lowest 12.75 above lsd, July 17, 1952. Records available: 1939-52. July 17, +12.75; Dec. 7, +13.73.

Henry County

11. D. J. Arnold. Hampton. Lat. 33°22'53", long. 84°17'10". Drilled unused water-table well in gneiss, diameter 6 inches, depth 173 feet. Land-surface datum is 890 feet above msl. Highest water level 25.96 below lsd, Apr. 11, 1946; lowest 30.02 below lsd, Oct. 15, 1951. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	29.09	Apr. 28	26.03	Aug. 2	27.26	Dec. 11	29.08
Feb. 18	29.4	July 14	26.99	Aug. 22	27.46	17	29.29
Mar. 21	27.2	21	26.93	Oct. 20	28.14		

Liberty County

53. F. F. Branan. Lat. 31°47'17", long. 81°26'10". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 408 feet, cased to 180. Land-surface datum is about 13 feet above msl. Highest water level 29.3 above lsd, Feb. 1, 1939, Aug. 28, 1939; lowest 24.45 above lsd, Dec. 6, 1952. Records available: 1939-52. July 16, +24.9; Dec. 6, +24.45.

75. Mrs. E. P. Way. Lat. 31°41'11", long. 81°24'27". Drilled domestic artesian well in Ocala limestone, diameter 4 inches, depth 500 feet, cased to 187. 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, 1941-52. July 16, +20.15; Dec. 7, +16.44.

95. J. Blount. On Colonels Island. Lat. 31°43'53", long. 81°15'53". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth about 400 feet. Land-surface datum is 8 feet above msl. Highest water level 16.63 above lsd, Dec. 1, 1948; lowest 12.95 above lsd, Dec. 6, 1952. Records available: 1939, 1941-52. July 16, +13.46; Dec. 6, +12.95.

137. H. A. Bacon. Hinesville. Lat. 31°50'59", long. 81°35'25". Drilled domestic artesian well in Ocala limestone, diameter 2 inches, depth 527 feet, cased to 400. Land-surface datum is 47 feet above msl. Highest water level 3.40 above lsd, Apr. 26, 1939; lowest 3.14 below lsd, Oct. 3, 1952. Records available: 1939-52. Oct. 3, 3.14; Dec. 6, 3.05.

170. J. H. Woodall. Lat. 31°50'52", long. 81°24'35". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 503 feet, cased to 463 feet. Land-surface datum is 10 feet above msl. Highest water level 14.97 above lsd, June 30, 1941; lowest 10.65 above lsd, Dec. 6, 1952. Records available: 1941-52. May 3, +13.25; Oct. 3, +10.92; Dec. 6, +10.65.

177. P. E. Youmans. On Colonels Island. Lat. 31°43'56", long. 81°14'27". Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 490 feet, cased to 100. Land-surface datum is 13 feet above msl. Highest water level 12.35 above lsd, Aug. 26, 1945; lowest 10.15 above lsd, Dec. 6, 1952. Records available: 1942-52. Dec. 6, +10.15.

Long County

8. Town of Ludowici. Lat. 31°42'41", long. 81°44'45". Drilled municipal artesian well in Ocala limestone, diameter 8 to 6 inches, depth 579 feet. Land-surface datum is 66 feet above msl. Highest water level 9.29 below lsd, Mar. 18, 1940; lowest 14.46 below lsd, Dec. 6, 1951. Records available: 1940-47, 1949-52. May 3, 13.9, pumped recently; Dec. 9, 15.71, pumped recently.

McIntosh County

22. D. E. McDonald. Eulonia. Lat. $31^{\circ}31'53''$, long. $81^{\circ}25'53''$. 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, 1949-52. July 16, +15.2.

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

43. Shellman Bluff. Lat. $31^{\circ}34'08''$, long. $81^{\circ}19'27''$. 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, 1949-52. Dec. 7, +15.68.

85. R. C. Collins. Lat. $31^{\circ}30'19''$, long. $81^{\circ}23'04''$. 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: 1939-52. Dec. 7, 7.21.

103. A. M. Durant. Valona. Lat. $31^{\circ}28'41''$, long. $81^{\circ}20'33''$. Drilled domestic artesian well in Ocala limestone, diameter 3 inches, depth 800 feet, cased to about 200. Land-surface datum is 10 feet above msl. Highest water level 29.05 above lsd, Apr. 11, 1939; lowest 21.83 above lsd, Aug. 18, 1951. Records available: 1939-41, 1943, 1945-52. Dec. 7, +22.45.

141. Sam Gardner. Lat. $31^{\circ}27'19''$, long. $81^{\circ}29'03''$. 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 16.62 above lsd, Dec. 7, 1952. Records available: 1939-47, 1949-52. Dec. 7, +16.62.

144. Col. Talbot Smith. Lat. $31^{\circ}23'25''$, long. $81^{\circ}24'27''$. 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 17.32 above lsd, Dec. 7, 1952. Records available: 1939-52. July 17, +17.45; Dec. 7, +17.32.

180. D. C. Cowart. Eulonia. Lat. $31^{\circ}31'30''$, long. $81^{\circ}25'59''$. 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: 1942-52. Dec. 7, +19.02.

Mitchell County

9. City of Camilla. Lat. $31^{\circ}14'09''$, long. $84^{\circ}12'19''$. 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, Feb. 2, 1941. Records available: 1941-46, 1950-51. No measurement made in 1952.

Montgomery County

1. H. V. Thompson. Ailey. Lat. $32^{\circ}11'09''$, long. $82^{\circ}34'24''$. 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 108.42 below lsd, Dec. 3, 1951. Records available: 1941-43, 1945-46, 1949-51. No measurement made in 1952.

Pierce County

2. City of Blackshear. Lat. $31^{\circ}18'11''$, long. $82^{\circ}14'09''$. 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, 1945-52. July 18, 63.8; Dec. 8, 63.54.

5. Town of Patterson. Lat. $31^{\circ}23'11''$, long. $82^{\circ}08'00''$. 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, 1945-52. July 18, 35.16; Dec. 8, 36.08.

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, 1949-52. July 14, 113.62; Dec. 4, 109.70.

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 14.87 above lsd, Dec. 6, 1946. Records available: 1939, 1943, 1945-46, 1949-52. July 14, +18.30; Dec. 4, +15.80.

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, Apr. 11, Mar. 19, 1948; lowest 21.08 below lsd, Dec. 8, 1943. Records available: 1943-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.45	16.87	15.61	11.77	13.29	14.69	15.70	17.05	18.22	17.33	18.21	19.05
2	18.27	16.65	16.64	11.91	13.34	14.72	15.77	17.07	18.21	17.43	18.26	18.97
3	18.16	16.44	15.42	12.02	13.42	14.75	15.77	17.12	18.22	17.45	18.29	19.06
4	18.00	16.40	14.93	11.95	13.50	14.77	15.78	17.17	18.24	17.44	18.35	19.10
5	17.87	16.44	14.67	12.04	13.50	14.79	15.81	17.24	18.25	17.39	18.33	19.03
6	17.81	16.45	14.37	12.13	13.53	14.85	15.85	17.30	18.22	17.36	18.33	19.09
7	17.81	16.34	14.21	12.20	13.56	14.84	15.89	17.31	18.21	17.36	18.35	19.19
8	17.80	16.30	14.08	12.24	13.63	14.87	15.88	17.37	18.25	17.35	18.52	19.20
9	17.72	16.17	13.93	12.30	13.64	14.94	15.91	17.40	18.29	17.36	18.48	19.20
10	17.74	16.14	13.79	12.35	13.72	14.96	15.96	17.45	18.25	17.45	18.44	19.12
11	17.84	16.01	13.53	12.36	13.76	14.96	16.06	17.51	18.23	17.49	18.52	19.23
12	17.72	16.02	13.42	12.37	13.92	15.00	16.14	17.56	18.26	17.48	18.61	19.23
13	17.46	15.97	13.16	12.29	13.98	15.05	16.17	17.61	18.32	17.49	18.63	19.22
14	17.46	15.93	13.13	12.42	14.03	15.11	16.17	17.64	18.29	17.50	18.64	19.24
15	.....	15.93	13.01	12.54	14.00	15.11	16.21	17.66	18.26	17.47	18.66	19.27
16	.....	15.88	13.11	12.62	14.08	15.13	16.28	17.69	18.23	17.53	18.71	19.30
17	.....	15.92	13.01	12.76	14.13	15.18	16.34	17.74	18.18	17.57	18.73	19.27
18	.....	16.01	13.01	12.74	14.19	15.23	16.38	17.79	18.19	17.12	18.74	19.28
19	17.46	15.95	12.99	12.76	14.23	15.27	16.39	17.83	18.14	17.09	18.65	19.33
20	17.39	15.86	13.06	12.84	14.23	15.31	16.40	17.87	18.12	17.11	18.67	19.26
21	17.45	15.94	13.03	12.88	14.37	15.46	16.47	17.91	18.01	17.31	18.74	19.27
22	17.29	15.94	12.98	12.92	14.42	15.49	16.53	17.94	17.87	17.29	18.81	19.30
23	17.44	15.85	13.01	12.93	14.45	15.51	16.57	17.98	17.82	17.29	18.90	19.32
24	17.48	15.82	12.77	12.90	14.47	15.51	16.61	18.05	17.77	17.31	18.91	19.35
25	17.34	15.90	12.20	12.95	14.48	15.52	16.67	18.10	17.68	17.32	18.88	19.31
26	17.21	15.79	11.93	12.96	14.50	15.56	16.77	18.13	17.56	17.43	18.89	19.29
27	17.14	15.78	11.85	13.04	14.58	15.58	16.73	18.14	17.56	17.44	18.95	19.24
28	16.95	15.71	11.86	13.13	14.62	15.57	16.80	18.17	17.53	17.38	19.00	.....
29	17.04	15.60	11.89	13.15	14.56	15.62	16.84	18.20	17.46	17.44	19.00	.....
30	17.06	.....	11.93	13.29	14.60	15.61	16.93	18.21	17.40	17.64	19.02	.....
31	16.98	.....	11.86	.....	14.65	.....	17.01	18.19	.....	18.64	.....	.....

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 57.60 below lsd, Dec. 8, 1952. Records available: 1941-43, 1945-46, 1949-52. July 18, 56.52; Dec. 8, 57.60, pumped recently.

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, 1945-52. July 18, 6.80; Dec. 8, 7.48.

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. Land-surface datum is 123 feet above msl. Highest water level 55.43 below lsd, Dec. 8, 1947; lowest 61.03 below lsd, Aug. 19, 1951. Records available: 1940-43, 1945-52. July 18, 60.07; Dec. 8, 60.98.

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 1952 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 includes reconnaissance surveys of the major physiographic units of the State (see fig. 17), development of a network of observation wells, and continuation of detailed investigations in the Paintsville, Prestonsburg, Henderson, Hopkinsville, Covington, Paducah, Scottsville, and Louisville areas. During 1952, measurements were made in 43 wells, and recording gages were maintained on 34 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. Project reports on the Paintsville area and the Covington area were prepared during the year and transmitted to Washington for review and approval.

Precipitation

Climatologically, 1952 in Kentucky was characterized by higher than average temperatures and deficient rainfall. A very hot summer was accompanied by a statewide drought which began in June. The first general rains to break the drought occurred during the third week of November. According to the records of the United States Weather Bureau, for the State as a whole, precipitation of 41.44 inches during the year was 4.32 inches below the 64-year average; for the Louisville area, the total of 35.44 inches was 7.82 inches less than normal. During the 8-month period April through November, rainfall for each month was below average and of irregular areal distribution. The statewide precipitation during these 8 months was 6.72 inches less than average. For the same period rainfall in the Louisville area was 10.54 inches below normal.

Pumpage

Total pumpage of ground water in the Louisville area during 1952 was 30.5 million gallons per day, of which 1.5 million gallons per day were returned through recharge wells. The net withdrawal of 29.0 million gallons per day was about 9 percent less than that of 1951. This entire reduction may be attributed to decreased demands by two major industries. Natural recharge was short of the net withdrawal by nearly 2 million gallons per day. 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. Since 1945 pumpage and natural recharge have been nearly in balance except in 1950 when recharge from rainfall was considerably above normal.

Interpretation of Water-Level Fluctuations

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 five 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. 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

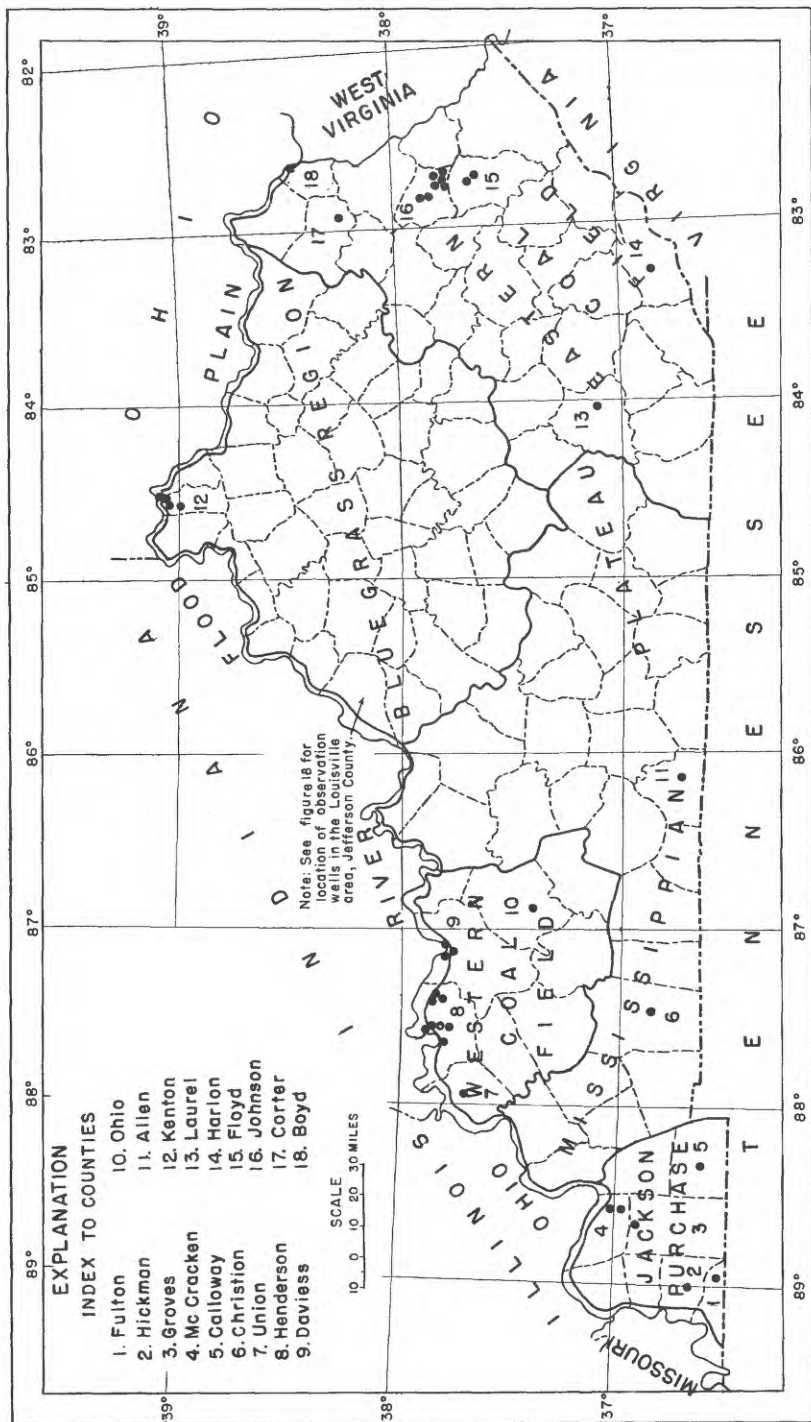


Figure 17. -- Physiographic units and location of observation wells in Kentucky, 1952.

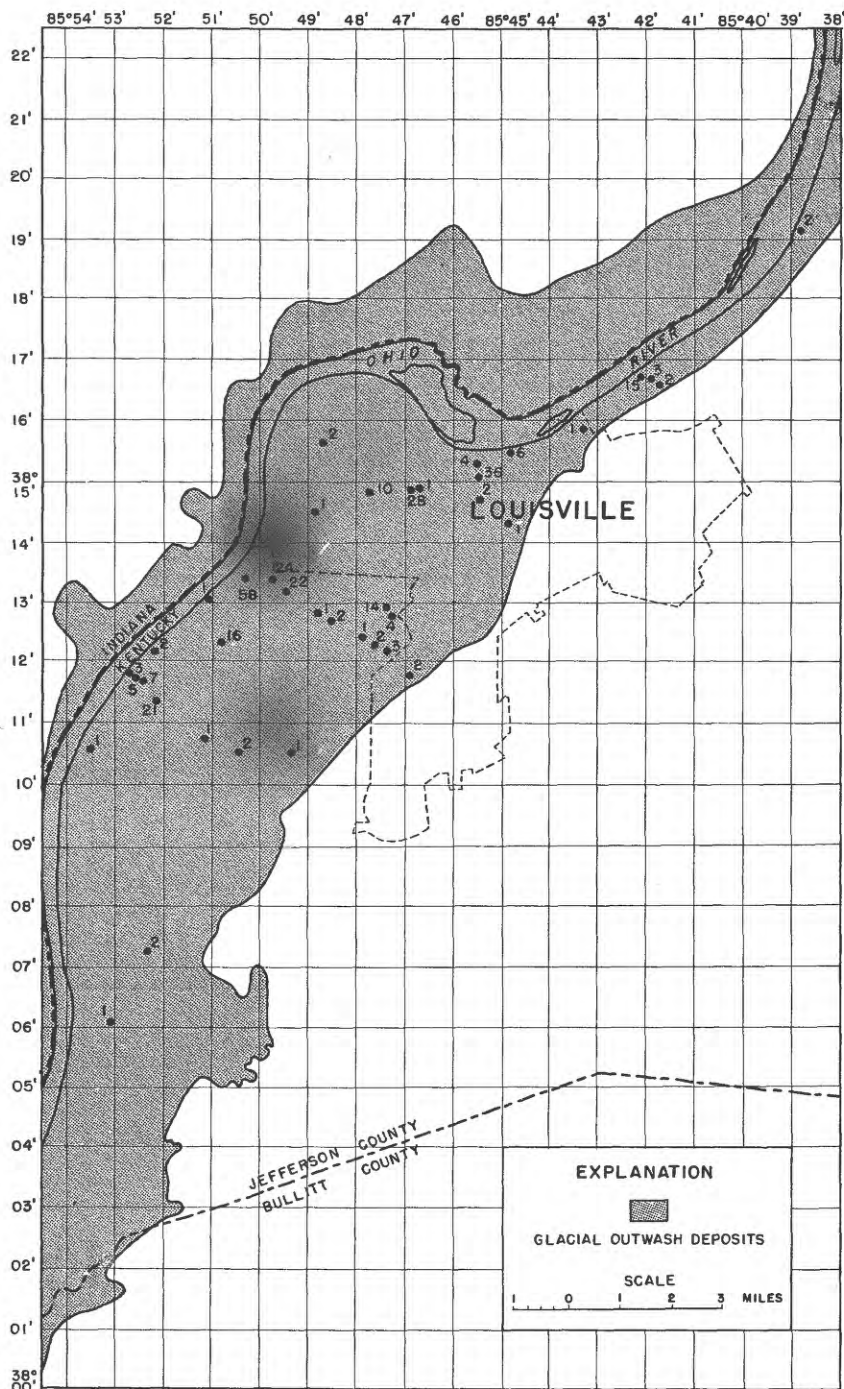


Figure 18. --Location of observation wells in the Louisville, Ky., area, 1952.

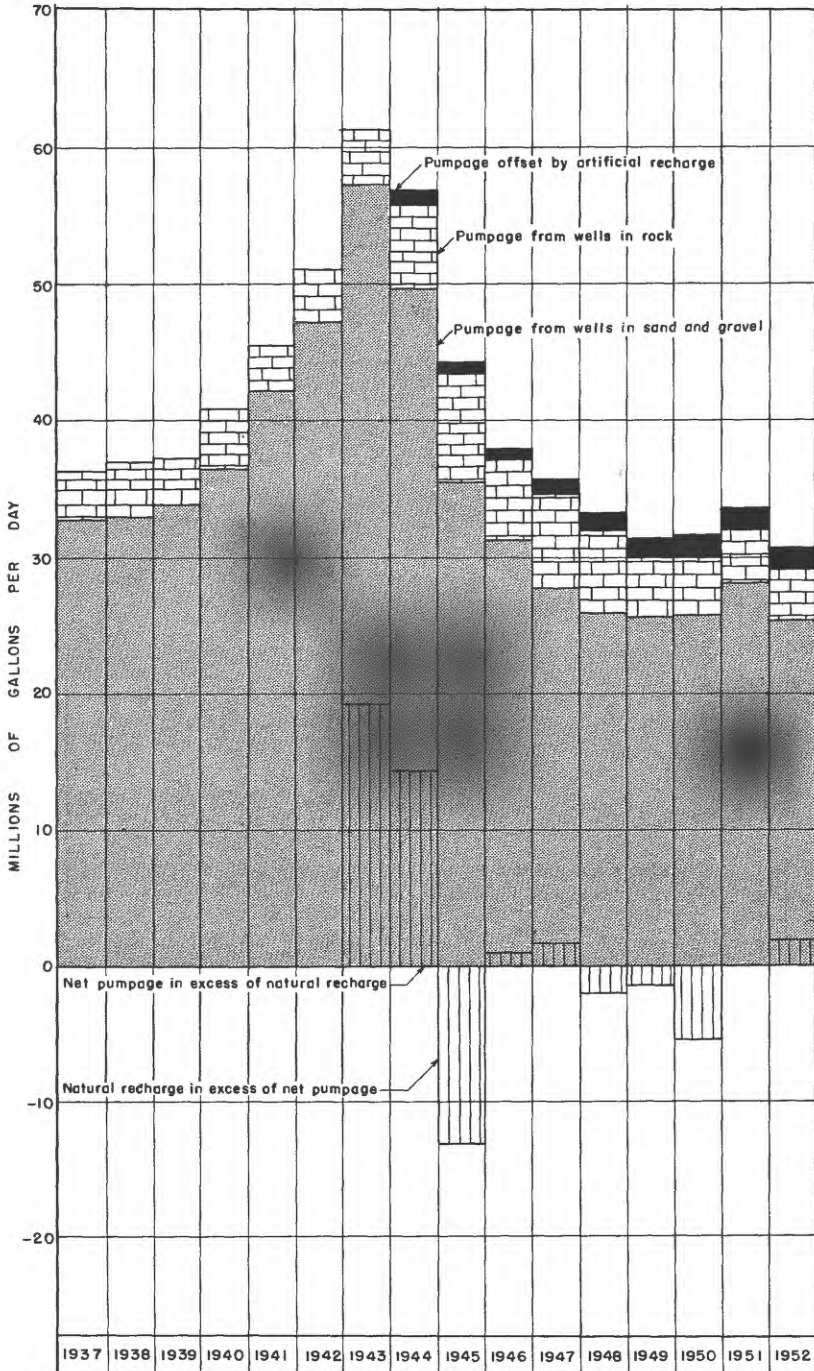


Figure 19. --Pumpage, 1937-52, and changes in storage, 1943-52, in the Louisville, Ky., area.

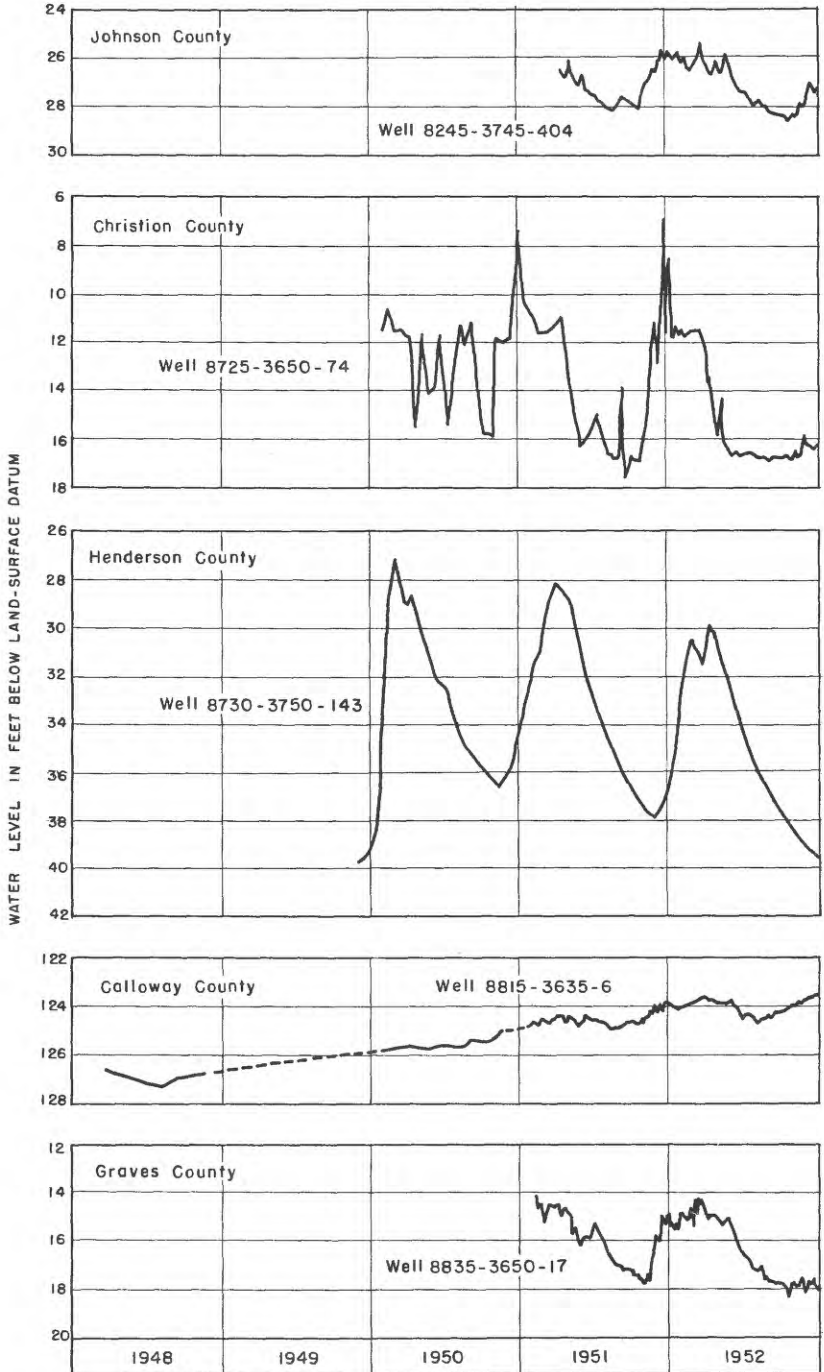


Figure 20. --Water levels in wells representative of various areas in Kentucky.

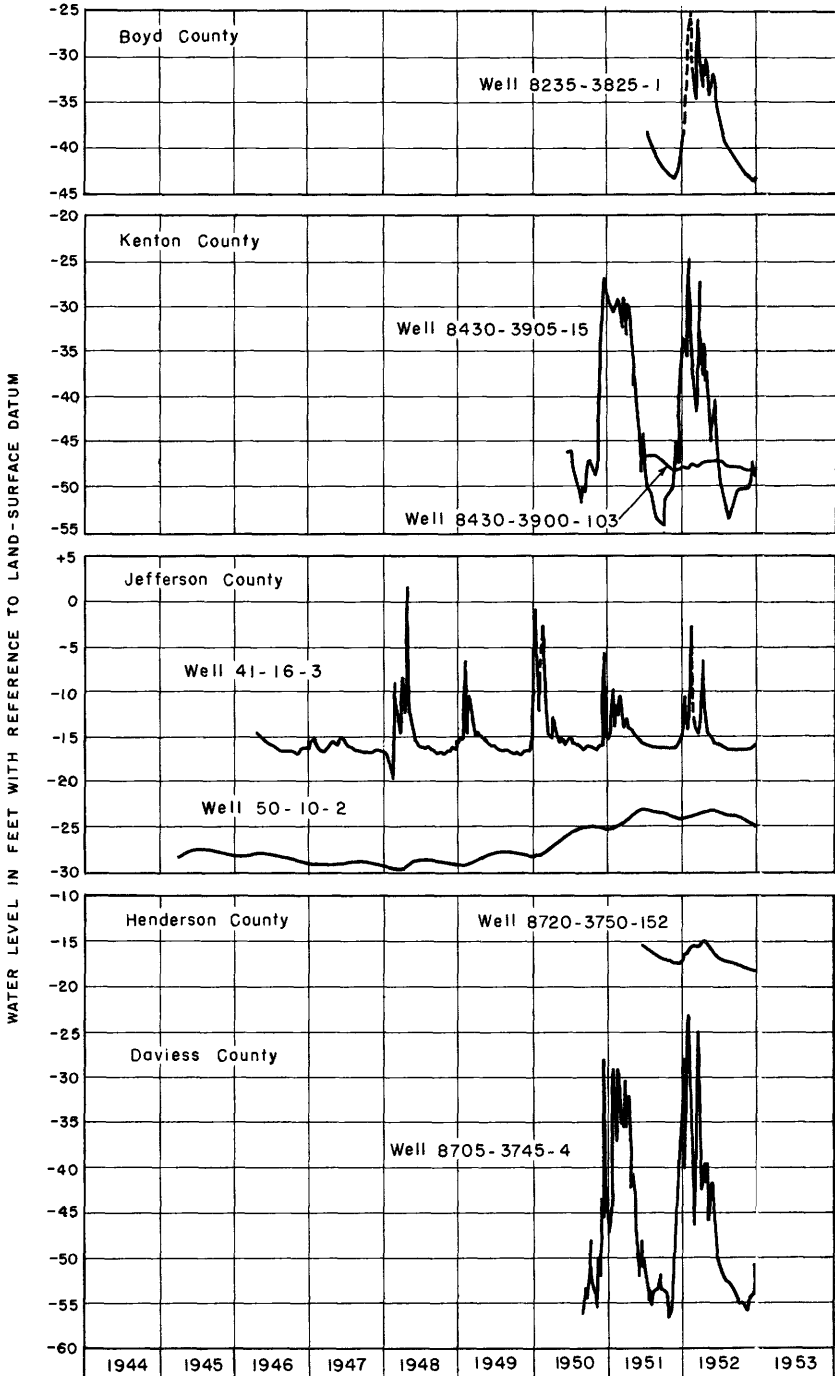


Figure 21.--Water-level fluctuations in wells in the Ohio River flood plain, Kentucky.

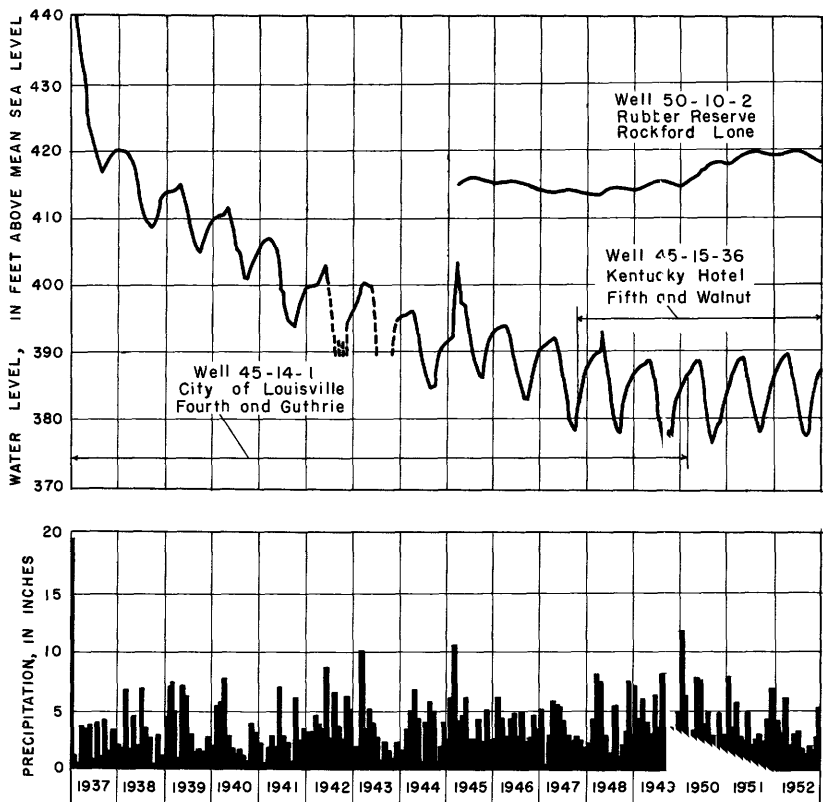


Figure 22. --Water level and precipitation in downtown area and in unpumped area south of Louisville, Ky.

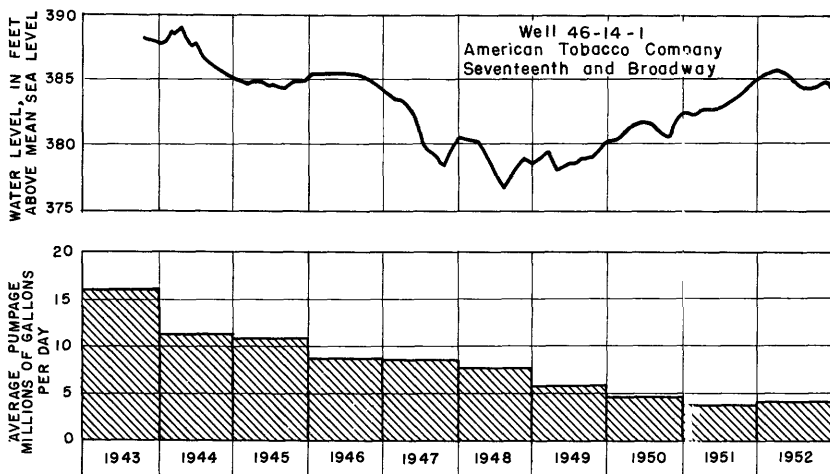


Figure 23. --Water level and pumpage in west-central part of Louisville, Ky., area, 1943-52.

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 Freathitt formation and is typical of wells in the sandstones 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 portion of the hydrograph in the latter part of 1952 corresponds with drought conditions and is in sharp contrast with the 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. The hydrograph shows a greater range of fluctuation than those of the other four wells. 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 Fipley formation, and the second, in the Holly Springs sand member of Claiborne group, are representative wells in the two principal aquifers of this region. In the hydrograph of well 8815-3335-6 the seasonal fluctuations due to effects of rainfall are superimposed on a long-term recovery or on a general rise due to higher than average rainfall during the period 1948-51.

Hydrographs of seven wells in the glacial outwash sands and gravels along the Ohio River flood plain are given in figure 21. 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. In wells 8430-3900-103, Kenton County; 50-10-2, Jefferson County; and 8720-3750-152, Henderson County, 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 have responded to several influences during 1952. The relatively low-production schedules of distillers, large water demands in the Rubbertown area, and the effects of several abnormally hot and dry months were the chief factors contributing to ground-water conditions. Gains in storage which occurred in some areas were more than offset by losses in other areas. Changes of water levels for the year ranged from an 11-foot decline in an observation well close to the river southwest of the city to a gain of 11 feet in a well in the south distillery area. Estimated loss of ground-water storage of nearly 2 million gallons per day represents an average decline of the water table of 0.5 foot. In figure 22, the graph of well 50-10-2 is typical of those for the unpumped area southwest of the city. The downward trend at the end of 1952 ended a 2-year period of record-high levels which reflected the wet years of 1950 and 1951. In the downtown area of Louisville (east of meridian 85°46' and north of parallel 38°13') there was no appreciable net change of water levels during the year. The graph of well 45-15-36, representative of the area, for 1952 was virtually a repetition of the graph for 1951. After the 1937 flood, water levels persisted in a downward trend until the low of record in August of 1949; since then the trend has remained fairly level, reflecting the above-normal recharge from rainfall in 1950 and 1951 and decreased usage because of the sewer tax. In the central industrial area (west of meridian 85°46' and north of parallel 38°13') the average water level dropped about 0.2 foot during the year. Pumpage was practically the same as in 1951. Figure 23 shows the graph of well 46-14-1 as representative of the area, and also a graph of the pumpage since 1943. The gradual improvement of the water table in this area the preceding 4 years was associated with a corresponding decrease of pumpage and greater than normal precipitation. In the distillery area south of Louisville, the water level rose an average of 0.3 foot during 1952 while the pumpage was reduced to about one-half that of 1951. Figure 24 shows the graph of well 47-12-1 as typical of this area. Water level in this well in 1952 was the highest since 1942. In the Rubbertown area southwest of the city, the water table declined an average of 1.5 feet during 1952 which was the third successive year in which the area has sustained a loss of ground-water storage. In the northern part of the area nearly all the year-end water levels were the lowest since 1945. In general, the post-war recovery of water levels in the Rubbertown area reached a maximum in 1948 and 1949. Since that time the levels have returned about halfway to the critical lows of 1944. Figure 25 shows the graph of well 49-13-24 as typical of the area; it also shows a graph of pumpage since 1942. Pumpage for 1952 was the same as in 1951 and about 60 percent as great as in 1944. A map of the Louisville area showing contours of water level in December 1952 is given in figure 26. A double depression is shown in the Rubbertown area with slight depressions in the distillery section and central part of the city. 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 a flow toward the river. Figure 27 shows changes of water level during the 4-year period, December 1948 to December 1952. The shaded portion in Rubbertown area shows losses greater than 5 feet, denoting the effect of sustained heavy pumping. The hatched areas in the central and south sections indicate gains of more than 5 feet, denoting the effects of decreased pumpage and greater than normal precipitation during the 4 years.

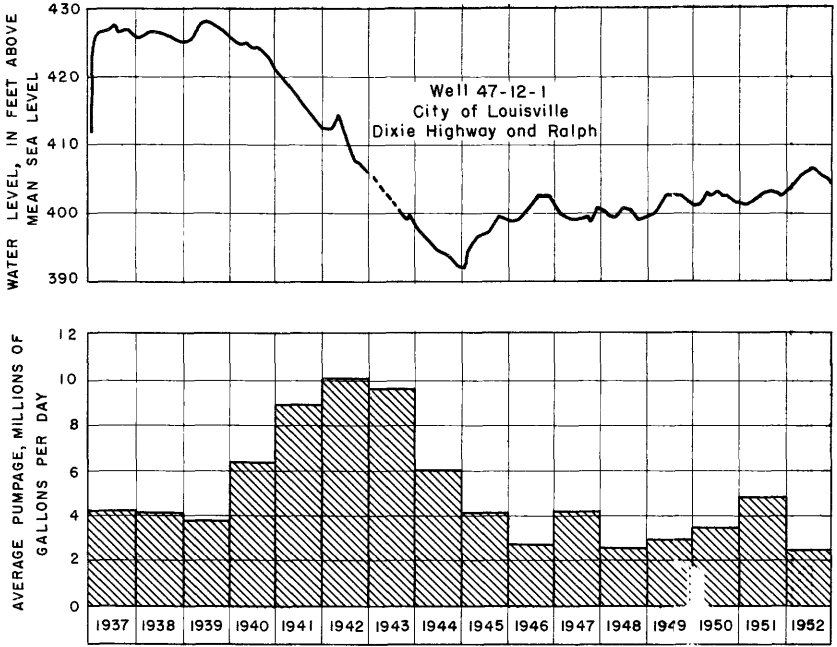


Figure 24. --Water level and pumpage in south distillery area, Louisville, Ky., 1937-52.

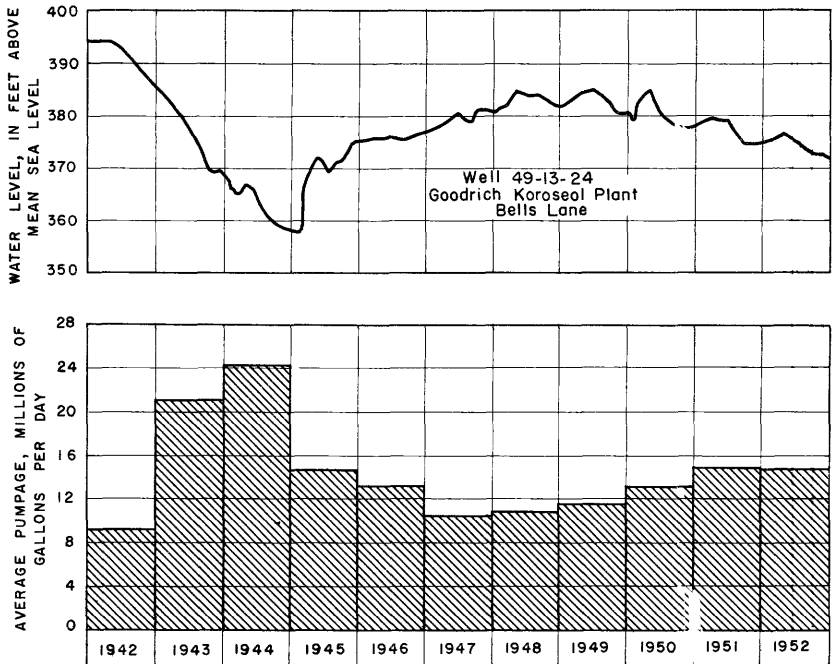


Figure 25. --Water level and pumpage in Rubbertown area, southwest of Louisville, Ky., 1942-52.

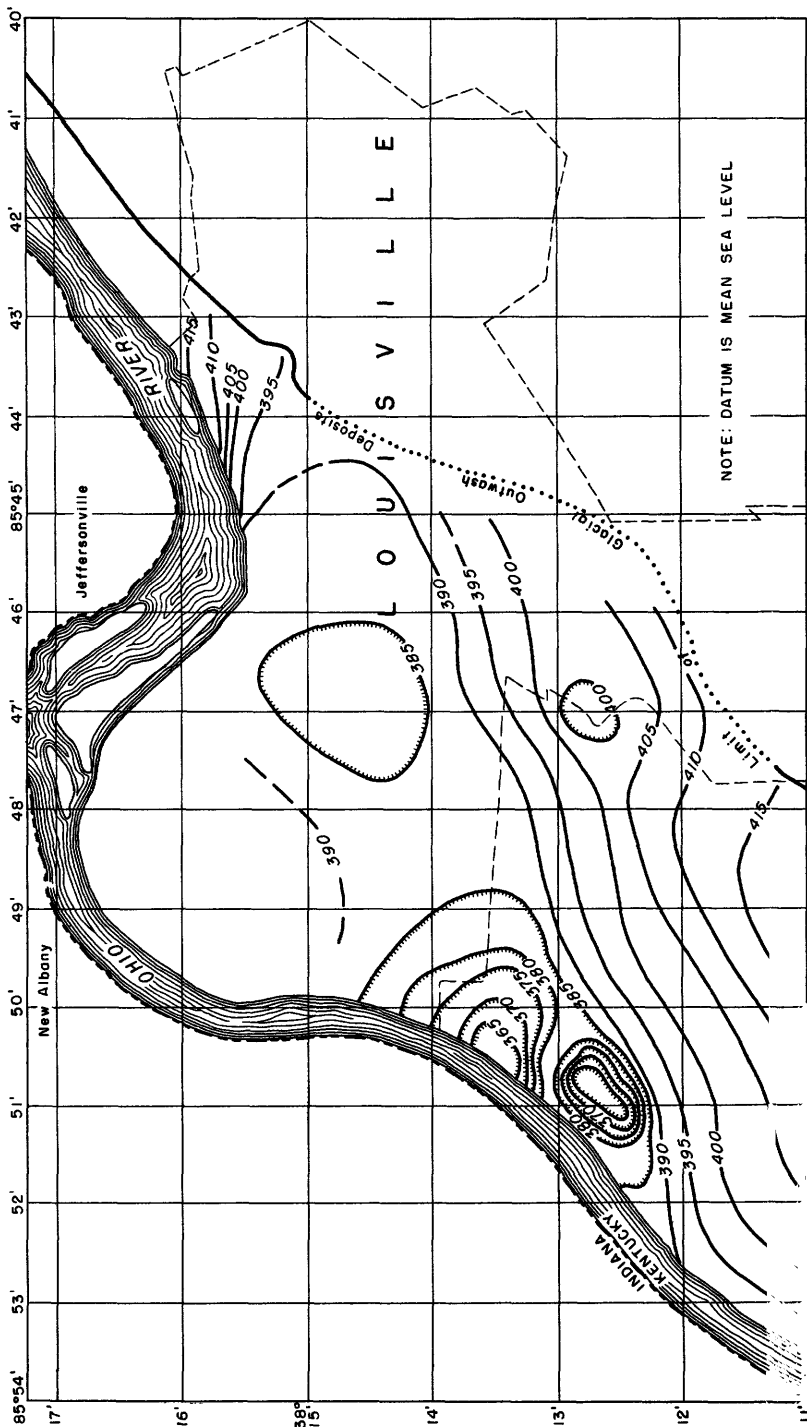


Figure 26. --Contours of water level in Louisville, Ky., area, December 1952.

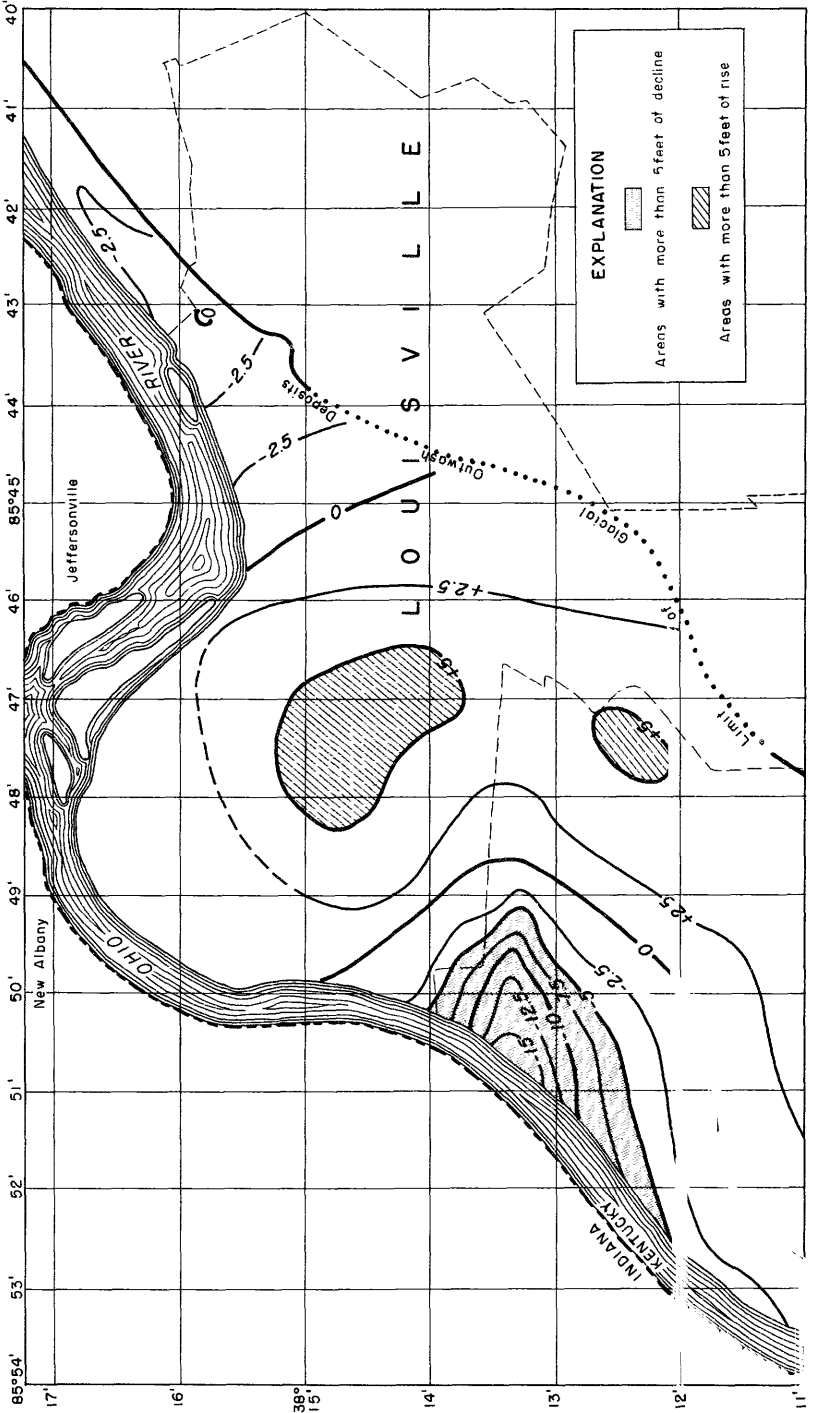


Figure 27. --Changes in water level in the Louisville, Ky., area, 1948-52.

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. Recording gage installed July 24, 1951. Highest water level 17.35 below lsd, Mar. 23, 1952; lowest 28.31 below lsd, Oct. 21, 29-30, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	27.98	27.88	27.86	.....	27.10
2	.....	27.99	27.94	27.79	.....	27.35
3	.....	27.98	28.05	27.84	27.08	27.40
4	.....	27.99	27.99	27.93	27.44	.....
5	.....	27.93	27.94	.....	27.89	.....
6	.....	27.91	27.95	.....	27.47	.....
7	.....	27.88	.....	.....	.....	.....
8	.....	27.90	.....	27.99	.....	.....
9	.....	27.92	.....	27.85	27.12	.....
10	.....	27.98	27.86	27.75	27.44	21.74
11	.....	27.99	.....	27.76	27.72	24.14
12	.....	28.00	.....	27.72	27.49	25.86
13	.....	27.99	.....	27.74	27.47	27.06
14	.....	27.97	.....	27.79	.....	.....
15	.....	27.98	.....	27.76	.....	.....
16	.....	27.94	.....	28.01	.....	.....
17	.....	27.98	27.95	28.06	.....	25.34
18	.....	27.99	27.95	28.03	.....	25.68
19	h27.52	28.00	27.96	28.06	26.88	26.97
20	.....	27.98	28.00	27.90	27.25	.....
21	.....	27.99	27.91	27.90	27.44	.....
22	.....	28.01	27.00	27.91	27.62	.....
23	.....	28.01	27.02	27.82	27.61	.....
24	27.98	27.95	27.41	27.80	.....	26.95
25	28.01	27.94	27.00	27.92	.....	.....
26	27.99	27.90	.....	27.87	20.46	.....
27	27.95	27.91	.....	27.83	21.80	.....
28	27.93	27.33	.....	27.73	24.68	.....
29	27.96	27.76	.....	27.90	26.50	.....
30	27.99	27.85	.....	27.89	26.92	.....
31	27.97	27.87	.....	27.93	.....	26.96

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	27.80	27.59	27.80	27.83	27.92	27.98	27.99	28.08	28.16	28.15
2	27.76	27.91	27.83	27.89	27.96	27.94	27.95	28.11	28.21	28.07
3	26.98	27.98	27.90	27.86	27.89	27.96	28.06	28.25	28.26	28.17
4	27.60	27.90	27.84	27.87	28.00	28.09	28.21	28.22	28.11
5	28.06	27.75	27.87	27.81	28.04	28.09	28.15	28.10	27.68

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8610-3640-5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	27.14	28.11	27.81	28.02	27.79	28.05	28.07	28.24	28.14	27.52
7	26.03	.....	27.48	28.10	27.95	27.99	27.79	28.05	28.06	28.23	28.29	27.66
8	.....	27.69	27.32	28.06	27.84	27.98	27.76	28.05	28.08	28.12	28.25	27.75
9	.....	.....	27.46	28.07	27.85	27.95	27.68	28.02	28.11	28.06	28.14	27.75
10	.....	.....	27.13	28.08	27.87	27.91	27.87	27.76	28.08	28.02	28.13	27.60
11	.....	27.61	.....	28.08	27.90	28.02	28.00	27.80	28.05	28.14	28.16	27.80
12	26.82	27.73	.....	27.86	28.11	27.98	28.05	27.87	28.05	28.11	28.22	27.80
13	26.79	27.60	.....	27.58	28.16	28.01	27.99	27.94	28.08	28.10	28.19	27.86
14	27.42	26.72	.....	27.94	28.10	28.00	27.98	27.94	28.07	28.12	28.14	27.90
15	27.87	27.01	.....	28.15	28.00	27.95	27.95	27.88	27.87	28.12	28.16	27.95
16	28.01	26.55	.....	28.20	28.04	27.90	27.98	27.83	27.69	28.20	28.23	28.02
17	27.76	26.68	27.61	28.20	28.04	27.92	28.01	27.98	27.69	28.19	28.23	27.96
18	.....	26.76	27.45	28.06	28.10	28.04	27.98	28.01	27.68	28.24	28.18	27.97
19	.....	26.48	27.69	27.95	27.94	28.00	27.89	27.99	27.75	28.15	28.08	27.99
20	.....	26.18	27.85	27.89	27.76	28.01	27.80	28.02	27.94	28.20	28.07	27.82
21	27.70	.....	28.00	27.87	28.24	28.02	27.83	28.03	28.01	28.31	28.13	28.00
22	23.09	.....	20.40	27.87	28.25	28.06	27.86	27.99	28.01	28.22	28.11	27.98
23	.....	.....	19.00	27.73	28.18	28.07	27.87	28.00	28.07	28.16	28.27	28.02
24	.....	.....	21.70	27.54	28.08	28.05	27.87	27.96	28.10	28.13	28.25	28.19
25	.....	27.43	24.51	27.75	27.98	28.02	27.87	27.98	28.08	28.12	28.11	28.16
26	.....	.....	26.36	27.76	27.98	28.03	27.88	28.01	28.04	28.16	28.14	28.17
27	.....	27.57	26.85	27.70	27.89	28.01	27.97	27.98	28.05	28.14	28.28	28.11
28	19.83	27.39	27.27	27.76	27.80	27.98	27.96	27.94	28.09	28.16	28.30	28.15
29	21.90	27.52	27.45	27.71	27.58	27.94	27.95	27.99	28.15	28.31	28.17	28.07
30	.....	.....	27.67	27.80	27.60	27.90	28.00	27.96	28.15	28.31	28.22	28.01
31	.....	.....	27.56	.....	27.73	.....	27.99	27.95	.....	28.23	.....	27.88

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, reported cased to 62. Recording gage installed July 12, 1951. Highest water level 25.00 below lsd, Feb. 8, 1952; lowest 43.75 below lsd, Dec. 11, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	39.33	.....	42.23	42.95	42.46
2	.....	39.41	.....	42.26	42.92	42.45
3	.....	39.44	.....	42.30	42.98	42.45
4	.....	39.59	.....	42.35	43.04	42.42
5	.....	39.62	.....	42.38	43.04	42.52
6	.....	39.65	.....	42.41	42.91	42.58
7	.....	39.69	.....	42.42	42.99	42.60
8	.....	39.80	41.47	42.49	43.08	42.65
9	.....	39.90	41.48	42.48	43.06	42.50
10	h37.57	39.97	41.51	42.51	43.04	42.41
11	.....	40.02	41.62	42.53	43.06	42.13
12	37.81	40.09	41.62	42.61	43.04	42.05
13	37.91	40.15	41.63	42.60	43.03	42.05
14	37.98	40.20	41.72	42.62	43.09	41.64
15	38.06	40.25	41.74	42.62	43.12	41.89
16	38.14	40.29	41.76	42.65	43.15	41.71
17	38.23	40.38	41.79	42.68	43.15	41.48
18	38.30	40.43	41.83	42.69	43.14	41.14
19	38.35	40.47	41.89	42.70	43.16	41.40
20	38.49	.....	41.92	42.71	43.17	41.17
21	38.53	.....	41.95	42.75	43.15	41.28
22	38.60	.....	41.94	42.76	43.16	41.27
23	38.67	.....	42.06	42.78	43.16	40.92
24	38.75	.....	42.04	42.85	43.24	40.70
25	38.83	.....	42.06	42.87	43.12	40.14
26	38.90	.....	42.10	42.84	43.12	40.24
27	38.96	.....	42.12	42.83	42.98	40.20
28	39.06	.....	42.22	42.85	42.78	39.78
29	39.13	.....	42.22	42.94	42.71	39.74
30	39.20	.....	42.20	42.90	42.56	39.74
31	39.25	.....	.....	42.95	.....	39.76

h Tape measurement.

8235-3825-1--Continued.

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.82	.....	33.74	29.58	30.25	31.98	37.23	39.45	40.83	42.10	43.07	43.61
2	39.68	.....	33.93	.....	30.29	32.40	37.34	39.46	40.87	42.13	43.09	43.57
3	39.47	.....	34.00	.....	31.19	32.81	37.42	39.52	40.96	42.21	43.11	43.65
4	38.47	.....	34.09	31.73	31.81	33.20	37.50	39.56	41.00	42.25	43.11	43.65
5	37.96	.....	34.50	32.00	32.18	33.58	37.59	39.65	41.03	42.29	43.09	43.60
6	26.15	34.44	.....	32.68	33.85	37.67	39.68	.....	42.34	43.13	43.66
7	25.96	34.33	32.53	33.06	34.08	37.77	39.72	.....	42.39	43.20	43.67
8	25.10	34.18	32.68	33.23	34.27	37.80	39.78	.....	42.40	43.21	43.67
9	34.10	32.77	33.50	34.49	37.90	39.81	.....	42.43	43.18	43.68
10	34.24	32.74	33.73	34.67	37.99	39.86	41.22	42.47	43.21	43.67
11	34.38	32.98	34.01	34.85	38.08	39.93	41.29	42.51	43.25	43.75
12	34.52	32.96	34.14	35.00	38.15	39.97	41.33	42.52	43.29	43.71
13	33.40	32.96	34.11	35.17	38.20	40.03	41.38	42.56	43.30	43.65
14	33.07	33.21	33.98	35.30	38.28	40.07	41.42	42.59	43.30	43.58
15	32.18	33.42	33.74	35.45	38.32	40.11	41.44	42.60	43.30	43.48
16	31.50	33.47	33.75	35.55	38.41	40.12	41.50	42.66	43.35	43.41
17	31.25	32.91	33.64	35.68	38.50	40.22	41.52	42.68	43.36	43.30
18	31.05	32.12	33.65	35.85	38.55	40.28	41.57	42.71	43.36	43.31
19	31.04	31.44	33.61	35.94	38.61	40.31	41.61	42.71	43.35	43.33
20	31.44	31.09	33.59	36.09	38.66	40.35	41.70	42.80	43.40	43.30
21	31.68	30.97	33.51	36.18	38.72	40.39	41.71	42.83	43.42	43.35
22	31.64	31.04	33.00	36.31	38.81	40.45	41.77	42.82	43.44	43.38
23	30.51	31.36	32.71	36.42	38.86	40.49	41.81	42.83	43.51	43.39
24	28.94	31.88	32.49	36.51	38.96	40.51	41.86	42.87	43.52	43.46
25	32.45	26.94	32.34	32.41	36.60	39.01	40.56	41.89	42.91	43.50	43.46
26	32.63	25.97	32.46	32.54	36.73	39.08	40.60	41.90	42.93	43.50	43.48
27	32.85	25.59	32.04	32.64	36.84	39.12	40.62	41.96	42.91	43.59	43.48
28	33.06	25.72	31.47	32.41	36.96	39.17	40.64	42.00	42.97	43.60	43.51
29	33.40	26.38	30.91	32.16	37.02	39.23	40.70	42.04	43.03	43.59	43.49
30	27.57	30.43	31.89	37.11	39.31	40.73	42.06	43.03	43.61	43.48
31	28.56	.....	31.84	.....	39.39	40.79	.....	43.02	.....	43.44

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. Recording gage installed Apr. 18, 1952. Highest water level 123.44 below lsd, Dec. 31, 1952; lowest 127.30 below lsd, Aug. 5, 1948. Records available: 1948-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	123.90	124.54	124.66	124.44	124.16	124.01	123.84
2	h123.89	.....	.....	.....	.....	123.87	124.57	124.64	124.36	124.23	124.05	123.88
3	123.92	124.52	124.60	124.41	124.28	124.05	123.90
4	123.94	124.42	124.53	124.41	124.20	124.04	123.76
5	123.97	124.40	124.65	124.37	124.13	123.97	123.77
6	123.99	124.38	124.73	124.38	124.05	124.05	123.76
7	124.04	124.41	124.74	124.35	124.10	124.10	123.71
8	124.03	124.43	124.74	124.34	124.09	124.05	123.66
9	124.02	124.39	124.72	124.45	123.99	123.91	123.66
10	124.09	124.36	124.65	124.56	124.12	123.85	123.63
11	124.15	124.39	124.58	124.54	124.12	123.95	123.71
12	124.20	124.47	124.59	124.54	124.00	123.95	123.74
13	124.25	124.45	124.59	124.54	124.05	123.95	123.75
14	124.30	124.42	124.54	124.27	124.07	123.95	123.70
15	123.96	124.23	124.46	124.50	124.28	124.09	123.94	123.69
16	123.93	124.29	124.43	124.53	124.23	124.07	123.91	123.73
17	123.96	124.37	124.42	124.47	124.18	124.10	123.87	123.74
18	123.81	123.92	124.41	124.42	124.45	124.16	124.04	123.85	123.76
19	123.79	123.82	124.46	124.45	124.46	124.18	124.00	123.81	123.78
20	123.75	123.82	124.47	124.40	124.55	124.20	124.13	123.81	123.68
21	123.77	123.90	124.49	124.35	124.62	124.15	124.10	123.83	123.62
22	123.85	123.92	124.36	124.45	124.64	124.11	124.09	123.85	123.57
23	123.84	123.94	124.47	124.49	124.64	124.19	124.09	123.87	123.71
24	h123.60	123.81	123.90	124.48	124.54	124.54	124.21	124.09	123.81	123.71
25	123.84	123.82	124.52	124.56	124.58	124.19	124.05	123.72	123.67

8815-3635-6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	123.79	124.59	124.58	124.64	124.19	123.97	123.90	123.62
27	h123.80	.....	.....	123.89	124.62	124.58	124.64	124.16	124.07	123.89	123.63
28	123.94	124.68	124.55	124.65	124.15	124.12	123.90	123.60
29	h124.11	.....	.....	.....	123.95	124.54	124.62	124.68	124.14	124.08	123.94	123.54
30	123.93	124.57	124.65	124.62	124.17	124.07	123.91	123.51
31	123.87	.....	124.65	124.48	.....	124.05	.....	123.49

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. Recording gauge installed Aug. 16, 1951. Highest water level 8.50 below lsd, Feb. 4, 1952; lowest 12.49 below lsd, Nov. 30, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.39	10.44	10.76	9.90	17	10.94	10.31	10.83	9.94	9.74
2	10.43	10.34	10.67	9.93	18	10.97	10.30	10.82	10.05	9.33
3	10.48	10.32	10.67	9.91	19	11.03	10.38	10.81	10.20	9.70
4	10.55	10.38	10.75	9.68	20	11.05	10.45	10.75	10.32	9.31
5	10.49	10.43	10.95	9.73	21	10.99	10.48	10.78	10.27	9.05
6	10.43	10.50	10.62	9.77	22	11.12	10.32	10.82	10.24	9.25
7	10.53	10.47	10.31	9.85	23	11.26	10.49	10.81	10.10	9.33
8	10.67	10.65	10.41	9.78	24	11.26	10.44	10.79	10.03	9.59
9	h10.77	10.56	10.66	10.49	9.57	25	11.28	10.37	11.02	9.80	9.39
10	10.45	10.68	10.45	9.60	26	11.20	10.38	10.91	9.64	9.43
11	10.62	10.65	10.46	9.33	27	10.96	10.30	10.75	9.73	9.61
12	10.63	10.80	10.29	9.35	28	10.60	10.59	10.59	9.71	9.35
13	10.53	10.88	10.12	9.69	29	10.53	10.68	10.82	9.90	9.21
14	10.45	10.89	9.93	9.46	30	10.47	10.54	10.73	9.93	9.10
15	10.37	10.81	9.97	9.46	31	10.40	.....	10.79	.....	9.09
16	10.34	10.79	9.82	9.75	.....	.....	.....	.....	.....	.....

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	9.24	9.29	9.65	9.26	9.65	9.74	10.40	11.05	11.39	11.94	12.52	12.79
2	9.18	9.24	9.69	9.40	9.62	9.80	10.43	10.95	11.38	11.98	12.53	12.53
3	9.28	8.96	9.39	9.53	9.83	9.74	10.39	10.97	11.61	12.24	12.63	12.71
4	9.02	8.53	9.18	9.36	9.85	9.78	10.40	10.95	11.69	12.15	12.57	12.59
5	8.95	8.83	9.60	9.31	9.77	9.84	10.45	11.08	11.70	12.14	12.34	12.42
6	8.99	8.93	9.68	9.44	9.82	9.85	10.48	11.09	11.65	12.24	12.40	12.44
7	9.21	9.14	9.75	9.53	9.99	9.88	10.48	11.14	.....	12.33	12.68	12.40
8	8.93	8.92	9.68	9.59	9.80	9.90	10.32	11.13	.....	12.24	12.72	12.38
9	9.04	9.21	9.48	9.59	9.79	9.95	10.41	11.06	11.84	12.16	12.55	12.25
10	9.35	9.19	9.31	9.52	9.65	9.95	10.47	11.08	11.81	12.23	12.59	11.96
11	9.61	9.22	8.99	9.68	9.70	10.06	10.58	11.12	11.80	12.34	12.55	11.87
12	9.51	9.38	9.19	9.47	9.79	10.02	10.70	11.14	11.79	12.29	12.68	11.62
13	9.42	9.37	8.88	9.28	9.86	10.10	10.66	11.28	11.81	12.26	12.68	11.58
14	9.38	9.42	9.31	9.39	9.92	10.15	10.60	11.25	11.81	12.28	12.66	11.61
15	9.43	9.42	9.35	9.55	9.76	10.17	10.61	11.16	11.75	12.25	12.61	11.61
16	9.64	9.26	9.43	9.78	9.87	10.15	10.68	11.03	11.75	12.36	12.70	11.66
17	9.34	9.23	9.54	9.84	9.91	10.14	10.75	11.27	11.71	12.35	12.74	11.59
18	9.29	9.38	9.44	9.81	10.01	10.29	10.75	11.31	11.70	12.43	12.68	11.62
19	9.13	9.38	9.29	9.78	9.90	10.27	10.68	11.32	11.72	12.26	12.44	11.70
20	9.13	9.21	9.25	9.81	9.45	10.36	10.64	11.33	11.93	12.58	12.46	11.45
21	9.36	9.44	9.28	9.84	9.49	10.37	10.67	11.29	11.97	12.70	12.39	11.50
22	8.90	9.56	9.00	9.84	9.57	10.39	10.73	11.41	11.93	12.56	12.40	11.47
23	9.30	9.46	8.92	9.78	9.59	10.43	10.75	11.46	12.00	12.46	12.73	11.41
24	9.56	9.45	9.02	9.78	9.55	10.36	10.87	11.48	12.11	12.40	12.81	11.59
25	9.39	9.63	9.13	9.72	9.48	10.34	10.89	11.54	12.06	12.47	12.62	11.56
26	9.11	9.52	9.26	9.69	9.67	10.39	10.91	11.55	11.95	12.50	12.46	11.58
27	8.95	9.46	9.34	9.60	9.75	10.48	10.87	11.50	12.03	12.31	12.74	11.51
28	.....	9.28	9.42	9.56	9.74	10.54	10.81	11.43	12.06	12.29	12.86	11.58
29	9.07	9.42	9.45	9.59	9.76	10.49	10.86	11.48	12.10	12.64	12.74	11.47
30	9.36	.....	9.53	9.67	9.72	10.34	10.93	11.44	12.04	12.64	12.86	11.36
31	9.43	.....	9.42	.....	9.67	.....	11.00	11.41	.....	12.52	.....	11.11

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 6.95 below lsd, Dec. 23, 1951; lowest 17.70 below lsd, Sept. 21, 1951. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.74	11.76	.....	11.97	15.77	16.65	.....	16.73	16.91	16.90	16.94	16.76
2	10.78	11.78	.....	12.30	15.76	16.67	.....	.....	.....	16.93	16.94	15.92
3	10.70	11.68	.....	12.60	15.85	16.70	.....	16.70	.....	16.93	16.92	16.31
4	8.70	11.63	.....	12.28	15.98	16.72	.....	.....	.....	16.92	16.92	.....
5	9.72	11.58	.....	12.50	16.05	16.74	.....	.....	.....	16.89	16.93	.....
6	10.50	11.58	.....	12.73	16.15	16.74	.....	.....	.....	.....	16.93	.....
7	10.84	11.61	.....	12.94	16.18	16.76	.....	.....	.....	16.83	16.92	.....
8	11.25	11.66	.....	13.18	16.15	16.75	.....	16.76	.....	16.89	16.94	.....
9	11.50	11.70	.....	13.50	16.20	16.75	.....	16.76	.....	.....	16.73	.....
10	11.62	11.74	.....	13.74	14.32	16.71	.....	16.80	.....	.....	16.60	.....
11	11.70	11.81	.....	13.98	15.91	16.74	.....	16.77	16.97	.....	16.73	.....
12	11.75	11.84	.....	14.10	16.10	16.77	.....	16.72	16.91	.....	16.83	.....
13	11.79	11.87	.....	13.01	16.22	16.77	.....	16.79	16.96	.....	16.84	.....
14	11.80	11.70	.....	13.37	16.25	16.78	.....	16.77	.....	16.79	16.85	.....
15	11.81	11.72	.....	13.60	16.31	16.66	.....	16.83	.....	16.78	16.87	.....
16	11.83	.....	.....	13.95	16.34	16.80	.....	16.84	.....	16.79	16.87	.....
17	11.84	.....	.....	14.22	16.33	16.80	.....	16.86	16.82	16.83	16.85	.....
18	.....	.....	11.57	14.47	16.35	16.80	.....	16.88	16.76	16.86	.....	.....
19	.....	.....	.....	14.72	16.35	16.78	.....	16.87	16.72	16.86	.....	.....
20	.....	.....	.....	14.89	16.35	16.80	.....	16.84	16.82	16.87	.....	.....
21	.....	.....	.....	15.06	16.43	16.81	.....	16.86	16.85	16.86	.....	.....
22	.....	.....	.....	15.21	16.48	16.82	.....	16.85	16.84	16.90	.....	.....
23	.....	.....	.....	15.25	16.53	16.78	.....	16.86	16.86	16.90	.....	16.29
24	11.30	.....	.....	15.35	16.51	16.76	.....	16.89	16.83	16.91	.....	16.39
25	11.42	.....	.....	15.51	16.51	16.79	16.65	16.87	16.84	16.93	.....	16.48
26	11.57	.....	.....	15.56	16.55	16.77	16.70	16.90	16.86	16.94	.....	16.49
27	11.58	.....	.....	15.65	16.58	16.77	16.70	16.92	16.86	16.94	.....	16.54
28	11.62	.....	.....	15.75	16.61	16.79	16.71	16.93	16.89	16.94	.....	16.58
29	11.65	.....	.....	15.72	16.62	16.75	16.72	16.91	16.88	16.94	.....	16.58
30	11.69	.....	.....	15.78	16.64	16.76	16.66	16.88	16.89	16.94	.....	15.50
31	11.73	.....	.....	.....	16.65	.....	16.72	16.87	.....	16.94	.....	16.35

h Tape measurement.

Daviess County

8705-3745-4. Fleischmann Distilling Corp. Lat. 37°47', long. 87°08'. Drilled unused artesian and water-table well in alluvium of Pleistocene 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 57.07 below lsd, Nov. 1, 1951. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.84	28.53	43.82	25.65	41.75	42.13	50.60	52.57	53.02	54.81	55.54	54.30
2	36.61	27.40	43.57	26.65	42.15	42.14	50.70	52.61	52.96	54.88	55.66	.....
3	37.04	26.25	45.17	28.39	40.47	42.09	50.72	52.65	53.05	54.75	55.64	.....
4	36.90	25.10	45.72	30.44	39.89	42.15	50.84	52.70	53.24	54.98	55.65	.....
5	.....	.....	46.28	32.69	39.57	42.44	50.95	52.76	53.49	54.91	55.57	.....
6	.....	.....	46.59	34.96	39.90	43.06	50.99	52.76	53.33	54.66	55.67	54.66
7	.....	23.63	46.66	36.86	40.82	43.94	51.03	52.76	53.20	54.96	55.29	54.49
8	.....	23.47	46.59	38.31	41.87	45.19	51.14	52.80	53.12	55.11	.....	54.27
9	.....	23.66	46.34	39.27	43.00	46.24	51.31	52.83	53.09	55.16	.....	54.37
10	.....	23.83	45.91	39.84	44.04	47.15	51.42	52.87	53.27	54.93	55.25	54.42
11	28.28	24.39	45.31	40.50	44.89	47.79	51.55	52.74	53.43	55.11	55.57	54.15
12	28.09	25.70	44.16	40.88	45.45	48.28	51.60	52.71	53.59	55.03	55.83	53.67
13	28.43	25.82	42.04	41.19	45.93	48.68	51.65	52.79	53.90	54.78	55.72	53.38
14	29.31	26.88	42.05	41.55	46.15	48.99	51.71	52.72	54.06	54.85	.....	53.08
15	30.78	28.35	38.40	41.89	46.35	49.25	51.81	52.65	53.86	54.92	.....	52.74
16	32.53	29.96	37.14	42.01	46.39	49.50	51.88	52.64	53.86	55.35	.....	52.51
17	34.16	31.75	34.92	42.05	46.28	49.71	51.91	52.59	53.94	55.02	55.12	52.04
18	35.94	33.58	34.84	42.22	46.01	49.88	51.96	52.51	54.02	55.16	55.10	51.58
19	37.61	35.26	34.10	42.40	45.65	50.04	51.99	52.51	53.99	55.04	55.06	51.17
20	38.89	36.65	33.71	42.32	45.33	50.21	52.01	52.55	54.37	54.79	55.03	50.85

8705-3745-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	40.04	37.80	33.58	41.84	45.13	50.34	52.03	52.60	54.75	54.84	54.86	.....
22	40.29	38.62	33.68	41.15	44.94	50.41	52.04	52.72	54.41	55.03	54.99	.....
23	40.06	39.22	33.68	40.48	44.82	50.37	52.06	52.75	54.39	.....	54.94	h50.80
24	39.26	39.73	33.12	40.08	44.56	50.39	52.10	52.68	54.42	55.01	54.65	51.00
25	37.80	40.30	32.03	39.99	43.92	50.38	52.15	52.68	54.47	55.43	54.49	51.12
26	36.20	40.92	30.57	40.34	42.99	50.34	52.21	52.69	54.36	55.46	54.36	51.15
27	34.84	41.69	29.11	40.75	42.21	50.31	52.28	52.67	54.55	55.04	54.37	51.12
28	33.56	42.38	27.74	41.20	41.75	50.28	52.36	52.77	54.57	54.96	54.27	51.13
29	32.28	43.08	26.64	41.74	41.70	50.34	52.40	52.85	54.53	55.02	54.37	51.15
30	30.96	.....	25.91	41.94	41.81	50.46	52.45	53.02	54.67	55.21	54.35	51.20
31	29.68	.....	25.47	.....	42.03	.....	52.52	53.07	.....	55.00	.....	51.31

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 74 feet. Highest water level 26.0 below lsd, Feb. 8, 1952; lowest 55.72 below lsd, July 29, 1952. Records available: 1951-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.06	32.92	46.68	31.18	44.67	43.20	55.55	53.12	51.14	52.28	50.73	50.45
2	39.36	31.43	47.58	33.28	43.75	44.21	54.97	53.55	53.23	52.85	50.49	50.50
3	41.03	.....	47.68	35.59	42.30	44.53	54.65	47.30	54.16	51.16	50.44	50.67
4	38.73	h27.54	48.93	37.69	40.75	46.89	54.01	52.96	53.16	51.01	50.55	50.97
5	36.53	.....	49.13	39.92	42.72	.....	47.82	53.66	53.36	50.93	50.27	50.69
6	33.23	.....	49.06	39.35	44.51	.....	48.42	53.73	52.60	50.08	51.03	50.94
7	32.62	.....	50.08	43.13	46.40	.....	53.79	53.56	51.78	50.34	50.78	50.35
8	32.53	e26.0	49.59	43.54	49.18	.....	54.44	53.81	52.06	51.09	50.56	49.70
9	32.01	.....	46.53	44.73	49.08	.....	.....	53.78	53.18	50.82	47.07	50.94
10	30.86	.....	46.51	45.29	48.51	54.20	.....	49.03	53.24	50.78	50.25	51.35
11	31.87	30.18	.....	44.84	46.31	54.35	.....	52.50	54.18	50.92	.....	50.89
12	32.76	30.72	.....	44.98	47.16	54.36	.....	52.97	53.42	50.49	.....	51.32
13	32.12	32.23	.....	44.97	53.51	54.17	.....	52.41	53.43	50.28	h50.73	51.90
14	37.28	32.92	.....	45.00	53.52	54.05	h53.43	52.94	50.81	51.43	50.45	.....
15	41.09	36.01	.....	46.23	54.79	48.51	.....	53.05	52.49	50.88	50.62	.....
16	42.13	37.03	.....	46.11	54.27	54.64	.....	52.78	52.70	51.35	51.14	.....
17	43.94	37.58	.....	46.48	54.28	55.06	.....	47.40	53.26	51.34	h48.17	52.39
18	42.35	36.32	37.70	47.06	46.48	55.47	.....	52.92	.....	51.28	.....	51.99
19	43.99	41.03	36.59	46.00	47.01	55.22	.....	53.11	h52.48	49.75	50.51	52.49
20	43.78	43.36	36.72	44.21	52.93	55.40	.....	53.26	52.56	50.82	50.70	50.74
21	46.92	42.86	38.49	42.73	48.14	54.64	h53.23	53.16	50.58	.....	51.00	47.72
22	43.58	47.48	37.63	43.35	47.60	53.92	53.72	53.43	51.29	.....	50.56	50.47
23	.....	44.68	35.51	43.30	48.56	53.92	54.84	50.57	51.66	h51.78	.....	50.74
24	.....	41.83	34.54	42.88	47.15	54.45	55.19	46.98	52.10	51.04	.....	50.05
25	.....	48.98	35.13	44.03	42.57	54.44	53.82	53.46	53.18	50.98	.....	49.96
26	.....	47.75	32.73	44.11	49.50	55.06	53.88	53.63	53.02	50.55	h51.61	49.85
27	.....	50.33	31.55	43.62	45.03	55.61	47.72	54.00	51.73	50.61	51.07	49.92
28	h39.36	48.22	29.70	45.13	49.44	.....	54.30	54.04	49.93	51.64	48.82	49.94
29	36.23	50.56	28.93	46.65	50.07	.....	55.31	54.10	51.48	51.09	51.66	49.69
30	32.64	.....	28.35	47.05	49.05	h55.32	54.72	53.26	53.05	50.97	52.80	51.97
31	35.02	.....	29.74	.....	43.89	.....	53.34	51.30	.....	50.84	.....	51.15

h Tape measurement.

e Estimated.

8705-3745-33. Malco Theater 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 39.63 below lsd, Aug. 22, 1952. Records available: 1951-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.10	22.44	34.95	.....	33.43	34.23	38.18	38.66	.....	38.16	37.34	37.11
2	29.65	21.63	34.70	.....	32.90	34.49	38.44	38.69	.....	38.14	37.36	37.08
3	30.03	20.48	34.58	.....	32.37	34.18	38.37	38.40	.....	37.97	37.65	37.13
4	29.02	20.02	55.02	.....	32.09	34.74	38.17	38.53	.....	38.62	37.27	36.89
5	28.28	19.67	35.26	.....	32.03	35.18	38.22	38.87	38.62	38.71	36.98	37.06

8705-3745-33--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	26.91	19.33	35.29	.....	32.87	34.83	38.03	38.85	38.97	38.68	37.29	37.10
7	25.40	19.17	35.43	29.87	33.53	36.59	38.13	38.58	.....	38.56	37.44	37.18
8	23.81	18.90	35.47	30.68	34.58	36.45	37.96	38.60	.....	38.37	37.18	37.15
9	23.29	.....	35.16	31.23	35.16	36.78	37.89	38.70	.....	38.29	37.78	.....
10	23.14	.....	34.69	31.80	35.48	36.68	38.22	38.66	.....	37.46	37.18	37.16
11	22.70	20.07	34.83	31.95	35.37	36.93	38.30	38.57	h39.00	37.47	37.21	37.37
12	22.63	20.39	33.53	31.90	35.36	36.92	38.39	38.94	38.74	37.35	37.28	37.46
13	23.07	20.92	31.34	32.41	35.35	37.16	38.19	38.89	38.94	37.37	37.66	37.46
14	24.11	22.01	30.01	32.90	35.30	37.24	38.23	38.90	38.56	37.65	37.09	37.57
15	25.69	23.27	28.76	33.14	35.77	37.03	.....	38.69	38.99	37.65	37.23	37.73
16	27.07	24.43	27.84	33.16	36.83	37.42	.....	39.02	38.38	38.21	37.47	37.96
17	28.05	26.14	27.00	33.00	35.86	37.52	.....	38.97	38.06	37.53	37.47	37.91
18	29.91	27.61	25.98	33.04	36.23	37.64	.....	39.04	38.31	37.55	37.40	38.10
19	30.59	.....	25.96	33.31	35.82	37.56	.....	38.99	38.35	37.30	37.22	38.08
20	32.12	.....	25.76	33.55	35.44	37.63	.....	39.11	38.41	37.61	37.25	37.97
21	32.70	.....	25.99	32.93	35.55	37.67	h38.51	39.23	38.32	37.51	37.34	37.92
22	32.18	.....	26.18	32.38	35.57	37.70	38.36	39.16	38.46	37.35	37.32	37.58
23	32.11	.....	26.31	31.71	35.80	37.39	38.61	39.06	38.18	37.28	37.64	37.64
24	30.85	.....	25.53	31.18	35.92	37.78	38.69	38.84	38.08	37.31	37.47	37.71
25	28.99	.....	24.38	31.23	34.83	37.55	38.78	39.03	37.98	37.42	37.24	37.55
26	27.76	h32.39	23.36	31.34	33.97	37.96	38.71	39.00	37.78	37.46	37.57	37.46
27	27.01	32.93	22.12	32.00	33.95	38.16	38.59	38.92	38.44	37.38	37.64	37.48
28	26.07	33.22	21.04	32.79	33.49	38.25	38.46	38.73	38.17	37.59	37.57	37.46
29	25.30	33.90	20.32	33.69	33.43	38.11	38.73	39.09	38.09	37.65	37.21	37.26
30	24.39	.....	19.98	33.77	33.40	37.90	38.78	39.03	38.08	37.39	37.41	37.20
31	23.35	.....	19.67	.....	34.13	.....	38.81	.....	.....	37.25	.....	37.59

h Tape measurement.

Floyd County

8245-3740-1. B. M. Thompson. Lat. 37°40', long. 82°46'. Drilled unused water-table well in shale and sandstone of Breathitt formation, diameter 6 inches, depth 80 feet. Highest water level 31.16 below lsd, Mar. 25, 1952; lowest 39.24 below lsd, Nov. 21, 1952. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.30	33.63	35.16	33.22	.....	34.48	36.04	37.20	37.75	38.41	38.99	39.00
2	36.37	33.79	35.15	33.40	.....	34.59	36.10	37.22	37.77	38.45	39.01	38.98
3	36.39	33.85	35.04	33.54	.....	34.66	36.14	37.25	37.82	38.50	39.03	39.03
4	36.28	33.90	34.50	33.54	.....	34.74	36.19	37.25	37.85	38.49	39.04	39.04
5	36.21	34.05	33.79	33.70	.....	34.84	36.26	37.28	37.87	38.52	39.05	39.02
6	36.17	33.98	33.94	33.79	33.65	34.93	36.31	37.29	37.89	38.54	39.07	39.03
7	36.19	34.13	34.13	33.86	33.81	35.00	36.32	37.27	37.92	38.57	39.10	39.00
8	36.15	34.14	.....	33.93	33.87	35.08	36.34	37.30	37.95	38.57	39.11	38.95
9	36.23	34.29	34.26	34.01	34.00	35.16	36.41	37.31	37.98	38.58	39.12	38.95
10	36.24	34.37	34.32	34.06	34.01	35.19	36.45	37.35	38.00	38.65	39.13	38.90
11	35.46	34.40	34.46	34.17	33.93	35.27	36.51	37.40	38.04	38.64	39.14	38.55
12	35.38	.....	33.96	34.19	33.79	35.30	36.53	37.40	38.06	38.64	39.16	38.06
13	35.50	34.65	33.78	34.24	33.36	35.36	36.56	37.40	38.16	38.66	39.19	38.31
14	35.56	34.37	34.00	34.28	33.43	35.43	36.60	37.26	38.13	38.66	39.18	38.39
15	35.63	34.07	34.11	34.33	33.56	35.48	36.65	37.33	38.13	38.67	39.18	38.43
16	35.70	34.00	34.23	34.38	33.73	35.53	36.71	37.36	38.15	38.69	39.19	38.44
17	35.72	33.97	34.41	34.41	33.87	35.60	36.72	.....	38.17	38.71	39.19	38.46
18	35.71	34.03	34.49	34.44	34.04	35.67	36.74	37.45	38.19	38.74	39.19	38.45
19	35.50	34.05	34.59	34.49	34.09	35.72	36.69	37.48	38.20	38.74	39.21	38.52
20	35.46	34.12	34.59	34.54	33.97	35.79	36.72	37.50	38.22	38.78	39.23	38.51
21	35.47	34.30	34.56	34.58	33.93	35.85	36.77	37.54	38.24	38.81	39.21	38.54
22	35.32	34.47	34.21	34.64	33.97	35.86	36.81	37.54	38.22	38.82	39.17	38.56
23	34.23	34.55	32.27	34.69	34.06	35.65	36.86	37.51	38.24	38.83	38.98	38.57
24	33.68	e34.61	.....	34.74	34.16	35.52	36.91	37.51	38.27	38.85	38.99	38.61
25	34.21	34.79	31.18	34.54	34.19	35.53	36.94	37.53	38.29	38.87	38.94	38.61
26	34.40	34.83	.....	34.38	34.30	35.67	36.99	37.62	38.30	38.89	38.92	38.63
27	34.35	34.90	.....	33.69	34.34	35.77	37.02	37.61	38.33	38.89	38.56	38.64
28	33.53	34.91	.....	32.84	34.41	35.86	37.06	37.63	38.36	38.92	38.96	38.67
29	32.89	35.04	.....	31.90	34.48	35.92	37.10	37.67	38.37	38.95	38.96	38.68
30	33.02	.....	.....	32.11	34.41	35.96	37.15	37.74	38.39	38.97	38.99	38.68
31	33.44	.....	.....	.....	34.39	.....	37.17	37.72	.....	38.98	.....	38.66

e Estimated.

8245-3740-11. Julia Blackburn. Lat. 37°40', long. 82°46'. Dug unused water-table well in alluvium of Quaternary age, diameter 18 inches, depth 19 feet, lined with tile. Highest water level 2.78 below lsd, Mar. 24, 1952; lowest 16.15 below lsd, Nov. 21, 1952. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.04	8.57	8.83	9.20	8.76	6.07	9.72	11.79	13.16	15.11	15.84	14.69
2	9.09	8.70	9.06	9.30	8.95	6.27	8.87	11.80	13.21	15.13	15.87	14.61
3	7.20	8.56	7.75	9.44	9.18	9.39	9.95	11.86	13.32	15.18	15.90	14.59
4	7.47	7.34	7.31	9.45	9.34	9.51	10.05	11.91	13.41	15.22	15.92	14.57
5	6.81	7.62	8.15	8.70	9.43	9.66	10.09	11.88	13.48	15.26	15.94	13.58
6	7.50	8.09	8.62	8.86	9.53	9.78	10.22	11.74	13.55	15.29	15.95	13.43
7	8.05	.....	8.91	9.09	9.68	9.87	10.31	11.69	13.63	15.31	15.97	13.25
8	8.30	.....	9.07	9.28	9.68	9.96	10.37	11.76	13.71	15.35	16.00	13.13
9	8.56	.....	9.13	9.41	9.72	10.05	10.45	11.83	13.81	15.35	16.02	13.00
10	7.14	.....	9.19	9.48	9.13	9.88	10.54	11.82	13.88	15.35	16.01	11.71
11	7.62	.....	7.18	9.61	8.29	9.60	10.65	11.89	13.95	15.38	15.99	9.80
12	8.06	.....	7.42	9.60	8.31	9.65	10.76	11.96	14.02	15.40	15.99	9.71
13	8.37	9.20	7.90	9.57	8.50	9.46	10.83	12.04	14.10	15.41	16.00	9.91
14	8.62	7.38	8.49	8.92	8.79	9.58	10.89	12.12	14.12	15.42	16.02	10.14
15	8.80	7.69	8.82	9.12	8.92	9.69	10.95	12.17	14.22	15.43	16.03	10.37
16	9.00	7.98	9.02	9.34	9.08	9.80	11.03	12.23	14.29	15.45	16.06	10.58
17	8.71	7.26	9.20	9.46	9.25	9.90	10.94	.....	14.34	15.47	16.09	10.72
18	7.35	7.93	9.29	9.53	9.40	10.00	11.02	12.36	14.40	15.50	16.12	10.88
19	7.73	8.32	8.37	9.60	9.10	10.06	11.06	12.41	14.46	15.54	16.14	11.06
20	7.58	8.55	8.60	9.68	7.28	10.15	11.12	12.45	14.54	15.58	16.14	11.06
21	8.02	8.86	8.88	9.74	7.29	10.16	11.19	12.49	14.62	15.62	16.12	10.98
22	6.56	9.06	4.63	5.78	8.09	9.94	11.26	12.55	14.68	15.66	15.71	10.93
23	7.17	9.13	.....	9.81	8.49	8.00	11.33	12.63	14.75	15.68	15.59	10.96
24	7.50	9.19	2.85	9.75	8.72	7.85	11.42	12.70	14.82	15.69	15.49	11.15
25	8.15	9.34	6.45	6.75	8.74	8.47	11.50	12.75	14.86	15.70	15.29	11.29
26	8.43	9.37	7.69	7.49	8.86	8.84	11.57	12.80	14.90	15.73	15.08	11.39
27	3.87	9.33	8.35	7.50	9.00	9.15	11.64	12.86	14.94	15.74	14.94	11.48
28	6.24	9.34	8.69	7.31	9.11	9.35	11.70	12.92	15.00	15.75	14.83	11.61
29	7.16	9.47	8.92	7.80	9.09	9.51	11.77	12.97	15.04	15.77	14.75	11.64
30	7.89	.....	9.13	8.36	8.76	9.62	11.84	13.05	15.07	15.81	14.69	11.60
31	8.34	.....	9.19	.....	8.89	.....	11.72	13.08	.....	15.81	.....	11.45

e Estimated.

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, 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	5.50	4.94	....	....	....	7.17	7.59	7.31	7.42	7.39	7.02
2	....	5.11	4.76	....	....	....	7.19	7.50	7.26	7.37	7.09	7.10
3	5.56	4.59	4.64	....	....	....	7.21	7.21	7.34	7.54	7.53	7.04
4	5.25	4.87	....	....	....	....	7.09	7.59	7.24	7.34	7.25	6.75
5	5.25	5.24	....	....	....	....	7.06	7.67	7.29	7.04	7.21	6.82
6	5.09	5.34	....	....	....	....	6.79	7.66	7.43	7.29	7.46	6.72
7	5.19	5.35	....	....	....	6.17	7.06	7.60	7.09	7.44	7.55	6.50
8	....	5.18	....	....	....	....	7.04	7.59	7.49	7.29	7.40	6.56
9	....	5.14	....	....	....	6.17	7.04	7.31	7.43	7.20	7.00	6.53
10	....	4.82	....	....	....	....	6.99	7.01	7.36	7.31	7.27	6.73
11	....	....	....	....	....	6.44	7.09	7.53	7.39	7.26	7.51	6.69
12	....	....	....	....	....	....	7.13	7.36	7.66	7.03	7.47	6.75
13	....	....	....	....	....	6.51	6.97	7.31	7.83	7.14	7.38	6.77
14	....	....	....	....	....	6.66	7.11	7.29	7.49	7.24	7.24	6.59
15	....	....	....	....	5.26	6.29	7.09	7.22	7.59	7.35	7.33	6.72
16	....	....	....	....	....	6.55	7.16	7.24	7.43	7.32	7.08	6.93
17	....	....	....	....	....	6.64	7.08	6.99	7.18	7.44	7.27	6.77
18	....	....	....	5.11	....	6.82	6.99	7.24	7.09	7.48	7.27	6.92
19	....	....	....	....	....	6.76	6.89	7.44	7.29	7.04	7.13	6.75
20	....	....	....	....	....	6.81	6.71	7.55	7.39	7.34	7.04	6.75

8850-3630-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	....	....	....	....	....	6.89	7.04	7.52	7.09	7.54	7.09	6.60
22	....	....	....	....	....	6.53	7.22	7.49	7.23	7.54	7.14	6.65
23	....	4.72	....	....	....	6.88	7.34	7.41	7.32	7.49	7.03	6.90
24	....	4.59	4.63	....	....	6.99	7.39	7.14	7.36	7.38	7.14	7.07
25	....	....	....	....	....	6.99	7.34	7.46	7.29	7.33	6.90	6.82
26	....	....	....	....	....	7.07	7.40	7.54	7.17	6.98	7.23	7.03
27	....	4.99	....	....	....	7.02	7.06	7.49	7.23	7.21	7.12	7.03
28	....	4.81	....	....	....	7.11	7.44	7.44	7.02	7.44	7.42	6.83
29	5.56	4.69	....	....	....	6.81	7.54	7.46	7.39	7.66	7.27	6.90
30	5.70	....	....	....	....	....	7.54	7.42	7.37	7.57	7.12	6.84
31	5.67	....	....	....	....	....	7.63	7.04	....	7.41	....	6.85

Graves County

8835-3650-17. J. Whittemore. Lat. 36°52', long. 88°39'. Drilled unused artesian well in Holly Springs sand member of Claiborne group, 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 18.48 below lsd, Oct. 20, 1952. Records available: 1951-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.44	15.43	15.29	14.63	14.97	15.40	16.57	17.23	17.47	17.65	17.85	17.98
2	15.50	15.14	15.05	14.84	14.99	15.44	16.70	17.10	17.62	17.87	17.88	17.95
3	15.57	14.69	14.82	14.87	15.19	15.35	16.67	17.10	17.77	18.02	18.20	17.98
4	14.90	14.79	15.22	14.43	15.25	15.44	16.73	17.12	17.77	17.81	17.95	17.53
5	14.92	14.95	15.47	14.95	15.19	15.42	16.74	17.27	17.75	17.88	17.72	17.90
6	15.07	15.16	15.47	15.09	15.27	15.59	16.69	17.32	17.72	17.99	17.92	17.80
7	14.99	15.13	15.42	14.98	15.26	15.64	16.72	17.30	17.70	18.00	18.10	17.79
8	14.56	15.12	15.24	14.90	15.22	15.62	16.67	17.26	17.74	17.79	17.89	17.72
9	14.82	15.17	14.95	14.89	15.07	15.68	16.77	17.20	17.75	17.75	17.84	17.65
10	15.42	14.92	14.26	15.14	15.28	15.72	16.76	17.30	17.68	17.88	17.92	17.72
11	15.34	15.22	14.80	15.03	15.44	15.79	16.87	17.28	17.62	17.91	17.98	17.83
12	15.21	15.13	14.31	14.65	15.57	15.77	16.95	17.39	17.60	17.77	17.98	17.83
13	15.01	14.87	14.42	14.49	15.67	15.84	16.88	17.40	17.67	17.74	17.89	17.78
14	14.91	15.19	14.66	14.70	15.52	15.93	16.82	17.37	17.66	17.74	17.77	17.82
15	15.31	15.15	14.87	14.89	15.40	15.92	16.82	17.17	17.72	17.95	17.87	17.80
16	15.22	14.93	14.86	15.06	15.46	15.92	16.91	17.22	17.62	17.89	17.96	17.83
17	15.02	15.21	14.69	15.07	15.52	15.97	16.92	17.37	17.44	17.94	17.93	17.88
18	15.47	15.12	14.24	14.97	15.52	16.12	16.97	17.39	17.45	17.67	17.84	17.78
19	14.96	14.94	14.55	14.91	15.37	16.09	16.92	17.34	17.68	17.86	17.85	17.67
20	15.49	15.04	14.52	14.92	15.24	16.12	16.82	17.34	17.80	18.46	17.88	17.65
21	15.29	15.19	14.42	14.95	15.32	16.16	16.87	17.32	17.82	18.10	17.97	17.74
22	15.09	15.06	14.49	14.97	15.27	16.27	16.95	17.52	17.77	17.98	17.89	17.48
23	15.69	14.96	14.42	14.90	15.21	16.37	16.99	17.55	17.82	17.92	18.11	17.75
24	15.76	14.99	14.31	14.92	15.12	16.32	17.09	17.56	17.85	17.85	17.98	17.90
25	15.22	15.15	14.36	14.92	15.12	16.31	17.07	17.60	17.77	17.85	17.53	17.93
26	15.09	15.06	14.58	14.82	15.22	16.42	17.10	17.62	17.70	17.85	18.05	17.86
27	15.32	14.94	14.69	14.84	15.24	16.47	17.09	17.55	17.70	17.71	18.25	17.85
28	15.38	14.65	14.68	14.87	15.28	16.52	17.01	17.50	17.74	18.02	18.28	17.86
29	15.62	14.62	14.74	14.89	15.28	16.52	17.03	17.55	17.82	18.10	18.07	17.65
30	15.72	....	14.74	15.00	15.20	16.47	17.11	17.47	17.77	17.94	18.25	17.57
31	15.59	....	14.52	....	15.21	....	17.21	17.47	....	17.83	....	17.89

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. Recording gage installed Nov. 16, 1951. Highest water level 27.26 below lsd, Feb. 3, 1952; lowest 32.29 below lsd, Oct. 17, 1951. Records available: 1951-52.

8315-3650-2--Continued.

Daily noon water level from recorder graph, 1951

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 17	h32.29	Nov. 26	30.38	Dec. 7	30.00	Dec. 22	28.42
Nov. 16	31.00	27	30.26	8	30.06	23	28.53
17	31.09	28	30.20	12	29.02	24	28.64
18	31.05	29	30.22	15	29.39	25	28.47
19	31.06	30	30.12	16	29.24	26	28.76
20	31.05	Dec. 1	30.02	17	28.77	27	28.97
21	30.94	2	30.03	18	28.49	28	28.56
22	30.87	3	29.98	19	28.48	29	28.38
23	30.66	4	29.68	20	28.05	30	28.30
24	30.68	5	29.63	21	28.10	31	28.44
25	30.54	6	29.88				

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	28.65	27.75	29.38	28.43	29.06	29.36	30.11	30.22	30.57	31.02	31.64	31.95
2	28.74	27.62	29.50	28.61	29.02	29.39	30.17	30.15	30.45	31.10	31.69	31.74
3	29.11	27.26	29.32	28.85	29.18	29.34	30.10	30.21	30.76	31.38	31.65	31.94
4	28.75	27.33	28.94	28.65	29.24	29.32	30.07	30.24	30.78	31.24	31.69	31.92
5	28.88	27.79	29.23	28.86	29.14	29.35	30.07	30.29	30.79	31.17	31.51	31.74
6	28.85	27.90	29.09	29.14	29.11	29.46	30.10	30.28	30.78	31.28	31.52	31.77
7	28.91	28.13	29.03	29.27	29.20	29.48	30.06	30.30	30.77	31.32	31.82	31.86
8	28.44	27.88	28.85	29.33	29.07	29.50	29.89	30.25	30.91	31.15	31.82	31.83
9	28.54	28.14	28.69	29.39	29.02	29.54	30.01	30.19	30.93	31.10	31.64	31.77
10	28.99	28.05	28.46	29.42	28.93	29.59	30.06	30.25	30.86	31.35	31.62	31.46
11	28.93	28.25	28.40	29.44	29.01	29.64	30.15	30.35	30.87	31.44	31.65	31.64
12	28.65	28.30	28.49	29.28	29.17	29.66	30.26	30.37	30.87	31.36	31.84	31.53
13	28.42	28.28	27.97	29.02	29.31	29.74	30.16	30.47	30.93	31.39	31.79	31.52
14	28.39	28.40	28.38	29.25	29.43	29.85	30.07	30.48	30.90	31.34	31.79	31.57
15	28.46	28.38	28.43	29.50	29.17	29.83	30.04	30.40	30.88	31.34	31.77	31.59
16	28.52	28.15	28.53	29.75	29.31	29.80	30.11	30.30	30.83	31.46	31.92	31.65
17	28.38	28.53	28.68	29.87	29.40	29.80	30.14	30.51	30.78	31.47	31.89	31.56
18	28.61	28.75	28.56	29.83	29.37	29.94	30.12	30.57	30.83	31.52	31.84	31.55
19	28.34	28.67	28.61	29.78	29.34	29.89	30.00	30.56	30.87	31.36	31.59	31.56
20	28.47	28.58	28.74	29.81	29.20	29.93	29.93	30.56	31.06	31.69	31.63	31.33
21	28.52	28.82	28.80	29.85	29.50	29.98	29.94	30.57	31.05	31.77	31.62	31.32
22	28.11	28.99	28.68	29.82	29.54	30.04	29.97	30.61	30.97	31.58	31.82	31.26
23	28.38	28.75	28.49	29.77	29.53	30.08	29.97	30.63	31.10	31.54	32.09	31.25
24	28.32	28.81	28.18	29.72	29.48	30.05	30.05	30.64	31.16	31.48	32.00	31.38
25	27.89	29.11	28.11	29.71	29.31	30.01	30.07	30.75	31.06	31.52	31.79	31.34
26	27.57	28.99	28.19	29.62	29.47	30.07	30.11	30.76	30.97	31.56	31.76	31.37
27	27.49	28.96	28.23	29.52	29.59	30.08	30.08	30.65	31.03	31.46	31.95	31.25
28	27.43	28.86	28.43	29.41	29.58	30.10	30.01	30.58	31.16	31.44	32.06	31.25
29	27.55	28.97	28.53	29.21	29.56	30.06	29.99	30.65	31.19	31.77	31.87	31.19
30	27.80		28.71	29.20	29.39	29.97	30.13	30.57	31.13	31.78	32.07	31.03
31	27.83		28.63		29.29		30.24	30.50		31.66		30.67

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 21.30 below lsd, Dec. 31, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 19, 1951	21.05	Jan. 21, 1952	17.89	Mar. 17, 1952	17.08	May 12, 1952	18.77
30	20.54	28	17.47	24	16.15	19	18.67
Dec. 4	20.33	Feb. 4	15.55	31	14.39	26	18.68
11	19.85	11	15.04	Apr. 7	15.29	June 10	19.14
18	19.73	18	16.00	14	16.48	July 10	19.98
24	19.44	26	18.02	21	17.98	Nov. 11	20.99
31	18.77	Mar. 3	18.23	28	18.13	Dec. 10	21.05
Jan. 7, 1952	18.14	10	18.15	May 5	19.28	31	21.30
14	17.00						

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 17.30 below lsd, Dec. 31, 1952. Records available: 1949, 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 26, 1949	16.90	Jan. 14, 1952	12.94	Mar. 24, 1952	11.81	May 26, 1952	13.59
Nov. 19, 1951	16.54	21	13.83	31	9.95	June 10	13.91
30	16.34	28	13.40	Apr. 7	10.45	July 10	15.12
Dec. 4	15.87	Feb. 11	10.34	14	11.78	Aug. 7	15.70
11	15.86	18	11.17	21	12.57	Sept. 18	16.39
18	15.18	26	12.75	28	12.65	Oct. 8	16.70
24	15.20	Mar. 3	13.12	May 5	12.78	Nov. 6	17.04
31	14.40	10	13.45	12	13.15	Dec. 10	17.27
Jan. 7, 1952	14.08	17	12.71	19	13.48	31	17.30

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 18.18 below lsd, Dec. 31, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	16.79	Feb. 26	15.38	Apr. 14	14.76	June 10	16.64
14	16.35	Mar. 3	15.40	21	15.04	Aug. 7	16.82
21	16.22	10	15.28	28	15.13	Sept. 18	17.16
28	16.23	17	15.58	May 5	15.31	Oct. 8	17.58
Feb. 4	15.77	24	15.32	12	15.64	Nov. 6	17.70
11	15.38	31	14.81	19	15.68	Dec. 10	18.01
18	15.20	Apr. 7	14.70	26	15.81	31	18.18

8730-3745-48A. M. L. Cooper. Lat. 37°49', long. 87°33'. Drilled unused artesian well in sandstone and shale of Carbondale formation, diameter 6 inches, depth 350 feet, cased to 90. Land-surface datum is 405 feet above msl. Highest water level 0.80 below lsd, Feb. 16, 1951; lowest 71.46 below lsd, Oct. 14, 1951. Records available: 1949-52. Measurement discontinued.

Jan. 5	5.22	June 25	70.42	Oct. 8	70.29	Dec. 8	69.78
Apr. 16	45.50	July 29	70.46	Nov. 12	70.13	29	69.78
May 1	70.03	Sept. 3	70.45				

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 34.64 below lsd, Nov. 16, 1951. Records available: 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.69	32.12	31.43	30.98	30.92	31.44	31.73	32.23	32.43	.....	33.37	33.65
2	.....	31.95	31.40	31.14	30.89	31.42	31.83	32.09	32.60	h33.09	33.35	33.65
3	.....	31.44	h31.23	31.14	31.12	.....	31.82	32.09	32.85	33.23	33.68	33.80
4	.....	.....	.....	30.60	31.10	.....	31.88	32.13	32.88	32.96	33.40	33.55
5	.....	.....	.....	31.11	30.94	.....	31.90	32.29	32.81	33.10	33.17	33.72
6	.....	.....	.....	31.32	31.02	.....	31.87	32.34	32.76	33.21	33.45	33.72
7	32.68	.....	.....	31.35	31.09	.....	31.80	32.28	32.78	33.22	33.70	33.75
8	32.04	.....	.....	31.22	30.91	.....	31.70	32.20	32.81	32.97	33.45	33.64
9	32.26	.....	.....	31.15	30.70	31.39	31.85	32.14	32.82	32.95	33.38	33.65
10	32.77	.....	.....	31.34	30.89	31.39	31.85	32.26	32.78	33.12	33.51	33.78
11	32.77	31.86	.....	31.34	31.02	31.48	31.95	32.26	32.76	33.20	33.54	33.89
12	32.53	31.76	.....	30.96	31.18	31.32	32.09	32.36	32.73	33.04	33.57	33.96
13	32.30	31.58	.....	30.96	31.33	31.45	31.99	32.47	32.79	33.05	33.51	33.88
14	32.07	31.51	.....	30.89	31.22	31.49	31.90	32.39	32.79	33.08	33.38	33.94
15	32.29	31.71	.....	31.16	31.01	31.46	31.92	32.25	32.83	33.29	33.50	33.93
16	32.35	31.56	.....	31.38	31.10	31.40	32.01	32.24	32.75	33.29	33.65	33.94
17	31.92	31.76	31.39	31.36	31.21	31.42	32.06	32.48	32.57	33.27	33.58	33.82
18	32.41	31.91	31.14	31.25	31.31	31.60	32.07	32.51	32.62	33.40	33.51	33.96
19	31.83	31.65	31.13	31.13	31.21	31.51	31.97	32.45	32.91	33.15	33.51	33.88
20	32.23	31.64	31.04	31.12	31.12	31.47	31.89	32.43	33.04	33.60	33.56	33.69
21	32.20	31.88	31.12	31.14	31.32	31.49	31.95	32.46	33.06	33.57	33.65	33.94
22	31.72	31.90	31.25	31.05	31.31	31.58	32.05	32.60	32.93	33.35	33.57	33.76
23	32.44	31.73	31.22	30.92	31.22	31.65	32.07	32.63	33.04	33.26	33.87	33.90
24	32.61	31.66	.....	30.93	31.17	31.55	32.22	32.61	33.08	33.24	33.78	34.13
25	32.10	31.84	31.03	30.98	31.19	31.53	32.16	32.62	32.96	33.26	33.37	34.07

8730-3745-221--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	31.85	31.63	31.30	30.93	31.38	31.61	32.16	32.63	32.86	33.28	33.74	34.04
27	32.07	31.49	31.30	30.92	31.40	31.66	32.12	32.55	32.91	33.10	34.02	34.05
28	32.08	31.02	31.28	30.89	31.43	31.72	32.00	32.47	32.96	33.43	34.06	34.04
29	32.32	31.04	31.24	30.93	31.42	31.67	32.08	32.55	33.03	33.62	33.79	33.84
30	32.44		31.22	31.01	31.27	31.61	32.15	32.46	.....	33.39	34.01	33.80
31	32.28		30.99		31.24		32.29	32.47		33.26		33.85

h Tape measurement.

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

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.50	33.42	30.71	30.90	30.68	32.41	34.00	35.74	36.92	37.73	38.49	39.05
2	36.39	33.33	30.67	30.84	30.72	32.40	34.07	35.77	36.94	37.76	38.49	39.08
3	36.31	33.21	30.70	30.71	30.79	32.41	34.14	35.81	36.97	37.78	38.53	39.10
4	36.16	33.19	30.86	30.55	30.82	32.46	34.20	35.84	37.01	37.80	38.52	39.10
5	35.12	33.07	30.93	30.52	30.83	32.49	34.27	35.89	37.02	37.86	38.53	39.13
6	36.03	33.00	30.99	30.43	30.89	32.54	34.35	35.92	37.04	37.88	38.57	39.16
7	35.91	32.86	31.05	30.29	30.93	32.57	34.40	35.98	37.09	37.91	38.60	39.16
8	35.76	32.74	31.08	30.20	30.97	32.65	34.47	36.01	37.11	37.93	38.61	39.16
9	35.69	32.56	31.13	30.12	30.99	32.68	34.51	36.03	37.14	37.96	38.64	39.18
10	35.60	32.37	31.09	30.10	31.08	32.72	34.58	36.11	37.21	37.99	38.66	39.20
11	35.46	32.23	.....	30.03	31.15	32.80	34.63	36.15	37.23	38.00	38.67	39.21
12	35.35	32.02	.....	29.95	31.23	32.81	34.70	36.20	37.23	38.03	38.70	39.23
13	35.21	31.83	.....	29.92	31.28	32.87	34.73	36.23	37.26	38.05	38.71	39.25
14	35.07	31.68	.....	29.98	31.29	32.94	34.78	36.28	37.29	38.07	38.72	39.29
15	34.97	31.50	.....	30.02	31.37	32.99	34.82	36.28	37.31	38.12	38.77	39.28
16	34.85	31.29	.....	30.06	31.42	33.04	34.87	36.34	37.32	38.14	38.79	39.28
17	34.71	31.17	31.52	30.07	31.48	33.11	34.91	36.38	37.35	38.16	38.79	39.29
18	34.61	31.01	31.47	30.09	31.54	33.16	34.96	36.40	37.37	38.17	38.80	39.30
19	34.42	30.86	31.57	30.11	31.60	33.21	35.01	36.44	37.43	38.19	38.83	39.30
20	34.37	30.77	31.56	30.18	31.66	33.27	35.07	36.49	37.50	38.23	38.87	39.33
21	34.22	30.73	31.56	30.21	31.74	33.34	35.12	36.53	37.48	38.24	38.88	39.35
22	34.10	30.63	31.49	30.25	31.80	33.40	35.18	36.57	37.50	38.25	38.90	39.35
23	34.07	30.57	31.53	30.30	31.86	33.45	35.27	36.60	37.54	38.27	38.93	39.38
24	33.96	30.57	31.47	30.36	31.92	33.51	35.32	36.65	37.55	38.29	38.92	39.39
25	33.87	30.58	31.41	30.41	31.98	33.59	35.37	36.66	37.59	38.31	38.91	39.41
26	33.78	30.52	31.39	30.45	32.08	33.68	35.42	36.70	37.59	38.35	38.98	39.41
27	33.75	30.53	31.33	30.51	32.13	33.75	35.45	36.74	37.63	38.34	38.99	39.44
28	33.67	30.50	31.26	30.54	32.20	33.81	35.52	36.77	37.66	38.40	39.00	39.45
29	33.62	30.54	31.19	30.59	32.22	33.89	35.58	36.81	37.68	38.42	39.02	39.46
30	33.58		31.09	30.66	32.25	33.94	35.64	36.83	37.70	38.44	39.06	39.45
31	33.50		30.98		32.32		35.70	36.90		38.45		39.48

8730-3750-209. 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 46.89 below lsd, Dec. 29, 1952. Records available: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1, 1951	39.70	May 9, 1951	33.19	Jan. 25, 1952	39.76	Mar. 31, 1952	36.51
17	39.54	22	34.10	Feb. 14	37.51	1	36.43
Mar. 1	35.08	June 27	37.83	28	35.55	3	36.20
9	34.27	Aug. 1	40.12	Mar. 14	35.87	9	35.45
16	33.66	30	41.87	25	36.26	16	34.96
21	33.39	Oct. 8	43.61	26	36.34	30	35.38
23	33.25	31	44.37	27	36.37	Nov. 17	46.21
30	32.88	Nov. 30	44.91	28	36.41	Dec. 9	46.70
Apr. 5	32.68	Dec. 20	44.13	29	36.53	29	46.89
20	32.64	Jan. 8, 1952	41.97	30	36.52		

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. Recording gage removed July 31, 1952. Highest water level 10.80 below lsd, Feb. 24, 1950; lowest 21.58 below lsd, Nov. 12, 1952. Records available: 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.
1	14.18	.....	.....	11.67	13.82	13.92	14.76	.....	.....
2	13.97	.....	.....	11.91	13.88	13.94	14.79	.....	.....
3	14.05	.....	.....	12.05	13.69	13.96	14.83	.....	.....
4	14.26	.....	.....	12.05	13.76	13.97	14.92	.....	.....
5	13.85	.....	.....	12.05	13.55	13.98	14.99	.....	.....
6	14.07	.....	.....	12.05	13.52	13.96	15.04	.....	.....
7	13.56	.....	.....	12.55	13.57	14.00	15.08	.....	.....
8	14.20	.....	.....	13.14	13.51	14.03	15.23	.....	h21.40
9	14.03	.....	.....	13.31	13.55	13.99	15.34	.....	.....
10	13.74	.....	12.50	13.48	13.54	13.93	15.43	.....	.....
11	13.86	11.39	12.42	13.34	13.55	13.87	15.53	.....	.....
12	13.74	11.55	12.53	13.12	13.25	13.83	15.63	h21.58	.....
13	13.44	11.60	12.59	12.84	12.35	13.88	15.76	.....	.....
14	13.11	11.25	12.71	12.68	13.41	14.01	15.90	.....	.....
15	13.12	11.25	12.48	12.78	13.45	14.08	15.97	.....	.....
16	13.23	11.25	12.35	13.04	13.45	14.09	16.03	.....	.....
17	13.05	11.25	12.04	12.80	13.47	14.01	16.08	.....	.....
18	13.11	12.01	.....	12.83	13.48	14.07	16.15	.....	.....
19	13.16	12.33	.....	13.43	13.23	14.16	16.24	.....	.....
20	13.25	12.27	.....	13.62	13.25	14.21	16.35	.....	.....
21	13.00	12.23	.....	12.92	13.29	14.23	16.46	.....	.....
22	12.95	12.32	.....	13.17	13.33	14.27	16.56	.....	.....
23	13.06	12.44	.....	13.35	13.35	14.37	16.69	.....	.....
24	13.20	12.60	11.49	13.50	13.43	14.42	16.80	.....	.....
25	13.35	h12.25	11.59	13.95	13.49	14.44	16.90	.....	.....
26	13.39	.....	11.80	13.88	13.33	14.52	17.01	.....	.....
27	13.22	.....	11.84	14.13	13.35	14.57	17.14	.....	.....
28	h12.58	.....	11.71	.....	13.40	14.62	17.36	.....	.....
29	.....	.....	11.50	13.98	13.54	14.71	17.53	.....	h20.39
30	.....	.....	11.63	13.93	13.63	14.73	17.66	.....	.....
31	.....	.....	11.70	.....	13.80	.....	17.75	.....	.....

h Tape measurement.

Hickman County

8855-3640-1. Kentucky Water Service Co. Depot and Short Sts., Clinton. Drilled unused artesian well in Holly Springs sand of Claiborne group, 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.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	22.35	Apr. 7	20.02	July 8	20.44	Oct. 8	20.65
Feb. 7	20.30	May 6	20.50	Aug. 16	21.82	Nov. 11	20.22
Mar. 8	22.05	June 7	20.62	Sept. 10	21.34	Dec. 31	21.23

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: 1946-52.

Jan. 21	17.51	May 20	18.57	Aug. 21	19.11	Nov. 14	18.72
Mar. 31	14.19	July 31	19.16	Oct. 9	18.91	Dec. 16	18.83

41-16-2. Louisville Water Co. Zorn Ave., southeast 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: 1946-52.

41-16-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	7.27	May 20	8.52	Aug. 21	9.32	Nov. 14	9.20
Apr. 3	4.30	July 31	9.21	Oct. 9	9.31	Dec. 16	9.10

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: 1946-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.39	8.04	14.75	10.46	15.18	15.75	16.16	16.57	16.66	16.61	16.58	16.46
2	15.44	5.91	14.75	11.26	15.10	15.70	16.24	16.55	16.66	16.61	16.57	16.41
3	15.22	4.12	14.85	11.85	15.18	15.68	16.24	16.54	16.71	16.67	16.57	16.47
4	14.82	h2.74	14.96	12.23	15.23	15.74	16.27	16.53	16.70	16.64	16.58	16.46
5	14.05	.....	15.03	12.80	15.26	15.77	16.25	16.54	16.69	16.63	16.54	16.41
6	13.07	.....	15.20	13.11	15.31	15.87	16.27	16.54	16.68	16.65	16.54	16.32
7	12.05	.....	15.20	13.29	15.42	15.94	16.33	16.56	16.68	16.65	16.58	16.28
8	11.12	h4.21	15.23	13.52	15.50	16.05	16.33	16.55	16.69	16.67	16.58	16.28
9	10.72	.....	15.24	13.77	15.57	16.05	16.33	16.52	16.72	16.65	16.56	16.24
10	10.80	.....	15.18	13.98	15.63	16.02	16.36	16.53	16.71	16.64	16.56	16.18
11	11.41	.....	15.05	14.12	15.70	16.02	16.36	16.49	16.70	16.65	16.58	16.26
12	12.37	.....	14.81	14.16	15.75	16.06	16.36	16.59	16.69	16.64	16.58	16.22
13	12.83	.....	14.68	14.22	15.75	16.07	16.36	16.60	16.72	16.65	16.57	16.23
14	13.12	.....	14.67	14.41	15.82	16.10	16.36	16.55	16.74	16.65	16.51	16.28
15	13.47	h11.62	14.53	14.59	15.78	16.07	16.36	16.54	16.76	16.71	16.52	16.33
16	13.73	.....	14.51	14.81	15.86	16.01	16.36	16.52	16.72	16.72	16.54	16.37
17	13.94	.....	14.51	14.94	15.86	16.09	16.36	16.56	16.73	16.73	16.54	16.39
18	14.27	.....	14.31	14.97	15.84	16.13	16.36	16.54	16.72	16.73	16.52	16.27
19	14.41	12.98	14.40	14.99	15.81	16.11	16.36	16.60	16.72	16.65	16.48	16.23
20	14.69	13.29	14.42	14.99	15.82	16.11	16.36	16.60	16.77	16.69	16.48	16.23
21	14.70	13.51	14.60	15.00	15.88	16.13	16.36	16.60	16.80	16.72	16.48	16.35
22	14.55	13.61	14.36	14.99	15.89	16.13	16.39	16.61	16.74	16.69	16.47	16.35
23	14.62	13.83	14.19	14.96	15.83	16.15	16.39	16.66	16.74	16.64	16.54	16.31
24	14.56	13.98	13.06	15.02	15.75	16.02	16.39	16.66	16.76	16.61	16.53	16.42
25	14.39	14.16	11.64	15.06	15.73	15.95	16.43	16.66	16.72	16.60	16.45	16.38
26	14.16	14.26	10.03	15.18	15.74	15.95	16.43	16.66	16.69	16.60	16.52	16.34
27	13.70	14.36	8.24	15.25	15.75	15.95	16.43	16.65	16.68	16.57	16.49	16.34
28	12.77	14.43	6.89	15.33	15.74	16.00	16.43	16.66	16.66	16.56	16.47	16.38
29	11.94	14.59	6.49	15.33	15.82	16.07	16.46	16.65	16.63	16.60	16.44	16.42
30	11.04		7.25	15.32	15.83	16.10	16.51	16.63	16.61	16.59	16.46	16.40
31	9.78		8.97		15.80		16.51	16.62		16.60		16.33

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: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18	15.23	May 29	15.45	Aug. 28	15.90	Nov. 14	15.51
May 21	15.62	July 31	15.83	Oct. 9	15.69	Dec. 16	15.70

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. 27, 1948; lowest 37.13 below lsd, Feb. 3, 1948. Records available: 1937-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	31.51	Mar. 7	30.44	May 19	31.98	July 21	33.42
11	28.69	14	30.19	21	32.13	28	33.52
18	30.62	21	30.48	26	32.13	Aug. 4	33.58
25	31.19	28	23.09	June 9	32.51	5	33.52
Feb. 1	25.43	Apr. 4	27.24	16	32.43	11	33.64
8	22.92	11	28.99	23	32.66	18	33.50
15	26.58	18	30.01	30	32.81	25	33.82
22	28.67	28	30.94	July 7	33.11	Sept. 2	33.40
29	29.60	May 12	31.73	14	33.38	8	33.59

43-15-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 15	33.70	Oct. 13	33.49	Nov. 10	33.27	Dec. 8	32.50
22	33.72	20	33.59	17	33.25	15	32.59
29	33.64	27	33.53	24	32.75	22	32.59
Oct. 6	33.46	Nov. 3	33.48	Dec. 1	32.65	29	32.65

44-14-1. Southeastern Greyhound Lines. Caldwell and Floyd Sts., Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 90 feet. Land-surface datum is 456.96 feet above msl. Highest water level 61.25 below lsd, June 29, 1945; lowest 70.26 below lsd, Dec. 2, 1949. Records available: 1943-52.

Jan. 24	68.97	May 22	67.61	Aug. 21	67.87	Nov. 17	69.02
Apr. 21	68.11	July 30	67.61	Oct. 10	68.69	Dec. 17	69.00

44-15-6. Ohio River Sand Co. 129 River Road, Louisville. Drilled unused artesian and water-table well in glacial sand and gravel, diameter 6 inches, depth 130 feet. Land-surface datum is 440.13 feet above msl. Highest water level 30.55 below lsd, Feb. 8, 1950; lowest 39.45 below lsd, Nov. 1, 1951. Records available: 1945-52.

Feb. 6	34.06	May 29	36.62	Aug. 28	37.84	Nov. 14	38.34
Apr. 18	36.14	Aug. 5	37.47	Oct. 10	38.35	Dec. 17	38.25
May 21	36.47	21	37.76				

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: 1937-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	67.98	67.04	66.15	65.39	65.52	66.91	69.58	71.42	72.69	72.36	70.14	68.58
2	67.98	67.00	66.12	65.39	65.58	66.96	69.66	71.48	72.72	72.38	70.07	68.52
3	67.96	66.94	66.07	65.39	65.66	67.00	69.73	71.53	72.73	72.40	70.01	68.48
4	67.90	66.91	66.05	65.35	65.75	67.06	69.81	71.55	72.76	72.37	69.95	68.42
5	67.88	66.90	66.09	65.34	65.82	67.12	69.87	71.62	72.74	72.34	69.87	68.37
6	67.85	66.88	66.04	65.34	65.91	67.20	69.92	71.67	72.71	72.31	69.84	68.33
7	67.82	66.87	66.02	65.33	66.01	67.30	70.00	71.71	72.70	72.25	69.73	68.29
8	67.75	66.80	65.98	65.30	66.09	67.40	70.04	71.76	72.67	72.16	69.72	68.25
9	67.73	66.79	65.93	65.27	66.15	67.50	70.09	71.81	72.65	72.06	69.63	68.20
10	67.71	66.75	65.88	65.25	66.22	67.58	70.15	71.86	72.65	71.94	69.67	68.16
11	67.68	66.73	65.89	65.24	66.28	67.70	70.19	71.89	72.65	71.82	69.56	68.15
12	67.63	66.71	65.89	65.21	66.30	67.80	70.25	71.92	72.69	71.70	69.50	68.11
13	67.58	66.67	65.79	65.18	66.31	67.90	70.27	71.97	72.73	71.60	69.44	68.07
14	67.54	66.65	65.80	65.17	66.29	68.00	70.32	72.02	72.77	71.50	69.30	68.03
15	67.52	66.63	65.77	65.17	66.22	68.10	70.35	72.08	72.79	71.42	69.31	67.99
16	67.52	66.56	65.74	65.17	66.28	68.17	70.41	72.14	72.81	71.36	69.26	67.95
17	67.47	66.54	65.71	65.16	66.34	68.25	70.46	72.23	72.82	71.25	69.22	67.89
18	67.46	66.52	65.66	65.14	66.40	68.33	70.52	72.28	72.83	71.16	69.18	67.86
19	67.43	66.47	65.63	65.12	66.43	68.43	70.58	72.33	72.85	71.08	69.13	67.83
20	67.41	66.44	65.61	65.12	66.44	68.54	70.65	72.39	72.87	71.01	69.09	67.78
21	67.40	66.43	65.60	65.13	66.44	68.64	70.70	72.44	72.86	70.89	69.05	67.76
22	67.34	66.40	65.57	65.18	66.41	68.73	70.77	72.50	72.81	70.81	69.00	67.71
23	67.33	66.37	65.60	65.24	66.40	68.83	70.84	72.54	72.76	70.72	68.96	67.68
24	67.33	66.33	65.59	65.32	66.45	68.92	70.92	72.57	72.69	70.64	68.90	67.67
25	67.26	66.31	65.57	65.38	66.51	69.01	70.99	72.57	72.63	70.56	68.84	67.65
26	67.19	66.27	65.55	65.41	66.58	69.12	71.06	72.56	72.56	70.49	68.80	67.60
27	67.18	66.23	65.53	65.41	66.64	69.23	71.12	72.57	72.50	70.44	68.77	67.56
28	67.16	66.18	65.50	65.40	66.70	69.32	71.15	72.58	72.44	70.37	68.73	67.54
29	67.15	66.16	65.46	65.43	66.78	69.43	71.23	72.61	72.39	70.31	68.68	67.48
30	67.13		65.45	65.48	66.85	69.51	71.29	72.65	72.38	70.25	68.64	67.44
31	67.09		65.41		66.87		71.35	72.68		70.20		67.39

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: 1937-52.

45-15-4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	75.61	Apr. 18	72.59	July 7	73.09	Nov. 10	76.65
11	75.44	28	72.47	28	73.85	17	76.60
18	75.29	May 5	72.42	Aug. 5	74.18	24	76.44
Feb. 1	74.96	19	72.38	18	74.76	Dec. 1	76.36
7	74.67	22	72.41	21	74.90	8	76.14
23	74.28	29	72.41	28	75.20	15	75.93
Mar. 7	73.90	June 9	72.49	Sept. 29	76.28	18	75.88
14	73.50	16	72.62	Oct. 27	76.67	22	75.82
21	73.34	23	72.70	Nov. 3	76.69	29	75.71
28	73.05	30	72.86				

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: 1948-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.14	71.97	70.84	70.31	71.85	74.41	79.26	81.62	82.18	81.57	76.51	74.28
2	73.06	71.93	70.74	70.39	72.15	74.48	79.48	81.68	82.12	81.62	76.43	74.22
3	73.02	71.84	70.66	70.36	72.51	74.70	79.61	81.52	82.17	81.24	76.31	74.14
4	72.91	71.73	70.73	70.23	72.60	74.83	79.59	81.52	82.11	80.82	76.22	74.09
5	72.90	71.70	70.70	70.22	72.74	75.01	79.58	81.70	82.01	80.75	76.11	74.05
6	72.86	71.63	70.62	70.19	73.05	75.20	79.56	81.82	82.05	80.45	76.08	74.01
7	72.78	71.57	70.60	70.11	73.25	75.39	79.59	81.82	82.02	80.06	76.00	73.96
8	72.70	71.46	70.57	70.16	73.43	75.62	79.75	81.84	81.94	79.69	75.91	73.88
9	72.70	71.49	70.51	70.14	73.62	75.78	79.87	81.89	82.09	79.42	75.81	73.97
10	72.69	71.42	70.43	70.29	73.80	76.12	79.93	81.74	82.13	79.16	75.68	73.92
11	72.63	71.39	70.59	70.23	73.72	76.29	80.00	81.70	82.17	78.96	75.57	73.87
12	72.58	71.41	70.52	70.16	73.36	76.43	80.09	81.86	82.24	78.77	75.47	73.84
13	72.52	71.38	70.45	70.11	73.04	76.65	80.01	81.95	82.32	78.59	75.44	73.76
14	72.50	71.37	70.51	70.15	72.82	76.83	80.04	82.00	82.24	78.81	75.35	73.70
15	72.61	71.35	70.44	70.15	72.75	76.90	80.24	82.06	82.18	78.84	75.29	73.59
16	72.56	71.27	70.36	70.14	73.17	77.01	80.40	82.14	82.36	78.60	75.24	73.57
17	72.49	71.25	70.34	70.11	73.50	77.24	80.47	82.11	82.38	78.41	75.22	73.53
18	72.60	71.18	70.30	70.24	73.57	77.39	80.58	82.05	82.38	78.24	75.28	73.49
19	72.46	71.16	70.35	70.27	73.30	77.55	80.73	82.21	82.35	78.16	75.26	73.43
20	72.47	71.16	70.33	70.36	73.17	77.71	80.64	82.26	82.28	77.92	75.19	73.42
21	72.38	71.14	70.38	70.43	73.04	77.86	80.68	82.33	82.14	77.71	75.11	73.40
22	72.33	71.09	70.31	70.67	73.05	77.86	80.82	82.41	81.97	77.54	75.04	73.30
23	72.33	71.07	70.36	70.84	73.43	77.92	81.00	82.42	81.99	77.40	74.94	73.29
24	72.24	71.01	70.27	71.13	73.69	78.13	81.17	82.30	81.89	77.31	74.82	73.29
25	72.19	70.96	70.25	71.07	73.81	78.32	81.26	82.17	81.68	77.26	74.79	73.20
26	72.18	70.91	70.30	71.01	73.88	78.52	81.34	82.32	81.53	77.19	74.81	73.10
27	72.22	70.87	70.25	71.18	74.10	78.71	81.18	82.36	81.44	76.99	74.70	73.06
28	72.12	70.81	70.22	71.11	74.24	78.94	81.20	82.39	81.39	77.08	74.58	73.00
29	72.10	70.79	70.20	71.45	74.41	78.96	81.38	82.47	81.36	73.88	74.51	72.88
30	72.05		70.17	71.66	74.29	79.00	81.53	82.51	81.50	73.73	74.42	72.86
31	72.00		70.16		74.26		81.58	82.39		73.60		72.81

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: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	47.14	May 21	46.50	Aug. 21	46.09	Nov. 5	46.44
Mar. 19	47.04	July 25	46.09	Oct. 6	46.29	Dec. 3	46.61

46-14-1. American Tobacco Co. 17th St. and Broadway, Louisville. Drilled unused water-table well in glacial sand and gravel, diameter 10 inches, depth 111 feet, screen 102-111. Land-surface datum is 453.77 feet above msl. Highest water level 65.10 below lsd, Apr. 20, 1944; lowest 77.25 below lsd, Aug. 25, 1948. Records available: 1943-52. Jan. 31, 68.54; Apr. 10, 68.08; May 23, 68.56; July 30, 69.24. Measurement discontinued.

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, 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	70.55	May 23	71.04	Aug. 25	72.06	Nov. 13	71.60
Apr. 10	70.38	July 30	71.79	Oct. 10	72.04	Dec. 9	71.38

47-12-1. City of Louisville. East of Dixie Highway at Ralph Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 96 feet, cased to 96. Land-surface datum is 462.93 feet above msl. Highest water level 34.54 below lsd, July 13, 1939; lowest 71.06 below lsd, Feb. 3, 1945. Records available: 1935-52.

Feb. 5	59.66	May 28	57.17	Aug. 27	57.15	Nov. 12	57.79
Apr. 18	57.59	July 29	56.48	Oct. 8	57.82	Dec. 11	57.97

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: 1935-52.

Jan. 31	49.48	May 28	47.00	Aug. 26	47.05	Nov. 7	47.58
Apr. 10	48.62	July 29	46.37	Oct. 6	47.58	Dec. 11	47.53

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: 1935-52.

Jan. 30	43.35	May 21	41.52	Aug. 22	41.17	Nov. 7	41.60
Mar. 21	42.68	July 29	41.15	Oct. 6	41.53	Dec. 3	41.57

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 55.92 below lsd, Dec. 30, 1952; lowest 88.37 below lsd, Mar. 9, 1944. Records available: 1943-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.93	67.34	62.27	59.12	62.96	62.58	65.23	61.64	62.83	62.04	58.02	57.48
2	65.93	67.89	61.51	58.82	63.28	63.48	65.53	62.18	63.66	61.69	57.87	57.16
3	67.78	65.17	62.53	58.89	62.25	63.78	65.79	61.03	64.31	63.52	57.78	56.97
4	68.20	65.88	61.38	58.61	61.40	64.56	63.63	62.20	64.54	60.67	.....	59.13
5	68.78	67.09	61.03	58.56	62.67	65.02	62.68	62.06	65.59	59.86	.....	59.82
6	65.84	66.93	60.79	58.43	63.33	65.26	62.17	63.39	64.07	59.41	.....	58.30
7	66.95	66.92	60.70	58.76	63.47	63.78	63.67	63.59	62.26	59.07	.....	57.63
8	68.28	67.12	60.50	58.39	63.66	63.01	64.40	63.76	63.46	58.78	.....	57.29
9	68.48	66.98	60.30	58.25	63.83	63.92	64.79	63.21	64.46	61.45	.....	57.08
10	68.15	64.79	60.49	58.17	62.83	64.35	65.01	61.66	65.12	62.89	58.33	56.91
11	68.63	66.36	60.19	58.03	61.35	64.59	65.14	63.50	65.69	60.57	58.05	56.82
12	69.17	66.73	59.98	57.89	62.38	64.77	64.39	64.48	64.73	59.58	57.84	58.09
13	65.98	66.72	59.84	57.80	62.83	64.89	63.57	64.38	64.23	59.03	57.65	56.98
14	66.85	66.70	59.75	58.13	62.91	64.91	65.13	64.36	63.42	58.71	57.51	56.71
15	68.17	66.81	61.73	57.86	63.05	63.13	66.03	63.73	64.02	58.48	57.39	56.60
16	67.93	67.46	60.66	57.76	63.19	64.25	65.63	63.51	64.49	60.45	57.29	56.49
17	68.68	64.96	61.98	57.68	62.06	64.98	65.53	61.99	64.01	62.72	57.19	56.45
18	68.88	65.69	61.11	57.62	61.54	64.94	65.72	63.18	63.83	60.57	57.11	56.42
19	69.03	66.37	60.30	57.51	63.01	65.11	65.72	64.09	63.78	59.45	57.03	56.35
20	66.03	66.64	59.93	57.45	63.15	65.13	63.58	64.45	62.16	58.94	56.98	56.31
21	66.29	66.83	59.68	57.38	63.28	64.45	62.21	65.11	61.10	58.63	56.91	56.28
22	67.24	65.85	59.48	58.60	63.78	62.96	61.29	64.72	60.48	60.12	56.85	56.22
23	67.69	63.93	59.34	60.36	64.00	64.32	60.71	62.88	60.03	62.25	56.83	56.19
24	67.58	63.12	60.99	61.08	64.18	65.05	60.28	61.65	59.68	63.14	56.77	56.18
25	67.60	63.69	59.52	61.47	62.60	65.37	59.91	63.55	62.24	60.55	56.71	56.15
26	67.91	62.56	59.27	61.62	63.22	65.63	59.63	63.22	63.60	59.51	56.68	56.12
27	65.33	62.15	59.13	59.34	63.42	66.67	59.38	63.64	60.60	58.95	55.65	56.10
28	66.18	61.80	59.01	61.23	63.54	64.48	59.12	64.61	59.85	58.64	59.28	56.07
29	66.75	61.53	58.90	61.69	64.18	63.17	58.95	65.49	60.59	58.40	60.05	56.02
30	67.00	.....	58.81	62.57	63.16	64.51	59.30	63.78	61.65	59.07	59.15	55.98
31	67.04	.....	60.13	.....	62.78	.....	60.28	63.15	.....	58.27	.....	55.94

h Tape measurement.
e Estimated.

47-12-14. National Distillers Products Corp. Old Grand Dad Plant, Bernhelm Lane. Drilled observation water-table well in glacial sand and gravel, diameter 8 inches, depth 97 feet. Land-surface datum is 454.37 feet above msl. Highest water level 52.15 below lsd, June 1, 1950; lowest 79.4 below lsd, Sept. 20, 1943. Records available: 1941-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	58.92	May 26	55.64	Aug. 26	55.88	Nov. 12	54.18
Apr. 21	53.92	July 30	55.32	Oct. 8	54.99	Dec. 5	53.43

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: 1944-52.

Jan. 31	65.18	May 23	65.03	Aug. 27	65.30	Nov. 13	65.79
Apr. 21	65.08	July 30	65.26	Oct. 10	65.67	Dec. 14	65.65

48-12-1. City of Louisville. East of Cane Run Road, south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 453.61 feet above msl. Highest water level 29.50 below lsd, Aug. 12, 1937; lowest 61.97 below lsd, Oct. 22, 1947. Records available: 1935-52.

Feb. 5	57.98	May 28	56.80	Aug. 27	56.55	Nov. 12	57.27
Apr. 10	57.30	July 29	56.49	Oct. 8	56.89	Dec. 11	57.45

48-12-2. City of Louisville. East of Tucker Ave., south of Millers Lane. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 117 feet, cased to 117. Land-surface datum is 465.95 feet above msl. Highest water level 41.36 below lsd, Sept. 9, 1937; lowest 73.30 below lsd, Oct. 22, 1947. Records available: 1935-52.

Feb. 5	69.10	May 28	68.10	Aug. 27	67.48	Nov. 12	68.58
Apr. 18	68.53	July 29	67.50	Oct. 8	67.98	Dec. 11	68.68

48-14-1. City of Louisville. 38th St. and Greenwood Ave. Drilled observation water-table well in glacial sand and gravel, diameter 4 inches, depth 93 feet, cased to 93. Land-surface datum is 441.62 feet above msl. Highest water level 28.31 below lsd, Sept. 16, 1939; lowest 57.57 below lsd, Mar. 31, 1948. Records available: 1939-52.

Jan. 24	52.45	May 26	51.92	Aug. 27	52.05	Nov. 6	52.52
Apr. 10	52.17	July 25	51.84	Oct. 3	52.27	Dec. 14	52.79

48-15-2. Klarer Provision Co. 210 Amy Ave., Louisville. Drilled unused artesian well in Louisville limestone, diameter 6 inches, depth 80 feet. Land-surface datum is 454.75 feet above msl. Highest water level 44.80 below lsd, July 18, 1951; lowest 48.22 below lsd, Mar. 31, 1948. Records available: 1948-52.

Jan. 31	45.94	May 23	45.79	Aug. 27	46.13	Nov. 12	46.49
Apr. 21	45.84	July 30	46.08	Oct. 10	46.34	Dec. 14	46.79

49-10-1. T. W. Blackwell. Dixie Highway at Rockford Lane. Driven unused water-table well in glacial sand and gravel, diameter 2½ inches, depth 39 feet, screen 37-39. Land-surface datum is 453.97 feet above msl. Highest water level 31.95 below lsd, May 27, 1952; lowest 39.05 below lsd, Mar. 24, 1948. Records available: 1944-52.

Jan. 24	32.95	May 20	31.95	Aug. 25	32.66	Nov. 7	33.46
Mar. 12	32.54	July 16	32.37	Sept. 30	33.04	Dec. 5	33.72

49-13-22. Bond Bros. South of Bells Lane. Drilled unused water-table well in glacial sand and gravel, diameter 8 inches, depth 170 feet, screen 74-114. Land-surface datum is 449.99 feet above msl. Highest water level 40 (reported by company) below lsd, 1933; lowest 81.26 below lsd, Feb. 9, 1945. Records available: 1933-38, 1942-52.

Jan. 29	68.45	May 22	67.40	Aug. 26	68.89	Nov. 6	69.23
Apr. 18	68.04	July 23	68.78	Sept. 26	69.28	Dec. 11	69.03

49-13-24. B. F. Goodrich Co. Bells Lane. Drilled observation water-table well in glacial sand and gravel, diameter 2 inches, depth 99 feet. Land-surface datum is 452.55 feet above msl. Highest water level 67.49 below lsd, June 16, 1949; lowest 95.00 below lsd, Feb. 9, 1945. Records available: 1943-52.

Jan. 29	77.32	May 23	76.30	Aug. 26	79.35	Nov. 6	79.87
Feb. 5	77.15	July 24	78.55	Sept. 26	79.88	Dec. 14	80.26
Apr. 18	75.88						

50-10-2. Rubber Reserve Co. Rockford Lane, west of Mills Creek. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 94 feet, screen 90-92. Land-surface datum is 442.96 feet above msl. Highest water level 23.17 below lsd, May 10, 1952; lowest 29.82 below lsd, Mar. 16, 1948. Records available: 1945-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.14	23.78	23.72	23.42	23.23	23.37	23.53	23.72	23.93	24.13	24.42	24.68
2	24.07	23.75	23.65	23.40	23.22	23.34	23.54	23.71	23.95	24.16	24.43	24.70
3	24.17	23.63	23.61	23.39	23.26	23.33	23.55	23.72	23.97	e24.17	24.45	24.71
4	23.81	23.79	23.74	23.30	23.24	23.36	23.56	23.74	23.97	e24.16	24.43	24.70
5	24.04	23.80	23.71	23.40	23.22	23.35	23.56	23.76	23.97	e24.18	24.42	24.71
6	24.07	23.80	23.71	23.40	23.26	23.37	23.57	23.76	23.97	24.20	24.47	24.73
7	23.99	23.76	23.70	23.37	23.25	23.37	23.57	23.76	23.98	24.22	24.47	24.74
8	23.89	23.63	23.66	23.35	23.22	23.37	23.55	23.77	23.98	24.22	24.47	24.75
9	23.95	23.73	23.61	23.33	23.19	23.40	23.59	23.77	23.98	24.23	24.47	24.75
10	24.03	23.66	23.57	23.38	23.26	23.39	23.59	23.79	23.99	24.25	24.52	24.76
11	23.95	23.76	23.88	23.33	23.25	23.41	23.61	23.78	23.99	24.26	24.52	24.77
12	23.95	23.70	23.58	23.27	23.28	23.39	23.62	23.79	24.00	24.25	24.53	24.79
13	23.91	23.69	23.60	23.27	23.28	23.41	23.62	23.80	24.01	24.27	24.53	24.79
14	23.90	23.72	23.65	23.32	23.24	23.43	23.61	23.81	24.02	24.26	24.53	24.80
15	23.94	23.70	23.63	23.34	23.24	23.43	23.63	23.81	24.03	24.29	24.55	24.81
16	23.90	23.65	23.62	23.34	23.25	23.42	23.66	23.81	24.02	24.29	24.55	24.82
17	23.84	23.72	23.60	23.30	23.25	23.44	23.66	23.83	24.02	24.30	24.57	24.82
18	23.93	23.69	23.53	23.28	23.28	23.46	23.66	23.85	24.04	24.29	24.55	24.84
19	23.75	23.65	23.66	23.26	23.30	23.46	23.65	23.84	24.06	24.30	24.59	24.83
20	23.94	23.68	23.55	23.27	23.29	23.45	23.65	23.85	k24.07	24.35	24.59	24.83
21	23.85	23.70	23.57	23.27	23.32	23.45	23.67	23.87	k24.08	24.35	24.60	24.86
22	23.90	23.69	23.37	23.26	23.32	23.48	23.68	23.88	24.08	24.35	24.61	24.85
23	23.96	23.66	23.54	23.27	23.32	23.50	23.68	23.88	24.10	24.35	24.65	24.88
24	23.90	23.66	23.53	23.25	23.30	23.49	23.70	23.88	24.11	24.36	24.64	24.89
25	23.79	23.69	23.49	23.26	23.30	23.50	23.71	23.90	24.10	24.38	24.62	24.90
26	23.81	23.63	23.54	23.24	23.33	23.51	23.71	23.90	24.11	24.38	24.63	24.90
27	23.84	23.62	23.50	23.23	23.33	23.52	23.71	23.90	24.12	24.35	24.68	24.92
28	23.82	23.60	23.44	23.22	23.35	23.53	23.68	23.90	24.12	24.39	24.69	24.92
29	e23.86	23.60	23.46	23.25	23.35	23.52	23.70	23.92	24.13	24.41	24.69	24.91
30	23.83		23.42	23.25	23.32	23.51	23.70	23.92	24.13	24.40	24.71	24.92
31	23.81		23.39		23.33		23.74	23.93		24.40		24.95

e Estimated.
k Interpolated.

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: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	58.51	May 21	55.61	Aug. 25	57.23	Nov. 5	59.39
Mar. 12	56.42	July 23	56.54	Sept. 25	58.01	Dec. 3	60.08
Apr. 10	55.76						

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 81.22 below lsd Dec. 29, 1952. Records available: 1945, 1947-52.

Jan. 4	76.86	Apr. 11	72.26	Aug. 4	75.38	Oct. 27	80.08
11	76.94	18	72.02	11	75.72	Nov. 3	80.44
18	76.73	28	72.03	18	76.05	10	80.42
28	71.75	May 23	72.20	21	76.24	17	80.48
Feb. 1	75.92	June 9	72.76	Sept. 2	76.91	24	80.60
8	75.30	16	72.90	8	77.32	Dec. 1	80.59
15	74.48	23	73.22	22	78.28	8	80.72
22	73.71	30	73.57	26	78.17	15	81.06
Mar. 7	73.62	July 7	73.91	Oct. 6	78.77	22	81.04
21	73.09	21	74.44	13	79.22	29	81.22
28	72.98	24	74.78	20	79.48		

51-10-1. Rubber Reserve Co. Rockford Lane, east of Cane Run Road. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 64 feet, screen 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: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	30.35	May 20	29.67	Aug. 25	30.00	Nov. 4	30.53
Mar. 12	30.16	July 17	29.70	Sept. 30	30.23	Dec. 5	30.89

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 59.44 below lsd, Nov. 6, 1952. Records available: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	43.39	May 22	48.14	Aug. 25	58.62	Nov. 6	59.44
Apr. 10	45.32	July 23	57.88	Sept. 25	59.22	Dec. 11	57.54

52-7-2. Rubber Reserve Co. Johnstontown Road, west of Dixie Highway. Drilled observation water-table well in glacial sand and gravel, diameter 6 inches, depth 103 feet, screen 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: 1945-52. Jan. 23, 34.72; May 20, 33.63; July 15, 33.54; Aug. 21, 33.79; Oct. 1, 34.10; Nov. 6, 34.51; Dec. 2, 34.84.

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: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	26.62	May 21	27.45	Aug. 25	34.60	Nov. 5	36.05
Mar. 12	26.23	July 17	35.83	Sept. 30	35.45	Dec. 3	36.36

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: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	48.77	May 21	49.04	Aug. 25	55.79	Nov. 5	57.30
Mar. 12	47.80	July 17	54.25	Sept. 30	56.67	Dec. 3	57.73

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: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	49.82	May 21	48.58	Aug. 25	54.59	Nov. 5	56.30
Mar. 12	48.40	July 17	52.93	Sept. 30	55.59	Dec. 3	56.75

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: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	33.82	Mar. 20	30.96	July 17	31.27	Nov. 5	34.23
Mar. 12	31.07	21	30.98	Aug. 25	32.52	Dec. 3	34.81
19	30.99	May 21	30.20	Sept. 30	33.45		

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 48.78 below lsd, Feb. 8, 1948. Records available: 1945-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.06	26.97	40.31	27.08	32.33	34.22	45.11	46.28	46.69	46.98	47.29	47.38
2	36.16	26.08	40.85	28.87	31.85	34.35	44.95	46.29	46.65	47.03	47.27	47.32
3	35.84	25.05	41.25	31.32	31.95	35.02	45.18	46.27	46.76	47.01	47.30	47.46
4	34.51	24.55	41.65	33.57	32.51	36.01	45.30	46.29	46.72	46.94	47.23	47.38
5	33.60	24.41	41.27	35.08	34.66	37.67	45.32	46.34	46.74	47.01	47.27	47.31
6	32.51	24.21	40.86	35.35	35.86	40.50	45.31	46.32	46.75	47.07	47.30	47.15
7	31.52	24.36	40.21	35.04	37.38	40.71	45.37	46.35	46.78	47.06	47.31	47.16
8	30.59	24.19	39.05	34.96	38.96	42.22	45.49	46.37	46.77	47.09	47.31	47.27
9	30.46	24.86	38.27	35.14	39.86	42.77	45.51	46.31	46.82	47.14	47.35	47.10
10	30.62	25.05	38.06	36.20	40.45	43.06	45.62	46.33	46.80	47.07	47.37	46.40

52-12-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	30.71	25.73	36.75	35.73	40.74	43.31	45.59	46.30	46.82	47.16	47.31	45.94
12	31.32	26.22	35.02	35.99	41.15	43.56	45.69	46.38	46.83	47.15	47.35	46.03
13	32.01	26.91	33.81	36.15	41.32	43.76	45.74	46.40	46.86	47.20	47.35	45.76
14	32.71	27.89	33.32	35.69	40.70	44.00	45.75	46.36	46.88	47.10	47.25	45.35
15	33.42	29.02	32.46	35.29	39.73	44.16	45.79	46.40	46.94	47.19	47.47	44.64
16	34.14	30.18	31.72	35.69	38.73	44.22	45.81	46.44	46.82	47.17	47.37	44.22
17	34.95	31.59	31.27	36.02	38.29	44.33	45.83	46.45	46.96	47.14	47.32	43.92
18	36.21	32.23	30.92	35.50	37.98	44.46	45.86	46.37	46.92	47.10	47.32	43.91
19	36.18	32.54	31.07	34.47	37.66	44.62	45.87	46.44	46.93	47.09	47.37	44.26
20	36.15	32.89	31.15	33.50	37.54	44.66	45.91	46.47	46.92	47.20	47.41	45.63
21	35.28	33.14	31.52	32.85	37.60	44.70	45.94	46.48	47.01	47.21	47.32	46.07
22	34.32	33.30	31.27	32.51	37.27	44.78	45.97	46.54	46.98	47.21	47.42	46.24
23	33.82	33.64	30.43	32.56	35.95	44.82	45.97	46.56	46.89	47.22	47.37	46.39
24	32.86	34.70	28.93	33.06	34.87	44.83	46.04	46.57	46.97	47.23	47.22	46.48
25	32.00	35.55	27.57	33.72	34.18	44.80	46.08	46.56	46.96	47.21	46.92	46.60
26	31.52	36.40	26.59	34.55	33.94	44.67	46.14	46.56	46.97	47.22	47.26	46.61
27	31.05	37.30	25.58	35.09	34.00	44.67	46.12	46.57	47.01	47.22	47.15	46.67
28	30.12	38.19	24.97	34.85	34.29	44.72	46.15	46.62	46.95	47.25	47.12	46.68
29	29.45	39.24	24.78	33.95	34.69	44.98	46.25	46.65	46.93	47.25	47.27	46.77
30	28.73		25.09	33.08	34.86	45.10	46.19	46.64	46.92	47.25	47.55	46.91
31	27.83		25.77		34.33		46.29	46.67		47.24		46.94

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: 1945-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.43	27.78	26.39	25.58	25.28	25.70	26.39	e27.58	28.65	29.40	30.0	30.53
2	29.45	27.62	26.22	25.73	25.28	25.73	26.45	e27.62	28.68	29.43	30.0	30.52
3	29.46	27.08	26.01	25.74	25.38	25.68	26.47	e27.66	28.76	29.48	30.08	30.56
4	28.89	26.90	26.09	25.43	25.32	25.70	26.51	e27.70	28.78	29.47	30.08	30.56
5	28.96	27.32	26.56	25.56	25.26	25.71	26.56	e27.73	28.80	29.50	30.05	30.57
6	28.99	27.35	26.46	25.71	25.31	25.74	26.59	e27.79	28.81 ^h	29.53	30.11	30.59
7	29.10	27.50	26.35	25.67	25.33	25.74	26.61	e27.80	28.83	29.55	30.15	30.60
8	28.52	h27.20	26.19	25.60	25.27	25.74	26.62	e27.85	28.87	29.55	30.15	30.61
9	28.70	.....	25.97	25.55	25.22	25.74	26.70	e27.88	28.89	29.56	30.15	30.62
10	29.02	.....	25.87	25.45	25.30	25.77	26.73	e27.92	28.91	29.60	30.18	30.63
11	29.12	27.08	25.79	25.57	25.38	25.79	26.79	e27.96	28.93	29.63	30.19	30.69
12	28.87	27.18	26.30	25.30	25.42	25.79	26.85	e28.00	28.95	29.63	30.21	30.69
13	28.68	26.99	25.89	25.16	25.47	25.82	26.86	e28.03	28.98	29.64	30.23	30.70
14	28.60	26.96	26.31	25.35	25.38	25.85	26.88	e28.06	29.01	29.67	30.23	30.71
15	28.68	26.98	26.32	25.49	25.34	25.87	26.94	e28.09	29.02	29.70	30.25	30.72
16	28.81	26.70	26.30	25.54	25.45	25.88	27.00	28.13	29.04	29.72	30.28	30.73
17	28.38	26.75	26.25	25.40	25.47	25.91	27.03	28.21	29.05	29.73	30.30	30.72
18	28.68	26.83	25.98	25.33	25.53	25.97	27.06	28.23	29.07	29.76	30.31	30.75
19	28.20	26.59	25.88	25.28	25.50	25.97	27.08	28.26	29.12	29.76	30.31	30.76
20	28.44	26.48	26.05	25.33	25.48	26.00	27.10	28.28	29.17	29.83	30.33	30.71
21	28.47	26.65	26.09	25.34	25.60	26.03	27.16	28.32	29.19	29.84	30.35	30.79
22	27.96	26.63	25.84	25.31	25.60	26.07	27.21	28.38	29.21	29.84	30.36	30.77
23	28.51	26.42	26.04	25.28	25.60	26.11	27.25	28.41	29.23	29.84	30.42	30.78
24	28.62	26.34	26.05	25.28	25.57	26.12	27.32	28.44	29.26	29.85	30.43	30.84
25	28.08	26.45	25.99	25.31	25.56	26.16	27.34	28.48	29.27	29.88	30.40	30.83
26	27.88	26.22	26.07	25.29	25.66	26.20	27.38	28.51	e29.30	29.90	30.44	30.83
27	28.03	26.18	26.03	25.28	25.69	26.24	27.42	28.53	e29.33	29.90	30.49	30.82
28	28.05	25.96	25.98	25.23	25.68	26.28	27.45	28.54	e29.35	29.94	30.50	30.85
29	28.18	26.11	25.88	25.33	25.69	26.30	27.50	28.58	29.37	29.98	30.50	30.83
30	28.23		25.86	25.34	25.68	26.32	e27.51	28.60	29.38	30.0	30.53	30.83
31	28.01		25.66		25.65		e27.55	28.63		30.0		30.83

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. Maximum reflects local surface seepage. Highest water level 22.14 below lsd, Apr. 19, 1948; lowest 46.42 below lsd Feb. 5, 1948. Records available: 1943-52.

53-10-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	35.56	May 20	35.82	Aug. 22	42.28	Nov. 4	43.92
Mar. 10	35.99	July 15	40.93	Sept. 29	43.32	Dec. 2	44.26

Johnson County

8245-3745-92. E. P. Welch. Lat. 37°48', long. 82°46'. Drilled domestic water-table well in alluvial sand, diameter 18 inches, depth 57 feet, reported tile casing to 62, unscreened. Highest water level 31.00 below lsd, Mar. 24, 1952; lowest 50.20 below lsd, Oct. 27, 1952. Records available: 1949-52. Measurement discontinued.

Jan. 14	42.80	Apr. 20	45.86	July 14	48.57	Oct. 13	49.52
28	37.45	May 5	44.05	Aug. 4	49.05	27	50.20
Feb. 11	43.98	19	44.86	18	48.21	Nov. 10	49.84
25	44.89	June 2	45.31	Sept. 1	48.85	22	49.28
Mar. 10	44.09	16	47.82	15	49.42	Dec. 8	48.01
24	31.00	30	47.54	29	49.26	22	47.53
Apr. 7	44.98						

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: 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.83	.....	43.29	40.86	36.70	42.24	45.10	46.49	46.18	46.78	47.13	45.47
2	42.04	.....	42.95	41.37	38.30	42.58	45.23	46.48	46.21	46.91	47.11	45.62
3	41.84	.....	42.51	41.67	39.75	42.77	45.30	46.54	46.39	.....	47.19	45.76
4	41.27	.....	41.33	41.75	40.46	43.07	45.34	46.55	46.40	46.85	47.06	45.72
5	40.65	39.09	38.84	42.15	41.03	.....	45.41	46.53	46.41	46.98	47.02	45.85
6	40.62	39.10	38.41	42.19	41.59	.....	45.54	46.39	46.42	.....	47.13	45.70
7	40.84	39.49	39.70	42.32	42.06	.....	45.56	46.27	46.51	46.98	47.15	45.51
8	40.95	39.73	40.33	42.43	42.23	.....	45.57	.....	46.59	46.97	47.03	45.35
9	41.53	40.38	40.78	42.54	42.57	44.28	45.77	45.97	46.57	47.01	47.05	45.27
10	41.81	40.74	41.16	42.64	42.77	44.43	45.82	46.10	46.60	47.07	47.11	45.18
11	39.54	41.17	41.25	42.94	41.88	44.57	45.87	46.15	46.67	47.06	47.05	44.55
12	38.26	41.45	40.16	42.91	41.47	44.58	45.95	46.14	46.72	47.02	47.04	42.52
13	39.15	41.59	38.91	42.99	40.06	44.69	45.92	46.20	46.77	47.01	47.01	42.52
14	39.87	41.39	39.77	43.25	39.77	44.77	45.96	45.49	46.81	46.91	46.97	43.16
15	40.42	39.47	40.25	43.06	40.57	.....	46.07	45.36	46.82	46.85	46.93	43.45
16	40.82	38.96	40.77	43.05	40.92	45.01	46.19	45.47	46.82	46.84	46.90	43.69
17	40.92	39.22	41.28	42.93	41.28	45.13	45.83	.....	46.83	46.85	46.81	43.86
18	41.05	39.64	41.51	42.97	41.75	45.36	46.00	45.62	46.86	46.88	46.78	44.13
19	40.12	39.83	41.75	43.05	41.99	45.35	45.82	45.74	46.86	46.85	46.72	44.27
20	40.03	40.18	41.70	43.20	41.13	45.53	45.68	45.84	46.73	47.07	46.79	44.35
21	40.14	40.77	41.50	43.33	39.09	45.65	45.72	45.89	46.65	46.96	45.76	44.61
22	39.95	41.16	40.88	43.44	40.17	45.57	45.77	46.00	46.60	46.98	46.71	44.62
23	37.66	41.31	.....	43.54	40.81	45.02	45.90	45.72	46.52	47.02	46.00	44.87
24	33.99	41.72	.....	43.64	41.32	.....	46.08	45.50	46.49	47.03	45.50	44.90
25	35.18	42.11	28.52	42.57	41.66	.....	46.09	45.49	46.49	47.09	45.40	44.89
26	37.74	42.15	32.30	41.93	42.02	.....	46.21	45.53	46.52	47.08	45.40	44.98
27	38.49	42.39	.....	40.36	42.14	.....	46.24	45.69	46.65	46.99	45.35	45.06
28	35.21	42.48	.....	37.15	42.29	.....	46.31	45.80	46.69	47.10	45.35	45.17
29	33.25	42.91	.....	35.02	42.47	44.67	46.43	45.99	46.75	47.15	45.20	45.19
30	33.28	.....	.....	.....	42.17	44.84	46.50	46.03	46.72	47.09	45.46	45.28
31	.....	.....	.....	.....	42.02	.....	46.53	46.12	.....	47.06	.....	45.27

8245-3745-94. John Davis. Lat. 37°48', long. 82°46'. Dug domestic water-table well in alluvial silt and clay, diameter 18 inches, depth 22 feet, tile casing to 22. Highest water level 6.31 below lsd, Jan. 28, 1952; lowest 18.06 below lsd, Nov. 10, 1952. Records available: 1949-52. Measurement discontinued.

8245-3745-94--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	8.68	Apr. 20	11.52	July 14	13.07	Oct. 13	17.55
28	6.31	May 5	9.08	Aug. 4	14.34	27	18.03
Feb. 11	8.84	19	8.62	18	15.19	Nov. 10	18.06
25	10.00	June 2	9.80	Sept. 1	15.41	22	17.06
Mar. 10	9.08	16	11.79	15	16.50	Dec. 8	18.02
24	7.57	30	12.74	29	17.18	22	17.30
Apr. 7	9.46						

8245-3745-155. Mrs. Lucy Hall. Lat. 37°49', long. 82°47'. Drilled domestic water-table well in shale and sandstone of Breathitt formation, diameter 6 inches, reported depth 96 feet. Highest water level 46.13 below lsd, Apr. 23, 1951; lowest 54.90 below lsd, Oct. 13, 1952. Records available: 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	48.75	Apr. 20	48.76	July 14	51.58	Oct. 13	54.90
28	47.83	May 5	47.89	Aug. 4	51.20	27	53.85
Feb. 11	46.69	19	47.82	18	51.59	Nov. 10	53.34
25	47.23	June 2	47.96	Sept. 1	53.10	22	53.12
Mar. 10	47.63	16	50.09	15	52.52	Dec. 8	53.69
24	47.72	30	49.65	29	52.75	22	52.48
Apr. 7	46.67						

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. Recording gage installed Apr. 19, 1951. Highest water level 25.26 below lsd, Mar. 24, 1952; lowest 28.64 below lsd, Oct. 21, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	26.90	27.09	27.44	27.94	27.94	27.74	27.92	26.52
2	.....	26.92	27.10	27.50	27.95	27.96	27.72	27.72	26.58
3	.....	26.76	27.13	27.52	27.91	27.97	27.72	27.64	26.62
4	.....	26.67	27.19	27.47	28.00	28.00	27.79	27.60	26.56
5	.....	26.66	.....	27.51	28.02	27.96	27.84	27.63	26.61
6	.....	26.70	.....	27.48	27.99	27.89	27.86	27.42	26.68
7	.....	26.57	26.98	27.43	27.87	27.90	27.84	27.27	26.73
8	.....	26.40	26.85	27.43	27.90	27.92	27.94	27.27	26.51
9	.....	26.29	26.72	27.45	27.98	27.86	27.93	27.23	.....
10	.....	26.23	26.68	27.51	28.03	27.81	27.94	27.17	.....
11	.....	26.15	26.71	27.54	28.04	27.86	27.93	27.16	.....
12	.....	26.35	26.76	27.55	28.08	27.81	28.00	27.06	.....
13	.....	26.48	26.77	27.59	28.09	27.73	28.03	27.02	.....
14	.....	26.61	26.81	27.58	28.10	27.72	28.02	27.00	.....
15	.....	26.66	26.82	27.58	28.08	27.63	27.97	27.04	.....
16	.....	26.64	26.86	27.59	28.05	27.56	27.97	26.93	.....
17	.....	26.66	26.94	27.62	28.08	27.53	28.00	26.90	25.92
18	.....	26.74	27.03	27.64	28.10	27.53	28.01	26.84	25.73
19	h26.69	26.81	27.08	27.63	28.12	27.58	28.03	26.83	25.97
20	26.54	26.84	27.10	27.71	28.11	27.63	28.00	26.87	25.82
21	26.52	26.90	27.17	27.73	28.09	27.66	28.04	26.86	25.70
22	26.51	26.92	27.18	27.75	28.16	27.59	28.04	26.87	25.82
23	26.69	26.87	27.27	27.75	28.22	27.72	28.02	26.87	25.85
24	26.63	26.86	27.36	27.76	28.23	27.70	28.06	26.92	26.00
25	26.64	26.84	27.41	27.78	28.22	27.68	28.15	26.81	25.93
26	26.69	26.80	27.39	27.80	28.21	27.66	28.07	26.58	26.07
27	26.78	26.78	27.42	27.80	28.15	27.68	27.98	26.50	26.21
28	26.75	26.54	27.46	27.81	28.07	27.83	27.94	26.42	26.08
29	26.77	26.95	27.46	27.87	28.03	27.83	28.07	26.48	26.04
30	26.82	27.03	27.40	27.91	27.99	27.77	28.02	26.51	26.06
31		27.08	27.90	27.90	27.96		28.07		26.16

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	26.30	25.78	26.64	26.00	26.07	26.36	27.48	27.97	28.13	28.35	28.47	28.06
2	26.37	25.80	26.65	26.16	26.12	26.45	27.51	27.95	28.12	28.40	28.48	27.95
3	26.33	25.73	26.48	26.31	26.29	26.47	27.46	27.99	28.25	28.51	28.49	28.05
4	25.98	25.67	26.24	26.31	26.38	26.52	27.46	28.00	28.29	28.46	28.47	28.00
5	25.77	25.83	26.39	26.32	26.40	26.62	27.42	27.91	28.28	28.45	28.35	27.89

8245-3745-404--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	25.69	25.86	26.35	26.43	26.50	26.71	27.40	27.80	28.24	28.48	28.37	27.82
7	25.80	25.97	26.36	26.48	26.65	26.76	27.40	27.76	28.24	28.49	.....	27.75
8	25.65	25.91	26.31	26.52	26.62	26.84	27.34	27.73	28.29	28.43	.....	27.73
9	25.78	26.06	26.24	26.54	26.68	26.91	27.40	27.70	28.30	28.39	28.43	27.68
10	25.96	26.10	26.20	26.53	26.63	26.93	27.44	27.74	28.28	28.42	28.41	27.45
11	26.02	26.14	26.15	26.63	26.51	27.02	27.51	27.79	28.29	28.47	28.38	27.32
12	25.93	26.30	26.14	26.54	26.36	27.01	27.58	27.82	28.30	28.43	28.44	27.09
13	25.90	26.34	25.87	26.45	26.28	27.08	27.58	27.90	28.32	28.43	28.42	27.02
14	25.95	26.32	26.09	26.55	26.26	27.14	27.58	27.89	28.32	28.45	28.40	27.04
15	26.04	26.27	26.12	26.65	26.18	27.17	27.60	27.86	28.27	28.42	28.35	27.08
16	26.20	26.12	26.16	26.75	26.12	27.20	27.67	27.83	28.27	28.50	28.40	27.14
17	26.10	26.06	26.26	26.78	26.07	27.24	27.71	.....	28.26	28.48	28.42	27.15
18	26.21	26.13	26.25	26.76	26.12	27.30	27.72	27.99	28.28	28.49	28.33	27.23
19	26.08	26.05	26.23	26.75	26.10	27.30	27.70	28.00	28.28	28.42	28.22	27.29
20	26.12	25.99	26.26	26.77	25.89	.....	27.71	28.00	28.39	28.56	28.24	27.22
21	26.19	26.15	26.30	26.81	25.67	.....	27.75	27.99	28.39	28.60	28.15	27.31
22	25.94	26.27	26.01	26.82	25.61	.....	27.80	28.03	28.34	28.49	28.10	27.32
23	26.09	26.24	25.44	26.83	25.65	.....	27.82	28.06	28.38	28.45	28.14	27.35
24	26.17	26.27	25.30	26.81	25.73	27.34	27.88	28.07	28.42	28.43	28.08	27.46
25	26.06	26.41	25.36	26.59	25.77	27.28	27.90	28.11	28.39	28.44	27.95	27.48
26	25.96	26.40	25.49	26.35	25.96	27.31	27.92	28.13	28.33	28.47	27.92	27.51
27	25.89	26.41	25.60	26.15	26.11	27.36	27.92	28.12	28.37	28.43	28.03	27.51
28	25.55	26.35	25.75	26.03	26.19	27.42	27.91	28.05	28.40	28.41	28.08	27.59
29	25.56	26.48	25.85	26.00	26.26	27.45	27.94	28.12	28.43	28.56	.....	27.55
30	25.69	.....	26.00	26.05	26.27	27.42	27.99	28.11	28.39	28.56	.....	27.53
31	25.76	.....	26.02	.....	26.30	.....	27.97	28.11	.....	28.48	.....	27.41

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. Recording gage installed Apr. 14, 1952. Highest water level 41.51 below lsd, Apr. 9, 1951; lowest 45.45 below lsd, Oct. 21, 1952. Records available: 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.10	41.66	43.08	43.66	.....	.....	45.05	.....
2	42.00	41.84	43.23	43.54	44.09	.....	45.08	45.07
3	42.27	41.73	43.20	43.57	44.40	44.92	45.12	45.31
4	42.27	41.71	43.24	43.54	44.59	44.82	45.12	45.23
5	42.12	41.83	43.31	43.68	44.62	.....	44.76	44.97
6	42.15	41.89	43.36	43.69	44.58	44.84	44.74	45.00
7	h42.28	42.38	41.91	43.40	43.70	44.57	44.93	45.14	45.03
8	42.12	41.93	43.21	43.68	44.70	44.77	45.23	45.05
9	42.08	42.00	43.28	43.57	44.78	44.65	44.97	44.95
10	h42.13	.....	.....	42.02	43.36	43.59	44.75	44.75	44.96	44.61
11	h42.08	.....	.....	41.97	42.16	.....	43.69	44.74	44.92	44.94	44.77
12	42.16	42.14	.....	43.73	44.73	44.88	45.13	44.58
13	42.28	42.24	.....	43.93	44.76	44.82	45.12	44.60
14	h42.65	.....	.....	.....	42.36	42.32	.....	43.92	44.75	44.89	45.10	44.67
15	42.13	42.03	42.05	43.59	.....	44.65	44.74	45.01	44.71
16	42.14	42.32	43.72	.....	44.55	44.98	45.13	44.81
17	42.12	42.34	43.72	.....	44.49	44.98	45.20	44.76
18	42.16	42.57	43.67	43.94	44.46	45.05	45.11	44.83
19	41.97	42.54	43.50	43.97	44.48	44.85	44.74	44.98
20	41.61	42.65	43.35	43.98	44.72	45.20	44.78	44.69
21	42.53	41.94	42.73	43.37	43.92	44.71	45.45	44.70	44.80
22	42.49	41.98	42.78	43.42	44.04	44.65	45.24	44.74	44.74
23	42.42	41.90	42.83	43.42	44.17	44.72	45.09	45.20	44.71
24	h41.93	42.39	41.75	42.76	43.51	44.20	44.86	45.01	45.32	44.97
25	h43.56	.....	42.27	41.54	42.71	43.53	44.32	44.80	45.01	45.10	44.96
26	42.18	41.80	42.78	43.56	44.40	.....	45.08	44.86	45.00
27	42.05	41.95	42.87	43.54	.....	.....	44.85	.....	44.92
28	h42.04	.....	.....	42.00	41.91	42.98	43.42	.....	.....	44.80	.....	45.07
29	42.00	41.91	42.97	43.43	.....	44.81	45.22	.....	44.97
30	42.16	41.74	42.90	43.54	45.26	44.82
31	41.60	43.62	45.07	44.47

h Tape measurement.

KENTUCKY, JOHNSON COUNTY

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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. Recording gage installed Apr. 7, 1951. Highest water level 26.6 below lsd, Mar. 22, 1952; lowest 30.16 below lsd, Nov. 7, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	28.70	29.02	29.04	29.54	29.51	.....	29.43	28.57
2	.....	28.53	29.01	29.10	29.57	29.60	29.33	29.30	28.68
3	.....	28.34	29.02	29.09	29.53	29.70	29.37	29.38	28.65
4	.....	.....	29.10	29.07	29.64	29.70	29.41	29.45	28.55
5	.....	.....	28.98	29.13	29.64	29.62	29.47	29.52	28.58
6	.....	28.61	28.88	29.17	29.59	29.51	29.44	29.23	28.65
7	h28.28	28.50	28.79	29.13	29.43	29.59	29.44	29.04	28.71
8	28.39	28.51	28.68	29.17	29.47	29.64	29.50	29.19	27.74
9	28.50	28.43	28.47	29.17	29.56	29.53	29.41	29.19	.....
10	.....	28.33	28.40	29.23	29.59	29.48	29.40	29.13	.....
11	.....	28.29	28.43	29.28	29.62	29.58	.....	29.10	27.86
12	28.44	28.58	28.44	29.23	29.53	29.55	.....	29.01	28.04
13	28.53	28.73	28.40	29.31	29.52	29.48	29.58	29.03	28.36
14	28.56	28.88	28.28	29.29	29.55	29.52	29.57	28.94	28.09
15	.....	28.76	28.29	29.30	29.53	29.49	29.44	29.08	.....
16	.....	28.67	28.34	29.30	29.49	29.49	29.42	28.86	.....
17	.....	28.67	28.39	29.32	29.58	29.42	29.49	28.93	.....
18	.....	28.76	28.46	29.34	29.61	29.42	29.45	28.90	27.95
19	.....	28.77	28.47	29.29	29.65	29.46	29.53	28.95	28.25
20	.....	28.75	28.54	29.44	29.64	29.49	29.41	28.98	28.03
21	.....	28.82	28.64	29.46	29.57	29.49	29.50	28.90	27.60
22	.....	28.78	28.63	29.47	29.67	29.36	29.50	28.91	27.95
23	.....	28.85	28.77	29.43	29.73	29.50	29.42	28.87	27.96
24	28.65	28.92	28.89	29.44	29.70	.....	29.56	28.79	28.16
25	28.63	28.93	28.91	29.49	29.71	29.31	29.63	28.68	28.07
26	28.66	28.77	28.87	29.46	29.63	29.29	29.48	28.41	28.31
27	28.76	28.78	28.92	29.40	29.56	29.31	29.40	28.47	28.44
28	28.66	28.88	28.95	29.48	29.56	.....	29.38	28.45	28.18
29	28.64	28.97	28.99	29.50	29.58	.....	29.57	28.57	28.17
30	28.63	29.06	28.94	29.53	29.54	.....	29.49	28.58	28.25
31	.....	29.08	.....	29.52	29.50	.....	29.57	.....	28.35

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	28.59	27.98	28.95	28.62	28.77	28.50	29.35	29.61	29.70	29.87	30.05	30.00
2	28.52	28.00	28.87	28.76	28.78	28.62	29.41	29.60	29.68	29.94	30.06	29.92
3	28.43	27.88	28.40	28.87	.....	28.67	29.40	29.62	29.83	30.06	30.10	30.01
4	28.08	27.62	28.21	28.79	.....	28.74	29.42	29.63	29.86	29.92	30.04	29.96
5	27.89	27.97	28.52	28.80	28.92	28.85	29.46	29.65	29.83	29.93	29.96	29.84
6	27.95	27.98	28.56	28.87	29.00	28.92	29.46	29.65	29.81	29.97	30.02	29.83
7	28.11	28.14	28.61	28.89	29.10	28.97	29.43	29.65	29.83	29.96	30.14	29.84
8	27.90	27.98	28.58	28.93	29.02	29.01	29.40	29.67	29.88	29.92	30.12	29.84
9	28.09	28.24	28.55	28.94	29.03	29.09	29.41	29.62	29.86	29.90	30.02	29.83
10	28.37	28.22	28.56	28.94	28.95	28.95	29.44	29.66	29.84	29.96	30.02	29.57
11	28.35	28.31	28.19	29.02	28.88	29.09	29.51	29.68	29.85	29.98	30.01	29.56
12	28.25	28.44	28.27	28.94	28.91	29.05	29.55	29.68	29.87	29.95	30.06	29.52
13	28.19	28.59	28.12	28.88	28.94	29.12	29.53	29.67	29.87	29.95	30.06	29.55
14	28.21	28.61	28.47	29.01	29.01	29.17	29.52	29.66	29.87	29.98	30.04	29.59
15	28.34	28.62	28.49	29.08	28.90	29.19	29.55	29.65	29.82	29.96	30.05	29.61
16	28.48	28.50	28.55	29.15	28.64	29.21	29.58	29.60	29.86	30.02	30.06	29.62
17	28.29	28.50	28.66	29.14	28.60	29.28	29.39	.....	29.85	29.99	30.07	29.58
18	28.18	28.63	28.63	29.13	28.64	29.35	29.41	.....	29.90	30.02	30.06	29.64
19	27.96	28.55	28.55	29.12	28.59	29.34	29.38	29.75	29.83	29.93	29.96	29.65
20	27.98	28.47	28.55	29.15	27.35	29.38	29.39	29.73	29.91	30.11	30.01	29.55
21	28.00	28.67	28.59	29.19	27.78	29.38	29.45	29.72	29.91	30.09	29.97	29.65
22	27.71	28.77	27.00	29.19	28.03	29.36	29.50	29.76	29.89	30.00	29.84	29.66
23	28.03	28.68	27.19	29.17	28.20	29.24	29.51	29.76	29.92	29.98	29.97	29.64
24	28.22	28.68	27.64	29.12	28.36	29.09	29.57	29.77	29.94	29.98	29.96	29.74
25	28.02	28.82	27.91	28.68	28.40	29.13	29.56	29.79	29.90	30.02	29.92	29.69
26	27.95	28.74	28.15	28.70	28.61	29.20	29.59	29.80	29.85	30.02	29.92	29.70
27	27.66	28.82	28.27	28.69	28.72	29.25	29.58	29.80	29.91	29.99	30.04	29.68
28	28.39	28.68	28.43	28.66	28.75	29.30	29.55	29.72	29.93	30.03	30.05	29.73
29	27.74	28.83	28.51	28.71	28.46	29.33	29.60	29.76	29.94	30.14	29.97	29.69
30	27.97	.....	28.63	28.77	28.31	29.24	29.63	29.74	29.89	30.08	30.06	29.67
31	28.00	.....	28.63	.....	28.38	.....	29.62	29.77	.....	30.01	.....	29.53

Kenton County

8430-3900-17. C. J. Harris. Lat. 39°00', long. 84°33'. Dug domestic water-table well in shaly limestone of Maysville group, diameter 5 feet, depth 35 feet. Land-surface datum is 840 feet above msl. Highest water level 21.15 below lsd, Dec. 21, 1951; lowest 30.48 below lsd, Sept. 8-10, 1952. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.71	25.98	26.33	26.25	26.55	27.43	28.57	29.78	30.38	30.35	30.15	29.59
2	24.52	23.09	26.39	26.32	26.57	27.64	28.67	29.78	30.39	30.34	30.15	29.55
3	22.62	22.67	26.37	26.35	26.68	27.75	28.77	29.78	30.41	30.35	30.15	29.53
4	22.56	22.12	26.30	26.36	26.77	27.87	28.85	29.78	30.45	30.37	30.18	29.41
5	21.86	.....	26.49	26.21	26.82	28.00	28.95	29.80	30.44	30.37	30.17	27.55
6	22.64	.....	26.55	26.16	26.90	28.12	29.07	29.83	30.46	30.39	30.15	27.01
7	23.39	.....	26.57	26.15	27.04	28.24	29.14	29.86	30.46	30.41	30.16	26.57
8	23.56	23.98	26.55	26.17	27.11	28.34	29.18	29.88	30.48	30.44	30.19	26.34
9	24.04	24.61	26.47	26.21	27.17	28.43	29.21	29.88	30.48	30.43	30.19	26.25
10	24.59	24.91	26.40	26.19	27.22	28.53	29.27	29.88	30.48	30.41	30.20	24.17
11	25.07	25.30	22.69	26.34	27.34	28.62	29.30	29.90	30.47	30.33	30.21	24.75
12	25.23	25.76	23.28	26.33	27.41	28.70	29.39	29.92	30.45	30.31	30.23	25.08
13	25.43	26.04	23.15	24.50	27.59	28.70	29.45	29.95	30.44	30.27	30.24	25.48
14	25.62	26.20	24.14	23.96	27.72	28.74	29.48	29.96	30.42	30.25	30.25	25.78
15	25.76	26.03	24.76	23.87	27.73	28.78	29.49	30.05	30.39	30.22	30.26	26.04
16	25.73	25.80	25.19	24.23	27.79	28.78	29.53	30.04	30.37	30.21	30.27	26.26
17	25.44	25.79	25.63	24.59	27.81	28.68	29.56	30.04	30.33	30.20	30.30	26.35
18	24.51	26.02	25.87	25.19	27.82	28.68	29.59	30.06	30.29	30.19	30.34	26.41
19	23.86	25.94	25.72	25.59	27.70	28.68	.....	30.09	30.27	30.17	30.33	26.47
20	23.67	25.70	25.69	25.93	27.44	28.71	29.64	30.10	30.27	30.16	30.30	26.40
21	23.92	25.72	25.73	26.21	27.06	28.73	29.64	30.13	30.27	30.20	30.29	26.13
22	23.81	25.74	23.55	26.32	26.82	28.72	29.65	30.19	30.28	30.22	30.09	25.75
23	24.34	25.84	21.53	26.33	26.70	28.53	29.66	30.23	30.28	30.22	29.93	25.52
24	24.78	25.94	22.17	26.27	26.62	28.36	29.69	30.25	30.31	30.20	29.82	25.51
25	24.96	26.22	22.97	26.25	26.60	28.27	29.68	30.28	30.31	30.19	29.75	25.60
26	24.20	26.22	23.95	26.31	26.67	28.25	29.70	30.31	30.33	30.18	29.64	25.78
27	22.09	26.21	24.59	26.37	26.85	28.29	29.71	30.33	30.34	30.16	29.61	25.92
28	22.64	26.20	25.12	26.39	26.96	28.38	29.71	30.35	30.34	30.14	29.60	26.16
29	23.47	26.26	25.56	26.43	27.10	28.44	29.71	30.35	30.35	30.15	29.60	26.24
30	24.24	.....	26.03	26.51	27.24	28.48	29.72	30.37	30.35	30.15	29.58	26.29
31	24.64	.....	26.22	.....	27.34	.....	29.75	30.37	.....	30.15	.....	26.31

8430-3900-80. Summe & Ratterman. 224 East 20th St., Covington. Drilled unused water-table well in alluvium, diameter 6 inches, depth 150 feet. Land-surface datum is 520 feet above msl. Highest water level 38.63 below lsd, May 25, 1951; lowest 41.58 below lsd, Aug. 11, 1950. Records available: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	39.54	Mar. 14	39.47	May 9	38.78	Aug. 22	39.10
18	39.46	28	39.33	23	38.85	Sept. 19	39.23
Feb. 4	39.24	Apr. 11	39.19	June 20	38.71	Nov. 10	39.72
15	39.30	28	38.84	July 25	38.86	Dec. 8	39.63
Mar. 3	39.32	.....	.....	.....	.....	.....	.....

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. Recording gage installed June 16, 1951. Highest water level 46.31 below lsd, Aug. 7, 1951; lowest 48.30 below lsd, Nov. 28, 30, 1952. Records available: 1951-52.

Daily noon water level from recorder graph, 1951

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.56	46.49	46.55	47.45	47.75	48.06
2	46.60	46.47	46.62	47.42	47.78	48.04
3	46.55	46.37	46.75	47.42	47.80	48.00
4	46.45	46.50	46.80	47.48	47.86	47.89
5	46.61	46.47	46.79	47.51	47.97	47.87
6	46.62	46.42	46.74	47.57	47.82	47.89
7	46.57	46.34	46.86	47.51	47.68	47.97
8	46.51	46.35	46.88	47.64	47.90	48.06
9	46.49	46.43	46.82	47.62	47.93	48.03
10	46.55	46.48	46.75	47.64	47.93	48.03

8430-3900-103--Continued.

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	46.54	46.50	46.90	47.61	47.95	47.81
12	.....	46.53	46.51	46.91	47.70	47.83	47.83
13	.....	46.56	46.51	46.88	47.74	47.75	48.01
14	.....	46.45	46.51	46.99	47.71	47.77	47.77
15	.....	46.43	46.49	47.03	47.67	47.93	.....
16	46.69	46.43	46.48	47.05	47.67	47.96	.....
17	46.69	46.44	46.52	47.05	47.71	48.06	.....
18	46.72	46.42	46.53	47.05	47.71	48.08	.....
19	46.69	46.39	46.55	47.11	47.76	48.13	.....
20	46.61	46.45	46.52	47.14	47.67	48.16	.....
21	46.66	46.49	46.52	47.16	47.69	48.08	47.79
22	46.57	46.48	46.59	47.09	47.73	48.07	47.98
23	46.63	46.48	46.64	47.28	47.67	48.02	47.94
24	46.66	46.45	46.61	47.24	47.70	48.14	48.09
25	46.69	46.45	46.63	47.25	47.83	48.08	47.86
26	46.58	46.45	46.57	47.27	47.73	48.07	48.06
27	46.58	46.40	46.54	47.33	47.70	48.13	48.14
28	46.58	46.45	46.58	47.51	47.64	48.04	47.87
29	46.60	46.50	46.60	47.55	47.79	48.11	47.78
30	46.52	46.50	46.57	47.47	47.72	48.10	47.75
31		46.43	46.53		47.82		47.79

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.91	47.72	47.83	47.23	47.19	47.16	47.20	47.67	47.62	47.79	48.22	48.28
2	47.99	.....	47.80	47.35	47.14	47.17	47.22	47.62	47.59	47.87	48.22	48.18
3	48.05	.....	47.67	47.39	47.21	47.09	47.20	47.61	47.70	47.96	48.24	48.26
4	47.81	.....	47.64	47.30	47.19	47.12	47.21	47.60	47.73	47.87	48.19	48.18
5	47.87	47.62	47.94	47.28	47.12	47.11	47.26	47.66	47.67	47.88	48.04	48.10
6	47.88	47.57	47.87	47.37	47.16	47.11	47.26	47.64	47.64	47.90	48.12	48.15
7	47.92	47.66	47.86	47.41	47.25	47.11	47.26	47.62	47.66	47.93	48.26	48.13
8	47.66	47.46	47.79	47.42	47.11	47.08	47.15	47.59	47.71	47.89	48.25	48.15
9	47.75	47.63	47.62	47.40	47.10	47.13	47.20	47.54	47.72	47.86	48.21	48.11
10	47.94	47.58	47.52	47.36	47.10	47.10	47.21	47.57	47.72	47.88	48.22	48.00
11	48.00	47.59	47.54	47.43	47.14	47.17	47.27	47.60	47.74	47.92	48.20	48.14
12	47.93	47.64	47.68	47.28	47.16	47.08	47.32	47.60	47.75	47.87	48.25	48.06
13	47.80	47.59	47.38	47.09	47.22	47.16	47.26	47.68	47.78	47.86	48.25	48.07
14	47.78	47.58	47.67	47.19	47.25	47.17	47.23	47.65	47.78	47.94	48.24	48.07
15	47.84	47.59	47.64	47.28	47.17	47.18	47.21	47.56	47.74	47.96	48.19	48.10
16	47.93	47.59	47.60	47.40	47.25	47.16	47.27	47.49	47.72	48.00	48.24	48.12
17	47.72	47.60	47.61	47.39	47.25	47.16	47.26	47.61	47.69	48.00	48.25	48.06
18	47.97	47.69	47.48	47.36	47.26	47.24	47.24	47.62	47.69	48.06	48.22	48.13
19	47.79	47.63	47.43	47.31	47.18	47.21	.....	47.62	47.75	47.96	48.13	48.16
20	47.90	47.54	47.45	47.31	47.11	47.24	47.18	47.60	47.71	48.18	48.14	47.99
21	47.99	47.72	47.48	47.32	47.25	47.20	47.15	47.56	47.82	48.22	48.15	48.09
22	47.65	47.81	47.32	47.28	47.27	47.20	47.28	47.63	47.79	48.16	48.05	48.07
23	47.99	47.72	47.43	47.24	47.22	47.20	47.30	47.66	47.81	48.12	48.25	48.04
24	48.11	47.69	47.43	47.20	47.15	47.17	47.42	47.64	47.86	48.09	48.28	48.17
25	47.83	47.79	47.42	47.20	47.11	47.16	47.44	47.66	47.84	48.13	48.12	48.17
26	47.67	47.72	47.49	47.21	47.21	47.18	47.48	47.66	47.79	48.14	48.10	48.20
27	47.76	47.67	47.45	47.18	47.24	47.21	47.47	47.66	47.86	48.05	48.24	48.18
28	47.73	47.53	47.46	47.16	47.22	47.22	47.44	47.61	47.85	47.92	48.30	48.20
29	47.83	47.67	47.41	47.22	47.23	47.17	47.51	47.64	47.88	48.24	48.24	48.14
30	47.90		47.44	47.24	47.17	47.15	47.56	47.65	47.86	48.22	48.30	48.09
31	47.84		47.34		47.11		47.65	47.62		48.22		48.02

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 54.37 below lsd, Sept. 23, 1951. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.17	25.90	41.57	32.14	37.16	40.37	50.62	52.97	50.93	50.07	50.08	49.80
2	38.50	.....	42.03	34.20	37.20	40.74	50.67	52.91	50.85	50.08	50.08	49.72
3	37.56	.....	42.15	35.87	37.83	41.27	50.85	52.91	50.87	50.14	50.11	49.76
4	35.55	24.62	42.29	37.17	38.76	42.13	52.98	50.83	50.06	50.10	49.74
5	34.05	25.33	42.24	37.52	39.88	43.94	53.01	50.71	50.06	49.98	49.68

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8430-3905-15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	25.67	41.66	37.01	41.07	45.38	.....	53.04	50.64	50.11	49.99	49.71
7	.....	25.92	40.93	36.81	42.42	45.82	.....	53.04	50.58	50.17	50.06	49.72
8	.....	26.20	40.21	37.05	43.29	46.34	.....	53.07	50.53	50.14	50.06	49.66
9	.....	26.97	39.70	37.34	43.71	46.77	.....	53.05	50.47	50.06	50.01	49.58
10	.....	27.23	39.76	37.47	44.13	47.04	.....	53.01	50.46	50.05	50.03	49.50
11	.....	27.92	39.37	37.61	44.61	47.43	51.67	52.97	50.41	50.10	50.03	49.49
12	33.67	29.35	38.28	37.82	45.02	47.66	51.75	52.95	50.37	50.11	50.04	49.36
13	34.52	30.58	37.18	37.91	44.98	47.99	51.77	52.96	50.36	50.10	50.05	49.17
14	35.25	31.65	36.23	37.75	44.30	48.22	51.83	52.91	50.36	50.13	50.01	48.48
15	35.78	32.85	34.98	38.00	43.61	48.40	51.92	52.83	50.32	50.08	49.99	47.80
16	.....	33.87	33.85	38.40	43.28	48.57	52.01	52.77	50.27	50.12	50.00	47.35
17	.....	34.45	33.25	37.85	43.07	48.75	52.07	52.78	50.22	50.12	50.00	47.00
18	.....	34.98	33.13	36.82	42.92	48.93	52.13	52.71	50.20	50.10	49.96	47.00
19	.....	35.30	33.31	35.83	42.84	49.09	.....	52.64	50.20	50.05	49.91	47.72
20	.....	35.45	33.74	34.95	42.80	49.33	52.26	52.54	50.22	50.14	49.91	48.15
21	.....	35.77	34.52	34.63	42.86	49.49	52.32	52.50	50.20	50.17	49.94	48.34
22	.....	.....	34.65	35.03	42.16	49.66	52.39	52.47	50.16	50.09	49.87	48.35
23	.....	.....	32.86	36.67	41.19	49.77	52.48	52.14	50.14	50.04	49.95	48.49
24	.....	.....	30.83	37.75	40.71	49.79	52.66	51.89	50.16	50.04	49.94	48.68
25	32.74	.....	29.30	38.55	40.37	49.95	52.71	51.68	50.16	50.07	49.81	48.58
26	32.32	.....	28.15	39.29	40.47	50.03	52.77	51.52	50.14	50.08	49.77	48.51
27	31.56	.....	27.53	39.50	40.69	50.15	52.86	51.41	50.15	50.03	49.89	48.61
28	30.48	.....	27.45	38.87	40.89	50.25	52.93	51.27	50.14	50.05	49.86	48.62
29	29.80	40.87	28.15	38.12	40.84	50.34	53.04	51.19	50.11	50.13	49.82	48.58
30	28.74	.....	29.17	37.51	40.48	50.47	53.00	51.12	50.10	50.13	49.83	48.68
31	27.17	.....	30.60	.....	40.26	.....	53.04	51.03	.....	50.08	.....	48.79

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 48.06 below lsd, May 31, 1952; lowest 225± below lsd, Oct. 22, 1947. Records available: 1947, 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.84	50.40	49.94	49.36	49.73	48.16	48.99	51.45	.....	50.75	51.25	50.83
2	50.98	50.19	49.84	49.38	49.73	48.27	48.94	51.52	.....	50.71	51.25	50.63
3	49.89	49.76	49.70	49.83	48.30	48.91	51.36	.....	51.00	51.28	50.70
4	49.67	49.78	49.35	49.81	48.27	48.98	51.15	.....	50.93	51.25	50.61
5	49.94	49.99	49.37	49.99	48.27	48.97	50.96	.....	50.90	51.08	50.48
6	50.00	50.03	49.48	50.01	48.34	.....	50.93	50.40	51.04	51.12	50.46
7	50.11	50.44	49.69	50.01	48.68	.....	50.75	50.44	51.05	51.34	50.50
8	50.01	50.40	49.71	49.97	48.66	.....	50.96	50.55	50.92	51.35	50.41
9	50.07	50.07	49.69	49.88	48.69	.....	50.72	50.54	50.81	51.26	50.34
10	50.01	49.83	49.78	49.36	48.59	.....	50.51	50.65	50.82	51.15	50.11
11	49.85	49.91	49.77	49.22	48.60	.....	50.67	50.54	51.02	51.13	50.22
12	50.17	49.87	49.61	49.44	48.49	.....	50.57	50.55	51.00	51.24	50.16
13	49.55	49.36	49.42	48.51	.....	50.52	50.56	50.98	51.23	50.13
14	49.72	49.46	49.30	48.54	.....	50.44	50.63	51.09	51.22	50.14
15	49.69	49.56	49.09	48.47	.....	50.31	50.68	51.05	51.26	50.14
16	49.69	49.71	49.07	48.61	.....	50.21	50.71	51.18	51.33	50.17
17	49.84	49.80	48.97	48.64	.....	50.31	50.57	.....	51.37	50.11
18	49.67	49.70	48.85	48.68	49.49	.....	50.49	51.16	51.34	50.17
19	49.60	49.81	48.73	48.61	49.51	.....	50.40	51.06	51.07	50.14
20	49.68	49.75	48.45	48.61	49.46	.....	50.55	51.18	51.01	50.00
21	49.65	49.86	48.51	48.62	49.62	.....	50.58	51.21	50.93	50.12
22	49.43	49.92	48.53	48.59	49.66	.....	50.61	51.20	50.84	50.00
23	49.41	49.98	48.45	48.71	49.63	.....	40.68	.....	51.03	50.04
24	49.52	49.86	48.41	48.75	49.74	.....	50.74	.....	51.01	50.16
25	49.53	49.76	48.19	48.77	49.78	.....	50.70	.....	50.89	50.18
26	49.64	49.60	48.38	49.02	49.87	.....	50.74	.....	50.78	50.11
27	49.86	49.58	49.51	48.42	49.12	50.00	.....	50.69	51.08	.....	50.12
28	49.64	49.57	49.64	48.39	.....	50.64	.....	50.76	51.09	.....	.....
29	49.65	49.57	49.82	48.26	49.01	50.89	.....	50.74	.....	50.89	.....
30	49.61	49.81	48.09	49.00	50.85	.....	50.73	51.32	50.98	50.55
31	50.45	.....	49.57	.....	48.15	.....	51.15	.....	.....	51.25	.....	50.60

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 28.26 below lsd, Nov. 5, 1952. Records available: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	15.71	Apr. 21	16.85	July 11	25.20	Oct. 7	27.98
Feb. 26	16.66	May 19	20.26	Aug. 12	26.60	Nov. 5	28.26
Mar. 25	16.95	June 12	22.75	Sept. 9	27.45	Dec. 2	28.25
	11.80						

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: 1951-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	62.06	60.97	67.73	57.84	65.17	71.51	75.99	76.23	76.60	76.84	76.97	76.92
2	62.00	60.43	69.41	57.95	65.03	71.69	75.80	76.25	76.54	76.84	77.01	76.88
3	62.46	59.96	70.10	58.10	64.86	71.77	75.77	76.29	76.62	76.87	77.06	76.97
4	62.86	59.53	70.10	58.25	64.71	71.93	75.72	76.35	76.70	76.83	77.04	76.68
5	63.15	59.07	.....	58.61	64.65	72.07	75.65	76.34	76.68	76.75	77.00	76.67
6	63.23	58.65	.....	59.25	64.67	72.27	75.68	76.35	76.72	76.78	76.98	76.65
7	63.11	58.28	.....	60.00	64.91	72.55	75.67	76.42	76.72	76.83	77.02	76.72
8	62.83	57.92	.....	60.75	65.25	73.05	75.75	76.39	.....	76.79	77.02	76.63
9	62.60	57.86	.....	61.45	66.00	74.10	75.78	76.38	.....	76.79	77.01	76.80
10	62.46	57.80	68.97	62.02	66.65	75.07	75.75	76.35	76.68	76.77	77.00	76.77
11	62.26	57.75	68.92	62.55	67.62	74.11	75.77	76.36	76.82	76.75	76.94	76.70
12	61.65	57.73	66.75	63.08	68.60	74.30	75.82	76.27	76.80	76.83	76.98	76.63
13	61.11	57.84	64.90	63.45	69.46	74.43	75.83	76.26	76.87	76.77	77.00	77.43
14	60.81	57.84	63.30	63.73	70.27	74.52	75.78	76.30	76.84	76.69	76.99	77.57
15	60.75	57.95	62.27	63.93	70.88	74.65	75.80	76.34	76.74	76.75	76.90	77.74
16	61.33	58.28	61.85	64.17	71.42	74.55	75.90	76.32	76.65	76.80	76.98	77.83
17	61.85	58.68	61.37	64.28	71.96	74.95	75.85	76.42	76.75	76.87	76.96	77.84
18	62.75	59.25	61.17	64.33	72.29	75.05	75.93	76.38	76.73	76.86	76.90	77.80
19	63.70	59.90	61.33	64.45	72.28	75.04	75.94	76.41	76.73	76.84	76.82	77.63
20	64.76	60.72	61.31	64.67	72.23	75.15	75.95	76.42	76.74	76.89	76.80	77.50
21	65.70	61.45	61.39	64.83	72.33	75.09	76.03	76.39	76.72	76.95	76.86	77.70
22	66.32	62.20	60.88	64.87	72.44	75.17	76.05	76.48	76.80	76.93	76.88	77.36
23	66.27	63.25	60.06	64.79	72.55	75.21	76.08	76.48	76.74	76.92	76.90	77.26
24	65.63	63.15	59.13	64.62	72.57	76.22	76.10	76.50	76.82	76.82	76.91	77.29
25	64.70	65.00	.....	64.56	72.55	75.93	76.10	76.48	76.83	76.95	76.83	77.29
26	64.10	65.75	.....	64.59	72.44	75.77	76.15	76.58	76.84	76.95	77.15	77.29
27	63.65	66.52	.....	64.75	72.16	76.12	76.17	76.53	76.84	76.93	76.87	77.25
28	63.12	67.22	.....	64.93	71.90	75.92	76.18	76.62	76.82	76.92	77.15	77.17
29	62.62	67.91	.....	65.08	71.65	75.90	76.15	76.65	76.90	76.88	77.04	77.26
30	62.04	.....	.....	65.18	71.50	76.15	76.22	76.55	76.83	76.93	76.95	77.21
31	61.48	.....	57.83	.....	71.43	.....	76.25	76.60	.....	76.92	.....	76.97

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. Recorder in operation from June 8 to June 17, 1948; recording gage installed Dec. 19, 1951. Highest water level 116.39 below lsd, Mar. 10, 1952; lowest 137.67 below lsd, July 31, 1952. Records available: 1948, 1951-52.

Daily noon water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 8, 1948	h119.6	June 14, 1948	122.25	Dec. 21, 1951	120.38	Dec. 27, 1951	120.26
9	h120.63	15	122.45	22	121.11	28	120.64
10	h120.02	16	122.87	23	121.22	29	120.54
11	120.96	17	h123.26	24	120.47	30	118.78
12	121.55	Dec. 19, 1951	h120.36	25	119.69	31	118.66
13	122.51	20	120.37	26	120.30		

h Tape measurement.

8650-3720-8--Continued.

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	119.39	118.61	119.30	118.63	121.04	125.80	135.46	136.99	131.66	131.98	130.63	126.00
2	118.74	119.32	118.82	118.43	121.37	125.49	135.63	137.10	131.91	131.77	130.38	126.70
3	118.72	118.68	117.84	118.35	121.74	126.27	135.70	136.28	131.86	131.76	129.03	126.72
4	118.18	117.75	118.04	119.56	.....	126.87	135.60	.....	132.06	131.38	129.48	126.53
5	118.30	117.79	117.58	119.02	.....	127.13	136.37	.....	131.84	131.09	128.86	125.69
6	118.20	118.85	118.11	118.84	.....	127.15	135.86	.....	131.75	130.06	128.98	125.56
7	117.53	118.38	117.80	118.44	.....	127.20	135.59	.....	131.16	129.81	.....	124.96
8	118.06	118.88	117.64	118.22	.....	127.27	136.06	.....	.....	.....	.....	124.09
9	118.06	118.53	117.50	118.99	.....	.....	136.65	.....	.....	129.61	.....	124.28
10	119.72	.....	116.61	118.99	.....	.....	136.37	.....	.....	129.51	.....	124.73
11	119.11	.....	116.95	120.14	.....	.....	136.75	.....	.....	129.26	.....	124.71
12	119.55	.....	117.04	119.49	.....	.....	136.89	.....	.....	128.33	.....	124.44
13	.....	.....	116.90	118.98	.....	.....	.....	.....	.....	127.47	.....	123.92
14	.....	.....	117.79	118.78	.....	.....	.....	.....	.....	127.71	.....	124.25
15	.....	.....	117.92	118.69	.....	.....	.....	.....	.....	127.95	.....	124.64
16	.....	.....	117.65	118.69	.....	.....	.....	.....	.....	127.89	.....	125.16
17	.....	.....	117.09	118.91	.....	.....	134.59	.....	.....	127.93	.....	125.21
18	h119.77	.....	116.86	119.30	.....	.....	135.12	.....	.....	128.52	.....	125.32
19	119.55	.....	117.26	118.99	.....	.....	135.58	.....	.....	127.99	.....	125.00
20	119.05	.....	117.28	119.76	124.39	.....	136.02	.....	.....	128.30	.....	124.27
21	117.67	.....	117.82	119.44	124.70	.....	135.66	.....	.....	129.15	.....	123.48
22	117.71	h118.56	118.18	119.62	125.05	.....	135.70	.....	.....	129.62	.....	123.40
23	118.37	118.25	118.29	120.50	125.34	.....	135.27	.....	.....	129.70	.....	123.57
24	118.30	118.33	117.83	120.46	125.44	134.51	136.63	.....	.....	130.12	.....	123.51
25	118.36	118.04	117.79	121.99	125.42	134.79	136.96	.....	.....	130.19	.....	123.54
26	118.63	117.92	118.67	119.64	123.82	135.54	137.17	.....	.....	130.40	.....	122.79
27	118.49	118.52	118.37	120.18	124.16	135.44	137.14	.....	.....	130.22	.....	122.95
28	118.30	119.12	118.34	119.19	125.20	135.48	136.99	.....	.....	129.91	126.28	123.79
29	118.28	118.89	118.13	119.88	125.44	135.69	137.12	134.21	131.75	130.58	126.44	122.90
30	119.26	.....	119.23	120.85	125.51	135.61	137.49	133.35	132.46	130.38	126.98	122.87
31	118.97	.....	118.10	.....	124.73	.....	137.62	132.77	.....	130.38	.....	122.86

h Tape measurement.

Union County

8755-3735-10. J. A. Schneider. Lat. 37°39', long. 87°56'. Drille^d unused artesian well in fault zone in middle part of Pennsylvanian series, diameter 6 inches, depth 59 feet. Highest water level 3.48 below lsd, Feb. 4, 1952; lowest 14.41 below lsd, Oct. 29. Nov. 7, 1952. Records available: 1951-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.11	4.63	4.75	4.52	5.24	6.77	.....	12.41	13.57	14.07	14.37	13.94
2	.....	3.99	4.75	4.64	5.31	6.87	.....	12.46	13.39	14.12	14.37	13.87
3	.....	3.62	4.64	4.72	5.39	6.95	.....	12.51	13.39	14.14	14.40	13.87
4	3.89	3.52	4.49	4.53	5.46	7.07	.....	12.54	13.39	14.15	14.38	13.65
5	3.76	3.68	4.64	4.27	5.52	7.17	.....	12.61	13.40	14.18	14.35	13.52
6	3.82	3.78	4.70	4.27	5.61	7.29	.....	12.67	13.42	14.14	14.39	.....
7	3.96	3.93	4.76	4.32	5.68	7.40	.....	12.70	13.45	14.15	14.41	.....
8	3.96	3.98	4.75	4.38	5.71	7.51	.....	12.74	13.48	14.15	14.38	.....
9	4.13	4.17	4.75	4.47	5.78	7.56	.....	12.77	13.51	14.14	14.35	.....
10	4.37	4.27	4.30	4.55	5.84	7.65	.....	12.82	13.54	14.18	14.36	.....
11	4.52	4.42	3.76	4.54	5.87	7.71	.....	12.86	13.56	14.20	14.36	.....
12	4.54	4.52	3.69	4.52	5.93	7.76	.....	12.85	13.61	14.20	14.36	.....
13	4.60	4.57	3.61	4.20	5.96	7.86	.....	12.89	13.65	14.21	14.35	.....
14	4.65	4.46	3.79	4.17	6.01	7.96	.....	12.92	13.68	14.21	14.32	.....
15	4.76	4.44	3.90	4.23	6.05	8.05	.....	12.95	13.70	14.22	14.31	.....
16	4.87	4.43	4.01	4.34	6.06	8.16	.....	12.99	13.71	14.22	14.32	.....
17	4.86	4.49	4.11	4.42	6.25	8.29	h11.41	13.06	13.71	14.22	14.31	.....
18	4.91	4.39	3.98	4.49	6.28	8.45	11.49	13.10	13.75	14.30	14.29	.....
19	4.77	4.33	3.87	4.57	6.06	8.56	11.55	13.14	13.80	14.30	14.20	.....
20	4.91	4.06	3.88	4.67	6.06	8.68	11.60	13.18	13.82	14.36	14.19	.....
21	5.00	4.03	3.98	4.76	5.98	8.79	11.74	13.22	13.85	14.36	14.17	.....
22	4.81	4.07	3.53	4.81	6.03	8.94	11.81	13.26	13.87	14.35	14.12	.....
23	4.94	4.10	3.54	4.85	6.12	9.06	11.88	13.30	13.90	14.35	14.13	.....
24	5.01	4.20	3.62	4.79	6.17	9.17	11.95	13.33	13.93	14.35	14.11	.....
25	4.95	4.36	3.74	4.83	6.01	9.28	12.01	13.37	13.94	14.36	14.02	.....

8755-3735-10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	4.82	4.44	3.94	4.87	6.22	9.41	12.05	13.40	13.96	14.36	14.01	.....
27	4.57	4.52	4.05	4.94	6.33	9.46	12.11	13.44	13.99	14.35	14.04	.....
28	4.47	4.54	4.14	5.02	6.43	9.46	12.18	13.46	14.02	14.39	14.02	.....
29	4.58	4.66	4.26	5.08	6.50	9.46	12.24	13.50	14.05	14.41	13.97	12.40
30	4.69		4.37	5.18	6.57	9.46	12.30	13.50	14.07	14.39	13.98	.....
31	4.76		4.43		6.65		12.36	13.53		14.37		.....

h Tape measurement.

MARYLAND

By Claire A. Richardson

Scope of Water-Level Program

The observation-well program in Maryland was continued during 1952 in cooperation with the State Department of Geology, Mines and Water Resources. Measurements were made in 83 observation wells: 11 in the Appalachian Plateau and Ridge and Valley provinces, 16 in the Piedmont province, and 56 in that part of the Coastal Plain province west of Chesapeake Bay. Continuous recording gages were maintained throughout the year on 8 wells, and for part of the year on 1 other well. Figure 28 shows location of observation wells.

Precipitation

The annual precipitation in Maryland in 1952 was 51.35 inches, which was 9.30 inches above normal. It was fairly well distributed throughout the year except during April when precipitation amounted to 3.36 inches above normal, and in November when it was 3.45 inches above normal.

Interpretation of Water-Level Fluctuations

Appalachian Plateau and Ridge and Valley provinces. --Most of the water levels in wells in this area showed a net decline for the year, the average net decline being 2.20 feet. The net decline in water level in one well amounted to 9.89 feet. Record highs were reached in 4 wells, and record lows were reached in 2 wells. Most highs occurred in April and May, and most lows occurred in November.

Piedmont province. --The fluctuations of water levels in most of the wells showed a net rise for the year, the average net rise being 1.98 feet. The net rise in one well amounted to more than 14 feet. Water levels in 6 wells reached record highs during the year; record lows were reached in 3 wells. Most highs occurred in April and May, and most lows occurred in October and November.

Coastal Plain province (western part). --Most wells in this area showed a slight net decline in water level, the average being 0.69 foot. The net decline in one well amounted to 7.44 feet. Ten wells had record high water levels during the year, and five had record lows. Most high water levels occurred in April and May, and most lows occurred in September and October.

Baltimore industrial area. --There are two principal ground-water reservoirs in the Baltimore industrial area, the Patapsco and Patuxent formations. Most of the water levels in wells in the Patuxent formation showed a net decline for the year, the average net decline being 1.33 feet. The net decline in one well was 10.29 feet, but one well showed a net rise of 12.08 feet. Water levels in wells in the Patapsco formation showed an average net decline of 7.16 feet. One well showed a net decline of 5.42 feet and one well showed a net rise of 0.57 foot.

Well-Numbering System

All wells outside of Baltimore City are grouped by counties. Each county is divided into 5-minute quadrants. Each quadrant from north to south is designated by uppercase letters and from west to east by lowercase letters. The wells are numbered in each 5-minute quadrant in the order in which they are inventoried. Well Bal-Gf 51 would indicate that the well is in Baltimore County, in the seventh tier of 5-minute quadrants from the top (north) of the county map, and in the sixth tier of 5-minute quadrants from the left (west) edge of the map. The number 51 indicates the number of the well in that particular quadrant. A different well-numbering system is used for wells within Baltimore. All wells within the city limits of Baltimore are referred to mile squares which are in turn referred to the Washington Monument, which is near the center of the city. Thus well 253E-9 is in the square mile that is 2 miles south and 3 miles east of the Washington Monument and the number 9 indicates that it was the ninth well recorded in that square.

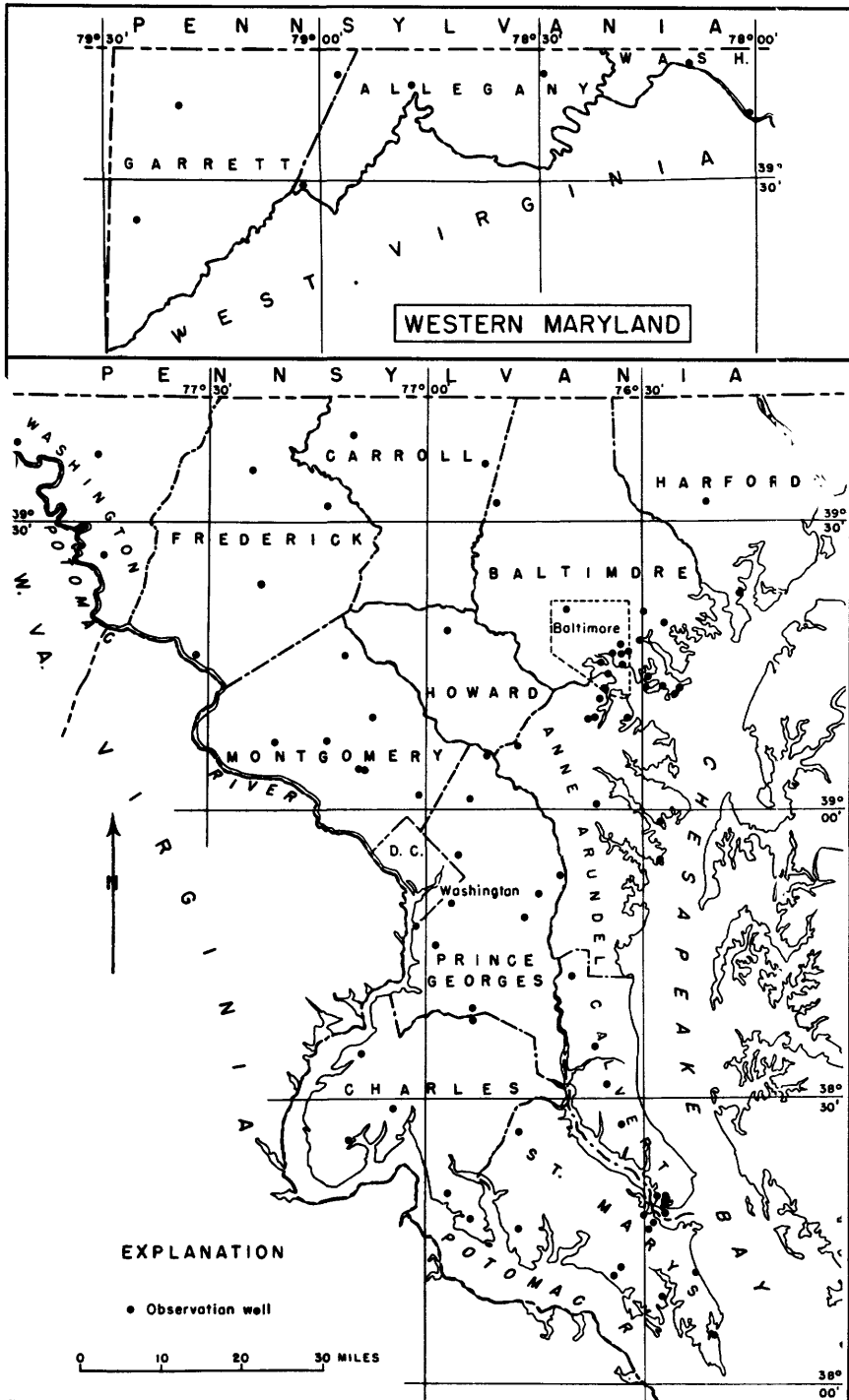


Figure 28. --Location of observation wells in western and central Maryland, 1952.

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. 37°21'6", long. 76°37'58". Drilled unused water-table well in rocks of pre-Cambrian age, diameter 6 inches, depth 114 feet. Land-surface datum is 220 feet above msl. Highest water level 6.46 below lsd, Mar. 14, 1949; lowest 13.75 below lsd, Dec. 3, 1946. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	10.50	May 1	6.91	Aug. 12	10.04	Nov. 25	10.00
Feb. 14	9.11	June 2	7.90	27	10.65	Dec. 9	9.97
Apr. 1	9.12	July 17	8.81	Oct. 15	11.09	30	9.90

IS3E-12. Kimball Tyler Co., Inc. Haven and Gough Sts. Lat. 39°17'23", long. 76°33'17". Drilled unused artesian well in Patuxent formation, diameter 6 inches, depth 172 feet. Land-surface datum is 60 feet above msl. Highest water level 110.24 below lsd, Feb. 6, 1951; lowest 124.51 below lsd, June 20, 1947. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	114.23	May 1	117.34	Aug. 27	117.14	Nov. 24	114.82
Feb. 14	114.02	June 2	117.01	Oct. 6	116.46	Dec. 30	116.13
Apr. 1	117.79	July 17	115.11				

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; lowest 58.19 below lsd, Apr. 6, 1944. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	37.49	Apr. 21	44.38	July 11	36.16	Oct. 28	43.85
Feb. 4	37.46	May 12	43.23	Sept. 2	37.49	Dec. 22	44.20

2S3E-11. J. S. Young Co. Boston St. and Luzerne Ave. Lat. 39°16'34", long. 76°34'44". Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 160 feet. Land-surface datum is 12.35 feet above msl. Highest water level 30.60 below lsd, July 29, 1949; lowest 37.44 below lsd, June 3, 1944. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	30.68	May 1	31.30	Aug. 27	33.67	Nov. 24	33.80
Feb. 14	32.48	June 2	33.27	Oct. 6	34.03	Dec. 30	32.96
Apr. 1	31.60	July 17	32.41				

2S5E-1. U. S. Army. Holabird Ave. and Pumphrey St. Lat. 39°16'18", long. 76°32'20". Drilled unused artesian well in Patuxent formation, diameter 12 inches, depth 290 feet. Land-surface datum is 18 feet above msl. Highest water level 80.89 below lsd, June 22, 1943; lowest 103.70 below lsd, Oct. 15, 1948. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	92.03	May 1	93.60	Aug. 27	103.31	Nov. 24	97.98
Feb. 14	99.24	June 2	100.28	Oct. 6	101.84	Dec. 30	101.16
Apr. 1	96.42	July 17	91.50				

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: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	40.49	May 1	41.00	Aug. 27	41.66	Nov. 24	44.71
Feb. 14	42.17	June 2	42.92	Oct. 6	44.73	Dec. 30	43.83
Apr. 1	42.03	July 17	41.00				

4S3E-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: 1947-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	54.31	62.05	62.38	.....	46.15	63.45	58.51	.....	.....	65.82	.....	64.63
2	54.04	62.39	63.40	.....	47.23	61.94	59.72	.....	.....	65.65	.....	63.57
3	55.24	61.47	64.25	.....	47.41	62.60	59.78	.....	.....	66.67	65.69	64.96
4	57.78	58.42	63.82	54.96	47.19	65.55	59.78	.....	.....	66.72	66.12	65.15
5	59.28	61.21	63.54	54.45	46.17	66.63	59.13	.....	.....	66.21	66.06	64.69

4S3E-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	59.64	61.72	62.47	52.44	46.96	.....	58.32	.....	.....	64.70	.....	65.15
7	59.77	62.80	61.92	50.98	48.65	.....	57.36	.....	.....	65.14	.....	65.05
8	59.57	62.85	62.35	49.98	55.35	65.55	57.17	.....	.....	65.47	.....	63.60
9	60.26	63.32	63.83	50.05	58.30	64.05	57.50	.....	.....	66.16	.....	63.05
10	61.75	63.15	64.37	51.70	58.81	64.95	57.66	.....	.....	66.42	.....	63.30
11	62.09	61.20	66.28	53.74	58.80	66.64	57.78	.....	.....	66.42	.....	63.62
12	61.92	62.13	64.35	53.85	58.62	.....	57.23	.....	65.39	.....	.....	64.02
13	61.34	63.00	62.67	51.23	59.96	.....	56.10	.....	65.39	64.26	.....	63.58
14	59.76	63.49	.....	48.15	60.79	66.75	54.85	.....	65.20	65.43	.....	63.49
15	59.76	63.97	.....	48.98	61.71	64.05	54.15	.....	63.72	65.94	.....	62.00
16	60.00	64.07	.....	49.73	62.90	61.95	54.83	.....	64.05	66.64	.....	61.67
17	60.51	62.39	.....	50.14	63.07	61.22	54.88	.....	64.33	67.00	66.55	63.59
18	61.26	61.10	.....	50.36	62.54	62.29	54.86	.....	64.48	66.96	66.29	64.57
19	61.61	62.70	.....	50.32	62.06	62.42	54.11	.....	64.71	66.49	66.41	65.62
20	60.86	63.47	.....	48.78	62.88	63.99	53.39	.....	65.51	65.56	66.14	65.87
21	60.25	64.54	.....	46.92	65.22	63.99	52.21	.....	65.26	65.38	66.35	65.58
22	60.39	65.00	.....	46.14	66.63	62.29	44.80	.....	64.47	65.04	66.63	64.95
23	61.56	64.51	.....	46.80	66.12	59.37	43.17	.....	64.85	65.23	66.63	64.21
24	62.07	63.49	.....	47.21	64.97	59.65	42.66	.....	65.12	65.62	66.19	64.80
25	61.56	59.87	.....	47.42	63.61	60.67	42.63	.....	65.70	66.14	66.64	64.76
26	60.25	59.06	.....	47.75	62.07	59.95	41.99	.....	66.05	66.16	66.64	62.87
27	59.07	59.16	.....	46.52	62.67	59.68	41.37	.....	66.33	65.10	66.49	61.34
28	58.16	59.60	.....	44.85	63.00	59.90	40.70	.....	66.22	65.81	66.35	61.18
29	58.32	61.81	.....	44.61	63.33	59.18	41.49	.....	65.03	.....	66.26	60.35
30	59.09	.....	.....	45.55	63.52	58.33	41.67	.....	65.28	.....	65.27	61.19
31	59.82	.....	.....	.....	63.00	.....	.....	.....	.....	.....	.....	61.78

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 51.53 below lsd Jan. 2, 1951; lowest 124.13 below lsd, Dec. 22, 1944. Records available: 1943-52. Apr. 18, 57.43; May 13, 53.78; July 11, 52.75; Oct. 28, 51.86; Dec. 22, 52.70.

Allegany County

All-Ah 1. State of Maryland. Green Ridge State Forest. Lat. 39°40'34", long. 76°27'34". Drilled public-supply artesian well in Jennings formation(?), diameter 8 inches, reported depth 300 feet. Land-surface datum is 740 feet above msl. Highest water level 2.18 below lsd. Dec. 30, 1950; lowest 6.9 below lsd, Oct. 30, 1951. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16	3.80	June 19	5.17	Aug. 4	5.27	Oct. 17	4.71
May 1	3.31	July 2	4.98	18	6.16	Nov. 13	5.91
15	3.37	21	6.00	Sept. 13	5.61	17	5.62
31	4.00	23	6.18	30	5.32		

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 18.89 below lsd, July 22, 1952. Records available: 1946-52.

Feb. 8	14.04	May 5	11.57	July 22	18.89	Nov. 4	13.77
Apr. 9	11.80	June 5	11.39	Sept. 8	13.79	13	14.68
16	11.49	July 8	14.86	Oct. 2	13.91	Dec. 8	14.85

All-Da 1. Cumberland & Pennsylvania Railroad Co. Westport. Lat. 39°29'38", long. 79°02'37". Drilled unused well in Conemaugh formation, diameter 12 inches, depth 88 feet. Land-surface datum is 980 feet above msl. Highest water level 1.62 below lsd, Nov. 4, 1948; lowest 5.13 below lsd, Aug. 12, 1947. Records available: 1946-52.

Feb. 11	2.12	Apr. 30	1.73	July 22	4.87	Nov. 3	4.11
Apr. 7	2.44	June 9	4.10	Sept. 5	4.42	14	4.13
17	2.58	July 3	4.43	Oct. 9	4.11	Dec. 4	3.46

Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot. Curtis Bay. Lat. 30°12'09", long. 76°35'39". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 109 feet. Land-surface datum is 44.9 feet above msl. Highest water level 30.61 below lsd, June 20, 1949; lowest 35.71 below lsd, Jan. 8, 1947. Records available: 1946-52. Feb. 5, 32.37; Apr. 18, 32.24; May 13, 31.76; July 11, 31.12; Sept. 2, 31.74; Oct. 28, 32.37; Dec. 24, 31.80.

AA-Ad 29. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. 39°10'18", long. 76°37'02". Drilled unused artesian well in Patuxent formation, diameter 3 to 2 inches, depth 530 feet, screen 490-530. 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: 1948-52.

Daily lowest water level, above lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.20	12.15	12.36	12.58	13.08	13.41	13.06	13.52	13.81	13.65	13.11	.....
2	12.21	12.31	12.26	12.65	13.10	13.36	13.05	13.58	14.02	13.66	13.09	.....
3	12.14	12.32	12.29	12.57	13.02	13.32	13.12	13.55	13.92	13.51	13.12	.....
4	12.12	12.52	12.39	12.53	13.06	13.40	13.17	13.57	13.81	13.45	.....	.....
5	12.26	12.50	12.33	12.66	13.09	13.40	13.15	13.59	13.78	13.47	.....	.....
6	12.24	12.43	12.30	12.65	13.12	13.40	13.07	13.61	13.82	13.50	.....	.....
7	12.20	12.41	12.25	12.55	13.12	13.47	13.07	13.61	13.80	13.45	.....	.....
8	12.20	12.39	12.25	12.48	13.07	13.38	13.11	13.63	13.72	13.38	.....	.....
9	12.38	12.43	12.25	12.43	13.06	13.45	13.41	13.67	13.70	13.37	.....	.....
10	12.22	12.41	12.25	12.50	13.16	13.44	13.40	13.86	13.74	13.33	.....	.....
11	12.11	12.48	12.46	12.57	13.23	13.42	13.36	13.76	13.76	13.31	.....	.....
12	12.13	12.41	12.47	12.55	13.21	13.37	13.32	13.76	13.79	13.30	.....	.....
13	12.17	12.36	12.50	12.60	13.17	13.30	13.34	13.82	13.80	13.33	.....	.....
14	12.27	12.33	12.46	12.80	13.12	13.28	13.38	13.77	13.82	13.32	.....	.....
15	12.28	12.26	12.46	12.77	13.21	13.35	13.42	13.81	13.86	13.38	.....	.....
16	12.22	12.31	12.53	12.70	13.15	13.38	13.42	13.86	13.86	13.33	.....	.....
17	12.20	12.52	12.39	12.67	13.11	13.41	13.38	13.87	13.85	13.27	.....	.....
18	12.32	12.38	12.33	12.72	13.13	13.42	13.42	13.83	13.85	13.27	.....	.....
19	12.24	12.33	12.38	12.73	13.09	13.38	13.59	13.80	13.86	13.33	.....	.....
20	12.33	12.33	12.50	12.77	13.13	13.27	13.56	13.81	13.77	13.15	.....	.....
21	12.16	12.34	12.54	12.76	13.24	13.23	13.47	13.82	13.70	13.06	.....	.....
22	12.17	12.26	12.55	12.75	13.17	13.20	13.57	13.87	13.68	13.08	.....	.....
23	12.22	12.25	12.57	12.82	13.15	13.23	13.58	13.80	13.68	13.16	.....	.....
24	12.05	12.28	12.55	12.72	13.15	13.25	13.55	13.73	13.62	13.22	.....	.....
25	12.05	12.29	12.50	12.75	13.25	13.35	13.41	13.68	13.61	13.12	.....	13.22
26	12.15	12.27	12.50	12.86	13.38	13.37	13.43	13.69	13.65	13.03	.....	13.22
27	12.40	12.38	12.46	12.98	13.30	13.35	13.50	13.71	13.64	13.12	.....	13.15
28	12.01	12.43	12.49	13.13	13.32	13.27	13.59	13.74	13.56	13.25	.....	13.08
29	12.28	12.56	12.42	13.09	13.37	13.26	13.62	13.75	13.56	13.09	.....	13.08
30	12.13	12.36	13.12	13.32	13.32	13.19	13.61	13.76	13.65	13.04	.....	13.14
31	12.10		12.42		13.33		13.57	13.78		13.10		13.14

AA-Ad 30. Anne Arundel County Sanitary Commission. Glen Burnie. Lat. 39°10'18", long. 76°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 8.06 below lsd, Apr. 28, May 3, 1952; lowest 12.16 below lsd, Jan. 25, 1950. Records available: 1948-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.51	9.25	9.10	8.85	8.24	8.76	9.41	9.78	10.15	10.05	10.29	9.78
2	9.51	9.20	9.10	8.85	8.17	8.81	9.42	9.78	9.85	10.06	10.30	9.78
3	9.51	9.17	9.10	8.92	8.11	8.85	9.44	9.78	9.83	10.06	10.30	9.79
4	9.52	9.12	9.10	8.94	8.16	8.85	9.45	9.77	9.77	10.08	10.31	9.79
5	9.51	9.08	9.11	8.93	8.21	8.86	9.46	9.78	9.75	10.09	10.32	9.79
6	9.49	9.04	9.11	8.90	8.26	8.90	9.48	9.79	9.74	10.16	10.32	9.79
7	9.48	9.00	9.13	8.93	8.31	8.95	9.50	9.79	9.72	10.17	10.32	9.80
8	9.48	8.95	9.13	8.97	8.37	8.98	9.51	9.79	9.71	10.17	10.33	9.80
9	9.49	8.92	9.13	9.00	8.41	9.02	9.43	9.78	9.71	10.16	10.33	9.80
10	9.49	8.90	9.13	9.01	8.45	9.04	9.27	9.71	9.71	10.14	10.33	9.82
11	9.48	8.89	9.13	9.02	8.47	9.07	9.19	9.80	9.72	10.14	10.33	9.82
12	9.46	8.90	9.07	9.03	8.51	9.10	9.19	9.83	9.74	10.14	10.33	9.79
13	9.45	8.92	9.07	9.03	8.54	9.12	9.18	9.85	9.77	10.16	10.33	9.77
14	9.43	8.93	9.03	9.03	8.58	9.15	9.20	9.86	9.82	10.17	.....	9.76
15	9.42	8.95	9.03	9.02	8.61	9.18	9.24	9.88	9.84	10.17	10.41	9.74

AA-Ad 30--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	9.41	8.95	9.02	9.05	8.65	9.20	9.30	9.91	9.86	10.17	10.41	9.72
17	9.39	8.94	9.00	9.06	8.68	9.25	9.34	9.93	9.87	10.18	10.41	9.72
18	9.37	8.96	9.01	9.07	8.71	9.30	9.39	9.96	9.90	10.18	10.42	9.72
19	9.37	8.99	9.00	9.09	8.73	9.30	9.44	9.98	9.92	10.19	10.42	9.78
20	9.37	9.00	8.95	9.11	8.73	9.31	9.47	10.00	9.95	10.20	10.42	9.78
21	9.37	9.00	8.96	9.13	8.76	9.31	9.51	10.02	9.98	10.21	10.42	9.74
22	9.37	9.00	8.96	9.15	8.80	9.31	9.53	10.02	9.98	10.22	10.33	9.68
23	9.35	9.00	8.92	9.16	8.84	9.30	9.62	10.01	9.98	10.23	10.02	9.67
24	9.35	9.02	8.92	9.17	8.86	9.30	9.65	10.00	9.98	10.24	9.87	9.66
25	9.35	9.06	8.88	9.17	8.86	9.27	9.68	10.01	9.99	10.26	9.82	9.65
26	9.35	9.07	8.86	9.14	8.84	9.30	9.69	10.04	10.00	10.27	9.76	9.62
27	9.32	9.08	8.90	9.03	8.75	9.32	9.71	10.06	10.01	10.28	9.74	9.64
28	9.30	9.08	8.90	8.44	8.75	9.35	9.73	10.08	10.02	10.27	9.73	9.63
29	9.28	9.09	8.89	8.24	8.75	9.36	9.76	10.10	10.03	10.28	9.73	9.64
30	9.27		8.87	8.25	8.76	9.36	9.77	10.12	10.04	10.28	9.75	9.64
31	9.27		8.86		8.76		9.77	10.15		10.28		9.64

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: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	22.87	Mar. 31	21.08	Oct. 6	21.75	Nov. 25	21.94
Feb. 5	75.57	July 11	21.11	29	22.02	Dec. 19	22.28
15	22.06	Sept. 2	21.00				

AA-Cd 10. Crownsville State Hospital. Crownsville. Lat. 39°01'18", long. 76°33'06". 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: 1949-52.

Jan. 3	111.60	May 13	111.83	Sept. 2	112.36	Oct. 28	114.50
Feb. 5	111.86	July 11	112.11	30	117.89	Dec. 22	113.52
Apr. 3	111.90						

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: 1946-52.

Jan. 3	66.90	May 13	69.06	Sept. 2	83.87	Oct. 28	73.98
Feb. 5	67.76	June 16	68.95	30	75.12	Dec. 22	74.34
Mar. 31	69.18	July 11	74.29				

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: 1946-52.

Jan. 3	5.89	May 13	5.47	Sept. 2	5.71	Oct. 28	5.88
Feb. 5	5.10	June 16	6.16	30	6.14	Dec. 22	6.06
Mar. 31	5.63	July 11	6.22				

Baltimore County

Bal-Ch 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: 1949-52.

Jan. 4	40.02	Apr. 15	35.01	July 1	35.48	Oct. 7	38.62
Feb. 5	35.39	May 13	32.90	Aug. 12	36.63	Dec. 9	36.81
Mar. 17	34.60	June 12	34.37	Sept. 2	37.49		

Bal-Ef 16. Water Hole. King Ave. and Babikow Rd. Lat. 39°21'31", long. 76°28'52". Dug water-table well in Patuxent formation, diameter 36 inches, depth 8 feet. Land-surface datum is 100 feet above msl. Highest water level 3.19 below lsd, May 7, 1948; lowest 7.90 below lsd, Sept. 21, 1949. Records available: 1944-52.

Bal-Ef 16--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.24	May 1	4.20	Aug. 27	4.34	Nov. 24	4.15
Feb. 14	4.26	June 2	4.19	Oct. 6	4.50	Dec. 9	4.20
Apr. 1	4.21	July 17	4.20				

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: 1944-52.

Jan. 3	57.76	May 1	56.10	Aug. 27	56.92	Nov. 24	57.48
Feb. 14	57.94	June 2	62.30	Oct. 6	58.47	Dec. 9	60.39
Apr. 1	59.36	July 17	57.14				

Bal-Fe 19. Paul Jones & Co., Inc. Dundalk. Baltimore & Ohio Railroad and Willow Spring St. Lat. 39°16'8", 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: 1944-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	88.22	94.09	89.48	91.78	.....	91.45	84.95	86.23	.....	.....	.....	92.20
2	90.42	94.07	89.45	92.32	88.34	93.18	85.23	87.45	.....	.....	97.15	93.19
3	89.98	93.43	89.81	92.73	88.11	92.99	87.07	87.55	.....	.....	95.92	93.45
4	91.50	93.63	89.70	92.88	87.87	93.22	85.92	89.28	.....	.....	96.45	93.44
5	91.03	93.86	90.75	92.85	88.10	93.27	84.95	90.16	.....	.....	96.93	93.13
6	92.05	94.53	90.12	91.02	89.16	94.00	84.00	90.76	.....	.....	.....	92.83
7	91.39	94.83	90.92	90.95	91.42	92.53	84.56	92.09	.....	95.40	.....	92.47
8	92.42	95.33	91.12	92.42	92.19	91.44	87.27	92.22	.....	96.35	.....	92.43
9	92.86	95.02	89.71	92.79	91.94	92.76	87.71	91.68	.....	.....	96.90	93.02
10	93.32	92.62	91.31	92.82	90.10	93.40	87.62	89.20	.....	.....	95.10	93.28
11	94.24	91.78	92.40	92.75	89.18	91.40	87.95	93.42	.....	95.85	95.11	93.08
12	93.82	93.67	93.32	92.60	89.42	91.42	87.77	92.92	.....	92.72	95.35	93.11
13	91.57	93.58	93.60	90.99	90.75	91.28	86.37	93.51	.....	94.22	95.62	93.20
14	92.88	94.00	94.58	.....	91.51	90.87	85.42	96.73	.....	96.10	95.20	92.59
15	94.09	94.26	94.27	.....	92.09	89.78	85.37	95.21	.....	96.98	94.88	93.14
16	92.69	94.70	90.45	.....	92.48	89.74	84.58	93.70	.....	.....	94.30	94.52
17	92.73	90.40	91.47	.....	92.30	90.20	85.42	92.27	.....	.....	92.83	95.20
18	92.74	92.83	93.38	.....	91.21	90.92	84.35	91.30	.....	.....	93.62	95.74
19	92.74	93.68	92.24	.....	90.72	90.67	81.80	92.96	.....	95.80	93.89	95.88
20	90.70	94.43	92.89	.....	91.82	92.09	79.44	93.96	.....	93.50	94.03	95.82
21	91.56	94.89	93.38	.....	92.51	90.14	77.90	94.44	.....	94.43	94.05	93.65
22	92.59	95.42	94.23	.....	92.80	87.95	79.42	94.76	.....	94.45	94.02	93.63
23	93.39	93.85	91.37	.....	93.12	86.04	77.92	94.53	.....	95.08	93.71	94.65
24	94.32	92.16	91.18	.....	93.14	86.66	77.85	92.90	.....	95.25	93.30	95.10
25	94.49	91.27	92.48	.....	92.00	86.22	78.55	92.26	.....	95.34	94.11	94.63
26	94.50	90.57	93.03	.....	91.23	85.57	76.60	94.57	.....	94.73	94.12	92.55
27	92.63	89.97	93.37	.....	93.53	85.05	77.48	95.13	.....	95.89	94.12	91.74
28	92.57	89.82	94.04	.....	94.66	84.85	78.65	.....	.....	97.25	93.22	90.65
29	93.14	89.85	93.58	.....	95.23	84.31	81.75	.....	.....	.....	93.37	91.32
30	93.53	.....	91.53	.....	93.82	84.22	83.54	.....	.....	.....	93.33	93.78
31	93.94	.....	91.28	.....	92.67	.....	84.51	.....	.....	.....	.....	92.58

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: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	45.80	May 1	44.34	Aug. 27	42.63	Nov. 24	44.75
Feb. 14	45.52	June 2	44.59	Oct. 6	44.04	Dec. 30	45.30
Apr. 1	44.59	July 17	40.75				

Bal-Gf 6. Bethlehem Steel Co. Sparrows Point. Lat. 39°14'00", long. 76°29'42". Drilled unused artesian well in Patuxent formation, diameter 12 to 5 inches, depth 625 feet, screen at 602-625. Land-surface datum is 10 feet above msl. Highest water level 71.13 below lsd, Oct. 28, 1949; lowest 115.90 below lsd, Aug. 30, 1949. Records available: 1943-46, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	106.98	June 2	101.13	Aug. 27	97.18	Nov. 24	95.64
Feb. 14	108.00	July 17	82.13	Oct. 6	99.38	Dec. 30	94.90
Apr. 1	108.42						

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 379 feet, screen at 283-304. Land-surface datum is 10 feet above msl. Highest water level 48.54 below lsd, June 26, 1950; lowest 99.50 below lsd, Sept. 20, 1951. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	76.78	May 1	74.57	July 17	64.51	Nov. 24	85.56
Feb. 14	69.71	June 2	79.90	Oct. 6	84.13	Dec. 30	82.20
Apr. 1	76.26						

Bal-Gf 169. Bethlehem Steel Co. Sparrows Point. Lat. 39°12'59", long. 76°28'29". Drilled industrial artesian well in Patapsco formation, diameter 10 to 5 inches, depth 224 feet, screen at 206-222. Land-surface datum is 10 feet above msl. Highest water level 24.52 below lsd, Feb. 2, 1949; lowest 83.19 below lsd, July 26, 1950. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	50.87	May 1	49.19	July 17	48.39	Nov. 24	49.21
Feb. 14	46.55	June 2	56.50	Oct. 6	62.73	Dec. 30	53.30
Apr. 1	50.64						

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: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	46.39	May 1	45.58	Aug. 27	43.56	Nov. 24	46.45
Apr. 1	47.83	June 2	46.81	Oct. 6	46.41	Dec. 30	46.31

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 30.15 below lsd, Oct. 6, 1952. Records available: 1947-52. Jan. 3, 25.69; Apr. 1, 24.27; May 1, 25.40; June 2, 20.32; Aug. 27, 27.18; Oct. 6, 30.15; Nov. 24, 25.86.

Bal-Gf 183. Chesapeake Terrace School. Lodge Forest. Lat. 39°13'19", long. 76°27'00". Drilled unused artesian well in Patapsco formation, diameter 8 to 6 inches, depth 307 feet, screen at 294-304. Land-surface datum is 10 feet above msl. Highest water level 17.67 below lsd, May 25, 1950; lowest 48.70 below lsd, Sept. 29, 1950. Records available: 1944-52. Jan. 3, 41.52; Feb. 14, 41.72; June 2, 40.00; July 17, 33.04; Aug. 27, 44.42. Measurement discontinued.

Calvert County

Cal-Bb 1. Gorman Lyons. Dunkirk. Lat. 38°43'25", long. 76°39'42". Dug domestic water-table well in deposits of Pleistocene age, diameter 4 feet, depth 44 feet. Land-surface datum is 144 feet above msl. Highest water level 14.74 below lsd, Apr. 30, 1952; lowest 33.71 below lsd, July 29, 1949. Records available: 1947-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	17.88	Mar. 20	19.25	May 13	16.30	Sept. 3	25.54
Feb. 1	17.14	Apr. 30	14.74	July 18	27.85	Dec. 22	19.02

Cal-Cb 4. J. Armiger. Near Huntingtown. Lat. 38°36'08", long. 76°36'55". Dug domestic water-table well in deposits of Pleistocene and/or Miocene age, diameter 36 inches depth 33 feet. Land-surface datum is 150 feet above msl. Highest water level 18.85 below lsd, Apr. 30, 1952; lowest 21.40 below lsd, Sept. 14, 1949. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	20.08	Mar. 30	19.29	July 18	20.22	Oct. 28	20.31
Feb. 1	19.60	Apr. 30	18.85	Sept. 3	19.99	Dec. 22	19.86

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: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	19.57	Apr. 30	18.29	July 18	19.63	Oct. 28	19.55
Feb. 1	18.82	May 13	18.26	Sept. 3	19.04	Dec. 22	19.27
Mar. 20	19.04						

Cal-Ec 4. W. W. Ross. Mutual. Lat. 38°28'37", long. 76°32'52". Dug domestic water-table well in deposits of Pleistocene age, depth 49 feet. Land-surface datum is 173 feet above msl. Highest water level 39.73 below lsd, May 13, 1952; lowest 46.31 below lsd, Sept. 7, 1950. Records available: 1947-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	44.54	Apr. 30	41.10	July 18	40.87	Oct. 28	43.28
Feb. 1	43.70	May 13	39.73	Sept. 3	42.01	Dec. 22	43.76
Mar. 20	42.15						

Cal-Fd 14. W. B. Glascock. Near Solomons. Lat. 38°20'08", long. 76°27'47". Drilled unused artesian well in sediments of Eocene age, diameter 1½ inches, reported depth 455 feet. Land-surface datum is 1.3 feet above msl. Highest water level 5.51 below lsd, Apr. 30, 1952; lowest 16.90 below lsd, May 29, 1947. Records available: 1947-52. Measurement discontinued.

Jan. 4	6.65	Apr. 30	5.51	July 18	6.31	Oct. 28	6.64
Feb. 1	6.60	May 13	5.95	Sept. 3	7.19	Dec. 22	6.33
Mar. 20	6.12						

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 9.5 feet above msl. Highest water level 17.98 below lsd, May 16, 1950; lowest 22.23 below lsd, Sept. 18, 1951. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.83	19.86	19.62	18.94	18.83	19.01	19.45	20.98	20.35	20.40	20.39	19.89
2	19.75	19.89	19.70	18.99	18.81	19.07	19.73	20.78	20.57	20.16	20.19	19.60
3	19.80	19.91	19.23	19.00	19.40	19.00	19.72	20.96	20.62	20.55	19.98	19.50
4	20.02	19.20	19.28	18.98	19.58	18.90	19.82	20.80	20.76	20.50	20.19	19.50
5	19.78	19.22	19.33	18.79	19.45	19.15	20.06	20.87	20.67	20.38	19.95	19.05
6	19.87	19.54	19.66	19.03	19.00	19.06	20.06	20.94	20.57	20.42	19.82	19.39
7	20.20	19.63	19.56	19.14	19.28	19.27	20.08	20.91	20.55	20.36	20.21	19.46
8	19.80	19.68	19.50	19.35	19.10	19.30	20.05	20.94	20.52	20.44	20.29	19.35
9	19.21	19.72	19.29	19.28	19.11	19.34	19.76	20.72	20.32	20.14	20.10	19.30
10	19.93	19.63	19.24	19.11	18.99	19.42	19.89	20.50	20.43	19.99	19.93	19.25
11	20.17	18.89	19.10	19.37	18.90	19.44	19.92	20.64	20.52	19.89	19.78	19.30
12	19.77	19.84	19.27	19.30	19.03	19.57	20.00	20.71	20.54	19.88	19.84	19.57
13	20.02	19.82	19.27	19.25	19.23	19.50	.....	20.72	20.58	19.91	19.97	19.40
14	19.80	19.82	19.23	19.00	19.25	19.36	.....	20.80	20.43	20.17	20.02	19.46
15	19.70	19.76	19.31	19.17	19.22	19.31	.....	20.61	20.20	20.16	20.02	19.47
16	19.79	19.65	19.40	19.22	19.19	19.47	.....	20.52	20.45	.....	19.99	19.53
17	19.79	19.25	19.67	19.17	19.12	19.30	.....	20.84	20.46	.....	19.75	19.68
18	19.89	19.47	19.47	19.35	19.06	19.55	20.14	20.77	20.45	.....	19.71	.....
19	19.96	19.57	19.05	19.44	18.92	19.45	20.37	20.60	20.45	.....	19.55	.....
20	19.72	19.45	18.92	19.40	19.02	19.49	20.47	20.60	20.69	.....	19.36	.....
21	19.93	19.44	19.05	19.51	19.01	19.48	20.46	20.49	20.65	.....	19.04	.....
22	19.95	19.62	19.14	19.40	19.28	19.40	20.62	20.60	20.62	.....	18.84	.....
23	19.74	19.50	19.01	19.47	19.21	19.40	20.72	20.65	20.60	.....	19.08	18.90
24	20.05	19.35	18.98	19.47	19.05	19.35	20.99	20.52	20.45	.....	19.45	19.01
25	20.20	19.25	19.04	19.16	18.82	19.34	20.99	20.65	20.44	.....	19.55	19.31
26	19.91	19.30	19.11	19.09	19.06	19.47	20.76	20.67	20.32	.....	19.52	19.42
27	19.82	19.27	19.15	19.00	19.15	19.44	20.80	20.60	20.54	.....	19.56	19.50
28	19.76	19.20	19.09	18.81	19.18	19.49	21.03	20.50	20.34	.....	19.68	19.80
29	19.70	19.18	.....	18.76	19.06	19.45	20.92	20.68	20.40	20.36	19.80	19.50
30	19.83	.....	.....	18.85	19.13	19.62	21.01	20.71	20.40	20.30	19.87	19.55
31	19.82	.....	.....	.....	19.04	.....	20.88	20.60	.....	20.34	.....	19.53

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 33.02 below lsd, Sept. 3, 1952. Records available: 1949-52.

Cal-Gd 6--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	30.09	29.70	29.40	29.15	29.00	30.50	32.50	32.37	31.78	31.0 ⁷	30.81
2	.....	30.11	29.76	29.23	28.99	29.10	30.90	32.40	32.60	31.52	30.97	30.61
3	.....	30.07	29.42	29.26	29.07	29.01	30.87	32.62	33.02	31.82	30.8 ⁷	30.45
4	29.73	29.34	29.40	29.37	29.07	28.82	30.93	32.53	32.95	31.82	30.9 ⁷	30.46
5	29.59	29.34	29.55	29.34	29.00	29.04	31.14	32.69	32.83	31.69	30.6 ⁷	30.07
6	29.67	29.63	29.83	29.30	28.77	28.97	31.16	32.79	32.65	31.72	30.5 ⁷	30.25
7	29.97	29.67	29.77	29.43	29.10	29.07	31.16	32.74	32.65	31.63	30.8 ⁷	30.35
8	29.67	29.70	29.72	29.49	29.02	29.08	31.13	32.75	32.61	31.65	30.9 ⁷	30.26
9	29.25	29.74	29.51	29.53	28.94	29.20	30.85	32.60	32.40	31.33	30.8 ⁷	30.18
10	29.83	29.65	29.54	29.43	28.78	29.20	30.87	32.40	32.34	31.16	30.74	30.06
11	30.08	29.60	29.30	29.51	28.71	29.44	30.86	32.58	32.32	31.20	30.5 ⁷	30.02
12	29.77	29.82	29.49	29.74	28.85	29.52	31.09	32.59	32.25	31.18	30.6 ⁷	30.31
13	30.00	29.75	29.46	29.74	29.07	29.45	31.20	32.62	32.20	31.15	30.7 ⁷	.....
14	29.75	29.75	29.40	29.47	29.12	29.42	31.24	32.65	32.10	31.30	30.7 ⁷	.....
15	29.75	29.68	29.45	29.61	29.12	29.40	31.20	32.50	31.93	31.21	30.7 ⁷	.....
16	29.94	29.59	29.58	29.76	29.12	29.58	31.43	32.41	32.09	31.16	30.7 ⁷	.....
17	29.95	29.22	29.85	29.85	29.11	29.48	31.48	32.77	32.12	31.16	30.61	.....
18	29.96	29.55	29.72	29.87	29.07	29.76	31.46	32.70	32.16	31.14	30.54	.....
19	30.05	29.67	29.40	29.79	28.87	29.68	31.32	32.67	32.15	31.10	30.3 ⁵	.....
20	29.85	29.62	29.27	29.70	28.84	29.90	31.34	32.67	32.39	31.45	30.11	.....
21	30.16	29.55	29.36	29.61	28.86	29.91	31.25	32.60	32.39	31.54	29.84	.....
22	30.17	29.72	29.45	29.61	29.11	29.93	31.39	32.70	32.30	31.32	29.77	.....
23	29.91	29.66	29.42	29.39	29.08	29.93	31.51	32.77	32.15	31.20	30.0 ⁷	.....
24	30.15	29.59	29.47	29.46	28.88	30.01	31.87	32.71	32.00	31.07	30.4 ⁷	29.36
25	30.33	29.56	29.57	29.28	28.70	30.04	31.87	32.85	31.96	31.08	30.47	.....
26	30.05	29.63	29.62	29.12	28.89	30.25	31.41	32.87	31.80	31.02	30.3 ⁵	29.63
27	29.96	29.54	29.64	29.10	29.03	30.35	31.85	32.79	31.98	30.75	30.37	29.65
28	29.87	29.39	29.68	28.98	29.03	30.50	32.05	32.66	31.86	30.76	30.51	29.89
29	29.87	29.32	29.63	29.10	28.97	30.49	32.01	32.74	31.88	31.09	30.6 ⁷	29.66
30	30.07	.....	29.69	29.16	29.14	30.65	32.18	32.73	31.80	31.06	30.7 ⁵	.....
31	30.09	.....	29.68	.....	29.05	.....	32.29	32.63	.....	31.05	.....	29.58

Cal-Gd 22. Esso Standard Oil Co. Solomons. Lat. 38°19'10", long. 76°27'18". Drilled unused artesian well in sediments of Eocene age, diameter 3 inches, reported depth 320 feet. Land-surface datum is 0.8 feet above msl. Highest water level 12.75 below lsd, Apr. 26, 1950; lowest 18.79 below lsd, May 19, 1949. Records available: 1947-52. Feb. 1, 14.79; Apr. 1, 14.01; July 18, 16.17; Sept. 3, 16.33; Dec. 22, 14.29. Measurement discontinued.

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, 1948; lowest 6.98 below lsd, Sept. 6, 1950. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	1.58	Apr. 16	1.41	July 23	2.39	Sept. 30	4.33
5	1.59	June 9	3.91	Aug. 4	4.80	Nov. 13	6.47
Mar. 3	2.64	July 1	2.79	Sept. 3	2.10	25	1.96
Apr. 7	2.08						

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, 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.63	60.80	.....	66.68	68.84	68.72
2	59.73	.....	.....	66.77	68.87	68.72
3	59.74	.....	.....	66.87	68.95	68.71
4	h68.70	.....	.....	.....	.....	.....	59.83	.....	.....	66.92	69.00	68.72
5	h62.14	.....	.....	.....	.....	59.95	.....	.....	66.98	69.01	68.72

Car-Bf 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	60.12	.....	.....	67.05	69.06	68.60
7	60.24	.....	.....	67.16	69.17	68.60
8	60.24	.....	.....	67.22	69.24	68.59
9	60.19	.....	65.26	67.30	69.27	68.55
10	60.11	.....	65.33	67.39	69.35	68.51
11	60.18	.....	65.39	67.45	69.39	68.36
12	h56.73	60.31	.....	65.45	67.50	69.49	68.35
13	h52.30	.....	60.37	63.18	65.50	67.57	69.56	68.22
14	60.41	63.31	65.55	67.64	69.62	68.10
15	h59.37	.....	.....	60.44	63.40	65.55	67.58	69.67	67.94
16	60.58	63.43	65.57	67.78	69.75	67.78
17	h60.28	.....	.....	.....	60.71	63.53	65.67	67.88	69.85	67.66
18	60.76	.....	65.72	67.50	69.90	67.53
19	60.76	.....	65.82	67.95	69.92	67.46
20	60.71	.....	65.95	68.12	69.95	67.37
21	60.76	.....	66.03	68.17	69.98	67.29
22	60.90	.....	66.09	68.22	69.99	67.09
23	60.95	.....	66.22	68.27	69.95	67.00
24	61.14	.....	66.30	68.34	69.72	66.85
25	61.32	.....	66.35	68.46	69.45	66.75
26	61.40	.....	66.35	68.50	69.17	66.62
27	61.44	.....	66.46	68.51	68.94	66.52
28	61.40	.....	66.54	68.52	68.83	66.47
29	61.40	.....	66.58	68.65	68.78	66.44
30	61.55	.....	66.65	68.71	68.70	66.31
31	61.63	.....	.....	68.75	.....	66.22

h Tape measurement.

Charles County

Ch-Bc 10. Mrs. Louise Brown. Potomac Heights. Lat. 38°36'15", long. 77°07'44". Dug domestic water-table well in deposits of Pleistocene age, diameter 36 inches, depth 39 feet, cribbed with brick. Land-surface datum is 125 feet above msl. Highest water level 25.26 below lsd, Mar. 8, 1949; lowest 32.05 below lsd, June 11, 1947, Sept. 7, 1950. Records available: 1947, 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	28.77	Apr. 18	26.92	June 11	26.67	Oct. 29	30.50
Mar. 13	27.54	May 1	26.36	July 20	28.27	Dec. 18	30.67
Apr. 2	27.02	June 4	26.37	Sept. 2	29.43		

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 4½ feet, depth 19 feet. Land-surface datum is 222 feet above msl. Highest water level 11.79 below lsd, Apr. 13, 1949; lowest 16.49 below lsd, Jan. 25, 1950. Records available: 1947, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	14.78	Apr. 18	13.06	July 22	14.54	Oct. 29	15.76
Mar. 13	13.44	May 1	12.45	Sept. 2	15.13	Dec. 18	15.45
Apr. 2	13.16	June 3	13.20				

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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	17.35	May 12	15.67	July 22	18.25	Oct. 10	19.25
Feb.	17.19	17	15.61	Sept. 5	19.25	Nov. 10	19.29
Mar. 14	16.83						

Ch-Dd 6. Roy Greer. McConchie. Lat. 38°29'46", long. 77°04'00". Dug domestic water-table well in deposits of Pleistocene age, diameter 36 inches, depth 25 feet. Land-surface datum is 145 feet above msl. Highest water level 20.08 below lsd, Mar. 8, 1949; lowest 23.32 below lsd, June 11, 1947. Records available: 1947, 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	21.27	Apr. 17	20.86	June 17	21.28	Oct. 29	21.95
Mar. 13	21.03	May 1	20.24	July 22	21.67	Dec. 23	21.03
Apr. 2	20.75	June 4	20.69	Sept. 2	21.83		

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, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	13.58	May 1	11.74	July 22	15.31	Oct. 29	15.69
Mar. 13	13.64	June 4	14.27	Sept. 2	15.28	Dec. 23	14.06
Apr. 3	12.97						

Ch-Ff 24. Joseph Holton. Issue. Lat. 38°17'23", long. 76°52'34". Dug domestic and stock water-table well in deposits of Pleistocene age, diameter 32 inches, depth 15 feet. Land-surface datum is 5 feet above msl. Highest water level 1.30 below lsd, Feb. 13, 1951; lowest 8.41 below lsd, Sept. 28, 1951. Records available: 1947, 1949-52. Jan. 17, 3.77; Mar. 13, 2.20; Apr. 3, 2.96; June 17, 5.87; July 22, 7.65; Sept. 2, 7.51; Dec. 22, 5.31. Measurement discontinued.

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: 1946-52.

Feb. 6	7.94	May 13	9.47	July 23	16.35	Sept. 30	17.87
Mar. 3	10.85	June 10	13.00	Aug. 5	23.29	Nov. 13	32.62
Apr. 9	8.43	July 1	15.14	Sept. 5	18.83	25	15.57
16	8.78						

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, stone-lined. Land-surface datum is 586 feet above msl. Highest water level 32.40 below lsd, Jan. 10, 1949; lowest 39.81 below lsd, Nov. 6, 1951. Records available: 1946-52.

Jan. 4	35.08	Apr. 15	33.94	July 1	37.35	Oct. 7	39.56
Feb. 6	33.92	May 13	33.47	Aug. 12	39.13	Dec. 30	37.79
Mar. 17	35.00	June 12	35.86	Sept. 3	38.90		

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, stone-lined. Land-surface datum is 330 feet above msl. Highest water level 42.10 below lsd, Mar. 6, 1949; lowest 54.98 below lsd, Nov. 22, Dec. 29, 1947. Records available: 1946-52.

Mar. 3	48.96	July 22	44.60	Sept. 6	45.59	Nov. 14	47.86
Apr. 17	48.76	Aug. 12	45.69	Oct. 1	46.10	26	47.64

Fr-Fc 1. Montgomery Orrison. Near Point of Rocks. Lat. 39°16'40", long. 77°31'18". Dug domestic water-table well in New Oxford formation, diameter 4½ feet, depth 28 feet, stone-lined. Land-surface datum is 240 feet above msl. Highest water level 6.00 below lsd, Jan. 10, 1949; lowest 22.97 below lsd, Oct. 10, 1947. Records available: 1946-52.

Feb. 12	7.55	Apr. 17	6.32	July 10	13.72	Nov. 24	15.68
Mar. 6	10.06	May 14	8.13	22	14.64	Dec. 10	7.71
Apr. 11	9.01	June 13	10.81	Aug. 12	12.99		

Garrett County

Gar-Ag 1. Town of Frostburg. Savage River valley. Lat. 39°40'20", long. 78°58'59". Drilled unused water-table well in Greenbrier or Pocono formation, diameter 8 inches, depth 30 feet. Land-surface datum is 2,560 feet above msl. Highest water level 5.71 below lsd, Jan. 19, 1950; lowest 8.64 below lsd, Oct. 9, 1951. Records available: 1946-52.

Feb. 6	7.40	Apr. 28	7.04	July 22	7.76	Nov. 7	8.57
Apr. 4	7.52	June 10	6.47	Sept. 10	8.23	13	8.63
17	7.40	July 2	7.31	Oct. 7	8.32	Dec. 5	8.03

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, stone-lined. Land-surface datum is 2,415 feet above msl. Highest water level 9.97 below lsd, Apr. 17, 1952; lowest 18.48 below lsd, Nov. 13, 1952. Records available: 1949-52. Apr. 17, 9.97; July 22, 16.67; Sept. 9, 17.75; Oct. 14, 18.00; Nov. 6, 18.34; Nov. 13, 18.48; Dec. 4, 15.90.

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. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	20.06	Apr. 29	18.62	July 22	33.85	Nov. 14	(f)
Apr. 4	23.40	June 10	25.64	Sept. 7	35.03	Dec. 4	32.55
17	20.86	July 2	30.99	Oct. 6	36.67		

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 pre-Cambrian age, depth 50 feet. Land-surface datum is 410 feet above msl. Highest water level 1.16 below lsd, Oct. 8, 1952; lowest 8.57 below lsd, Sept. 10, 1947. Records available: 1946-47, 1949-52.

Jan. 3	1.83	Apr. 10	1.79	July 10	1.26	Sept. 26	1.24
Feb. 6	1.71	May 8	1.80	Aug. 12	1.18	Oct. 8	1.16
Mar. 14	1.78	June 19	1.30	Sept. 9	1.27	Dec. 9	1.30

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 12.8 feet above msl. Highest water level 14.43 below lsd, Mar. 14, 1951; lowest 34.87 below lsd, Dec. 1, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.91	.....	31.85	.....	32.75	33.09	.....	.....	.....	.....	34.63	34.87
2	28.14	.....	31.84	.....	32.74	33.16	.....	.....	.....	.....	34.48	34.35
3	28.53	.....	31.38	.....	32.89	33.16	.....	.....	.....	.....	34.15	34.57
4	28.66	.....	31.65	.....	32.89	32.96	.....	.....	.....	.....	34.68	34.45
5	28.52	.....	31.84	.....	32.89	33.33	.....	.....	.....	.....	34.08	33.75
6	28.94	.....	32.22	.....	32.71	33.37	.....	.....	.....	.....	34.06	34.20
7	29.70	29.94	32.21	.....	33.15	33.25	.....	.....	.....	.....	34.58	34.27
8	29.15	30.05	31.91	.....	33.21	33.44	.....	.....	.....	.....	34.68	34.15
9	28.20	30.06	31.58	.....	32.95	33.07	.....	.....	.....	.....	33.93	34.50
10	29.42	30.21	31.57	.....	32.94	33.30	.....	.....	33.48	33.95	34.37	.....
11	29.85	30.04	29.60	32.82	32.72	33.59	.....	.....	33.58	34.01	34.39	.....
12	29.18	30.68	31.85	32.98	33.65	33.65	.....	.....	.....	33.95	34.19	.....
13	29.44	30.88	31.77	32.74	32.98	33.33	.....	.....	.....	33.72	34.40	.....
14	28.99	30.94	31.96	32.36	33.13	.....	.....	.....	.....	34.18	34.34	.....
15	.....	30.92	32.04	32.69	31.81	33.23	.....	.....	.....	34.22	34.42	.....
16	.....	30.74	32.35	32.94	32.15	33.39	.....	.....	.....	34.09	34.44	.....
17	.....	30.48	.....	32.60	32.23	.....	.....	.....	.....	34.12	34.23	.....
18	.....	31.01	32.35	32.78	32.13	.....	.....	.....	.....	33.97	34.22	.....
19	.....	30.90	32.71	32.82	32.63	.....	.....	.....	.....	34.06	34.03	.....
20	.....	30.92	.....	32.84	32.65	.....	.....	.....	.....	34.85	33.55	.....
21	.....	31.13	.....	32.94	32.70	.....	.....	.....	.....	35.00	33.50	.....
22	.....	31.25	.....	32.97	32.82	.....	.....	.....	.....	34.38	33.24	.....
23	.....	31.29	.....	33.10	33.19	.....	.....	.....	.....	34.25	33.91	.....
24	.....	31.18	.....	33.33	32.93	.....	.....	.....	.....	34.26	34.30	.....
25	.....	31.20	.....	32.85	32.58	.....	.....	.....	.....	34.65	34.42	.....
26	.....	31.28	.....	32.91	32.90	.....	.....	.....	.....	34.57	34.32	.....
27	.....	31.47	.....	32.77	32.94	.....	.....	.....	.....	34.06	34.21	.....
28	.....	30.95	.....	32.71	32.90	.....	.....	.....	.....	34.30	34.62	.....
29	.....	31.10	.....	32.60	32.90	.....	.....	.....	.....	34.83	34.63	.....
30	.....	.....	.....	32.54	33.35	.....	.....	.....	.....	34.69	34.61	.....
31	.....	.....	.....	.....	33.31	.....	.....	.....	.....	34.54	.....	.....

Howard County

How-Bd 1. S. D. Slack. Slacks 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, stone-lined. Land-surface datum is 630 feet above msl. Highest water level 30.28 below lsd, July 5, 1952; lowest 45.94 below lsd, Feb. 16, 1948. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	38.80	May 9	34.93	Aug. 15	31.12	Nov. 25	34.81
10	38.73	June 13	30.63	Sept. 17	32.53	Dec. 3	34.64
Mar. 14	37.44	July 5	30.28	Oct. 20	33.92	16	34.95
Apr. 3	37.33	22	30.46	Nov. 13	34.27	29	34.88
17	36.19	Aug. 7	30.88	14	34.19		

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, 1947; lowest 43.90 below lsd, Nov. 14, 1952. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	43.65	June 13	27.25	Sept. 17	36.31	Nov. 25	40.52
Feb. 6	43.78	July 22	32.53	Oct. 20	39.16	Dec. 16	38.32
Mar. 17	40.53	Aug. 15	34.88	Nov. 14	43.90	29	37.07
Apr. 15	29.42						

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 pre-Cambrian age, diameter 36 inches, depth 26 feet, stone-lined. Land-surface datum is 513 feet above msl. Highest water level 6.26 below lsd, Feb. 5, 1951; lowest 15.98 below lsd, Nov. 6, 1951. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	12.44	June 13	7.38	Oct. 17	11.63	Nov. 14	12.57
Feb. 6	9.24	July 22	7.78	30	12.01	Dec. 16	8.84
Mar. 17	8.45	Aug. 15	9.71	Nov. 5	12.27	29	8.08
Apr. 15	7.71	Sept. 17	9.99				

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	2.76	Apr. 15	2.90	Aug. 15	9.55	Nov. 27	3.32
Feb. 6	2.17	June 13	7.21	Sept. 17	7.94	Dec. 29	3.23
Mar. 17	3.80	July 22	10.99	Nov. 13	14.60		

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 6.10 below lsd, June 18, 1951; lowest 57.00 below lsd, Aug. 25, 1948. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	17.00	Aug. 11	12.62	Sept. 8	11.42	Oct. 13	11.63
22	11.90	19	10.67	16	11.68	Dec. 5	8.40
July 22	9.86	25	10.24	17	10.81		

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 1952.

Mont-Ef 9. City of 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 1952.

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 stoner. 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: 1932-52.

Mont-Eg 1--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.53	12.31	13.59	.....	9.66	11.74	14.43	15.49	14.99	15.97	16.42	.....
2	13.58	12.35	13.69	12.70	9.86	11.93	14.48	15.53	15.04	15.98	16.43	14.62
3	13.58	12.40	13.71	12.82	10.17	12.04	14.53	15.57	15.11	16.02	16.44	14.62
4	13.60	11.43	13.47	12.91	10.38	12.15	14.59	15.62	15.13	16.05	16.46	14.63
5	12.99	11.53	13.39	12.76	10.52	12.30	14.65	15.66	15.13	16.07	16.46	14.34
6	12.96	11.72	13.53	12.63	10.64	12.44	14.71	15.68	15.13	16.09	16.47	14.11
7	13.04	11.82	13.59	12.70	10.92	12.55	14.76	15.70	15.12	16.11	16.49	14.21
8	13.07	11.93	13.63	12.80	11.12	12.69	14.84	15.58	15.14	16.13	16.51	14.23
9	13.09	12.03	13.64	12.89	11.29	12.77	14.25	15.42	15.15	16.16	16.51	14.25
10	12.80	12.15	13.68	12.92	11.43	12.87	14.06	15.48	15.17	16.18	16.50	14.18
11	12.72	12.20	12.98	12.97	11.59	12.98	14.23	15.53	15.20	16.18	16.51	13.92
12	12.74	12.40	12.97	13.06	11.53	13.09	14.35	15.57	15.23	16.20	16.52	13.73
13	12.78	12.52	12.96	13.10	11.70	13.19	14.43	15.51	15.27	16.21	16.53	13.75
14	12.82	12.62	12.98	13.08	11.90	13.29	14.52	15.53	15.31	16.22	16.54	13.77
15	12.90	12.73	13.06	12.92	12.00	13.36	14.60	15.57	15.35	16.23	16.48	13.78
16	13.02	12.78	13.06	12.96	11.19	13.44	14.68	15.59	15.39	16.25	16.46	13.80
17	13.07	12.62	13.15	13.01	12.18	13.51	14.75	15.63	15.43	16.27	16.48	.....
18	13.07	12.75	13.26	13.03	12.13	13.60	14.81	15.67	15.49	16.27	16.50	.....
19	13.19	12.89	12.90	13.07	12.29	13.68	14.85	15.71	15.54	16.28	16.49	.....
20	13.17	12.96	12.71	13.12	12.19	13.78	14.90	15.73	15.60	16.30	15.92	14.02
21	13.32	13.00	12.70	13.20	12.05	13.86	14.95	15.74	15.64	16.32	15.04	13.93
22	13.19	13.11	12.71	13.25	12.20	13.92	15.01	15.74	15.68	16.33	.....	13.92
23	12.92	13.18	12.67	13.29	12.33	13.95	15.05	15.78	15.69	16.33	.....	13.94
24	13.04	13.23	12.60	13.29	12.44	14.00	15.11	15.80	15.74	16.35	.....	13.96
25	13.11	13.30	12.51	12.62	12.30	14.06	15.17	15.82	15.77	16.36	.....	13.98
26	12.82	13.37	12.50	11.38	12.10	14.13	15.21	15.85	15.79	16.38	.....	14.01
27	12.66	13.38	12.50	9.90	12.14	14.21	15.25	15.87	15.83	16.38	.....	14.04
28	12.32	13.44	12.51	9.03	12.21	14.29	15.30	15.90	15.88	16.38	.....	14.12
29	12.07	13.50	12.55	9.18	12.20	14.33	15.34	15.92	15.91	16.40	.....	14.14
30	12.19		12.63	9.42	11.77	14.37	15.40	15.95	15.94	16.42	.....	14.16
31	12.27		12.65		11.71		15.45	15.96		16.42		.....

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 3½ feet. Land-surface datum is 178.5 feet above msl. Highest water level 11.59 below lsd, Feb. 9, 1949; lowest 17.06 below lsd, Sept. 22, 1951. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	11.84	May 26	12.71	Aug. 9	15.85	Oct. 29	16.42
Mar. 24	12.06	July 18	14.84	Sept. 2	15.85	Dec. 19	13.14
31	11.90						

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 123.5 feet above msl. Highest water level 20.60 below lsd, May 26, 1952; lowest 23.91 below lsd, Sept. 16, 1949. Records available: 1948-52. Feb. 15, 21.63; Mar. 31, 21.03; May 26, 20.60; July 18, 22.34; Sept. 2, 22.06; Oct. 29, 22.37; Dec. 19, 21.99.

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 8.24 below lsd, Mar. 28, 1950; lowest 10.20 below lsd, Oct. 29, 1952. Records available: 1948-52. Feb. 15, 9.23; Mar. 31, 8.96; May 26, 8.90; July 18, 10.02; Sept. 2, 9.79; Oct. 29, 10.20; Dec. 19, 9.20.

PG-Dc 1. C. L. Jenkins & Sons. Suitland. Lat. 38°51'19", long. 76°56'10". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 365 feet. Land-surface datum is 290 feet above msl. Highest water level 199.21 below lsd, Sept. 2, 1952; lowest 200.27 below lsd, Jan. 25, 1949. Records available: 1948-52. Measurement discontinued.

Feb. 15	199.63	Apr. 17	199.62	July 18	199.56	Oct. 29	199.37
Mar. 31	199.70	May 26	199.34	Sept. 2	199.21	Dec. 22	199.32

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; lowest 75.96 below lsd, Nov. 19, 1951. Records available: 1948-52. Feb. 15, 73.65; Mar. 31, 73.71; May 13, 73.00; July 18, 73.06; Sept. 3, 73.06; Oct. 28, 72.97; Dec. 22, 73.33.

PG-Df 5. Charles F. Thorington. Near Hardesty. Lat. 38°54'17", long. 76°40'39". Drilled domestic well in Aquia greensand, diameter 5 inches, depth 78 feet. Land-surface datum is 50 feet above msl. Highest water level 3.38 below lsd, Sept. 3, 1952; lowest 6.48 below lsd, Sept. 24, 1951. Records available: 1949-52. Mar. 31, 5.84; May 13, 4.20; July 18, 5.68; Sept. 3, 3.38; Oct. 28, 5.10; Dec. 22, 4.95. Measurement discontinued.

PG-Ec 10. Ralph E. Clark. Near Friendly. Lat. 38°56'06", long. 76°59'34". Drilled unused artesian well in Patapsco formation, diameter 6 inches, depth 252 feet, cased to 240. Land-surface datum is 58 feet above msl. Highest water level 30.90 below lsd, June 22, 1949; lowest 33.16 below lsd, Nov. 17, 1950. Records available: 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	31.85	May 26	31.59	July 18	32.09	Oct. 29	32.52
Mar. 31	31.72	June 16	31.84	Sept. 2	32.25	Dec. 22	31.96

PG-Ef 1. Southern Maryland Agricultural Fair Association. 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 1.45 above lsd, Dec. 22, 1952. Records available: 1947-52. Feb. 15, +3.29; Apr. 8, +2.84; Apr. 17, +2.57; May 13, +2.63; July 18, +1.94; Dec. 22, +1.45.

PG-Fd 16. A. T. Robinson. Near TB. Lat. 38°41'00", long. 76°52'21". Dug stock water-table well in deposits of Pliocene age, diameter 4 feet, reported depth 22 feet. Land-surface datum is 225 feet above msl. Highest water level 8.50 below lsd, Apr. 6, 1949; lowest 17.64 below lsd, Dec. 28, 1949. Records available: 1949-52. Measurement discontinued.

Feb. 15	12.60	May 13	9.91	July 18	13.86	Oct. 29	15.43
Mar. 31	10.55	June 16	12.39	Sept. 2	14.73	Dec. 22	14.63
Apr. 17	10.64						

St. Marys County

St. M. -Bb 2. U. S. Navy railroad. New Market. Lat. 38°28'50", long. 76°46'34". Dug unused water-table well in deposits of Pleistocene age, diameter 4 feet, depth 11 feet, cribbed with brick. Land-surface datum is 170 feet above msl. Highest water level 2.29 below lsd, Apr. 30, 1952; lowest 7.46 below lsd, Sept. 16, 1949. Records available: 1947, 1949-52. Measurement discontinued.

Jan. 16	3.37	Apr. 2	3.27	June 3	4.03	Oct. 29	6.40
Mar. 14	3.53	30	2.29	July 4	6.07	Dec. 22	4.17

St. M. -Db 24. Clifton Downs. Milestown. Lat. 38°17'17", long. 76°46'29". Dug unused water-table well in deposits of Pleistocene age, diameter 30 inches, depth 10 feet, cribbed with brick. Land-surface datum is 50 feet above msl. Highest water level 1.72 below lsd, May 1, 1952; lowest 8.33 below lsd, Oct. 14, 1949. Records available: 1949-52. Measurement discontinued.

Jan. 17	2.44	May 1	1.72	July 22	7.12	Oct. 29	8.09
Mar. 13	1.89	June 4	5.06	Sept. 3	7.61	Dec. 22	3.00
Apr. 2	2.43						

St. M. -Df 23. G. S. Davis. Formerly C. S. Piggott. On Hominy Creek. Lat. 38°18'00", long. 76°27'59". Drilled domestic artesian well in sediments of Eocene age, diameter 6 inches, depth 260 feet, cased to 251. Land-surface datum is 22 feet above msl. Highest water level 31.02 below lsd, Nov. 14, 1946; lowest 39.93 below lsd, July 9, 1951. Records available: 1947, 1949-52. Measurement discontinued.

Jan. 16	33.23	Apr. 30	32.31	July 21	33.92	Oct. 29	33.32
Mar. 14	32.88	June 3	31.85	Sept. 3	33.80	Dec. 22	32.33
Apr. 3	32.61						

St. M. -Df 24. Frank Borley. On Little Kingston Creek. Lat. 38°19'17", long. 76°29'44". Drilled domestic artesian well in sediments of Eocene age, diameter 1½ inches, depth 280 feet. Land-surface datum is 8 feet above msl. Highest water level 3.77 below lsd, Apr. 30, 1952; lowest 5.99 below lsd, Nov. 20, 1951. Records available: 1947, 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	4.75	Apr. 30	3.77	July 21	4.38	Oct. 29	4.88
Mar. 14	4.12	June 3	3.92	Sept. 3	5.06	Dec. 22	5.20
Apr. 2	4.11						

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, brick and cement lined. 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, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	54.37	Apr. 30	52.55	July 21	51.94	Oct. 29	52.90
Mar. 14	53.28	June 3	53.10	Sept. 3	52.43	Dec. 22	53.30
Apr. 3	53.07						

St. M. -Ee 23. State of Maryland. On Poplar Hill Creek. Lat. 38°13'22", long. 76°34'16". Dug fire protection water-table well in deposits of Pleistocene age, diameter 36 inches, depth 8 feet, concrete-lined. Land-surface datum is 15 feet above msl. Highest water level 1.32 below lsd, May 1, 1952; lowest 2.96 below lsd, Dec. 21, 1949. Records available: 1949-52. Jan. 17, 1.97; Mar. 13, 1.74; Apr. 2, 1.51; May 1, 1.32; June 4, 1.92. Measurement discontinued.

St. M. -Ee 24. State of Maryland. Near Chingville. Lat. 38°14'19", long. 76°33'16". Dug fire protection water-table well in deposits of Pleistocene age, diameter 36 inches, depth 6 feet, concrete-lined. Land-surface datum is 90.8 feet above msl. Highest water level 1.74 below lsd, Aug. 3, 1949; lowest 3.80 below lsd, Sept. 28, 1949. Records available: 1949-52. Jan. 17, 2.64; Mar. 13, 2.37; May 1, 2.43; June 4, 2.62. Measurement discontinued.

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 11.85 below lsd, Oct. 29, 1952. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	9.32	Apr. 30	8.98	July 22	9.26	Oct. 29	11.85
Mar. 13	8.92	June 4	8.91	Sept. 3	11.13	Dec. 23	9.92
Apr. 2	8.11						

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, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	15.77	Apr. 30	15.47	July 21	15.90	Oct. 29	16.27
Mar. 14	15.68	June 3	15.60	Sept. 3	15.89	Dec. 22	15.65
Apr. 2	15.67						

St. M. -Fg 4. John A. Bradburn. Near Ridge. Lat. 38°06'31", long. 76°21'00". Drilled domestic artesian well in sediments of Eocene age, diameter 1½ inches, depth 420 feet, cased to 231. Land-surface datum is 10 feet above msl. Highest water level 7.92 below lsd, Mar. 25, 1947; lowest 10.72 below lsd, Oct. 29, 1952. Records available: 1947, 1949-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	9.85	Apr. 30	9.80	July 21	10.15	Oct. 29	10.72
Mar. 14	9.90	June 3	9.94	Sept. 3	10.52	Dec. 22	9.72
Apr. 2	9.93						

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 55.26 below lsd, Aug. 4, 1950. Records available: 1946-52.

Wa-Ac 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	50.89	May 2	48.44	July 22	54.32	Nov. 11	54.64
Apr. 9	49.99	June 6	53.20	Sept. 4	53.42	13	54.45
16	48.81	July 9	53.76	Oct. 17	54.23	Dec. 8	53.34

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, stone-lined. Land-surface datum is 480 feet above msl. Highest water level 18.33 below lsd, May 4, 1952; lowest 35.21 below lsd, Dec. 2, 1951. Records available: 1949-52.

Jan. 3	30.86	Mar. 31	19.68	June 15	24.18	Aug. 17	32.32
17	28.61	Apr. 16	22.28	July 3	31.09	31	33.31
Feb. 4	23.47	20	22.84	4	28.19	Sept. 14	32.08
20	23.90	May 4	18.33	20	29.65	Oct. 1	32.32
Mar. 2	25.17	18	19.35	23	29.37	Nov. 13	34.31
15	22.68	June 1	20.12				

Wa-Bf 1. State of Maryland. Clear Spring. Lat. 39°39'19", long. 77°56'13". Dug unused water-table well in Elbrook or Conococheague limestone, depth 35 feet. Land-surface datum is 600 feet above msl. Highest water level 24.61 below lsd, May 14, 1952; lowest 32.63 below lsd, Nov. 30, 1949. Records available: 1949-52. Measurement discontinued.

Feb. 7	25.89	Apr. 16	26.41	July 3	26.78	Sept. 10	28.14
Mar. 4	27.80	May 14	24.61	22	26.98	Oct. 1	28.76
Apr. 9	26.14	June 10	25.80	Aug. 6	27.82		

Wa-Bh 3. Mel Sword. 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: 1946-52.

Feb. 7	16.96	May 14	19.25	July 22	31.42	Oct. 1	38.99
Mar. 4	22.62	June 10	21.78	Aug. 6	40.06	Nov. 13	40.75
Apr. 9	19.90	July 8	28.70	Sept. 10	39.75	25	16.65
16	21.42						

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, stone-lined. Land-surface datum is 440 feet above msl. Highest water level 17.78 below lsd, Feb. 7, 1951; lowest 31.89 below lsd, Apr. 28, 1947. Records available: 1946-52.

Feb. 8	27.38	May 14	22.43	July 22	24.73	Oct. 2	25.50
Mar. 4	25.43	June 11	23.18	Aug. 6	25.38	Nov. 14	25.52
Apr. 8	23.98	July 2	25.05	Sept. 10	25.35	26	25.31
17	25.11						

EASTERN SHORE

By D. H. Boggess and W. C. Rasmussen

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 1952. The observation-well program, prior to the establishment of the field office at Salisbury in 1949, included measurement of 12 wells in Dorchester, Kent, and Wicomico Counties. In 1952, measurements were made in 35 wells, 5 of which were equipped with recording gages. Figure 29 shows the location of the observation wells in the Eastern Shore of Maryland. Four artesian wells--Dor-Ce 22, in sand of Jackson age, depth 370 feet; Dor-Dd 6, depth 375 feet; Som-Be-42, in sand of Miocene age, depth 184 feet; and Tal-Ed 6, depth 327 feet, were added to the observation-well program in 1952. Well Wi-Bd 33 was selected as an observation well from a group of 32 infiltration study wells, as most nearly following the average water-table fluctuations in the Rewastico watershed.

The decline of water levels in the Cambridge area in relation to pumpage is discussed in a paper entitled, "Yield of ground-water reservoirs calculated by geo-mathematical analogy," by W. C. Rasmussen, published in the Proceedings of the Twenty-fifth Annual Conference of the Maryland-Delaware Water and Sewage Association. The decline of water levels in the West Denton area in relation to pumpage is discussed in a memorandum released to open file during 1952.

Precipitation

The mean annual precipitation for 1952 computed from U. S. Weather Bureau records for 15 stations in the Eastern Shore was 49.49 inches. This is 6.27 inches more than the average precipitation for an average of 37 years of measurement. Precipitation and departure from normal in 1951 are shown in the following table:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Precipitation	4.85	2.75	5.23	5.72	3.89	2.68	3.84	6.87	3.10	1.36	5.65	3.55
Departure	1.36	-0.23	1.58	2.21	0.20	-1.15	-0.81	2.20	-0.46	-1.77	2.78	0.36

Pumpage

Average daily pumpage in millions of gallons from aquifers on which water-level records are maintained are as follows:

Cambridge "400-foot" aquifer: Jan. 1.95; Feb. 2.00; Mar. 1.96; Apr. 2.13; May 2.35; June 3.40; July 3.11; Aug. 3.14; Sept. 3.91; Oct. 3.16; Nov. 2.68; Dec. 2.24.

Salisbury: Jan. 1.83; Feb. 1.88; Mar. 1.93; Apr. 2.12; May 2.42; June 3.44; July 4.26; Aug. 3.52; Sept. 2.61; Oct. 2.15; Nov. 1.94; Dec. 1.93.

Estimated pumpage from the West Denton "90- to 140-foot" aquifer: 270,000 gallons a day January through March; 400,000 gallons a day April through December.

Interpretation of Water-Level Fluctuations

Monthly averages of water levels in 14 water-table wells selected for a real representation and length of record showed an average rise in water level of 0.78 foot during January. A decline in water level of 0.33 foot in February was the result of normal ground-water depletion when recharge by precipitation was below normal. From March 1 to May 1, the average water level rose 0.65 foot to the highest point of 39 months of record. From May 1 to August 1, the average water level declined 3.81 feet. This recession was caused principally by the high evapotranspiration

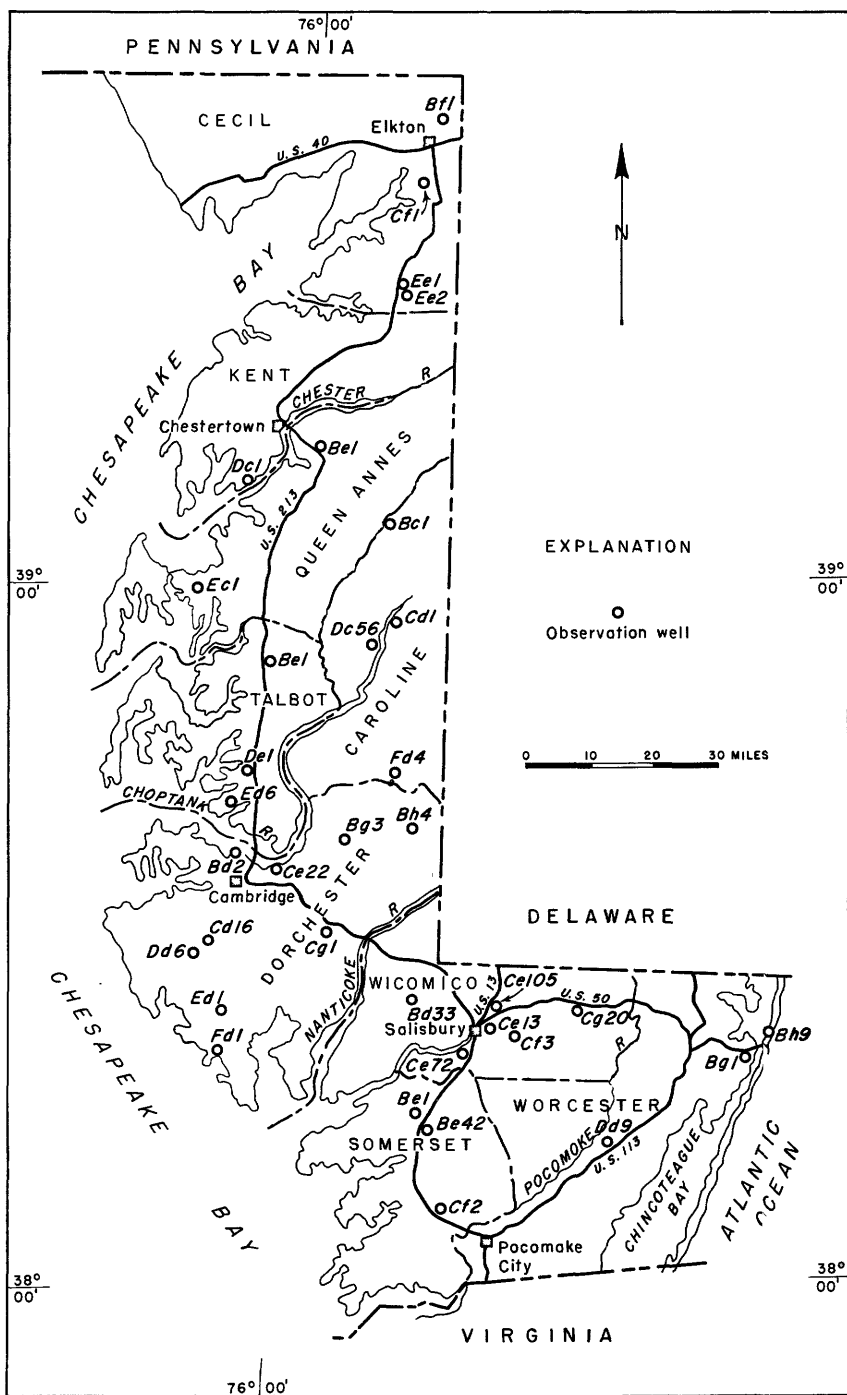


Figure 29. -- Location of observation wells in Eastern Shore, Md., 1952.

rate in that period. During August, the average water level rose 1.07 feet in response to precipitation 2.20 inches above normal. Evapotranspiration during August was probably somewhat below normal because of the number of cloudy days. From September 1 to November 1, the average water level declined 0.34 foot. The average water level rose 2.33 feet from November 1 to December 31, when recharge to the water table by precipitation was above normal.

Water levels in water-table wells Care-Cd 1, Care-Fd 4, QA-Ec 1, Dcr-Cd 16, Dor-Cg 1, Dor-Fd 1, Som-Cf 2, and Tal-De 1, were within 1 foot of land-surface datum for all or part of the period January 1 to May 1. The high water levels recorded in these wells were probably due to a sustained high rate of recharge from precipitation. Precipitation from November 1, 1952, when a general rise in water levels began, to April 1, 1953 was 9.46 inches above normal. The high ground-water levels occurred over a period of low evapotranspiration; thus the ground-water table lost only a relatively small amount of water to the atmosphere during that time.

The water level in water-table wells QA-Be 1 and Som-Be 1 was above land-surface datum for all or part of the year. QA-Be 1 is a driven well on the side of a small draw about 20 feet above sea level. The divide in this drainage basin, between 0.5 and 0.7 mile from the well, is about 50 feet above sea level, or 30 feet above the ground level at the well. This well was flowing at low head, 1 foot above the land surface, from January to May 1952. The water in Som-Be 1 rose above land surface for the period January to April but did not flow. The well is in the Pamlico terrace plain at an elevation of about 18 feet above sea level, with low relief around it. The highest land is a low ridge about 0.2 mile east of the well, with a crest elevation of about 25 feet above sea level.

This ridge appears to be the southeasterly rim of "Carolina Bay," as determined from aerial photographs. The observation well is within the bay, and the positive head observed in the well may be a contributing fact to the theories of origin of these controversial topographic forms. One explanation is that leakage from underlying artesian aquifers of Miocene age has contributed to the sapping and development of the depressions. This positive head suggests such upward leakage.

Water-table well Care-Bc 1 showed a decline of 3.5 feet in water level during January and February, when a nearby network of farm drainage ditches was being deepened and widened. The well is about 26 feet from the nearest ditch. The ditch grade is about 4 feet below the land surface of the well, or about 0.5 foot below the average water level in the well. The water level in this well has shown a seasonal fluctuation during 1952, averaging 2 feet lower than fluctuations for 1950-51. The lowering of the water table at this well illustrates the effectiveness of the drainage.

The "400-foot" artesian aquifer at Cambridge is the most heavily pumped aquifer in the Cambridge area. Water-level records are maintained on five wells to this aquifer (Dor-Bd 2, Dor-Ce 22, Dor-Dd 6, Dor-Ed 1, and Tal-Ed 6). Well Dor-Bd 2 showed a rise of 11 feet in water level from January 1 to May 6 during a period when pumpage from the Cambridge well field averaged 2 million gallons a day. From May 6 to September 20, the water level was lowered 20 feet, apparently in response to an increase in pumpage to an average of 3.2 million gallons a day. From September 20 to December 31, the water level rose 13 feet in evidence of continued recharge during a period of a lower average pumping rate of 2.7 million gallons a day. Well Dor-Bd 2 also shows a water-level fluctuation in response to the loading and unloading on the aquifer of the ocean tides. Well Dor-Dd 6, about 7 miles southwest of the center of pumping of the well field at Cambridge, showed a rise in water level of 0.65 foot from the time of the first measurement on April 17 to June 2. From June 2 to December 1, the water level dropped 5.10 feet. The drop in water level is attributed to pumping of this aquifer at Cambridge. The water level recovered 0.89 foot by December 31. Well Dor-Ed 1, about 15 miles south of the Cambridge central cone of depression has shown a drawdown trend in water level over the 2-year period of record, possibly as a combined result of the distant pumping at Cambridge and local pumping of cannery well, Dor-Ed 2, about 1.5 miles southeast. Well Tal-Ed 6, about 6 miles north of the center of pumping at Cambridge, showed a rising water level during April, when measurements were started. From April 29 to December 1, the water level in this well declined 7.5 feet. This decline in water level is attributed mainly to the pumping at Cambridge, but may have been caused in part by pumping at Trappe, 3.4 miles east of the observation well.

The following table is a comparison of water levels in approximate depth below mean sea level for the well near Church Creek, 7 miles southwest of the center of pumping at Cambridge, with water levels in another well, 6 miles north-northwest of the center:

Approximate Water Levels
(feet below msl)

Date in 1952	Dor-Dd 6	Tal-Ed 6
Apr. 17	37	
23		26
29	36	23
June 2	36	24
30	37	
July 1		25
Aug. 1	38	
4		26
Sept. 2	39	29
30		29
Oct. 1	40	
29		30
Nov. 7	41	
Dec. 1	41	31

The water level in well Tal-Ed 6, 1 mile nearer to the center of pumping, is actually between 10 and 12 feet higher than the water level at Church Creek. On a symmetrical cone of depression, the water levels should be lower at closer distances to the center of pumping. These water-level records accord with those reported by well drillers in numerous wells drilled to this aquifer during the last 2 years. The water levels give general definition to an asymmetrical cone of depression, with higher water levels northwesterly from Cambridge and lower water levels southerly from Cambridge, for equal radial distances from the center of pumping. Several interpretations are possible from these records. The most likely is that recharge is coming from the belt of outcrop of sediments of Eocene age in the vicinity of Annapolis, about 40 miles northwest of Cambridge. A second possibility is that there may be leakage through the overlying confining beds of Miocene age, which are chiefly diatomaceous silts. The aquifer rises to the northwest of Cambridge where there is a thinner blanket of confining materials. A third possibility is that an impermeable boundary exists to the southeast of Cambridge, or there is a general decrease in transmissibility and storage in that direction. Finally, but less likely, there may be subterranean discharge to the southeast.

Well Care-Dc 56, in the "90- to 140-foot" aquifer at West Denton, showed a rise of 7.8 feet in water level during January and February, probably due to a reduced rate of pumping at the chicken-processing plant, chief user of water from this aquifer. From March, when a new well at the plant began pumping, until September 23, the water level showed a decline of 22 feet. From September 23 to December 31, the water level recovered 5.7 feet, but was still 8.5 feet below the measurement of December 29, 1951.

Well Wi-Ce 13, a water-table well in the city well field at Salisbury, showed a rise of 2.7 feet in water level from January 1 to April 30, probably due to recharge to the water table by precipitation and a lower average pumping rate of 1.94 million gallons a day from the well field. From May 1 to August 1, the water level in this well declined about 3.2 feet when pumpage from the well field averaged 3.37 million gallons a day and precipitation was 3.44 inches below normal. During August, the water level in well Wi-Ce 13 showed a gradual rise when recharge to the water table by precipitation 5.47 inches above normal more than compensated for pumpage averaging 3.52 million gallons a day. The water level continued to rise throughout September and October, when pumpage was reduced to an average of 2.38 million gallons a day. The water level remained static in the first half of November when pumping was at a minimum because of repair work, but declined gradually when pumping was resumed.

Well-Numbering System

The numbers assigned to the observation wells on the Eastern Shore indicate their approximate location. The wells are first grouped by counties and 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 below land-surface datum unless otherwise indicated, except Wi-Cf 3 and Wi-Ce 105, which are in feet above mean sea level. 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 of each table. Readings between minus signs are below the plane of reference, and those between plus signs are above the plane of reference.

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 1¼ inches, depth 21 feet. Land-surface datum is about 54 feet above msl. Highest water level 0.25 above lsd, Nov. 27, 1951; lowest 3.95 below lsd, Oct. 30, 1952. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	2.74	Apr. 29	2.36	Aug. 1	3.88	Oct. 30	3.95
Feb. 28	3.42	June 2	2.60	Sept. 2	3.07	Dec. 1	3.24
Mar. 31	3.25	July 1	3.77	Oct. 1	3.80	31	3.20

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	1.08	Apr. 29	0.74	Aug. 1	4.12	Oct. 30	4.66
Feb. 28	1.34	June 2	.85	Sept. 2	1.97	Dec. 1	2.82
Mar. 31	1.14	July 1	3.24	Oct. 1	3.93	31	1.86

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 34.48 below lsd, Sept. 23, 1952. Records available 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	16.98	Apr. 29	22.37	Aug. 1	32.43	Aug. 28	32.41
Feb. 28	12.41	June 2	20.22	15	31.79	Sept. 2	30.65
Mar. 31	13.14	July 1	30.70	21	32.26	5	32.57

Daily highest water level from recorder graph

Sept.	Water level	Oct.	Water level	Nov.	Water level	Dec.	Water level
6	29.85	1	29.57	2	26.34	1	27.02
7	28.07	2	29.67	3	25.85	2	29.18
8	27.80	3	28.87	4	28.06	3	30.76
9	29.86	4	28.74	5	29.55	4	31.00
10	31.17	5	27.20	6	29.79	5	31.13
11	31.47	6	26.85	7	30.68	6	29.63
12	32.03	11	26.98	8	29.12	7	27.65
13	28.47	12	25.85	9	27.25	8	27.55
14	28.67	13	25.52	10	27.09	9	29.30
15	30.30	18	29.28	11	28.65	10	28.75
16	31.13	19	29.60	12	30.29	11	27.30
17	31.65	20	28.77	13	31.85	12	27.18
18	31.99	21	29.48	14	31.67	20	33.39
19	32.53	22	28.24	16	28.96	21	31.75
20	33.27	23	27.65	17	28.22	22	30.68
21	33.40	24	29.39	18	30.25	23	30.94
22	33.51	25	30.32	19	31.77	24	29.59
23	32.80	26	30.36	20	32.15	25	27.88
24	31.52	27	30.27	21	32.55	26	27.62
25	30.00	28	29.97	22	30.00	27	28.37
26	29.57	29	28.52	23	28.23	28	26.95
27	28.62	30	28.00	24	28.17	29	26.50
28	27.22	31	29.10	29	28.93	30	28.76
29	27.05	Nov. 1	27.96	30	27.38	31	26.73
30	28.00						

Daily lowest water level from recorder graph

Sept.	Water level	Sept.	Water level	Oct.	Water level	Oct.	Water level
6	32.90	20	33.81	4	31.30	28	30.97
7	29.85	21	33.81	5	28.74	29	30.88
8	29.86	22	34.03	11	28.87	30	29.74
9	31.42	23	34.48	12	26.98	31	30.14
10	32.20	24	32.80	18	31.12	Nov. 1	30.14
11	32.45	25	31.55	19	30.73	2	27.96
12	32.65	26	30.62	20	30.88	3	28.06
13	32.23	27	30.45	21	30.98	4	29.72
14	30.46	28	28.62	22	30.93	5	30.26
15	31.19	29	29.02	23	29.72	6	30.73
16	31.88	30	29.78	24	30.35	7	31.43
17	32.47	Oct. 1	30.20	25	31.10	8	31.25
18	32.82	2	30.40	26	30.94	9	29.12
19	33.27	3	31.20	27	30.58	10	28.65

Care-Dc 56--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 11	30.50	Nov. 22	32.47	Dec. 6	31.73	Dec. 23	31.60
12	31.87	23	30.00	7	29.63	24	31.48
13	32.42	24	29.90	8	29.30	25	29.59
14	32.54	29	30.66	9	30.58	26	29.39
16	31.40	30	28.93	10	30.80	27	29.91
17	30.70	Dec. 1	29.18	11	28.75	28	28.37
18	31.77	2	30.76	12	28.77	29	28.81
19	32.74	3	31.32	20	33.02	30	29.61
20	32.93	4	31.75	21	33.67	31	28.76
21	32.65	5	31.52	22	31.75		

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: 1949-52.

Jan. 31	0.57	Apr. 29	0.43	Aug. 1	4.01	Oct. 30	4.08
Feb. 28	.85	June 2	.60	Sept. 2	1.75	Dec. 1	1.36
Mar. 31	.93	July 1	2.58	Oct. 1	3.19	31	.72

Cecil County

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 5.10 below lsd, May 1, 1952; lowest 9.48 below lsd, Aug. 28, 1950. Records available: 1949-52.

Jan. 28	5.15	May 1	5.10	July 28	8.71	Oct. 30	8.54
Feb. 28	6.63	30	6.02	Sept. 3	7.70	Nov. 26	6.90
Mar. 31	5.95	June 30	7.70	Oct. 1	8.12	Dec. 29	6.10

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: 1949-52.

Jan. 28	1.42	May 1	1.70	July 29	3.29	Oct. 30	4.64
Feb. 28	2.29	30	2.33	Sept. 3	2.99	Nov. 26	3.19
Mar. 31	2.04	June 30	3.09	Oct. 1	4.57	Dec. 29	3.15

Ce-Ee 1. State Roads Commission. Near Cecilton. Lat. 39°23'40", long. 75°52'16". Driven observation water-table well in sand of Pleistocene age, diameter 1½ inches, depth 20 feet. Land-surface datum is about 67 feet above msl. Highest water level 0.98 below lsd, May 1, 1952; lowest 10.32 below lsd, Oct. 26, 1950. Records available: 1949-52. Jan. 31, 2.84; Feb. 28, 2.62; Mar. 31, 2.00; May 1, 0.98; May 30, 2.42. Measurement discontinued. (Replaced by well Ce-Ee 2.)

Ce-Ee 2. Dr. Gilfillian. 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: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 21, 1951	10.22	Jan. 31, 1952	4.31	May 30, 1952	3.19	Oct. 1, 1952	7.02
Nov. 16	9.62	Feb. 28	3.65	June 30	4.46	30	7.94
27	9.87	Mar. 31	2.78	July 29	4.81	Nov. 26	7.89
Dec. 29	7.01	May 1	1.13	Sept. 3	5.98	Dec. 29	7.54

Dorchester County

Dor-Bd 2. Carleton Slagle. Near Cambridge. Lat. 38°35'30", long. 76°05'27". Ham-brook 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 78.15 below lsd, Sept. 20, 1952. Records available: 1951-52.

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Dor-Bd 2--Continued.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	65.85	62.34	.....	58.13	57.69	59.27	68.43	70.07	71.34	74.08	74.66	68.67
2	65.69	62.34	.....	58.35	57.45	59.59	.....	70.64	72.23	73.35	74.13	67.66
3	65.55	61.75	59.33	58.57	57.60	59.63	.....	70.59	72.08	74.05	73.30	67.83
4	65.60	60.86	59.34	58.55	57.54	59.57	68.53	70.37	72.39	73.79	73.60	67.35
5	64.94	.....	.....	57.90	57.28	.....	.....	70.05	72.70	73.79	73.03	67.25
6	64.85	.....	.....	58.07	56.86	.....	.....	70.25	73.10	73.45	72.90	67.92
7	64.78	.....	.....	58.32	57.00	60.70	.....	70.66	73.34	73.29	.....	68.14
8	63.72	61.70	.....	58.33	57.70	61.37	.....	.....	73.19	73.41	.....	67.85
9	63.35	61.25	.....	58.34	57.47	60.94	.....	.....	73.17	73.52	.....	67.65
10	.....	61.59	58.33	58.05	57.61	61.25	.....	.....	73.32	73.64	.....	67.10
11	64.96	60.57	.....	57.93	57.46	61.34	.....	.....	73.63	73.95	.....	66.64
12	64.05	61.35	.....	58.42	56.80	61.82	.....	.....	74.31	73.78	.....	67.76
13	.....	61.37	.....	57.83	57.83	61.87	.....	.....	74.90	73.73	.....	67.44
14	63.40	61.34	.....	57.04	57.81	62.22	.....	.....	75.58	73.67	71.95	67.57
15	63.30	61.23	.....	57.48	57.55	62.40	67.57	.....	75.04	73.55	71.91	67.10
16	.....	60.78	.....	57.74	58.05	62.90	67.38	71.11	75.18	73.43	71.63	66.85
17	.....	59.80	.....	57.80	58.15	63.09	67.75	71.10	75.55	73.78	71.03	66.95
18	.....	.....	59.27	58.08	58.15	63.37	67.90	71.38	76.33	73.77	70.52	66.80
19	.....	.....	58.60	58.29	57.89	64.44	67.88	70.93	76.50	73.86	70.14	66.89
20	62.82	59.87	.....	58.07	57.88	65.37	68.12	70.81	77.09	74.36	69.57	66.59
21	63.35	60.02	59.15	57.99	57.79	e66.22	67.90	70.68	.....	73.98	68.90	66.55
22	62.20	60.15	59.06	57.96	57.77	66.71	67.70	70.25	.....	74.17	69.05	65.90
23	62.20	60.00	58.58	57.95	58.13	e66.20	67.93	71.53	.....	74.37	69.39	65.21
24	63.01	.....	.....	58.60	57.98	e66.25	68.13	71.66	.....	74.75	69.57	65.21
25	.....	.....	.....	58.19	57.75	.....	68.55	71.83	.....	75.17	69.56	65.69
26	62.49	.....	.....	58.34	58.03	.....	68.54	e71.49	.....	74.18	69.00	65.67
27	62.54	.....	.....	58.31	58.38	.....	68.83	71.35	75.28	73.50	68.89	65.12
28	62.12	.....	58.88	57.84	58.56	.....	69.10	71.25	75.40	73.20	69.30	65.60
29	62.20	.....	58.78	57.59	58.66	.....	69.07	71.25	75.00	74.04	69.12	64.46
30	62.41	.....	58.86	57.40	59.40	.....	69.32	72.06	74.49	74.22	68.95	64.42
31	62.26	.....	58.18	.....	59.19	.....	69.60	72.47	.....	74.45	.....	63.90

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e66.90	e63.35	.....	e58.99	58.39	60.25	69.18	71.58	72.65	75.11	75.59	69.84
2	e66.65	e63.42	.....	e59.12	58.18	60.37	.....	71.53	73.08	74.56	75.32	69.12
3	e66.69	.....	e60.30	59.13	58.36	60.41	.....	71.70	73.40	75.10	74.78	68.77
4	e66.57	61.88	.....	59.30	58.12	60.80	69.65	71.36	73.55	75.10	74.62	68.69
5	65.93	.....	.....	58.99	58.03	.....	.....	71.10	73.85	74.73	74.12	68.21
6	.....	.....	.....	58.92	57.75	.....	.....	71.40	74.08	74.60	73.69	68.75
7	65.92	.....	.....	59.07	58.65	62.47	.....	71.90	74.47	74.31	.....	69.08
8	64.90	.....	.....	59.33	e58.56	62.24	.....	.....	74.42	74.38	.....	68.75
9	64.12	e62.60	.....	59.18	58.82	62.23	.....	.....	74.00	74.21	.....	68.32
10	65.35	e62.40	.....	58.96	58.82	62.38	.....	.....	74.35	74.50	.....	68.08
11	65.85	e62.05	.....	59.51	e58.50	62.83	.....	.....	74.90	74.75	.....	67.95
12	65.15	62.14	.....	59.46	58.65	62.92	.....	.....	75.45	74.55	.....	68.50
13	.....	e62.20	.....	59.11	58.73	62.88	.....	.....	76.29	74.34	.....	68.36
14	e64.22	e62.20	.....	58.20	58.85	63.20	.....	.....	76.33	74.56	.....	68.45
15	.....	e62.22	.....	58.70	58.71	63.65	68.28	.....	75.88	74.22	72.77	68.24
16	.....	e61.90	.....	58.80	58.89	64.00	68.62	71.87	76.40	74.44	72.68	67.86
17	.....	e61.10	.....	58.62	59.11	64.16	68.87	72.48	76.90	74.59	72.23	67.98
18	.....	.....	.....	58.89	59.19	65.23	68.83	72.21	77.18	74.65	71.80	67.75
19	.....	60.84	e59.77	59.06	58.83	65.98	68.90	71.77	77.43	74.63	71.30	67.92
20	63.95	e60.80	.....	59.00	58.93	67.19	69.03	71.73	78.15	75.40	70.84	67.63
21	63.90	e60.75	e60.09	58.97	58.83	67.66	68.98	71.55	.....	75.54	70.27	67.41
22	e63.75	.....	.....	58.89	59.22	67.66	68.76	72.25	.....	75.02	69.82	67.53
23	63.48	.....	e60.03	59.60	59.21	67.50	68.79	72.36	.....	75.22	70.18	66.27
24	e64.01	e60.60	.....	59.59	59.19	67.17	69.35	72.47	.....	75.67	70.35	66.20
25	.....	.....	.....	59.23	58.94	.....	69.55	72.68	.....	76.04	70.23	e66.65
26	.....	.....	.....	59.23	59.13	.....	69.42	72.48	.....	75.61	69.95	e66.45
27	.....	.....	.....	59.17	59.19	.....	69.62	72.13	76.57	74.51	69.94	66.29
28	e63.27	.....	e59.67	58.91	59.44	.....	70.11	71.98	76.23	74.43	70.02	66.43
29	63.00	.....	e59.77	58.54	59.41	.....	70.00	72.83	75.83	75.07	70.13	65.86
30	63.22	.....	e59.85	58.28	60.15	.....	70.41	73.30	75.30	75.10	69.80	65.23
31	e63.10	.....	59.17	.....	59.98	.....	70.84	73.20	.....	75.43	.....	65.27

e Estimated.

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, Oct. 30, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.11	Apr. 29	5.79	Aug. 1	8.01	Oct. 31	8.65
Feb. 28	6.58	June 2	6.52	29	7.51	Dec. 1	7.75
Mar. 31	5.87	30	7.26	Oct. 1	8.12	31	7.39

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 5.69 below lsd, Feb. 6, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	1.58	Apr. 29	1.23	Aug. 1	5.00	Oct. 30	5.48
Feb. 26	2.29	June 2	1.97	Sept. 2	3.93	Dec. 1	3.34
Mar. 31	1.93	July 1	4.04	Oct. 1	4.94	30	2.55

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 4.08 below lsd, Oct. 31, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	0.92	Apr. 29	1.28	Aug. 1	3.94	Oct. 31	4.08
Feb. 28	1.20	June 2	1.95	29	2.81	Dec. 1	2.62
Mar. 31	1.02	30	3.98	Oct. 1	3.54	31	1.54

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. 26, 1952; lowest 100.42 below lsd, Sept. 20, 1952. Records available: 1952.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70.84	72.88	72.70	87.15	91.44	87.60	94.18	97.07	86.19
2	71.13	73.02	72.50	89.30	88.60	88.59	94.11	94.91	86.38
3	71.38	72.87	74.45	91.02	85.77	87.84	95.49	93.47	86.35
4	71.33	71.32	76.27	87.10	84.70	92.07	93.92	94.91	85.98
5	70.72	.....	77.55	84.45	86.55	95.08	91.42	96.07	.....
6	70.91	.....	79.20	82.87	90.20	96.55	90.11	96.27	85.39
7	70.85	.....	79.82	83.08	91.05	92.02	92.64	96.80	83.42
8	71.04	.....	78.55	83.51	92.93	90.25	94.43	95.78	82.88
9	70.80	.....	77.21	83.86	90.19	91.84	95.50	90.66	83.80
10	70.77	.....	78.70	84.67	87.02	94.40	96.54	89.61	84.54
11	70.59	.....	81.14	84.95	86.00	96.22	96.00	89.61	85.00
12	71.65	70.92	83.39	84.77	85.98	97.63	91.50	89.35	85.99
13	72.84	70.44	85.35	81.89	89.27	99.12	90.91	91.11	84.30
14	72.71	69.82	85.68	81.34	92.03	94.20	95.00	91.53	83.10
15	72.19	70.16	85.28	.....	93.41	92.82	97.30	89.75	82.60
16	71.84	.....	84.42	82.68	89.27	95.47	98.58	87.41	83.67
17	71.94	70.34	84.85	83.72	86.40	97.48	99.40	86.73	83.83
18	72.67	70.55	86.69	85.55	85.48	98.52	99.65	89.18	84.96
19	72.25	.....	88.53	84.16	85.43	.....	95.00	89.81	85.71
20	71.75	.....	89.63	82.30	87.72	.....	93.45	.....	83.87
21	71.52	.....	90.64	81.40	89.62	94.68	96.20	.....	81.78
22	71.26	.....	88.00	83.06	91.52	92.80	97.54	87.05	80.25
23	70.75	72.84	85.83	83.96	92.11	93.75	98.08	85.35	79.60
24	70.47	72.59	88.15	86.19	87.78	93.41	98.80	84.95	79.38
25	70.75	71.79	88.84	87.39	86.48	93.66	97.25	86.70	79.00
26	71.00	71.16	89.72	85.63	85.71	95.60	94.36	88.15	78.60
27	71.35	69.86	91.76	83.32	88.82	95.72	93.39	86.40	78.10
28	71.51	69.64	92.58	82.65	91.80	91.77	94.41	85.78	78.25
29	71.39	71.39	73.85	88.71	87.16	93.46	90.80	96.67	77.42
30	71.13	.....	74.65	86.93	90.09	94.75	92.96	97.77	78.70
31	70.56	.....	73.77	.....	91.14	89.60	98.09	.....	79.80

Dor-Ce 22--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.36	73.88	73.85	89.30	93.10	90.51	85.91	98.90	87.82
2	71.59	74.12	74.45	91.33	92.53	90.15	85.91	97.07	87.97
3	71.76	74.20	76.49	91.78	88.60	92.07	87.10	94.91	87.97
4	71.80	73.07	77.85	91.35	88.21	95.20	87.10	96.40	87.96
5	71.80	72.94	79.57	87.10	90.29	86.85	83.92	96.49	.....
6	71.40	.....	80.28	84.45	92.71	97.43	93.00	97.02	.....
7	71.38	.....	81.03	85.14	92.73	97.49	95.35	98.15	85.46
8	71.49	.....	80.97	85.43	94.38	93.38	96.03	98.46	85.37
9	71.40	.....	78.78	86.01	94.62	94.40	97.05	95.78	85.68
10	71.33	.....	81.14	86.64	90.19	96.22	97.33	92.62	86.10
11	71.56	.....	84.43	86.89	87.50	97.63	97.90	93.13	87.12
12	73.60	71.56	.....	85.35	86.94	89.88	99.30	97.00	92.09	87.13
13	73.54	71.43	.....	86.20	84.77	92.03	100.11	95.00	92.98	86.71
14	73.36	70.60	.....	86.61	83.68	93.80	99.72	97.30	93.18	84.30
15	73.17	70.66	.....	86.14	83.23	94.29	95.47	97.58	93.18	84.12
16	72.47	.....	.....	85.33	83.77	93.41	97.53	97.53	89.75	84.83
17	72.67	70.84	.....	86.80	86.46	89.27	99.53	93.89	89.98	85.08
18	73.54	72.08	.....	88.79	87.62	86.95	99.53	109.32	91.27	86.14
19	73.58	72.44	.....	89.90	87.40	89.46	.....	99.65	91.37	86.81
20	72.66	.....	.....	91.01	84.16	91.08	100.42	95.20	.....	86.70
21	72.15	.....	.....	91.74	83.52	92.30	100.34	97.54	.....	83.90
22	72.04	73.62	74.73	91.70	84.55	94.10	95.09	98.20	91.15	81.95
23	71.60	74.46	75.24	88.25	87.04	94.35	95.38	98.80	87.13	80.59
24	71.27	74.37	.....	89.10	88.48	92.11	95.28	99.28	88.20	80.00
25	71.51	72.73	.....	90.46	89.04	87.78	96.00	99.17	89.83	79.93
26	71.83	72.36	.....	91.75	89.04	89.55	97.35	97.41	90.32	79.25
27	72.10	71.16	.....	93.18	85.63	91.80	98.05	94.69	89.63	78.95
28	72.05	72.26	.....	93.44	87.16	93.50	95.72	96.71	88.05	78.79
29	72.04	.....	75.34	92.89	90.20	94.75	93.91	98.02	87.70	79.06
30	71.81	73.62	75.74	88.71	91.82	96.10	95.22	98.45	85.52	80.38
31	71.94	.....	76.02	.....	92.64	95.79	.....	98.67	.....	80.57

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	0.16	Apr. 29	0.19	Aug. 1	3.76	Oct. 31	4.64
Feb. 29	.65	June 2	1.03	29	3.83	Dec. 1	3.33
Mar. 31	.50	30	2.76	Oct. 1	4.30	31	1.95

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 45.32 below lsd, Dec. 1, 1952. Records available: 1952.

Apr. 17	40.87	June 30	40.86	Oct. 1	44.23	Dec. 1	45.32
29	40.40	Aug. 1	42.27	Nov. 7	45.25	31	44.43
June 2	40.22	Sept. 2	42.98				

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 22.40 below lsd, Dec. 31, 1952. Records available: 1949, 1951-52.

Jan. 30	20.93	Apr. 29	20.56	Aug. 1	21.89	Oct. 31	21.48
Feb. 28	20.74	June 2	20.96	29	22.01	Dec. 1	21.58
Mar. 31	20.80	30	20.72	Oct. 1	21.27	31	22.40

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 0.22 below lsd, Jan. 30, 1952; lowest 5.97 below lsd, Aug. 1, 1952. Records available: 1951-52.

Jan. 30	0.22	Apr. 29	0.25	Aug. 1	5.97	Oct. 31	3.72
Feb. 28	.41	June 2	1.26	29	2.52	Dec. 1	.98
Mar. 31	.51	30	4.01	Oct. 1	3.49	31	.44

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. 2f, 1952; lowest 10.54 below lsd, Nov. 27, 1951. Records available: 1947-48, 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	8.45	Apr. 29	7.23	Aug. 1	9.72	Oct. 29	10.34
Feb. 28	8.68	May 30	8.28	Sept. 2	9.14	Dec. 1	10.19
Mar. 31	7.92	July 1	8.52	30	9.60	29	9.67

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 1.02 above lsd, May 30, 1952; lowest 3.19 below lsd, Oct. 26, 1950. Records available: 1949-50, 1952.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	e+1.01	Apr. 29	e+1.01	Aug. 1	e+0.35	Oct. 29	e+0.05
Feb. 28	+ .92	May 30	+1.02	Sept. 2	+ .87	Dec. 1	+ .35
Mar. 31	e+1.01	July 1	+ .89	30	+ .42	29	e+ .83

e Estimated.

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	0.70	Apr. 29	0.12	Aug. 4	5.64	Oct. 29	6.35
Feb. 28	1.23	June 2	.79	Sept. 2	5.21	Dec. 1	5.78
Mar. 31	.77	July 1	4.02	30	5.83	29	3.69

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	+0.37	Apr. 28	+0.34	July 31	-4.07	Oct. 30	-4.52
Feb. 29	+ .16	June 2	-1.07	Aug. 29	-3.74	Dec. 1	-2.96
Mar. 31	-.05	July 1	-3.21	Sept. 29	-4.35	30	-1.36

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 6.29 below lsd, Dec. 30, 1952; lowest 6.95 below lsd, Aug. 5, 1952. Records available: 1952. Aug. 5, 6.95; Sept. 29, 6.69; Oct. 30, 6.75; Dec. 1, 6.46; Dec. 30, 6.29.

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 1¼ 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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	0.62	Apr. 28	0.56	July 30	5.41	Oct. 30	5.97
Feb. 29	.60	June 2	.74	Aug. 29	5.12	Dec. 1	3.65
Mar. 31	.88	July 1	4.16	Sept. 29	5.82	30	1.60

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 1¼ 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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	10.30	Apr. 29	9.01	Aug. 4	12.79	Oct. 29	12.80
Feb. 28	10.60	May 30	10.67	Sept. 2	12.01	Dec. 1	12.83
Mar. 31	10.01	July 1	11.95	30	12.58	29	11.63

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	0.52	Apr. 29	0.13	Aug. 4	7.66	Oct. 29	5.45
Feb. 28	.95	May 30	2.41	Sept. 2	2.20	Dec. 1	3.48
Mar. 31	.71	July 1	4.11	30	4.51	29	1.81

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 40.68 below lsd, Dec. 1, 1952. Records available: 1952.

Apr. 23	35.90	July 1	34.71	Sept. 30	38.80	Dec. 1	40.68
29	33.22	Aug. 4	36.31	Oct. 29	39.88	29	39.76
June 2	33.57	Sept. 2	38.65				

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: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 1, 1950	4.52	Sept. 29, 1950	6.44	Apr. 27, 1951	4.98	Dec. 7, 1951	5.02
9	4.65	Oct. 6	6.40	May 4	5.02	14	5.10
17	4.29	13	6.40	11	5.17	21	4.36
24	3.88	20	6.52	18	5.28	28	4.19
31	4.15	27	6.47	25	5.12	Jan. 4, 1952	4.44
Apr. 7	4.50	Nov. 3	6.48	June 1	5.26	11	3.99
14	4.87	10	6.45	8	5.20	18	4.15
21	4.86	17	6.44	15	4.69	25	4.10
28	4.79	24	6.45	22	5.04	Feb. 1	3.84
May 5	4.89	Dec. 1	6.04	29	5.16	8	4.56
12	4.79	8	5.90	July 6	5.53	15	4.28
19	4.36	15	5.67	13	5.70	22	4.16
26	4.41	22	5.67	20	5.83	29	4.18
June 2	4.61	29	5.70	27	6.95	Mar. 7	3.94
9	4.84	Jan. 5, 1951	5.70	Aug. 3	6.96	14	3.89
16	5.11	12	5.51	10	5.89	21	4.13
23	5.39	19	5.40	17	6.02	Apr. 11	4.33
30	5.60	26	5.37	24	6.07	18	4.37
July 7	5.69	Feb. 2	5.39	31	6.08	25	4.42
14	5.80	9	5.21	Sept. 7	6.21	May 2	3.94
21	5.73	16	5.11	14	6.34	9	4.47
28	5.87	23	4.57	21	6.08	16	4.65
Aug. 4	5.96	Mar. 2	4.77	28	6.23	June 2	4.23
11	6.09	9	4.83	Oct. 5	6.31	July 1	5.37
18	6.22	16	4.84	12	6.08	Aug. 1	5.85
25	6.35	23	4.20	19	6.11	29	4.99
Sept. 1	6.48	30	4.57	Nov. 2	5.98	Oct. 1	5.73
8	6.52	Apr. 6	4.60	9	5.08	31	5.95
15	6.48	13	4.79	23	5.11	Dec. 1	4.68
22	6.35	20	4.90	30	4.93	31	4.44

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: 1947-52.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.46	3.85	2.88	3.14	2.92	2.97	3.57	4.31	4.68	3.69	3.32	3.37
2	3.71	4.32	2.80	3.13	3.00	2.97	3.59	....	4.25	....	3.28	3.59
3	3.61	4.17	2.78	3.21	2.98	3.03	3.92	....	4.57	....	3.25	3.67
4	3.52	3.60	2.70	3.22	3.01	3.08	3.80	....	4.29	3.78	3.26	3.58
5	3.37	3.49	2.87	3.04	3.02	3.29	3.69	4.73	4.08	3.59	3.24	3.70

Wi-Ce 13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	3.48	3.63	2.99	3.18	3.08	....	3.72	4.10	3.98	3.30	3.24	3.79
7	3.59	4.07	3.04	3.19	3.13	3.46	3.70	5.00	4.20	3.50	3.26	3.62
8	3.79	4.22	3.08	4.20	3.21	3.52	3.69	4.30	4.19	3.48	3.40	3.53
9	3.68	3.70	3.02	3.45	3.16	3.52	3.79	4.18	3.80	3.47	3.38	3.48
10	3.50	3.67	3.11	3.31	3.29	3.96	3.90	3.98	3.78	3.62	3.38	3.46
11	3.36	3.41	2.82	3.28	3.22	4.22	3.69	3.84	3.77	3.46	3.39	3.26
12	3.49	3.67	2.90	3.20	3.12	3.81	4.19	3.80	3.59	3.41	3.40	3.40
13	3.67	3.58	2.89	3.18	3.25	3.57	4.01	4.13	3.58	3.41	3.40	3.37
14	3.38	3.60	2.97	3.23	3.29	3.55	4.04	3.99	3.89	3.52	3.25	3.41
15	3.30	3.56	2.95	3.26	3.30	3.70	3.93	4.40	3.82	3.56	3.20	3.39
16	3.57	3.48	2.94	3.20	3.30	3.72	4.25	4.15	4.18	3.63	3.19	3.53
17	3.80	3.24	2.94	3.19	3.21	3.69	4.37	3.90	3.98	3.58	3.25	3.84
18	4.00	3.23	3.17	3.21	3.27	3.86	4.21	3.82	3.81	3.60	3.28	3.57
19	4.32	3.51	3.13	3.20	3.24	3.85	3.92	3.90	3.86	3.59	3.28	3.49
20	4.49	3.41	3.09	3.19	3.18	4.63	4.06	4.06	4.02	3.55	3.39	3.42
21	4.01	3.40	3.16	3.26	3.25	4.00	4.13	4.20	3.96	3.44	3.04	3.36
22	3.73	3.20	3.19	3.30	3.22	3.63	4.27	3.99	3.83	3.39	2.90	3.40
23	3.52	3.24	3.12	3.27	3.30	3.55	4.25	4.13	3.68	3.36	3.00	3.34
24	3.42	3.41	2.81	3.28	3.29	3.52	4.71	4.01	3.60	....	3.10	3.33
25	3.45	3.32	2.69	3.17	3.20	3.91	4.50	4.18	3.61	3.32	3.23	3.25
26	3.38	3.17	2.95	3.01	3.18	4.02	4.89	4.25	....	3.32	3.42	3.29
27	3.30	3.12	2.92	2.76	3.30	4.00	4.63	4.24	3.65	3.27	3.32	3.30
28	3.19	3.05	2.91	2.75	3.29	3.88	4.30	4.42	3.60	3.26	3.80	3.26
29	3.17	....	2.96	2.77	3.27	3.75	5.08	4.09	3.69	3.32	3.28	3.22
30	3.41	....	2.97	2.83	3.25	3.66	4.79	4.15	3.78	3.32	3.26	3.26
31	3.53	....	3.04	....	3.01	....	4.87	4.57	....	3.30	....	3.59

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.70	5.33	4.50	4.31	4.02	3.22	4.54	5.53	6.09	5.71	3.37	4.97
2	5.00	5.27	4.08	4.45	3.17	3.91	5.10	....	5.63	5.74	3.32	5.13
3	5.01	4.37	4.19	4.49	3.98	3.79	5.11	....	5.71	....	3.33	5.12
4	5.50	4.88	4.18	4.51	3.22	4.47	5.12	....	5.86	5.67	3.31	5.13
5	5.00	4.49	4.20	4.18	4.07	4.09	4.60	5.90	5.91	4.55	3.29	5.21
6	5.12	5.22	4.22	4.49	4.04	....	5.05	5.32	5.81	4.60	3.28	5.27
7	5.21	5.30	4.13	5.04	4.10	4.66	4.97	5.92	4.59	3.60	3.50	4.46
8	5.28	5.65	4.38	5.16	4.14	4.45	4.98	5.68	5.69	4.23	3.45	4.90
9	4.82	5.30	4.47	4.51	4.18	5.11	4.89	5.79	4.55	3.82	3.45	5.12
10	4.17	5.02	4.10	4.12	4.27	4.52	4.94	5.50	5.63	5.08	3.49	5.07
11	5.23	5.11	4.01	4.08	4.02	5.02	4.96	5.41	4.67	3.68	3.49	4.94
12	5.20	5.05	3.90	4.10	4.17	4.90	5.21	5.81	3.77	4.41	3.49	4.56
13	4.95	5.22	4.01	4.18	3.96	3.91	5.20	5.70	5.63	4.79	3.49	5.08
14	3.80	5.12	3.30	4.00	4.03	4.93	4.91	5.94	4.98	4.37	3.40	4.92
15	5.22	5.02	3.84	4.04	3.61	4.93	4.99	6.05	5.27	5.16	3.33	4.87
16	5.14	4.75	3.96	3.90	4.04	4.77	5.31	5.54	5.75	5.10	3.30	5.30
17	5.50	4.72	4.12	4.16	3.38	5.17	5.29	5.63	5.81	5.25	3.39	5.30
18	5.58	4.85	4.56	3.56	4.17	4.73	5.32	5.53	5.11	5.25	3.34	4.85
19	5.86	5.15	4.16	3.96	3.99	5.29	5.16	5.57	5.07	5.00	3.60	5.20
20	5.85	4.96	4.11	4.34	4.35	5.38	5.23	5.62	5.51	4.29	4.45	4.22
21	5.71	4.55	4.33	4.18	3.70	5.31	5.36	5.74	5.64	3.55	4.29	4.84
22	5.18	4.48	4.19	4.27	3.49	4.00	5.39	5.70	5.45	3.44	3.04	3.70
23	3.73	5.14	4.42	4.61	4.10	4.68	5.52	5.61	4.72	3.39	3.98	4.57
24	4.82	5.06	4.26	4.61	3.52	5.04	5.85	5.83	4.48	....	4.50	4.61
25	4.99	4.79	4.29	3.99	4.00	5.10	6.00	5.62	4.70	3.41	4.08	4.79
26	4.82	3.47	4.07	4.12	4.30	5.21	6.00	5.84	....	3.37	4.73	4.94
27	4.63	4.50	3.80	3.48	4.30	5.19	5.63	5.49	4.99	3.32	4.52	4.94
28	4.80	3.16	3.97	3.69	3.42	5.13	5.74	5.58	4.85	3.41	4.83	4.62
29	5.10	....	3.78	3.99	4.33	4.53	6.02	5.42	5.54	3.46	3.80	4.63
30	4.70	....	3.85	2.92	4.41	4.92	5.91	5.68	5.55	3.42	4.70	5.12
31	4.91	....	4.35	....	4.17	....	6.15	6.08	....	3.41	....	5.40

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: 1948-52.

Wi-Ce 72--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	22.06	Apr. 28	21.59	July 31	22.34	Oct. 30	22.41
Feb. 29	21.72	June 2	20.74	Aug. 29	22.08	Dec. 1	22.26
Mar. 31	21.53	July 1	21.93	Sept. 29	22.20	31	22.10

Wi-Ce 105. W. F. Messick. Salisbury. Lat. 38°22'30", long. 75°35'20". Driven unused water-table well in sand of Pleistocene age, diameter 1½ inches, depth 62 feet. Land-surface datum is 39.56 feet above msl. Highest water level 12.18 above msl, Apr. 20, 23, 1952; lowest 9.13 above msl, Nov. 30, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 30, 1951	9.13	Dec. 11, 1951	9.25	Dec. 19, 1951	9.29	Dec. 25, 1951	9.28
Dec. 3	11.29	12	9.28	20	9.28	26	9.30
4	9.21	14	9.27	21	9.29	27	9.30
5	9.23	16	9.32	22	9.27	29	9.32
6	9.23	17	9.27	23	9.28	30	9.32
7	9.24	18	9.28	24	9.27	31	9.35
10	9.23						

Tape Measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.35	9.94	11.08	11.72	12.07	11.74	.....	11.09	11.31	10.91	10.39	10.02
2	9.30	9.97	11.02	11.76	12.09	11.69	11.44	11.06	11.31	10.90	10.39	10.03
3	9.49	10.00	11.07	11.78	12.05	11.69	11.44	11.05	11.30	10.87	10.38	10.04
4	9.44	10.05	11.11	11.82	12.05	11.68	11.44	11.07	11.27	10.83	10.35	10.02
5	9.47	10.08	11.10	11.91	12.05	11.68	11.43	11.08	11.24	10.81	10.33	10.06
6	.....	10.10	11.13	11.91	12.04	11.67	11.41	11.07	11.25	10.82	10.34	10.04
7	9.54	10.16	11.15	11.94	12.02	11.67	11.40	11.05	11.36	10.81	10.31	10.01
8	9.53	10.19	11.16	11.96	12.00	11.65	11.40	11.05	11.22	10.55	10.27	10.02
9	9.54	.....	11.17	11.98	12.01	11.68	11.40	11.06	11.20	10.78	10.27	10.01
10	9.57	10.30	11.20	12.03	12.01	11.66	11.39	11.09	11.21	10.76	10.26	10.03
11	9.57	10.37	11.26	12.07	12.00	11.65	11.35	11.09	11.19	10.68	10.24	10.06
12	9.59	10.40	11.20	.....	11.99	11.63	11.33	11.08	11.42	10.72	10.22	10.03
13	9.53	10.45	11.26	.....	11.95	11.61	11.32	11.09	11.16	10.45	10.20	10.02
14	9.64	10.51	11.33	12.16	11.92	.....	11.31	11.09	11.16	10.42	10.19	10.01
15	9.66	10.55	11.30	12.16	11.94	11.61	11.30	11.11	11.16	10.69	10.17	10.03
16	9.67	10.59	11.26	12.15	11.90	11.61	11.28	11.14	11.15	.....	10.17	10.02
17	9.70	10.66	11.36	12.15	.....	11.61	11.26	11.17	11.05	10.65	10.05	10.02
18	9.72	10.69	11.35	12.16	11.88	11.60	11.25	11.17	11.09	10.62	10.12	10.02
19	.....	10.71	11.42	12.17	11.85	11.59	11.24	11.18	11.09	10.62	10.11	10.02
20	9.78	10.76	11.41	12.18	11.87	11.56	11.23	11.20	10.81	10.61	10.12	10.02
21	9.76	10.81	11.44	12.17	11.87	11.56	11.22	11.21	11.02	10.57	10.11	10.07
22	9.79	.....	11.46	12.16	11.82	11.56	11.20	11.24	11.03	10.56	10.08	10.22
23	9.82	10.86	11.50	12.18	11.80	11.56	11.18	11.22	11.00	10.55	10.07	10.05
24	9.80	10.89	11.51	12.15	.....	11.55	11.16	11.24	10.99	10.54	10.06	10.06
25	9.81	10.93	11.50	12.16	11.82	11.56	11.13	11.26	10.98	10.51	10.04	10.06
26	.....	10.95	11.53	12.15	11.83	11.54	.....	11.26	10.98	10.50	10.05	10.07
27	9.87	11.00	11.57	.....	11.76	11.53	11.11	11.28	10.71	10.49	10.04	10.11
28	9.90	11.01	11.57	12.17	11.74	11.51	11.10	11.29	.....	10.50	10.04	10.08
29	9.90	11.03	11.59	12.13	11.75	11.50	11.09	11.28	10.93	10.46	10.02	10.09
30	9.89	.....	11.61	.....	11.72	11.51	11.06	11.29	10.57	10.42	10.05	10.12
31	9.91	.....	11.66	.....	11.71	.....	11.04	11.29	.....	10.41	.....	10.13

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: 1947-52.

Daily noon water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	40.81	40.87	40.15	.....	40.84	37.43	37.58	38.57	37.07	36.41	38.43
2	.....	40.64	41.04	39.96	39.87	.....	37.42	.....	38.45	37.05	36.40	38.46
3	.....	40.43	41.20	39.73	39.55	.....	37.40	.....	38.29	37.01	36.40	38.38
4	39.15	41.61	41.62	39.62	39.44	.....	37.33	.....	38.20	36.97	36.38	38.31
5	39.93	41.52	.....	39.76	39.26	.....	37.29	37.88	38.14	36.95	36.38	38.60

Wi-Cf 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	40.13	41.03	40.85	39.48	39.22	.....	37.34	38.94	38.11	36.92	36.36	39.22
7	39.89	40.81	40.58	39.36	39.02	39.17	37.28	40.14	38.00	36.88	36.32	39.16
8	39.74	40.53	40.37	39.24	38.94	38.91	37.30	40.50	37.92	36.86	36.28	39.04
9	39.59	40.30	40.18	39.14	38.84	38.82	37.33	40.80	37.90	36.86	36.29	38.94
10	39.73	40.12	40.02	39.16	38.79	38.74	38.27	41.25	37.88	36.87	36.26	38.92
11	39.94	e40.16	40.67	39.06	38.70	38.61	37.19	40.83	37.82	36.86	36.26	39.85
12	40.00	e39.82	40.60	38.99	38.60	38.50	37.15	40.32	37.80	36.83	36.22	40.08
13	39.86	e39.68	40.67	39.00	38.56	38.39	37.12	41.61	37.76	36.80	36.20	39.82
14	39.75	e39.62	40.38	39.06	38.46	38.31	37.09	41.39	37.72	36.78	36.18	39.56
15	39.62	39.46	40.26	38.88	38.50	38.28	37.06	40.86	37.68	36.77	36.20	39.41
16	39.36	39.44	40.21	38.73	38.38	38.21	37.01	40.47	37.64	36.72	36.39	39.20
17	39.34	39.94	39.91	38.71	38.29	38.18	36.98	41.02	37.58	36.69	36.36	39.03
18	39.58	40.37	39.68	38.73	38.29	38.07	37.07	40.61	37.53	36.69	36.33	38.92
19	39.59	40.22	.....	38.68	38.22	38.01	37.13	40.21	37.50	36.69	36.34	38.72
20	39.80	40.10	.....	38.64	38.32	37.86	37.02	39.95	37.43	36.62	36.36	38.72
21	39.35	39.98	40.07	38.55	38.23	37.84	36.97	39.74	37.40	36.60	37.10	39.09
22	39.46	39.77	39.99	38.55	38.14	37.84	36.92	39.76	37.36	36.60	39.60	39.52
23	40.40	39.62	40.08	38.52	38.09	37.80	36.90	39.55	37.33	36.60	39.69	39.56
24	40.25	.....	41.20	38.40	38.03	e37.78	36.84	39.40	37.28	36.58	39.42	39.46
25	40.05	.....	42.12	38.54	38.13	.....	36.77	39.22	37.27	36.52	39.22	39.32
26	40.10	.....	41.68	38.64	38.07	.....	36.75	39.09	37.26	36.50	39.13	39.19
27	39.95	39.49	41.29	.....	37.96	37.62	36.74	38.99	37.19	36.51	38.92	39.12
28	41.23	39.40	40.89	.....	37.96	37.57	36.72	38.88	37.14	36.52	38.77	38.88
29	42.17	39.50	40.58	.....	37.92	37.56	36.68	38.78	37.12	36.44	38.65	38.84
30	41.53	.....	40.30	.....	37.96	37.50	36.64	38.67	37.11	36.42	38.58	.....
31	41.10	.....	40.21	.....	e38.09	.....	36.60	38.56	.....	36.44	.....	.....

e Estimated.

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.02	Apr. 28	4.40	July 31	7.51	Oct. 30	6.81
Feb. 29	4.23	June 2	4.40	Aug. 29	4.77	Dec. 1	4.80
Mar. 31	4.32	July 1	6.08	Sept. 29	6.27	30	4.59

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	3.10	Apr. 28	2.90	July 31	6.35	Oct. 30	6.06
Feb. 29	3.25	June 2	2.85	Aug. 29	5.70	Dec. 1	4.09
Mar. 31	3.52	July 2	5.20	Sept. 29	6.20	30	3.98

Wor-Bh 9. Lester Esham. Formerly W. B. 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: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.14	Apr. 28	3.28	July 31	3.94	Dec. 1	4.42
Feb. 29	2.81	June 2	3.35	Sept. 29	3.60	30	4.33
Mar. 31	3.91	July 2	3.93	Oct. 30	5.30		

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	10.64	Apr. 28	10.42	July 30	11.46	Oct. 30	12.01
Feb. 29	10.34	June 2	10.56	Aug. 29	11.66	Dec. 1	11.48
Mar. 31	9.88	July 1	11.03	Sept. 29	11.80	30	11.45

NORTH CAROLINA

By H. E. LeGrand

Scope of Water-Level Program

The observation-well program, begun in 1931, was continued in 1952. 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. The wells are conveniently spaced to reveal the general water-level fluctuations throughout the State. Figure 30 shows location of observation wells.

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 diversion in population and consequent 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 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 starting, usually in December or January. The level generally continues to rise until April or May after which it begins to decline. The decline continues, interrupted only by rises of short duration caused by summer rainstorms, until the following December or January. The water table rises in late winter and spring because very little water is lost by evaporation or is used by vegetation, so that a relatively large part of the precipitation reaches the water table. Although the amount of rainfall is larger during the summer months because little or no rainfall reaches the water table, the amount used by vegetation and evaporation is large. The range in water level in the artesian aquifers is generally slight except near areas of recharge and near areas where water is pumped from the same aquifer. Well 13, Hertford County, for example, is remotely spaced 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 1952.

In 1952 the average rainfall at all Weather Bureau stations in the State was 49.46 inches, only 0.01 inch below normal. The unseasonably dry and hot weather in June and July resulted in below-average water levels until autumn. However, by the end of December the water level in most wells had risen appreciably. In fact, of all water-table wells measured throughout the year, the water levels in 22 were higher and in 6 lower at the end than at the beginning of the year; of the artesian wells, the water levels in 9 were higher and in 4 lower at the end than at the beginning of the year.

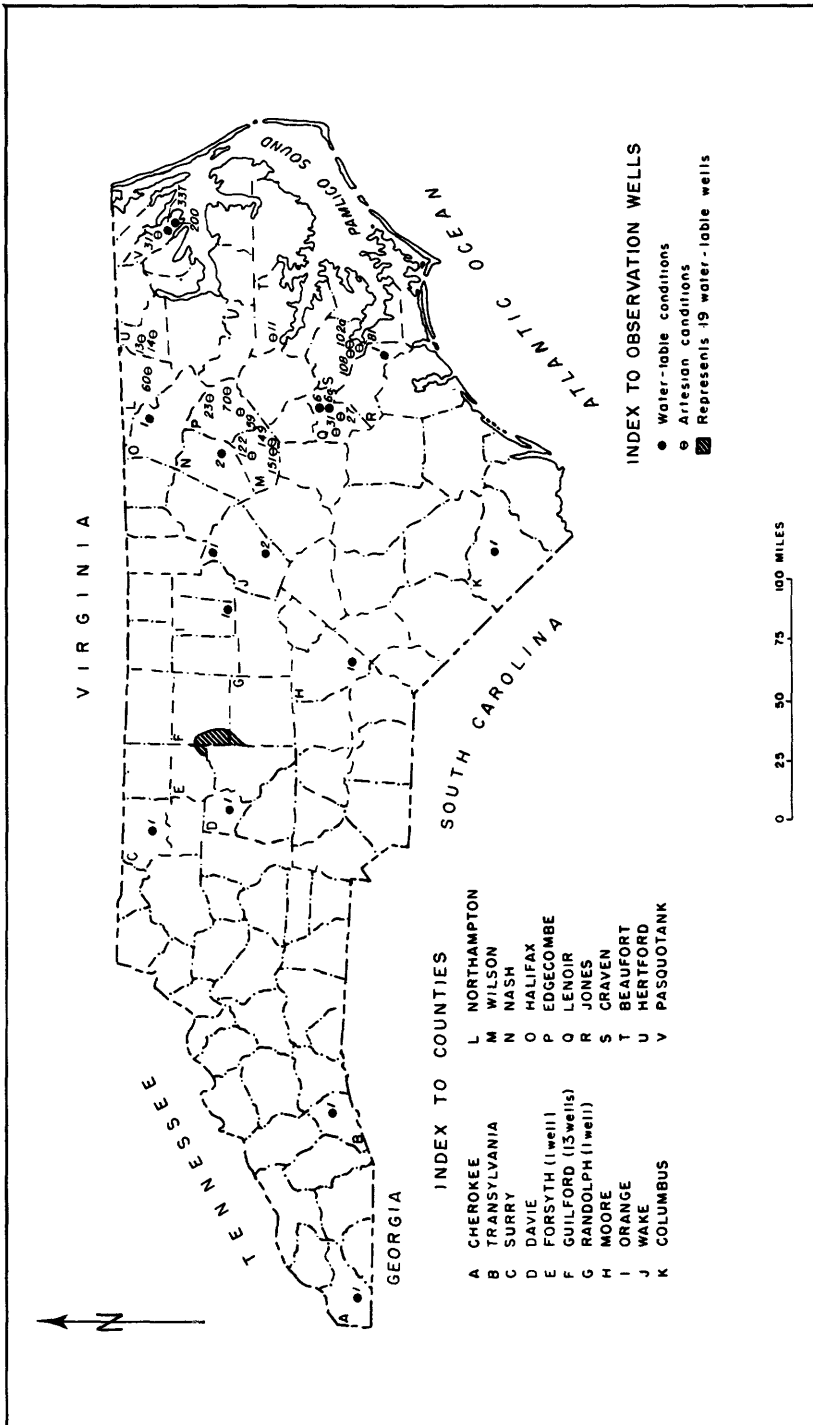


Figure 30. -- Location of observation wells in North Carolina, 1952.

Well-Numbering System

The wells are numbered by counties, although the numbers are not related to any system of location within the counties.

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.

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: 1948-52. Dec. 17, 7.95.

Cherokee County

1. Elliott. First Baptist Church, Murphy. Lat. 35°06', long. 84°02'. Dug unused water-table well in weathered mica schist, diameter 4 feet, depth 51 feet, cribbed with brick. Highest water level 37.79 below lsd, Apr. 13, 1950; lowest 42.70 below lsd, Jan. 11, 1948. Records available: 1943-52.

Daily water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.05	40.13	39.62	38.98	39.06	39.55	.....	40.55	41.05	41.47	42.00	42.43
2	41.03	40.10	39.67	38.97	39.08	39.57	40.00	40.54	41.07	41.48	42.03	42.43
3	41.00	40.02	39.66	38.97	39.10	39.59	.....	40.55	41.08	41.51	42.04	42.43
4	40.97	39.96	39.36	38.95	39.13	39.60	.....	40.56	41.11	41.54	42.05	42.44
5	40.92	39.88	39.38	38.92	39.16	39.61	.....	40.58	41.13	41.54	42.06	42.45
6	40.88	39.90	39.53	38.96	39.17	39.62	.....	40.58	41.14	41.55	42.07	42.46
7	40.88	39.92	39.60	38.97	39.17	39.63	.....	40.60	41.15	41.57	42.10	42.47
8	40.85	39.92	39.61	38.97	39.19	39.65	.....	40.63	41.17	41.58	42.12	42.47
9	40.80	39.90	39.60	38.96	39.19	39.67	.....	40.64	41.19	41.59	42.13	42.47
10	40.58	39.88	39.54	38.96	39.20	39.71	.....	40.66	41.19	41.61	42.13	42.44
11	40.55	39.84	39.16	38.95	39.22	39.69	.....	40.70	41.19	41.65	42.15	42.39
12	40.65	39.83	39.20	38.93	39.27	39.56	.....	40.73	41.20	41.66	42.18	42.40
13	40.67	39.82	39.31	38.89	39.31	39.58	.....	40.76	41.22	41.69	42.20	42.41
14	40.66	39.77	39.39	38.88	39.34	39.65	.....	40.79	41.24	41.70	42.22	42.41
15	40.65	39.77	39.41	36.91	39.35	39.68	.....	40.82	41.25	41.72	42.24	42.41
16	40.63	39.76	39.42	38.95	39.35	39.69	.....	40.84	41.25	41.73	42.25	42.42
17	40.61	39.73	39.42	38.98	39.37	39.70	40.28	40.87	41.26	41.76	42.27	42.44
18	40.58	39.76	39.41	38.98	39.39	.....	.....	40.89	41.28	41.78	42.29	42.44
19	40.57	39.77	39.37	38.98	39.40	.....	.....	40.84	41.30	41.80	42.29	42.44
20	40.54	39.74	39.38	38.98	39.40	.....	.....	40.86	41.32	41.81	42.28	42.44
21	40.54	39.73	39.35	38.98	39.43	.....	40.33	40.89	41.35	41.84	42.29	42.42
22	40.45	39.73	39.01	38.98	39.47	.....	.....	40.92	41.35	41.86	42.32	42.42
23	40.27	39.71	38.76	38.98	39.49	.....	.....	40.92	41.37	41.88	42.35	42.42
24	40.36	39.68	38.81	38.98	39.49	.....	40.39	40.54	41.39	41.88	42.37	42.43
25	40.42	39.67	38.99	38.98	39.46	.....	.....	40.96	41.41	41.89	42.37	42.44
26	40.41	39.67	39.07	38.58	39.47	.....	.....	40.99	41.41	41.82	42.37	42.45
27	40.29	39.65	39.07	38.98	39.51	39.87	.....	41.00	41.43	41.84	42.39	42.45
28	39.96	39.64	39.07	38.56	39.53	.....	40.47	41.00	41.45	41.84	42.41	42.45
29	39.87	39.62	39.07	39.01	39.53	.....	40.48	41.01	41.46	41.86	42.41	42.45
30	40.03	.....	39.06	39.04	39.52	.....	40.49	41.01	41.47	41.89	42.42	42.45
31	40.13	.....	39.03	.....	39.53	.....	40.54	41.03	.....	42.00	.....	42.40

Columbus County

1. C. W. Maulsby. East Lewis St., Whiteville. Lat. 34°21', long. 79°43'. Dug unused water-table well in sand, diameter 36 inches, depth 10 feet. Highest water level 1.18 below lsd, Jan. 19, 1946; lowest dry, June 20-Aug. 15, Nov. 1-11, 1951, June 8-July 14, 1952. Records available: 1944-52. Measurement discontinued.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	7.99	Jan. 17	7.98	Mar. 12	8.06	May 24	8.67
2	7.94	18	8.00	13	8.00	25	8.73
3	7.90	19	8.04	14	8.03	27	8.78
4	7.88	20	8.06	15	8.08	27	8.84
5	7.84	21	8.10	16	8.16	27	8.89
6	7.83	22	8.13	17	8.27	27	8.85
7	7.83	23	8.14	18	8.38	30	9.00
8	7.83	24	8.14	19	8.44	31	9.06
9	7.83	25	8.11	20	8.56	June 1	9.13
10	7.83	26	8.17	21	8.63	2	9.20
11	7.86	27	8.03	22	8.69	3	9.26
12	7.89	28	7.96	23	8.72	4	9.34
13	7.90	29	7.94	24	8.16	5	9.39
14	7.92	30	7.88	May 21	8.51	6	9.52
15	7.94	31	7.85	22	8.56	7	9.53
16	7.96	Mar. 11	7.99	23	8.62		

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, open end. Highest water level 9.35 below lsd, July 28, 1950; lowest 12.08 below lsd, Nov. 29, 1950. Records available: 1947-52. Feb. 28, 10.61; June 6, 11.66; Sept. 4, 12.05; Sept. 16, 12.05; Dec. 18, 11.47.

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: 1947-52. Feb. 26, 11.03; Apr. 9, 11.10; June 6, 14.67; Sept. 4, 18.00; Sept. 16, 17.88; Oct. 7, 17.20; Dec. 18, 15.45.

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. June 6, 5.67; Sept. 4, 6.34.

Davie County

1. Kurfee. In Mocksville near courthouse. Lat. 35°53', long. 80°34'. Rug 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: 1932-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.01	24.41	22.78	18.55	18.89	19.10	20.47	21.84	22.77	23.78	24.71	25.45
2	25.98	24.40	22.83	18.55	18.86	19.16	20.53	21.88	22.88	23.81	24.74	25.47
3	25.97	22.50	21.00	18.62	18.87	19.19	20.56	21.92	22.91	23.85	24.76	25.48
4	25.97	22.30	19.90	18.66	18.88	19.22	20.60	21.98	22.88	23.88	24.79	25.51
5	25.96	22.90	21.30	18.64	18.88	19.26	20.65	22.03	22.74	23.91	24.81	25.52
6	25.94	23.30	21.60	18.70	18.88	19.31	20.70	22.08	22.67	23.93	24.83	25.53
7	25.93	23.46	21.70	18.78	18.93	19.33	20.73	22.12	22.68	23.97	24.87	25.55
8	25.93	23.52	21.73	18.80	18.96	19.37	20.75	22.16	22.74	24.00	24.91	25.57
9	25.80	23.53	21.71	18.86	18.60	19.42	20.80	22.19	22.81	24.03	24.93	25.59
10	23.40	23.50	21.20	18.87	18.72	19.46	20.85	22.22	22.85	24.06	24.97	25.56
11	24.20	23.45	20.15	18.86	18.66	19.50	20.94	22.27	22.88	24.09	24.97	25.48
12	24.70	23.43	20.78	18.87	18.68	19.57	21.00	22.33	22.94	24.13	24.99	25.56
13	25.05	23.40	20.78	18.88	18.70	19.64	21.03	22.37	23.00	24.16	25.02	25.59
14	25.16	23.30	20.80	18.86	18.72	19.69	21.05	22.43	23.05	24.19	25.05	25.61
15	25.17	23.25	20.78	18.92	18.71	19.71	21.10	22.46	23.09	24.21	25.08	25.64
16	25.18	23.16	20.72	19.02	18.72	19.75	21.15	22.50	23.17	24.24	25.10	25.67
17	25.17	23.06	20.71	19.07	18.77	19.79	21.20	22.54	23.27	24.27	25.13	25.68
18	25.13	23.08	20.66	19.08	18.79	19.83	21.24	22.60	23.34	24.30	25.16	25.71
19	25.10	23.07	20.56	19.09	18.84	19.89	21.26	22.64	23.39	24.32	25.18	25.73
20	25.06	23.04	.....	19.11	18.82	19.94	21.29	22.66	23.44	24.35	25.19	25.74
21	25.03	23.02	.....	19.14	18.82	19.98	21.35	22.71	23.48	24.40	25.18	25.76
22	24.96	23.01	.....	19.17	18.85	20.03	21.41	22.74	23.51	24.43	25.20	25.78
23	24.93	23.00	.....	19.18	18.86	20.08	21.45	22.78	23.55	24.45	25.25	25.80
24	24.93	22.97	.....	19.21	18.88	20.11	21.51	22.83	23.59	24.47	25.29	25.81
25	24.92	22.96	18.00	19.19	18.88	20.15	21.58	22.88	23.62	24.50	25.32	25.83

1--Continued.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	24.90	22.95	17.96	19.10	18.90	20.20	21.61	22.92	23.65	24.54	25.33	.....
27	24.84	22.85	18.00	19.04	18.97	20.26	21.62	22.94	23.66	24.59	25.35	.....
28	24.10	22.81	18.16	18.94	19.02	20.32	21.64	22.95	23.70	24.57	25.38	.....
29	23.85	22.81	18.35	18.94	19.02	20.35	21.67	23.00	23.73	24.61	25.41	25.86
30	24.25		18.48	18.93	19.05	20.39	21.73	23.03	23.75	24.67	25.42	25.86
31	24.38		18.54		19.08		21.80	22.74		24.67		25.32

Edgecombe County

23. John Lane. In Speed. 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 10.78 below lsd, Sept. 27, 1947. Records available: 1946-52. Apr. 21, 6.13; July 22, 9.14; Dec. 17, 3.80.

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: 1946-52. Apr. 21, 30.10; July 22, 30.06; Dec. 17, 29.80.

70. W. Z. Wilson. In 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: 1946-52. Apr. 21, 38.25; July 22, 38.46; Dec. 17, 38.41.

Forsyth County

I-21. George G. Hedgecock. Near Kernersville. Lat. 36°04', long. 80°03'. Dug domestic water-table well in weathered granite, diameter 24 inches, depth 32 feet, lined with tile. Highest water level 24.33 below lsd, Nov. 29, 1948; lowest 29.77 below lsd, Dec. 31, 1951. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	29.65	Apr. 29	27.57	July 31	28.03	Oct. 29	28.24
Mar. 1	29.00	May 31	27.38	Sept. 2	28.06	Nov. 25	28.42
26	27.92	June 27	27.47	Oct. 1	28.19	Dec. 30	28.51

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: 1934-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.13	26.20	24.68	25.03	25.26	25.68	26.14	26.25	26.40	26.83	.....
2	27.06	26.23	24.68	24.99	25.34	25.70	26.10	26.20	26.41	26.86	.....
3	26.92	26.01	24.80	25.07	25.34	25.67	26.13	26.25	26.50	26.84	.....
4	26.79	25.47	24.75	25.08	25.32	25.66	26.14	26.31	26.55	26.87	.....
5	26.78	25.85	24.65	25.03	25.31	25.67	26.17	26.30	26.55	26.83	.....
6	26.87	25.75	24.80	25.04	25.33	25.74	26.19	26.26	26.50	26.81	.....
7	26.79	25.73	24.81	25.09	25.32	25.73	26.19	26.24	26.50	26.94	.....
8	26.78	25.67	24.87	25.08	25.33	25.67	26.20	26.34	26.50	26.99	.....
9	26.72	25.62	24.93	25.06	25.34	25.65	26.18	26.33	26.50	26.93	.....
10	26.69	25.54	24.90	25.04	25.34	25.73	26.16	26.29	26.55	26.90	.....
11	26.61	25.28	24.84	25.04	25.34	25.61	26.23	26.28	26.61	26.94	.....
12	26.71	25.50	24.87	25.17	25.37	25.86	26.25	26.28	26.61	27.01	.....
13	26.66	25.25	24.77	25.23	25.43	25.85	26.27	26.29	26.61	27.05	.....
14	26.65	25.36	24.69	25.28	25.44	25.83	26.30	26.27	26.62	27.05	.....
15	26.67	25.33	24.83	25.19	25.42	25.85	26.28	26.24	26.55	27.02	.....
16	26.60	25.29	24.96	25.23	25.41	25.89	26.26	26.23	26.62	27.07	.....
17	26.54	25.35	25.03	25.27	25.42	25.91	26.33	26.22	26.60	27.10	.....
18	26.65	25.35	25.01	25.26	25.44	25.91	26.36	26.26	26.65	27.10	.....
19	26.62	25.23	25.00	25.33	25.44	25.86	26.37	26.28	26.60	27.03	.....
20	26.55	25.26	25.00	25.25	25.47	25.85	26.38	26.34	26.66	26.93	.....

2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	.....	26.54	25.24	25.03	25.29	25.50	25.89	26.37	26.36	26.80	26.92	.....
22	.....	26.59	25.16	25.05	25.37	25.52	25.93	26.36	26.35	26.73	.....	.....
23	.....	26.55	25.13	25.03	25.36	25.53	25.94	26.41	26.39	26.68	.....	.....
24	.....	26.50	24.85	25.03	25.35	25.52	25.95	26.42	26.43	26.68	.....	.....
25	.....	26.50	24.92	24.99	25.25	25.50	26.03	26.44	26.42	26.72	27.17	.....
26	.....	26.42	24.86	24.97	25.24	25.53	26.05	26.45	26.36	26.83	.....	.....
27	27.20	26.34	24.85	24.94	25.34	25.55	26.02	26.40	26.38	26.73	.....	.....
28	27.14	26.29	24.85	24.96	25.34	25.59	25.97	26.35	26.45	26.64	.....	.....
29	27.19	26.25	24.84	24.98	25.27	25.58	25.98	26.41	26.45	26.82	.....	.....
30	27.20		24.87	25.00	25.28	25.56	26.06	26.37	26.40	26.87	.....	26.99
31	27.22		24.75		25.27		26.12	26.27		26.83		26.96

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: 1934-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	31.38	Apr. 29	30.05	July 31	29.56	Oct. 29	30.53
Mar. 1	30.75	May 31	29.01	Sept. 2	29.68	Nov. 25	30.66
26	29.72	June 27	30.86	Oct. 1	30.30	Dec. 30	30.83

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: 1934-52.

Jan. 26	21.79	Apr. 29	21.73	July 31	22.44	Oct. 29	22.24
Mar. 1	21.05	May 31	22.07	Sept. 2	20.98	Nov. 25	22.40
26	19.66	June 27	22.43	Oct. 1	21.89	Dec. 30	21.70

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: 1934-52.

Jan. 26	29.16	Apr. 29	24.48	July 31	27.17	Oct. 29	28.55
Mar. 1	27.06	May 31	25.45	Sept. 2	27.55	Nov. 25	28.61
26	20.22	June 27	26.13	Oct. 1	28.00	Dec. 30	28.22

12. John Blair Estate. 1113 Tate St., High Point. Lat. 35°58', long. 80°00'. Dug unused water-table well in weathered granite, diameter 30 inches, depth 37 feet, cribbed with brick. Highest water level 26.68 below lsd, Mar. 5, 1937; lowest 36.29 below lsd, July 27, 1941. Records available: 1934-52.

Jan. 26	31.93	Apr. 29	28.20	July 31	30.43	Oct. 29	30.68
Mar. 1	29.53	May 31	28.32	Sept. 2	30.50	Nov. 25	30.64
26	28.82	June 27	29.05	Oct. 1	30.39	Dec. 30	29.91

14. Clodfelter Dairy. High Point. Lat. 35°56', long. 79°58'. Dug unused water-table well in weathered diorite and granite, diameter 24 inches, depth 24 feet. Highest water level 10.55 below lsd, Feb. 24, 1946; lowest 19.40 below lsd, Nov. 28, 1942. Records available: 1934-52.

Jan. 26	16.70	Apr. 29	12.26	July 31	15.02	Oct. 29	16.28
Mar. 1	14.45	May 31	13.22	Sept. 2	14.97	Nov. 25	16.46
26	11.79	June 22	14.05	Oct. 1	15.89	Dec. 30	15.89

I-5. H. C. Hedgecock. Lat. 36°00', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 18 inches, depth 33 feet, lined with tile. Highest water level 22.31 below lsd, June 27, 1950; lowest 29.25 below lsd, Oct. 30, 1951. Records available: 1948-52.

Jan. 26	29.00	Apr. 29	25.13	July 31	27.04	Oct. 29	28.43
Mar. 1	27.99	May 31	24.10	Sept. 2	29.08	Nov. 25	28.75
26	25.97	June 27	27.06	Oct. 1	27.82	Dec. 30	28.86

I-8. J. A. Bolejack. Lat. 36°04', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 4 feet, depth 35 feet, cribbed with brick. Highest water level 29.03 below lsd, Nov. 25, 1949; lowest 31.49 below lsd, Nov. 30, 1951. Records available: 1948-51. Measurement discontinued.

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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	39.84	Apr. 29	39.50	July 31	38.23	Oct. 29	38.74
Mar. 1	40.33	May 31	39.68	Sept. 2	37.97	Nov. 25	39.12
26	40.12	June 27	38.73	Oct. 1	38.19	Dec. 30	39.00

I-17. Fred Todd. Lat. 36°01', long. 80°01'. Dug domestic water-table well in weathered diorite and granite, diameter 30 inches, depth 13 feet, lined with concrete. Highest water level 5.59 below lsd, Mar. 31, 1949; lowest 9.37 below lsd, Oct. 30, 1951. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	7.70	Apr. 29	6.01	July 31	8.35	Oct. 29	7.76
Mar. 1	6.81	May 31	6.64	Sept. 2	7.20	Nov. 25	7.65
26	5.94	June 27	7.42	Oct. 1	7.27	Dec. 30	7.20

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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	36.44	May 31	35.75	Sept. 2	35.64	Nov. 25	35.70
Mar. 1	36.70	June 27	35.82	Oct. 1	35.96	Dec. 30	35.67
26	36.09	July 31	35.62	29	35.89		

I-30. Mrs. J. W. Knight, Sr. (J. W. Knight, Jr.). Kernersville. Lat. 33°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: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	32.66	Apr. 29	31.30	July 31	31.94	Oct. 29	32.16
Mar. 1	32.40	May 31	31.03	Sept. 2	31.93	Nov. 25	32.33
26	31.69	June 27	31.53	Oct. 1	32.20	Dec. 30	32.22

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 15.49 below lsd, Nov. 30, 1951. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	14.30	Apr. 29	12.03	Sept. 2	13.36	Nov. 25	13.82
Mar. 1	13.07	June 27	11.70	Oct. 1	13.17	Dec. 30	13.64
26	12.03	July 31	13.02	29	13.41		

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 43.14 below lsd, Oct. 1, 1952. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	40.98	May 31	37.76	Sept. 2	41.03	Nov. 25	41.62
Mar. 1	40.66	June 27	40.66	Oct. 1	43.14	Dec. 30	39.77
26	37.26	July 31	39.50	29	41.00		

Halifax County

1. Freuler. At Roanoke Rapids. Lat. 36°26', long. 77°40'. Dug unused water-table well in terrace sand and gravel, diameter 30 inches, depth 15 feet, lined with terra cotta. Highest water level 1.23 below lsd, Aug. 30, 1939; lowest 10.53 below lsd, Dec. 22, 1941. Records available: 1932-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	7.74	May 27	5.22	Sept. 1	6.50	Oct. 31	8.20
Mar. 6	2.42	31	5.37	Oct. 1	7.69	Nov. 30	7.15
Apr. 9	4.57	June 30	6.36	30	7.65	Dec. 23	7.16
30	3.43	July 14	5.58				

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: 1947-52. Apr. 21, 26.84; July 22, 27.01; Dec. 17, 27.08.

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: 1946-52. Apr. 21, 26.63; July 22, 26.69; Dec. 17, 26.89.

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: 1941-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	3.80	Apr. 8	3.00	July 11	3.90	Oct. 8	7.00
9	5.50	16	4.40	16	6.70	15	3.90
16	6.40	23	5.60	23	6.70	22	5.10
23	4.50	30	2.20	30	7.90	29	8.00
30	3.10	May 2	4.80	Aug. 6	8.00	Nov. 5	7.80
Feb. 6	1.40	14	4.60	13	7.90	12	7.80
13	2.80	21	.90	20	6.80	19	5.00
20	1.50	29	4.00	27	7.70	26	2.40
25	1.00	June 4	5.10	Sept. 3	4.80	Dec. 3	2.40
Mar. 5	1.10	11	4.90	10	6.20	10	3.50
11	1.10	18	6.70	17	7.10	17	3.70
19	2.80	25	7.10	24	1.50	24	5.50
26	1.10	July 2	7.60	Oct. 1	5.00	30	4.10
Apr. 2	1.70						

Lenoir County

6. Ernest L. Johnson. Lat. 35°20', long. 77°36'. Drilled observation artesian well in Peedee(?) formation, diameter 4 inches, depth 84 feet, cased to 82 feet, open hole. Highest water level 8.45 below lsd, Dec. 31, 1948; lowest 14.68 below lsd, Dec. 18, 1952. Records available: 1947-52. Feb. 28, 12.54; Dec. 18, 14.68.

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 9.74 below lsd, July 28, 1952. Records available: 1947-52. Feb. 28, 6.63; June 6, 8.57; July 28, 9.74; Sept. 3, 9.26; Dec. 18, 8.73.

27. Caswell Training School. Kinston. Lat. 35°17', long. 77°36'. Drilled domestic artesian well in Black Creek formation, diameter 6 inches, depth 600 feet. Highest water level 20.85 below lsd, Dec. 31, 1947; lowest 38.84 below lsd, Aug. 4, 1948. Records available: 1947-50. No measurement made in 1952.

31. Town of Kinston. Lat. 35°16', long. 77°37'. Drilled unused artesian well in Black Creek formation, diameter 1½ inches, depth 300 feet. Highest water level 3.96 above lsd, Feb. 26, 1948; lowest 0.74 below lsd, Oct. 9, 1952. Records available: 1947-52.

Feb. 19	-0.03	June 5	-0.56	Sept. 3	-0.67	Oct. 9	-0.74
28	+.03	24	-.39	16	-.71	Dec. 18	-.67
Apr. 8	+.05	July 28	-.54				

Moore County

1. Pure Oil Station. Pinebluff. Lat. 35°06', long. 79°28'. Dug unused water-table well in sand of 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: 1944-52.

Daily mean water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	(f)	(f)	33.91	33.81	38.41	41.05	44.02	46.70	31.90	36.60	38.29	37.96
2	(f)	(f)	33.69	33.89	38.53	41.12	44.16	(f)	32.61	36.78	38.28	37.97
3	(f)	(f)	33.67	34.00	38.69	41.26	44.26	(f)	33.10	36.92	38.27	38.00
4	(f)	(f)	32.55	34.06	38.80	41.38	44.38	(f)	33.40	37.03	38.26	38.03
5	(f)	45.63	32.60	34.10	38.90	41.52	44.50	(f)	33.60	37.17	38.25	38.05

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1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	(f)	43.11	32.91	34.22	39.00	41.68	44.62	(f)	33.76	37.27	38.22	38.08
7	(f)	41.63	33.15	34.35	39.15	41.84	44.68	(f)	33.83	37.40	38.21	38.12
8	(f)	40.83	33.32	34.50	39.27	42.04	44.76	(f)	33.95	37.50	38.21	38.16
9	(f)	40.33	33.47	34.67	39.36	42.26	44.82	(f)	34.02	37.51	38.22	38.19
10	(f)	40.15	33.61	34.85	39.51	42.48	44.92	(f)	34.11	37.51	38.22	38.22
11	(f)	40.07	33.67	35.01	39.63	42.68	45.00	(f)	34.18	37.53	38.22	38.25
12	(f)	40.10	33.79	35.20	39.68	42.87	45.06	(f)	34.22	37.57	38.22	38.29
13	(f)	40.21	33.80	35.37	39.78	43.04	45.18	(f)	34.30	37.63	38.23	38.33
14	(f)	40.34	33.89	35.55	39.89	43.20	45.31	(f)	34.42	37.71	38.25	38.38
15	(f)	40.53	34.00	35.75	39.98	43.34	45.39	(f)	35.52	37.73	38.25	38.42
16	(f)	40.71	34.13	36.00	40.09	43.47	45.46	(f)	34.62	37.82	38.27	38.47
17	(f)	40.89	34.35	36.15	40.20	43.53	45.55	(f)	34.74	37.83	38.29	38.51
18	(f)	40.43	34.60	36.35	40.35	43.55	45.64	(f)	34.88	37.95	38.31	38.55
19	(f)	39.57	34.87	36.55	40.47	43.55	45.75	(f)	35.01	38.03	38.32	38.60
20	(f)	39.23	35.15	36.75	40.49	43.54	45.86	(f)	35.12	38.03	38.32	38.65
21	(f)	38.73	35.45	36.95	40.51	43.54	46.00	(f)	35.25	38.14	38.32	38.68
22	(f)	38.57	35.70	37.15	40.59	43.53	46.14	(f)	35.32	38.16	38.33	38.73
23	(f)	38.53	35.95	37.36	40.65	43.52	46.26	(f)	35.40	38.17	38.28	38.77
24	(f)	38.52	36.15	37.55	40.73	43.51	46.32	(f)	35.54	38.22	38.16	38.82
25	(f)	38.57	34.85	37.70	40.78	43.51	46.40	(f)	35.67	38.26	38.08	38.86
26	(f)	38.60	33.20	37.83	40.81	43.55	46.48	(f)	35.80	38.28	38.01	38.90
27	(f)	38.03	33.25	38.93	40.88	43.62	46.53	(f)	35.98	38.31	37.95	38.94
28	(f)	36.33	33.45	38.05	40.96	43.70	46.57	(f)	36.15	38.31	37.95	38.98
29	(f)	34.73	33.60	38.15	41.05	43.80	46.61	(f)	36.31	38.31	37.95	39.03
30	(f)		33.70	38.29	41.05	43.88	46.65	(f)	36.42	38.31	37.95	39.07
31	(f)		33.77		41.03		46.69	43.20		38.31		38.90

f Dry.

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: 1932-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	11.03	Mar. 29	2.18	June 21	9.17	Oct. 18	9.81
9	11.19	Apr. 5	3.58	28	9.51	25	10.11
12	10.24	9	4.50	July 5	10.09	Nov. 1	10.46
19	10.19	12	5.18	12	10.57	8	10.81
26	9.45	19	6.68	18	9.60	14	11.10
Feb. 9	5.53	26	7.68	Aug. 30	8.35	15	11.11
16	6.71	May 3	7.52	Sept. 6	7.46	22	6.14
23	6.74	10	7.73	13	7.98	29	8.23
Mar. 1	1.68	17	7.45	20	8.56	Dec. 6	8.32
3	1.90	24	5.32	27	8.96	13	7.82
8	2.22	26	5.55	Oct. 1	9.13	20	8.10
15	2.56	31	6.52	4	9.31	24	8.13
18	3.13	June 7	7.72	11	9.68	27	8.25
22	3.27	14	8.69				

Northampton County

60. Seaboard Air Line Railroad Co. Potecasi. Lat. 36°22', long. 77°14'. Drilled industrial artesian well in sand of Tuscaloosa formation, diameter 4 inches, depth 145 feet. Highest water level 1.80 above lsd, Nov. 30, 1948; lowest 1.36 above lsd, Mar. 30, 1949. Records available: 1948-49. Measurement discontinued.

Orange County

1. McCauley. Chi Psi Fraternity in Chapel Hill. Lat. 35°55', long. 79°04'. Dug unused water-table well in granite, diameter 36 inches, depth 45 feet, lined with rock. Highest water level 38.48 below lsd, Mar. 29, 1946; lowest 46.41 below lsd, Jan. 21, 1952. Records available: 1938-52.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	46.40	Mar. 31	43.78	June 30	43.14	Oct. 6	43.77
14	46.38	Apr. 7	43.60	July 7	43.29	13	43.87
21	46.41	14	43.41	14	43.37	20	43.94
28	46.34	21	43.39	21	43.23	27	44.05
Feb. 4	45.98	28	43.20	28	43.30	Nov. 3	44.16
11	45.88	May 5	43.15	Aug. 4	43.45	17	44.38
18	45.75	19	43.07	11	43.46	24	44.17
25	45.64	26	42.98	25	43.64	Dec. 1	44.19
Mar. 3	45.44	June 2	43.01	Sept. 8	43.61	8	44.15
10	44.80	9	43.00	15	43.59	15	44.11
18	44.30	16	43.05	22	43.64	22	44.13
24	44.08	23	43.10	29	43.71	29	44.17

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: 1935-52.

Jan. 6	0.64	Apr. 9	2.12	July 9	5.25	Oct. 8	6.40
9	.60	16	2.37	16	5.42	15	6.58
16	.58	23	2.80	23	5.26	22	6.67
23	.40	30	1.96	30	5.65	29	6.55
30	.56	May 7	2.64	Aug. 6	4.65	Nov. 5	6.74
Feb. 6	.45	14	3.07	13	4.18	12	6.55
13	1.26	21	3.58	20	5.11	19	6.50
20	.52	28	4.01	27	5.45	26	6.04
28	.40	June 4	3.43	Sept. 3	5.64	Dec. 3	6.05
Mar. 5	.41	10	3.82	10	5.84	10	6.00
12	.51	18	4.49	17	6.00	17	5.36
19	.60	24	4.61	24	6.20	24	5.13
26	.46	July 2	5.11	Oct. 1	6.30	31	5.00
Apr. 3	1.54						

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. No measurement made in 1952.

200. Elizabeth City. At water plant. Lat. 36°18', long. 76°13'. Drilled unused artesian well in sand, diameter 8 inches, depth 75 feet. Highest water level 14.19 below lsd, Sept. 25, 1951; lowest 35.60 below lsd, July 26, 1946. Records available: 1946-52. Apr. 21, 19.67.

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: 1934-52.

Jan. 26	30.20	Apr. 29	26.33	July 31	28.78	Oct. 29	29.80
Mar. 1	29.50	May 31	27.40	Sept. 2	27.98	Nov. 25	30.35
26	25.02	June 27	28.06	Oct. 1	29.38	Dec. 30	29.96

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, 1949-52.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	45.64	Apr. 17	46.36	July 4	45.26	Sept. 22	43.71
10	45.66	25	46.28	11	45.05	Oct. 1	43.67
16	45.68	May 4	46.51	17	44.85	17	43.69
30	45.84	12	46.46	24	44.64	24	43.79
Feb. 9	45.85	18	44.96	Aug. 8	44.16	Nov. 3	43.79
17	46.07	31	46.21	16	44.05	15	43.93
25	46.21	June 7	46.28	20	43.85	22	43.96
Mar. 13	45.84	15	45.85	24	43.85	30	44.16
29	46.21	25	45.56	Sept. 2	43.75	Dec. 12	44.33
Apr. 6	46.41	30	45.58	11	43.77	22	44.51

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: 1932-57.

Daily water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.91	34.47	33.08	31.63	30.13	29.29	29.88	31.45	32.96	34.05	35.01	35.94
2	35.89	34.43	33.03	31.60	30.10	29.29	29.91	31.49	33.00	34.06	35.03	35.95
3	35.86	34.27	32.99	31.47	30.07	29.28	29.96	31.55	33.04	34.10	35.06	35.98
4	35.81	34.24	32.90	31.47	30.05	29.29	30.01	31.61	33.11	34.14	35.09	36.01
5	35.77	34.24	32.85	31.48	29.99	29.28	30.04	31.67	33.16	34.16	35.12	36.02
6	35.73	34.20	32.81	31.40	29.96	29.28	30.09	31.72	33.19	34.19	35.15	36.04
7	35.70	34.14	32.77	31.36	29.92	29.28	30.13	31.77	33.23	34.22	35.20	36.06
8	35.67	34.09	32.71	31.29	29.88	29.29	30.10	31.83	33.28	34.26	35.22	36.09
9	35.60	34.05	32.67	31.26	29.83	29.29	30.20	31.88	33.31	34.28	35.26	36.11
10	35.52	34.00	32.65	31.22	29.79	29.31	30.22	31.92	33.34	34.30	35.27	36.13
11	35.51	33.95	32.46	31.13	29.78	29.31	30.23	31.98	33.37	34.34	35.32	36.14
12	35.48	33.93	32.46	31.07	29.73	29.32	30.37	32.05	33.41	34.39	35.35	36.16
13	35.39	33.88	32.43	31.00	29.71	29.34	30.42	32.14	33.46	34.42	35.40	36.18
14	35.34	33.81	32.39	30.96	29.70	29.47	30.51	32.16	33.49	34.45	35.43	36.19
15	35.30	33.77	32.37	30.90	29.64	29.39	30.56	32.23	33.52	34.47	35.47	36.22
16	35.27	33.73	32.33	30.87	29.62	29.41	30.60	32.28	33.54	34.50	35.50	36.23
17	35.21	33.67	32.30	30.82	29.61	29.43	30.63	32.30	33.58	34.53	35.54	36.25
18	35.16	33.63	32.27	30.79	29.55	29.45	30.70	32.38	33.63	34.59	35.56	36.27
19	35.16	33.60	32.22	30.73	29.54	29.47	30.73	32.40	33.66	34.62	35.58	36.29
20	35.06	33.53	32.23	30.68	29.49	29.52	30.79	32.45	33.69	34.64	35.59	36.27
21	35.02	33.50	32.18	30.63	29.47	29.53	30.82	32.49	33.73	34.68	35.64	36.28
22	34.97	33.45	32.09	30.58	29.47	29.57	30.87	32.53	33.77	34.70	35.67	36.29
23	34.90	33.40	32.03	30.49	29.45	29.60	30.88	32.60	33.79	34.72	35.70	36.31
24	34.88	33.36	31.96	30.45	29.42	29.63	30.98	32.65	33.83	34.75	35.75	36.32
25	34.83	33.32	31.93	30.42	29.37	29.67	31.03	32.65	33.87	34.79	35.77	36.32
26	34.77	33.26	31.90	30.34	29.36	29.69	31.12	32.74	33.90	34.82	35.79	36.33
27	34.71	33.20	31.87	30.28	29.36	29.74	31.17	32.79	33.92	34.84	35.81	36.33
28	34.63	33.15	31.80	30.25	29.35	29.78	31.21	32.83	33.95	34.88	35.84	36.34
29	34.60	33.12	31.77	30.22	29.32	29.80	31.25	32.87	33.97	34.91	35.88	36.34
30	34.57		31.74	30.19	29.31	29.82	31.38	32.90	34.01	34.95	35.90	36.34
31	34.54		31.71		29.30		31.39	32.92		34.98		36.33

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: 1932-52.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	10.28	Apr. 6	4.38	July 16	9.82	Oct. 3	8.89
13	7.80	13	5.10	19	9.89	10	9.35
20	7.28	19	5.56	26	10.90	12	9.48
Feb. 3	6.28	27	6.38	28	9.12	19	9.39
10	6.98	May 5	4.96	Aug. 2	10.41	Nov. 2	9.98
12	5.28	11	5.55	9	10.50	8	10.12
26	5.18	24	6.16	24	8.10	15	10.32
Mar. 1	4.98	31	6.66	30	8.20	30	6.60
6	4.70	June 14	8.24	Sept. 7	6.61	Dec. 7	6.41
8	5.55	22	8.77	14	7.36	14	6.14
16	4.98	July 5	9.69	19	7.78	21	6.25
23	5.10	12	9.81	28	8.62	27	6.10
30	4.89						

2. Baptist parsonage. At Garner. Lat. 35°43', long. 78°37'. Dug domestic water-table well in weathered granite gneiss, diameter 7 feet, depth 30 feet, unlined. Highest water level 23.50 below lsd, Sept. 1, 1949; lowest 29.38 below lsd, Nov. 30, 1951. Records available: 1946-52.

Jan. 2	28.12	Mar. 3	28.31	May 2	27.11	Oct. 7	28.52
31	29.12	Apr. 3	27.14	June 2	27.12	Dec. 1	28.60
Feb. 2	27.68						

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 feet. Highest water level 12.31 below lsd, Feb. 26, 1948; lowest 22.86 below lsd, Dec. 28, 1951. Records available: 1947-52. Feb. 28, 19.08; Dec. 18, 15.63.

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 feet. Highest water level 19.31 below lsd, Nov. 26, 1947; lowest 23.95 below lsd, Dec. 28, 1951. Records available: 1947-52. Feb. 28, 23.55; Dec. 18, 23.08.

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. No measurement made in 1952.

SOUTH CAROLINA

By George E. Siple

Scope of Water-Level Program

The observation-well program was continued in 1952 as part of the cooperative agreement for ground-water investigations, begun in 1946, with the South Carolina Research, Planning and Development Board. Measurements were made in 17 wells in the Coastal Plain. Figure 31 gives the location of the observation wells in this report.

Precipitation

Temperatures were slightly above normal and precipitation slightly below normal during 1952. Precipitation averaged 46.60 inches (0.86 inch below normal). Ordinarily, rainfall is greatest during July and least during November. In 1952, rainfall was above normal for March and August. In January rainfall was about 27 percent below normal. Rainfall averaged about 11 percent above normal in February. In March rains were unusually heavy, averaging about 83 percent above normal. Rainfall averaged slightly above normal in April and May. 1952 had the driest July since 1887 when records were begun. The severe drought was broken early in August by substantial rains. There were moderate rises in the rivers while ponds and reservoirs were being replenished. In September rainfall was about 17 percent below normal. Rainfall averaged 36 percent of normal in October 1952, the lowest average for October since 1943. In November rainfall was about 12 percent below normal. Rainfall was about 8 percent below normal in December. Storage in major reservoirs decreased, and at the end of the month was generally about the lowest of record.

Interpretation of Water-Level Fluctuations

Coastal Plain deposits (sands, gravels, clays, and limestones of Upper Cretaceous to Recent age) crop out in the lower part of the State in a belt having a northeast-southwest strike and a dip to the south-southeast. Most of the larger wells, with the exception of those in the limestones of Tertiary age, obtain water from artesian aquifers. The water-table wells, in general, show fluctuations which are correlative with rainfall in the immediate areas. Figure 32 illustrates this correlation with data obtained from Sumter County well 1. The water level for August shows an apparent disconformity with rainfall because the measurement was obtained prior to heavy rainfall on the last day of the month. The smallest range during the year was indicated in Berkeley well 1. The largest occurred in Barnwell 1, which is influenced by nearby pumping. New minimum water levels were recorded from nine of the observation wells in 1952.

Well-Numbering System

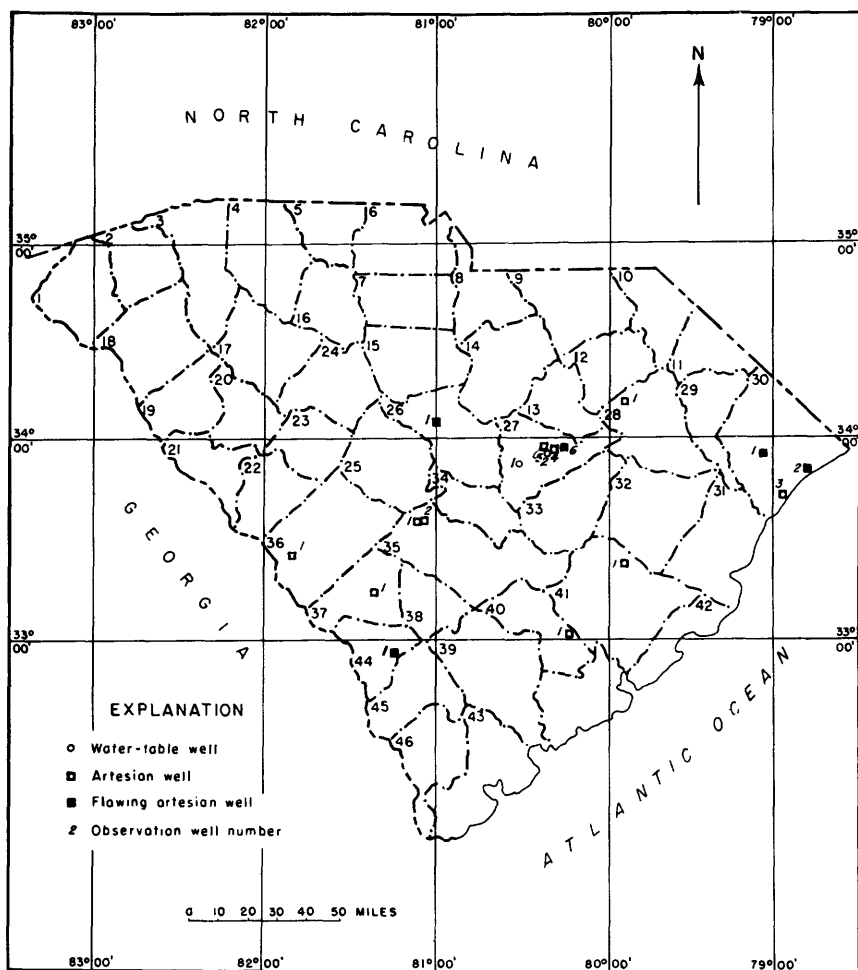
Wells are arranged alphabetically by county and serially within the county.

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 Upper Cretaceous age, diameter 10 inches, depth 320 feet. Land-surface datum is about 254 feet above msl. Recording gage installed November 22, 1952. Highest water level 94.50 below lsd, Apr. 2, 1952; lowest 96.10 below lsd, July 14, 1952. Records available: 1952.



INDEX TO COUNTIES

1 OCONEE	13 LEE	25 LEXINGTON	36 AIKEN
2 PICKENS	14 KERSHAW	26 RICHLAND	37 BARNWELL
3 GREENVILLE	15 FAIRFIELD	27 SUMTER	38 BAMBERG
4 SPARTANBURG	16 UNION	28 FLORENCE	39 COLLETON
5 CHEROKEE	17 LAURENS	29 MARION	40 DORCHESTER
6 YORK	18 ANDERSON	30 HORRY	41 BERKELEY
7 CHESTER	19 ABBEVILLE	31 GEORGETOWN	42 CHARLESTON
8 LANCASTER	20 GREENWOOD	32 WILLIAMSBURG	43 BEAUFORT
9 CHESTERFIELD	21 MC CORMICK	33 CLARENOON	44 ALLENDALE
10 MARLBORO	22 EDGEFIELD	34 CALHOUN	45 HAMPTON
11 DILLON	23 SALUDA	35 ORANGEBURG	46 JASPER
12 DARLINGTON	24 NEWBERRY		

Figure 31. --Location of observation wells in South Carolina, 1952.

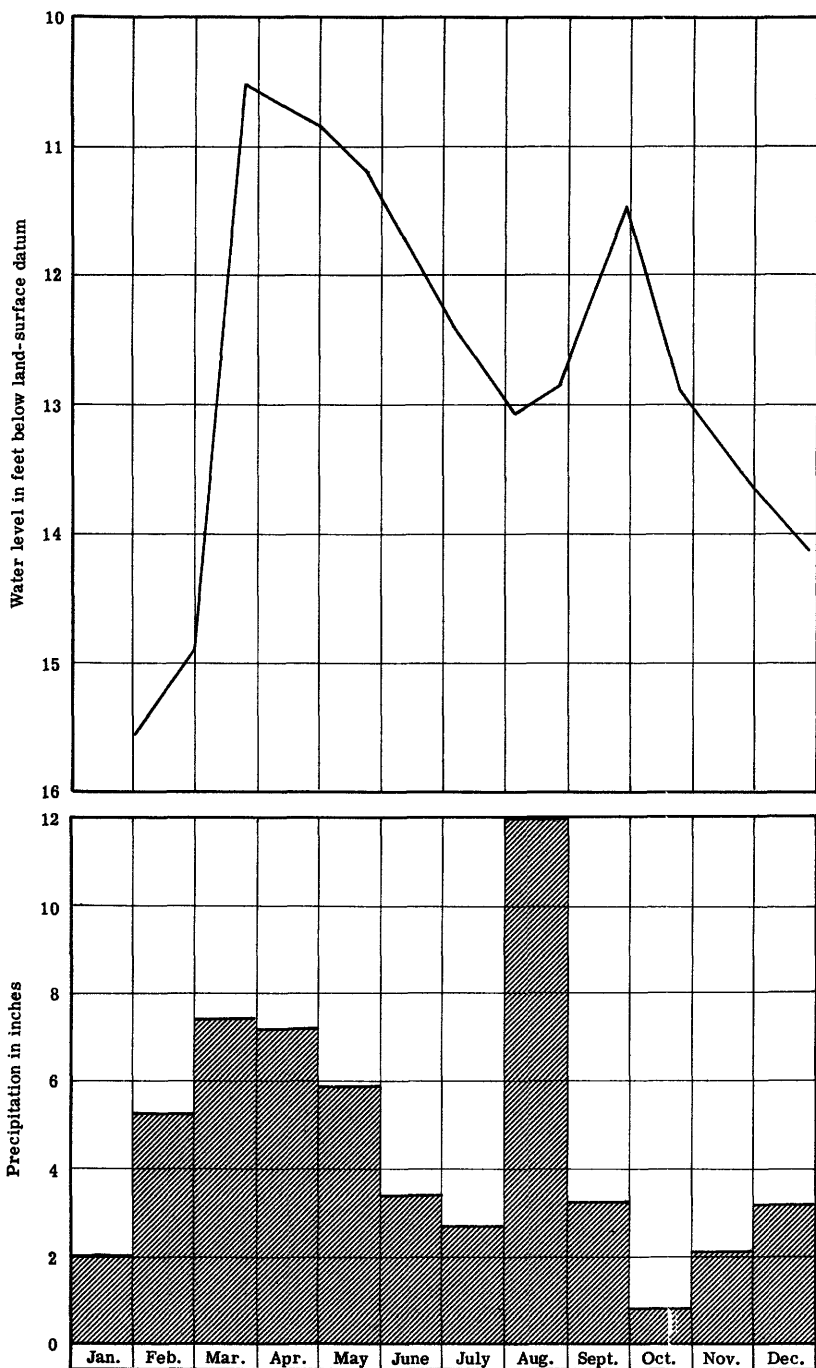


Figure 32. --Fluctuations of water level in Sumter well 1 and precipitation at Wedgefield, S. C., 1952.

1--Continued.

Daily lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	95.00	Aug. 12	95.06	Nov. 22	95.28	Dec. 12	95.38
Mar. 13	94.65	20	95.64	24	95.53	13	95.50
20	94.77	26	95.21	26	95.45	16	95.53
25	94.55	Sept. 2	95.18	27	95.49	17	95.51
Apr. 2	94.50	9	95.36	28	95.54	18	95.50
15	94.76	16	95.29	29	95.55	19	95.52
23	95.33	23	95.03	30	95.56	20	95.53
May 3	95.41	30	95.13	Dec. 1	95.56	21	95.41
8	95.51	Oct. 4	95.16	2	95.54	22	95.45
15	95.61	5	95.10	4	95.47	23	95.48
23	95.72	6	95.11	5	95.47	24	95.51
June 10	95.75	7	95.06	6	95.37	25	95.51
17	95.86	14	95.24	7	95.43	26	95.50
23	95.94	21	95.43	8	95.45	27	95.51
July 14	96.10	28	95.34	9	95.46	28	95.57
26	94.98	Nov. 4	95.28	10	95.42	29	95.55
30	94.98	11	95.35	11	95.38	30	95.55
Aug. 6	95.03	18	95.41				

Allendale County

1. Mr. Easton. Fairfax. Lat. 32°57', long. 81°14'. Drilled unused artesian well in sands of Upper Cretaceous age, diameter 8 inches, depth 660 feet. Land-surface datum is about 135 feet above msl. Highest water level 39.00 above lsd, June 19, 1947; lowest 33.38 above lsd, July 31, 1952. Records available: 1946-52.

Feb. 2	+35.40	Apr. 29	+35.11	Aug. 25	+33.95	Nov. 29	+34.24
28	+35.11	May 26	+35.11	Sept. 27	+35.11	Dec. 28	+34.24
Mar. 27	+33.95	July 31	+33.38	Oct. 25	+34.53		

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 55.68 below lsd, July 31, 1952. Records available: 1946-52.

Jan. 31	32.51	Aug. 15	50.06	Oct. 7	40.88	Nov. 18	42.22
Feb. 27	42.68	25	43.09	14	37.58	25	40.34
Mar. 27	31.28	Sept. 10	44.19	21	36.91	29	38.81
Apr. 29	38.21	16	45.10	25	40.89	Dec. 3	37.08
May 25	40.73	23	45.99	28	40.71	9	37.92
July 9	45.86	27	44.66	Nov. 4	41.31	16	34.84
31	55.68	30	35.39	11	38.64	28	41.02

Berkeley County

1. Santee River Hardwood Co. Saint Stephen. Lat. 33°25', long. 79°56'. Drilled unused artesian well in sand of Upper Cretaceous age, diameter 6 inches, depth 900 feet. Land-surface datum is about 75 feet above msl. Highest water level 15.69 below lsd, June 14, 1949; lowest 20.60 below lsd, Mar. 15, 1946. Records available: 1946-52.

Feb. 2	16.28	Apr. 29	15.94	Aug. 25	16.89	Nov. 29	16.67
28	16.11	May 26	16.14	Sept. 27	16.49	Dec. 28	16.62
Mar. 27	15.92	July 31	16.67	Oct. 25	16.60		

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 Upper Cretaceous age, diameter 8 inches, depth 925 feet. Land-surface datum is about 70 feet above msl. Highest water level 19.98 below lsd, Nov. 29, 1952; lowest 28.22 below lsd, Apr. 30, 1949. Records available: 1948-52.

1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	20.85	Apr. 29	20.47	Aug. 25	22.17	Nov. 29	19.98
28	20.48	May 26	20.80	Sept. 27	21.70	Dec. 28	20.69
Mar. 27	20.55	July 31	21.85	Oct. 25	21.39		

Florence County

1. Town of Timmonsville. Near reservoir. Lat. 34°08', long. 79°51'. Drilled unused artesian well in sand of Upper Cretaceous age, diameter 5 inches, depth 165 feet. Land-surface datum is about 150 feet above msl. Highest water level 15.39 below lsd, Feb. 23, 1950; lowest 54.05 below lsd, June 29, 1950. Records available: 1950-52.

Feb. 1	17.67	May 26	17.80	Aug. 2	19.07	Oct. 26	18.45
29	17.05	June 1	18.15	27	19.54	Nov. 30	18.03
Mar. 25	16.97	July 18	18.94	Sept. 28	19.28	Dec. 28	16.86
Apr. 30	16.61						

Horry County

1. St. Paul's Baptist Church. Lat. 33°53', long. 79°03'. Drilled unused artesian well in sand of Upper Cretaceous age, diameter 2 inches, reported depth 250 feet. Land-surface datum is about 26 feet above msl. Highest water level 10.7 above lsd, Feb. 28, 1947; lowest 5.7 above lsd, June 28, 1951. Records available 1947-52.

Feb. 2	+8.7	Apr. 29	+9.0	Aug. 2	+8.4	Oct. 26	+9.8
29	+9.0	May 29	+8.7	27	+8.4	Nov. 30	+8.4
Mar. 28	+8.8	July 18	+8.4	Sept. 28	+8.4	Dec. 28	+8.4

2. K. C. E.'sworth. Briarcliff Acres. Lat. 33°48', long. 78°42'. Drilled domestic artesian well in Black Creek sand, diameter 10 inches, depth 587 feet. Land-surface datum is about 25 feet above msl. Highest water level 12.45 above lsd, Jan. 31, 1951; lowest 8.12 above lsd, May 26, 1952. Records available: 1947-52.

Feb. 2	+10.72	Apr. 29	+9.56	Aug. 7	+9.28	Oct. 26	+9.28
28	+10.57	May 26	+8.12	28	+10.14	Nov. 30	+9.28
Mar. 27	+11.01	July 18	+10.43	Sept. 28	+10.14	Dec. 28	+9.56

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: 1946-52.

Feb. 2	16.27	May 29	14.40	Aug. 26	17.79	Nov. 30	13.11
28	13.55	July 18	17.37	Sept. 28	13.76	Dec. 28	13.19
Mar. 27	11.98	31	17.75	Oct. 26	13.30		

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: 1946-52.

Feb. 29	41.30	May 27	39.72	Sept. 27	40.03	Nov. 29	40.90
Mar. 28	41.22	Aug. 2	39.99	Oct. 25	40.83	Dec. 28	41.55
Apr. 30	39.83	25	40.14				

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: 1947-52.

2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 24, 1947	39.46	Apr. 30, 1949	33.76	Feb. 29, 1952	41.05	Aug. 25, 1952	39.57
Oct. 28	38.54	June 9	33.35	Mar. 28	40.23	Sept. 27	39.47
Jan. 17, 1949	33.25	July 29	34.34	Apr. 30	38.87	Oct. 25	40.91
Feb. 24	34.14	Sept. 30	33.98	May 27	38.66	Nov. 29	40.50
Mar. 30	33.12	Nov. 3	33.35	Aug. 2	39.17	Dec. 28	40.30

Richland County

1. Shakespeare Manufacturing Co. Near Columbia. Lat. 34°02', long. 81°00'. Drilled unused water-table well in 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. Feb. 4, 83.00; Feb. 28, 83.84; May 16, 84.10; July 23, 83.98; Aug. 25, 82.63; Oct. 25, 82.30.

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 10.50 below lsd, Mar. 28, 1952; lowest 15.56 below lsd, Feb. 1, 1952. Records available: 1942-43, 1946-49, 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	15.56	Apr. 30	10.80	Aug. 2	13.07	Oct. 26	12.72
29	14.87	May 27	11.19	27	12.88	Nov. 30	13.62
Mar. 28	10.50	July 3	12.36	Sept. 28	11.45	Dec. 28	14.10

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: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	30.43	Apr. 30	24.64	Aug. 2	23.74	Oct. 26	21.80
29	28.07	May 29	24.88	27	23.37	Nov. 30	20.59
Mar. 28	26.24	July 14	23.16	Sept. 28	21.74	Dec. 28	19.14

4. City of Sumter. Lat. 33°57', long. 80°22'. Drilled unused artesian well in sand of Upper Cretaceous age, diameter 18 inches, depth 625 feet. Land-surface datum is about 176 feet above msl. Highest water level 33.65 below lsd, July 30, 1949; lowest 44.59 below lsd, Feb. 1, 1952. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	44.59	Apr. 30	40.05	Aug. 2	42.83	Oct. 26	44.07
29	42.71	May 27	42.92	27	43.76	Nov. 30	42.33
Mar. 28	43.56	July 14	45.28	Sept. 28	43.70	Dec. 28	40.49

5. City of Sumter. Lat. 33°57', long. 80°22'. Drilled public-supply artesian well in sand of Upper Cretaceous age, diameter 18 inches, depth 625 feet. Land-surface datum is about 176 feet above msl. Highest water level 25 below lsd, Dec. 15, 1950; lowest 48.98 below lsd, May 27, 1952. Records available: 1948-52. May 27, 48.98.

6. Beulah Methodist Church. Near Sumter. Lat. 33°57'30", long. 80°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 4.51 above lsd, Nov. 30, 1952. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	+5.11	May 27	+5.54	Aug. 2	+5.25	Oct. 26	+4.81
29	+5.11	June 19	+6.12	27	+5.25	Nov. 30	+4.51
Mar. 30	+5.54	July 18	+5.54	Sept. 28	+6.12	Dec. 28	+5.12
Apr. 30	+5.54						

TENNESSEE

By C. R. Lanphere and E. M. Cushing

Scope of Water-Level Program

The observation-well program in Tennessee was continued in 1952. The program in Memphis, begun in 1940, was carried on in cooperation with the Memphis Light, Gas and Water Division. The programs in west Tennessee, begun in 1947, and in central and east Tennessee, begun in 1949, are a part of the investigation of the ground-water resources of the State and are carried on in cooperation with the Tennessee Department of Conservation, Division of Geology. Measurements were made in 56 wells, 30 of which were equipped with recording gages. Figures 33 and 34 show the location of observation wells. A report covering a reconnaissance study of the ground-water resources of 28 counties in east Tennessee was prepared during the year. Also a report was prepared on the ground-water resources of the Central Basin of Tennessee.

Precipitation

The following table gives the annual precipitation and the departure from normal at Moscow, Brownsville, Milan, and Martin. These stations were selected because they are in the Tertiary outcrop belt of west Tennessee. Most of the municipal and industrial water supplies of west Tennessee are obtained from sands of Tertiary age.

Precipitation and departure from normal, 1940-52

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	-0.06	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

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 average daily quantities of water pumped from the "500-foot" and "1,400-foot" sands in the Memphis area since 1941:

Pumpage in the Memphis area

Year	"500-foot" sand (gallons)	"1,400-foot" sand (gallons)	Year	"500-foot" sand (gallons)	"1,400-foot" sand (gallons)
1941	75,000,000	9,000,000	1947	90,000,000	10,000,000
1942	85,000,000	9,000,000	1948	100,000,000	11,000,000
1943	100,000,000	11,000,000	1949	100,000,000	11,000,000
1944	105,000,000	11,000,000	1950	100,000,000	11,000,000
1945	95,000,000	9,000,000	1951	105,000,000	11,000,000
1946	85,000,000	9,000,000	1952	110,000,000	11,000,000

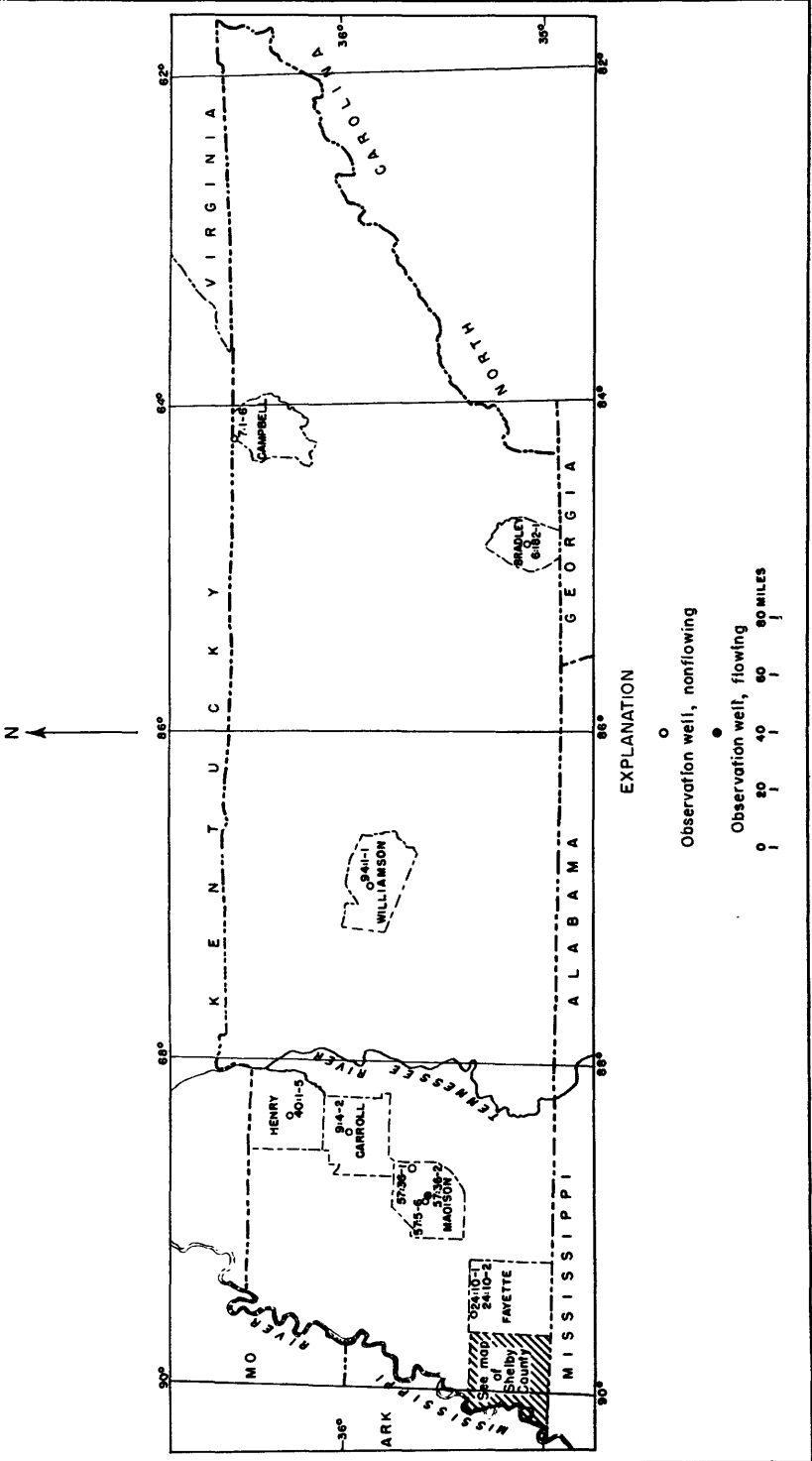


Figure 33.--Location of observation wells in Tennessee, 1952.

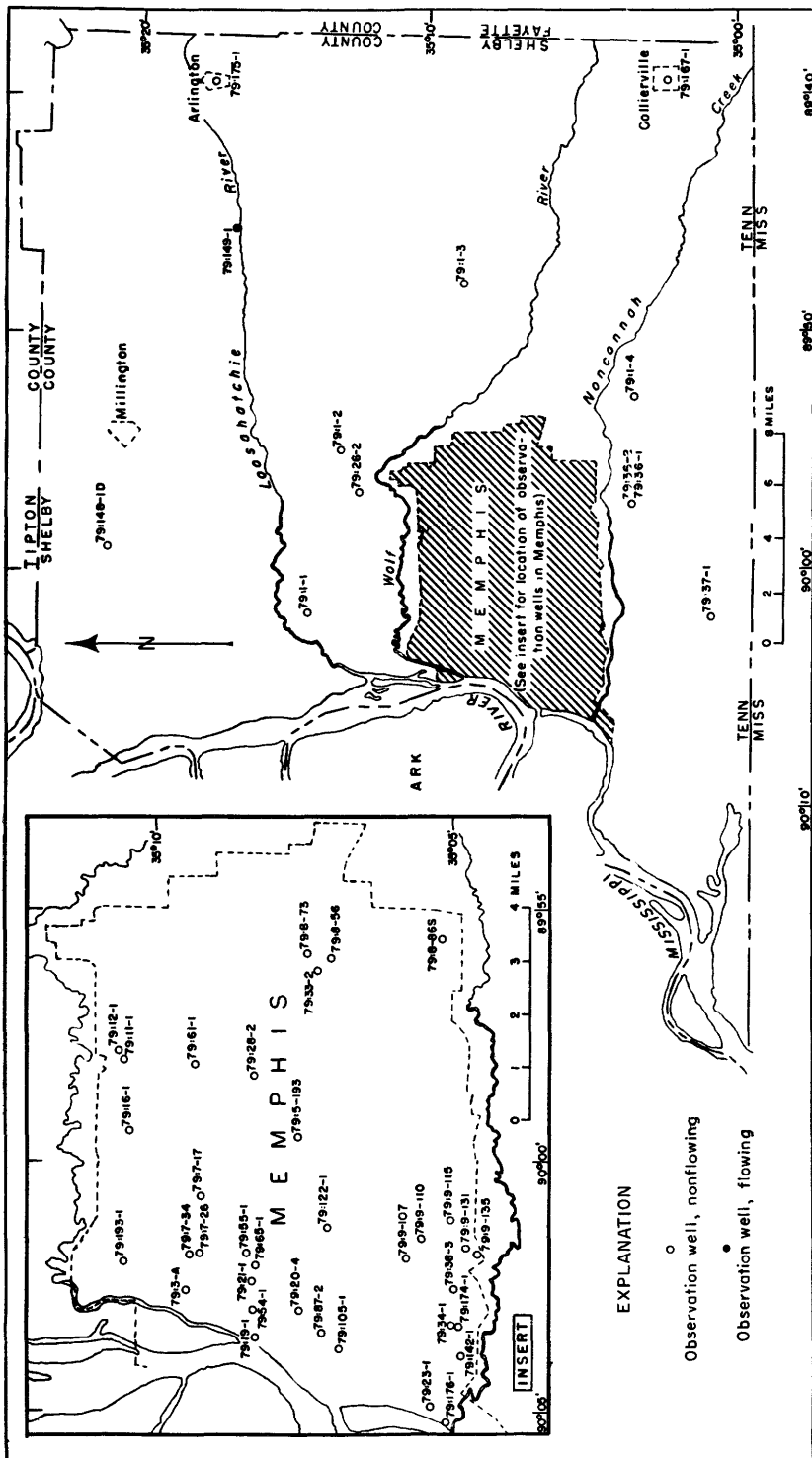


Figure 34. --Location of observation wells in Shelly County, Tenn., 1952.

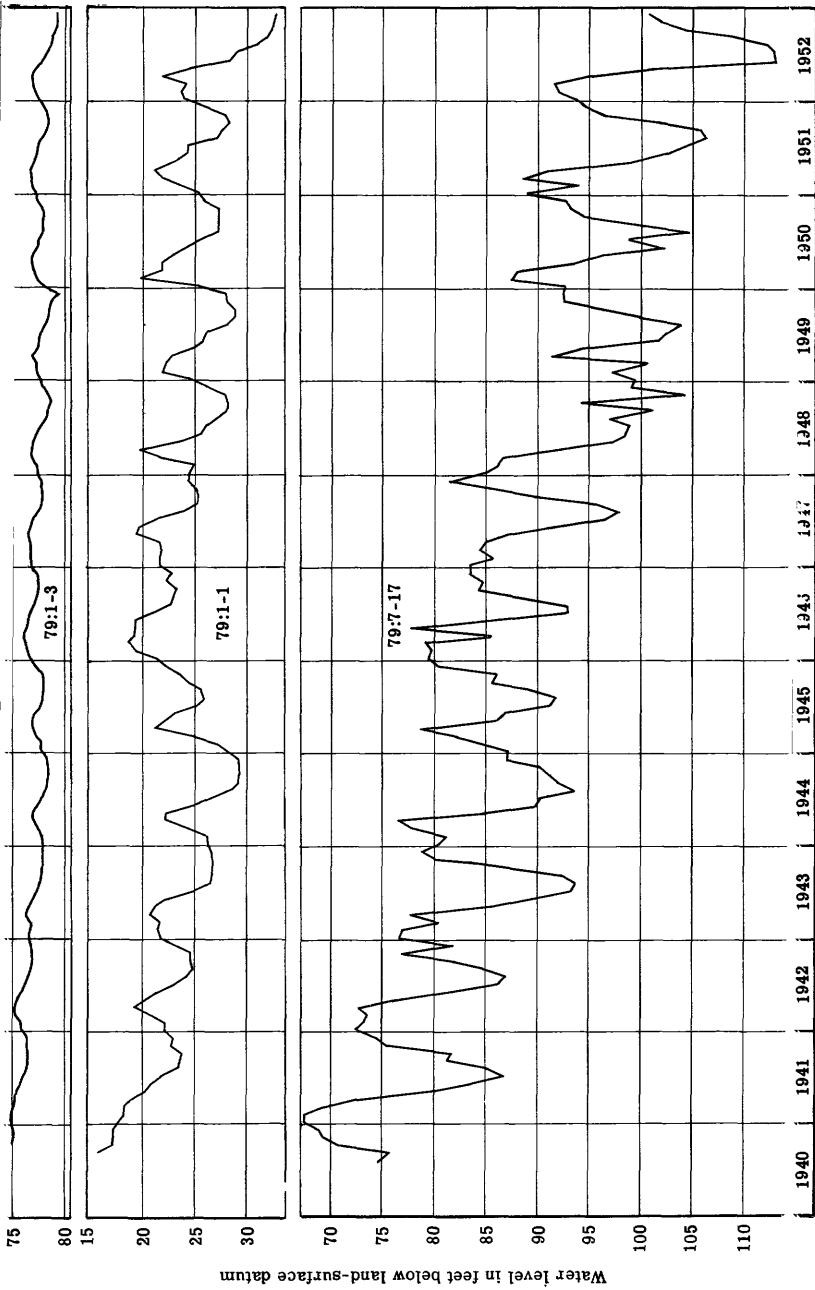


Figure 35. --Water levels in wells in the "500-foot" sand in the Memphis, Tenn., area, 1940-52.

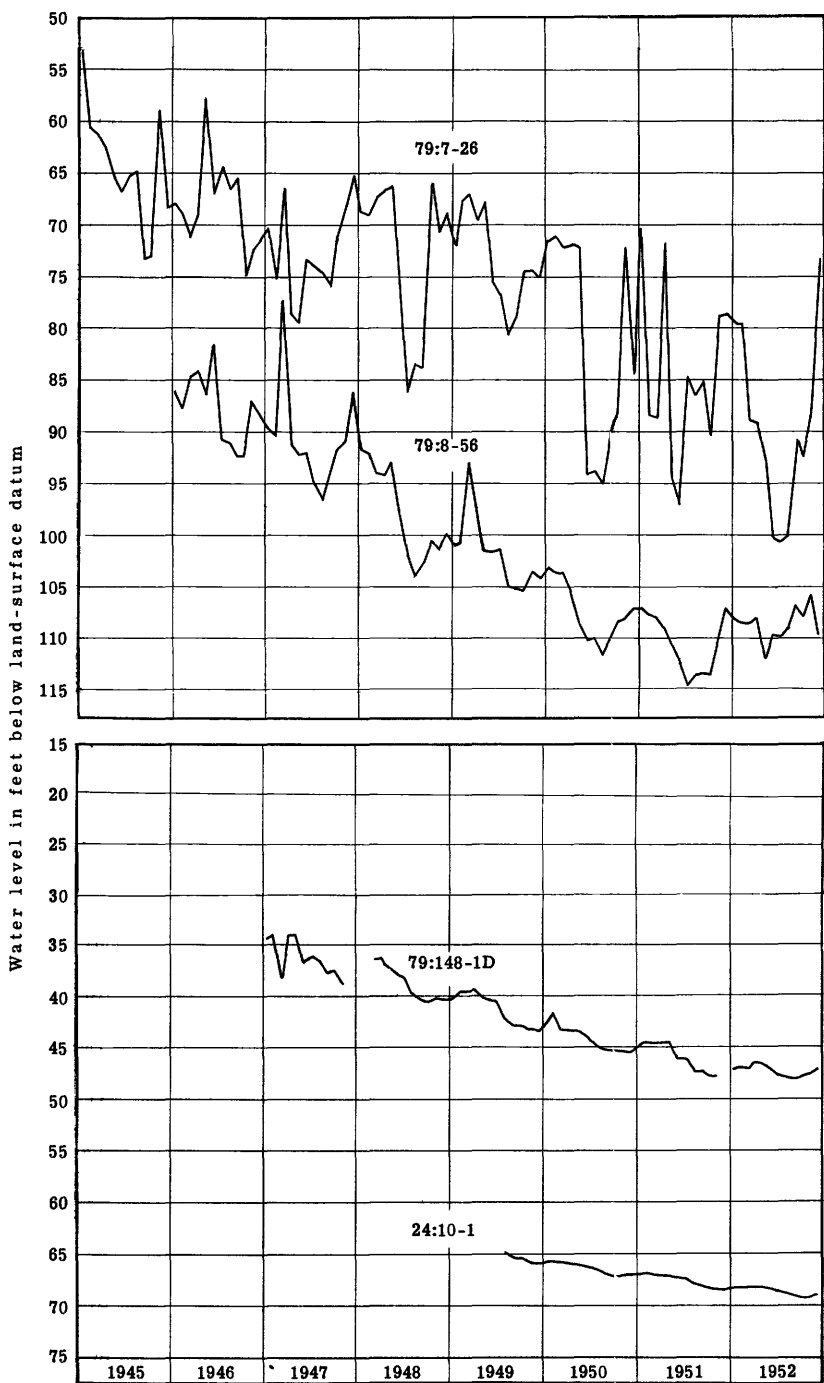


Figure 36. --Water levels in wells in the "1,400-foot" sand in the Memphis, Tenn., area.

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 1952. This fact can be attributed primarily to increased pumpage. The average daily pumpage from the "500-foot" sand, during the months of June, July, and August, was about 15, 10, and 5 million gallons more than the quantities pumped for the same three months of 1951. Based upon measurements made in 32 wells screened in this sand, water levels ranged from about 0.5 foot to about 12 feet lower than the lowest levels of 1951; the average decline in water level was 4.6 feet. The greatest lowering occurred in the area of the new Thomas H. Allen pumping station and well field in south Memphis. Based upon the measurements made in six observation wells in or near the new station, the average lowering of the water level was about 9 feet. Figure 35 shows the fluctuations of water levels in three wells screened in the "90-foot" sand. The water levels in well 79:1-1, about 7 miles north of Memphis, and in well 79:1-3, about 14 miles east of Memphis, have small yearly ranges of fluctuations and probably show the effect of all the pumping from the "500-foot" sand within the area. Well 79:7-17 is in the Parkway well field of the Memphis Light, Gas and Water Division. As might be expected, the yearly range in water level in an active well field is extremely large. The water levels in four observation wells screened in the "1,400-foot" sand of the Memphis area ranged from 2.6 feet higher to 3.8 feet lower than the lowest levels of 1951. Figure 36 shows the fluctuations of water levels in these four wells. Wells 79:7-26 and 79:8-56 are in the Parkway well field and the Sheahan well field, respectively, of the Memphis Light, Gas and Water Division. Well 79:148-1D is about 15 miles north of Memphis, and well 24:10-1 is about 30 miles northeast of Memphis. Water levels in observation wells in other areas of west Tennessee, with the exception of those in wells 9:4-2 and 40:1-5, declined during 1952. Slightly above-normal rainfall in the area of these two wells possibly caused the slight rises in water level.

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. Trehwhitt. 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 24.29 below lsd, Nov. 20, 1952. Records available: 1950-52.

Daily lowest water level from recorder graph

July	Apr.	May	June	July	Aug.	Nov.
1	.....	15.70	18.33	20.00	.....	.....
2	.....	15.83	18.38	20.06	.....	.....
3	.....	15.95	18.44	.....	.....	.....
4	.....	16.04	18.49	.....	.....	.....
5	.....	16.09	18.58	h20.25	.....	.....
6	.....	16.20	18.65	20.28	.....	.....
7	.....	16.27	18.69	20.30	.....	.....
8	.....	16.33	18.76	20.36	.....	.....
9	.....	16.38	18.85	20.41	.....	.....
10	.....	16.47	18.88	20.48	.....	.....
11	h13.64	16.66	18.94	20.51	.....	.....
12	13.67	16.72	18.99	20.53	.....	.....
13	13.71	16.76	19.08	20.56	.....	h24.17
14	13.97	16.78	19.12	20.59	.....	24.19
15	.....	16.79	19.15	20.63	.....	24.20

6:182-1--Continued.

Day	Apr.	May	June	July	Aug.	Nov.
16	.....	16.86	19.20	20.69	h21.91	24.22
17	.....	17.21	19.25	20.73	21.96	24.24
18	h14.57	17.28	19.30	.....	21.98	24.26
19	14.68	17.34	19.35	.....	22.03	24.27
20	14.81	17.44	19.42	.....	22.05	24.29
21	14.89	17.56	19.51	.....	.....	.....
22	14.99	17.64	19.53	.....	.....	.....
23	15.03	17.71	19.58	.....	.....	.....
24	15.09	17.76	19.61	.....	.....	.....
25	15.17	17.79	19.65	.....	.....	.....
26	15.24	17.89	19.70	.....	.....	.....
27	15.33	17.99	19.76	.....	.....	.....
28	15.41	18.03	19.84	.....	.....	.....
29	15.54	18.07	19.86	.....	.....	.....
30	15.63	18.15	19.91	.....	.....	.....
31	.....	18.23	.....	.....	.....	.....

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: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	74.58	.....	74.82	74.37	75.17	75.44	76.42	76.95	76.73	77.14	77.63	76.94
2	74.61	.....	74.82	74.56	75.24	75.47	76.47	76.94	76.80	77.28	77.64	76.88
3	74.73	.....	74.68	74.58	75.31	75.46	76.46	76.98	76.82	77.32	77.68	76.90
4	74.69	.....	74.38	74.57	75.34	75.46	76.45	77.02	76.83	77.32	77.69	76.91
5	74.62	74.47	73.98	74.68	75.33	75.50	76.49	77.06	76.82	77.30	77.58	76.83
6	74.74	74.50	74.10	74.76	75.36	75.58	76.54	76.96	76.83	77.34	77.67	76.67
7	74.74	74.50	74.21	74.77	75.40	75.60	h76.54	76.78	76.85	77.34	77.72	76.59
8	74.67	74.52	74.22	74.76	75.35	75.63	.....	76.68	76.90	77.31	77.73	76.58
9	74.68	74.57	74.27	74.80	75.37	75.67	.....	76.59	76.91	77.25	77.67	76.58
10	74.71	74.57	74.28	74.83	75.34	75.69	.....	76.57	76.90	77.33	h77.67	76.50
11	74.70	74.66	74.00	74.84	75.21	75.72	.....	76.60	76.91	77.40	.....	76.08
12	74.54	74.66	73.68	74.81	75.23	75.70	.....	76.63	76.94	77.30	.....	.....
13	74.51	74.62	73.86	74.77	75.24	75.78	.....	76.68	77.01	77.33	.....	.....
14	74.52	74.55	74.04	74.88	75.25	75.81	h76.68	76.68	77.02	77.33	.....	.....
15	74.65	74.50	74.22	74.98	75.21	75.84	76.70	76.64	76.95	77.36	.....	.....
16	74.66	74.45	74.29	75.03	75.28	75.83	76.76	76.66	76.93	77.36	.....	.....
17	74.63	74.34	74.32	75.05	75.33	75.86	76.67	76.75	76.92	77.42	h77.67	.....
18	74.65	74.35	74.28	75.05	75.32	76.02	76.58	76.76	76.93	77.43	77.67	h76.33
19	74.64	74.34	74.37	75.05	75.32	.....	76.55	76.76	77.01	77.43	77.58	76.34
20	74.67	74.41	74.36	75.10	75.31	.....	76.55	76.78	77.04	77.59	77.55	76.28
21	74.67	74.55	74.36	75.13	75.39	.....	76.60	76.81	77.04	77.59	77.55	76.33
22	74.51	74.56	74.32	75.15	75.40	.....	76.63	76.80	77.04	77.52	77.29	76.33
23	73.37	74.54	73.89	75.14	75.41	h76.13	76.68	76.81	77.08	77.47	76.94	76.42
24	73.61	74.62	73.81	75.11	75.39	76.13	76.70	76.85	77.08	77.46	h76.87	76.52
25	73.71	74.69	73.90	75.11	75.39	76.13	76.74	76.89	77.08	77.49	.....	76.50
26	73.85	74.67	74.04	75.10	75.47	76.21	76.76	76.90	77.08	77.53	.....	76.52
27	73.92	74.65	74.16	75.11	75.50	76.23	76.77	76.89	77.08	77.51	h76.87	76.57
28	73.92	74.62	74.26	75.10	75.49	76.28	76.76	76.86	77.18	77.58	76.87	76.59
29	74.01	74.61	74.38	75.13	75.47	76.30	76.82	76.90	77.18	77.65	76.85	76.59
30	h74.04	.....	74.42	75.17	75.38	76.32	76.87	76.87	77.18	77.65	76.94	76.52
31	.....	.....	74.41	.....	75.36	.....	76.94	76.85	.....	77.61	.....	76.63

h Tape measurement.

Carroll County

9:4-2. City of Huntington. 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: 1948-52.

9:4-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	1.25	May 23	1.53	Aug. 7	2.06	Oct. 31	2.80
Feb. 27	.94	June 20	1.97	Sept. 2	2.04	Nov. 26	1.69
Mar. 28	1.46	July 18	1.87	Oct. 1	2.28	Dec. 26	1.70
Apr. 24	.84						

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 69.30 below lsd, Oct. 29, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.37	68.29	68.24	68.11	68.13	.....	.....	68.73	68.92	69.03	69.17	69.15
2	68.39	68.22	68.22	68.16	68.15	.....	.....	68.73	68.91	69.13	69.21	.....
3	68.43	68.02	68.07	68.15	68.20	.....	.....	68.69	68.97	69.16	69.29	.....
4	68.29	68.12	68.25	68.12	68.25	.....	.....	68.72	68.98	69.12	69.29	.....
5	68.30	68.16	68.29	68.20	68.21	.....	.....	68.74	68.98	69.16	69.16	.....
6	68.41	68.26	68.31	68.24	68.22	.....	.....	.....	68.97	69.16	69.24	.....
7	68.39	68.28	68.33	68.23	68.22	.....	.....	.....	68.97	69.16	69.26	.....
8	68.24	68.25	68.29	68.17	68.20	.....	.....	.....	69.00	69.12	69.21	.....
9	68.36	68.27	68.18	68.20	68.16	.....	.....	.....	69.02	69.07	69.14	.....
10	68.49	68.24	68.06	68.28	68.16	.....	.....	.....	69.02	69.11	69.08	.....
11	68.45	68.23	68.11	68.23	68.23	.....	.....	h68.67	69.00	69.14	69.12	.....
12	68.38	68.20	68.10	68.07	68.25	.....	.....	68.78	68.98	69.11	69.12	.....
13	68.33	68.15	68.11	68.03	68.29	.....	.....	68.81	69.00	69.10	69.10	.....
14	68.27	68.16	68.16	68.12	68.25	.....	.....	68.80	68.99	.....	69.05	.....
15	68.30	68.16	68.24	68.18	68.20	.....	.....	68.78	69.01	.....	69.08	.....
16	68.30	68.15	68.24	68.22	68.22	.....	.....	68.81	69.00	.....	69.10	.....
17	68.30	68.22	68.20	68.24	68.24	.....	.....	68.83	68.95	.....	69.10	.....
18	68.36	68.22	68.05	68.21	68.25	.....	h68.69	68.87	68.88	.....	69.08	.....
19	68.25	68.15	68.08	68.18	68.24	.....	68.73	68.83	68.97	.....	69.02	.....
20	.....	68.20	68.06	68.18	68.23	h68.43	68.70	68.85	69.02	69.27	69.04	.....
21	.....	68.25	68.06	68.19	68.28	.....	68.72	68.87	69.02	69.28	69.05	.....
22	.....	68.24	68.11	68.19	68.28	.....	68.74	68.89	69.02	69.25	69.09	.....
23	.....	68.19	68.14	68.14	68.30	.....	68.75	68.89	69.05	69.22	69.12	.....
24	.....	68.21	68.12	68.13	68.24	.....	68.76	68.92	69.07	69.18	69.12	.....
25	.....	68.25	68.16	68.15	68.24	.....	68.75	68.93	69.06	69.17	68.99	.....
26	.....	68.22	68.20	68.12	68.27	.....	68.77	68.94	69.05	69.18	69.13	h68.04
27	.....	68.20	68.24	68.13	68.28	.....	68.76	68.94	69.05	69.16	69.20	.....
28	h68.20	68.10	68.22	68.14	68.29	.....	68.73	68.90	69.06	69.24	69.22	68.02
29	68.34	68.15	68.23	68.13	68.23	.....	68.73	68.92	69.10	69.20	69.17	68.00
30	68.36	.....	68.22	68.15	.....	.....	68.73	68.91	69.08	69.25	69.19	68.91
31	68.32	.....	68.13	.....	.....	.....	68.71	68.90	.....	69.19	.....	68.95

h Tape measurement.

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 39.02 below lsd, Dec. 25-26, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.12	.....	37.70	37.50	37.51	37.71	38.01	38.21	38.42	38.60	38.78	38.94
2	38.17	.....	37.68	37.56	37.52	37.73	38.03	38.21	38.41	38.69	38.82	38.84
3	38.21	.....	37.57	37.55	37.58	37.71	38.03	38.20	38.48	38.72	38.90	38.84
4	38.12	.....	37.76	37.46	37.62	37.71	38.00	38.21	38.51	38.68	38.90	38.81
5	38.08	.....	37.85	37.59	37.59	37.70	38.01	38.22	38.51	38.70	38.80	38.84
6	38.16	.....	37.88	37.64	37.58	37.75	38.02	38.23	38.51	38.72	38.86	38.84
7	38.15	.....	37.90	37.65	37.59	37.77	38.02	38.22	38.50	38.72	38.88	38.83
8	37.96	.....	37.84	37.59	37.56	37.75	38.01	38.22	38.52	38.70	38.85	38.81
9	38.06	.....	37.69	37.58	37.52	37.77	38.03	38.22	38.54	38.64	38.78	37.80
10	38.23	.....	37.52	37.63	37.56	37.77	38.04	38.23	38.53	38.70	38.75	38.86

24:10-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
11	38.22	.....	37.55	37.63	37.60	37.78	38.09	38.25	38.52	38.71	38.80	38.89
12	38.14	.....	37.55	37.48	37.64	37.76	38.10	38.29	38.50	38.70	38.83	38.92
13	38.06	.....	37.52	37.39	37.68	37.79	38.10	38.32	38.52	38.69	38.81	38.92
14	37.96	.....	37.57	37.50	37.65	37.81	38.09	38.32	38.52	38.69	38.77	38.95
15	38.00	.....	37.67	37.58	37.57	37.82	38.08	38.29	38.54	38.74	38.81	38.96
16	38.00	.....	37.69	37.63	37.60	37.80	38.11	38.29	38.54	38.76	38.84	38.96
17	38.03	.....	37.65	37.65	37.62	37.81	38.12	38.33	38.49	38.77	38.84	38.94
18	38.03	.....	37.53	37.62	37.63	37.85	38.16	38.36	38.54	38.80	38.81	38.93
19	37.98	.....	37.46	37.58	37.63	37.85	38.17	38.35	38.44	38.76	38.78	38.93
20	38.02	.....	37.48	37.55	37.62	37.86	38.14	38.36	38.59	38.86	38.82	38.92
21	.....	.....	37.47	37.55	37.67	37.87	38.15	38.37	38.60	38.86	38.83	38.93
22	.....	.....	37.47	37.54	37.67	37.91	38.17	38.39	38.60	38.84	38.87	38.88
23	.....	.....	37.55	37.50	37.68	37.93	38.18	38.40	38.62	38.80	38.91	38.97
24	.....	.....	37.56	37.49	37.62	37.92	38.20	38.40	38.63	38.78	38.90	38.99
25	.....	.....	37.57	37.51	37.64	37.91	38.19	38.42	38.62	38.76	38.78	38.92
26	.....	.....	37.61	37.50	37.68	37.94	38.21	38.44	38.61	38.78	38.92	39.02
27	.....	h37.71	37.66	37.51	37.69	37.96	38.20	38.43	38.60	38.77	38.98	39.00
28	h37.90	37.64	37.66	37.52	37.70	37.97	38.19	38.40	38.62	38.84	39.00	39.02
29	.....	37.60	37.66	37.51	37.66	37.97	38.17	38.42	38.65	38.89	38.96	39.00
30	.....	.....	37.65	37.53	37.65	37.97	38.16	38.41	38.64	38.86	38.96	38.92
31	.....	.....	37.57	.....	37.66	.....	38.19	38.41	.....	38.80	.....	38.96

h Tape measurement.

Henry County

40:1-5. Paris Board of Public Utilities. Fentress and West Blythe Sts. Lat. 36°18', long. 88°20'. Drilled untesed artesian well in sand of Ripley formation, diameter 8 inches, depth 425 feet. Land-surface datum is about 510 feet above msl. Highest water level 105.68 below lsd, Mar. 30, 1950; lowest 116.06 below lsd, July 2, 1951. Records available: 1945, 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	113.17	May 23	109.65	Aug. 7	109.83	Oct. 31	110.84
Feb. 27	109.14	June 20	111.94	Sept. 2	111.90	Nov. 26	109.70
Mar. 28	109.28	July 18	110.00	Oct. 1	110.97	Dec. 26	106.84
Apr. 24	109.19	.....	.....	.....	.....	.....	.....

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, 1947-52.

Jan. 28	43.84	May 23	c53.74	Aug. 7	c63.98	Oct. 31	36.58
Feb. 27	c47.72	June 20	c62.92	Sept. 2	c61.84	Nov. 26	c49.37
Mar. 28	37.10	July 18	c63.97	Oct. 1	c50.29	Dec. 26	38.19
Apr. 24	28.59	.....	.....	.....	.....	.....	.....

c Nearby well being pumped.

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 126.57 below lsd, Sept. 30, 1949. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	125.21	125.09	124.96	124.76	124.81	125.01	125.34	125.60	125.70	125.80	125.94	125.95
2	125.23	125.02	124.96	124.79	124.82	125.03	125.37	125.59	125.60	125.85	125.96	125.85
3	125.25	124.86	124.84	124.79	124.86	125.03	125.38	125.59	125.65	125.85	126.02	125.85
4	125.20	124.90	124.93	124.74	124.89	125.03	125.36	125.59	125.67	125.85	126.02	125.82
5	125.14	124.95	124.95	124.82	124.87	125.04	125.38	125.59	125.67	125.85	125.96	125.76
6	125.23	125.01	124.96	124.85	124.88	125.07	125.38	125.55	125.67	125.86	125.99	125.76
7	125.23	125.03	124.97	124.86	124.89	125.08	125.38	125.55	125.67	125.86	126.01	125.75
8	125.12	125.01	124.95	124.81	124.87	125.08	125.36	125.54	125.70	125.85	126.00	125.75
9	125.16	125.02	124.89	124.83	124.86	125.09	125.38	125.53	125.70	125.85	125.96	125.72
10	125.29	125.00	124.81	124.86	124.83	125.10	125.38	125.55	125.71	125.85	125.87	125.75

57:36-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
'1	125.29	125.01	124.79	124.85	124.88	125.11	125.42	125.55	125.70	125.84	125.89	125.76
'2	125.22	124.99	124.79	124.86	124.91	125.11	125.45	125.58	125.70	125.84	125.91	125.78
'3	125.18	124.93	124.78	124.69	124.94	125.14	125.45	125.56	125.72	125.83	125.90	125.78
'4	125.14	124.92	124.82	124.75	124.93	125.16	125.45	125.56	125.72	125.83	125.88	125.81
'5	125.17	124.92	124.88	124.81	124.88	125.17	125.45	125.53	125.63	125.84	125.88	125.82
'6	125.18	124.90	124.88	124.84	124.91	125.16	125.47	125.53	125.64	125.87	125.90	125.82
'7	125.15	124.96	124.86	124.86	124.92	125.17	125.49	125.58	125.62	125.88	125.90	125.81
18	125.21	124.96	124.77	124.84	124.93	125.20	125.52	125.60	125.62	125.91	125.90	125.81
19	125.17	124.93	124.76	124.83	124.91	125.20	125.52	125.59	125.67	125.91	125.84	125.81
20	125.18	124.94	124.76	124.83	124.91	125.23	125.50	125.60	125.70	125.98	125.83	125.80
21	125.18	124.97	124.76	124.84	124.95	125.24	125.51	125.62	125.72	125.98	125.83	125.80
22	125.08	124.96	124.74	124.84	124.96	125.27	125.52	125.64	125.72	125.98	125.90	125.77
23	125.20	124.92	124.77	124.82	125.00	125.29	125.53	125.65	125.76	125.95	125.90	125.82
24	125.20	124.93	124.76	124.80	124.94	125.28	125.55	125.66	125.76	125.94	125.90	125.85
25	125.16	124.95	124.78	124.79	124.94	125.28	125.55	125.69	125.76	125.92	125.86	125.87
26	125.07	124.93	124.81	124.77	124.98	125.30	125.56	125.70	125.76	125.94	125.90	125.87
27	125.03	124.93	124.84	124.78	124.99	125.31	125.56	125.70	125.77	125.92	125.96	125.88
28	125.02	124.88	124.88	124.79	125.00	125.32	125.55	125.70	125.79	125.98	125.97	125.87
29	125.07	124.88	124.88	124.79	124.98	125.34	125.54	125.70	125.81	126.02	125.95	125.86
30	125.10		124.88	124.81	124.97	125.33	125.57	125.70	125.81	126.01	125.96	125.80
31	125.09		124.83		124.97		125.60	125.70		125.96		125.83

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: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+46.0	May 19	+47.0	Aug. 4	+46.5	Oct. 20	+46.5
Feb. 18	46.5	26	47.0	11	46.5	27	46.5
25	46.5	June 2	46.5	18	46.5	Nov. 3	46.0
Mar. 3	47.0	9	47.0	25	46.5	10	46.5
26	46.0	16	47.0	Sept. 1	46.5	17	47.0
31	46.5	23	47.0	16	46.5	24	46.5
Apr. 15	47.0	30	46.5	22	46.5	Dec. 1	47.0
21	47.0	July 7	46.5	29	46.5	8	47.0
28	47.0	14	46.5	Oct. 6	46.5	15	47.0
May 5	47.0	21	46.5	13	46.5	29	47.0
12	47.0	28	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 33.30 below lsd, Dec. 14, 1952. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.07	24.20	24.20	20.80	22.27	24.94	28.80	29.69	31.50	32.46	32.76	32.96
2	24.04	24.03	24.20	20.82	22.30	24.90	28.91	29.83	31.40	32.69	32.76	32.82
3	23.92	23.74	24.17	20.82	22.40	24.81	29.00	29.93	31.31	32.78	32.74	32.83
4	23.73	23.52	24.29	20.86	22.42	24.92	29.10	29.97	31.33	32.79	32.64	32.95
5	23.68	23.44	24.30	21.01	22.33	25.11	29.10	30.03	31.38	32.80	32.32	33.04
6	23.87	23.40	24.48	21.08	22.18	25.35	29.00	30.10	31.41	32.80	32.31	33.05
7	23.92	23.40	24.54	21.10	22.16	25.53	28.83	30.23	31.44	32.72	32.36	33.11
8	23.89	23.27	24.52	21.08	22.20	25.70	28.60	30.35	31.44	32.67	32.36	33.09
9	24.05	23.13	24.41	21.17	22.33	25.80	28.51	30.44	31.43	32.74	32.34	33.03
10	24.23	23.00	24.24	21.39	22.65	25.92	28.50	30.46	31.48	32.80	32.38	33.08
11	24.23	22.83	24.08	21.46	22.90	26.11	28.59	30.44	31.56	32.83	32.43	33.12
12	24.18	22.75	24.01	21.50	23.11	26.36	28.65	30.42	31.66	32.85	32.45	33.22
13	24.15	22.55	23.69	21.68	23.22	26.65	28.68	30.52	31.79	32.80	32.47	33.27
14	24.09	22.48	23.87	21.77	23.27	26.92	28.63	30.57	31.83	32.72	32.54	33.30
15	24.00	22.48	23.83	21.94	23.42	27.08	28.56	30.61	31.83	32.77	32.60	33.29

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79:1-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	23.97	22.60	23.65	22.02	23.60	27.21	28.61	30.76	31.79	32.82	32.60	33.28
17	23.90	22.70	23.27	22.07	23.81	27.36	28.69	30.85	31.84	32.90	32.56	33.23
18	24.01	22.70	22.83	22.10	23.94	27.53	28.78	30.87	32.01	32.94	32.44	33.23
19	24.05	22.69	22.49	22.13	23.96	27.65	28.84	30.81	32.21	32.91	32.32	33.23
20	24.28	22.80	22.31	22.17	24.02	27.82	28.84	30.90	32.29	32.92	32.42	33.20
21	24.28	22.96	22.17	22.16	24.11	27.98	28.80	31.05	32.32	32.92	32.50	33.21
22	24.29	23.15	21.96	22.13	24.25	28.13	28.75	31.13	32.32	32.86	32.62	33.14
23	24.41	23.50	21.96	22.11	24.34	28.20	28.76	31.17	32.29	32.85	32.73	33.18
24	24.41	23.70	21.85	22.21	24.44	28.24	28.84	31.18	32.32	32.85	32.74	33.22
25	24.38	23.78	21.77	22.26	24.56	28.37	28.95	31.18	32.40	32.89	32.68	33.23
26	24.35	23.78	21.71	22.30	24.60	28.53	29.07	31.13	32.47	32.93	32.92	33.20
27	24.36	23.82	21.61	22.34	24.64	28.69	29.11	31.18	32.53	32.85	33.05	32.96
28	24.33	23.82	21.51	22.33	24.74	28.79	29.14	31.26	32.54	32.79	33.06	32.76
29	24.20	24.03	21.34	22.28	24.82	28.84	29.20	31.34	32.51	32.82	33.02	32.63
30	24.24		21.23	22.26	24.88	28.83	29.32	31.41	32.44	32.76	32.98	32.47
31	24.27		21.04		24.93		29.51	31.48		32.73		32.55

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 80.97 below lsd, Dec. 24-26, 1952. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	76.03	75.57	75.02	.....	75.91	78.42	78.76	80.18	80.15	80.44	80.64
2	.....	75.97	75.53	74.96	74.95	76.02	78.49	78.85	80.14	80.29	80.46	80.58
3	h76.49	75.74	75.37	74.91	74.96	76.05	78.53	78.95	80.18	80.33	80.56	80.58
4	76.39	h75.63	75.38	74.76	74.97	76.08	78.57	79.03	80.20	80.32	80.56	80.54
5	76.27	75.65	75.38	74.77	74.98	76.20	78.56	79.05	80.18	80.38	80.47	80.58
6	76.28	75.70	75.36	74.79	74.98	76.30	78.51	79.06	80.13	80.41	80.52	80.61
7	76.26	75.73	75.37	74.77	74.98	76.37	78.44	79.01	80.10	80.41	80.54	80.62
8	76.19	75.77	75.36	74.71	74.97	76.52	78.37	79.03	80.09	80.41	80.52	80.58
9	76.30	75.80	75.30	74.78	74.96	76.62	78.31	79.08	80.12	80.40	80.43	80.57
10	76.43	75.79	75.16	74.87	74.96	76.72	78.23	79.14	80.10	80.47	80.25	80.64
11	76.43	75.79	75.20	74.89	75.02	76.80	78.16	79.21	80.07	80.52	80.26	80.66
12	76.35	75.79	75.16	74.79	75.09	76.79	78.15	79.33	80.05	80.53	80.28	80.71
13	76.34	75.67	75.04	74.66	75.15	76.85	78.11	79.38	80.07	80.50	80.26	80.73
14	h76.19	75.59	75.17	74.67	75.15	76.93	78.05	79.43	.....	80.50	80.22	80.76
15	76.28	75.58	75.33	74.70	75.18	76.99	78.00	79.46	80.11	80.53	80.26	80.80
16	76.32	75.67	75.36	74.75	75.24	77.10	77.98	79.55	80.14	80.55	80.29	80.81
17	76.31	.....	75.33	74.80	75.27	77.20	77.98	79.63	80.11	80.59	80.28	80.81
18	76.34	h75.60	75.24	74.84	75.29	77.31	78.02	79.69	79.98	80.63	80.26	80.82
19	76.30	75.57	75.19	74.82	75.35	77.38	78.03	79.73	80.07	80.62	80.19	80.83
20	76.36	75.54	75.16	74.78	75.43	77.44	78.02	79.82	80.11	80.63	80.22	80.88
21	76.35	75.54	.....	74.75	75.49	77.54	78.03	79.93	80.14	80.63	80.28	80.89
22	76.20	75.49	.....	74.74	75.54	77.64	78.07	79.97	80.14	80.61	80.33	80.81
23	76.23	75.43	.....	74.71	75.58	77.74	78.08	80.00	80.11	80.58	80.39	80.94
24	76.22	75.44	h75.08	.....	75.50	77.80	78.14	80.02	80.15	80.55	80.39	80.97
25	76.10	75.48	75.14	h74.83	75.54	77.90	78.22	80.06	80.15	80.52	80.31	80.97
26	76.02	75.48	75.16	74.89	75.62	78.01	78.32	80.09	80.13	80.52	80.50	80.97
27	75.99	75.48	75.24	74.90	75.68	78.12	78.37	80.11	80.13	80.48	80.58	80.88
28	75.99	75.41	75.24	74.89	75.74	78.23	78.44	80.12	80.14	80.53	80.61	80.82
29	76.08	75.51	75.28	74.91	75.76	78.28	78.57	80.15	80.15	80.57	80.61	80.72
30	76.08		75.27	74.95	75.78	78.35	78.61	80.17	80.16	80.54	80.64	80.59
31	76.04		75.17		75.85		78.70	80.19		80.47		80.56

h Tape measurement.

79:1-3. Memphis Light, Gas and Water Division. Lat. 35°08'59", long. 89°47'59".
 Drilled observation artesian well in sand of Claiborne group, diameter 6 inches, depth 384 feet.
 Land-surface datum is 330.4 feet above msl. Highest water level 74.08 below lsd, Dec. 27, 1940;
 lowest 79.53 below lsd, Dec. 5, 1949. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.33	77.02	76.73	76.42	76.61	77.10	77.80	78.15	78.54	78.71	78.92	79.15
2	77.36	76.88	76.70	76.49	76.64	77.14	77.90	78.12	78.59	78.84	78.97	79.00
3	77.43	76.61	76.55	76.48	76.73	77.17	77.88	78.12	78.66	78.88	79.07	79.00
4	77.33	76.63	76.80	76.42	76.78	77.17	77.88	78.17	78.66	78.83	.....	79.00
5	77.25	76.67	76.85	76.56	76.75	77.18	77.90	78.23	78.69	78.87	.....	79.04

79:1-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	77.34	76.79	76.82	76.61	76.74	77.22	77.87	78.21	78.72	78.89	.....	79.03
7	77.33	76.82	76.79	76.60	76.76	77.25	77.86	78.15	78.65	78.89	.....	79.01
8	77.15	76.78	76.71	76.51	76.72	77.23	77.87	78.15	78.63	78.86	.....	78.98
9	77.20	76.78	76.54	76.52	76.68	77.28	77.89	78.14	78.68	78.77	.....	78.96
10	77.43	76.76	76.35	76.60	76.73	77.29	77.90	78.19	78.68	78.85	h78.93	79.06
11	77.43	76.75	76.44	76.56	76.82	77.31	77.97	78.20	78.65	78.88	.....	79.09
12	.....	76.74	76.44	76.43	76.87	77.31	78.00	78.25	78.62	78.87	.....	79.10
13	.....	76.63	76.36	76.37	76.90	77.38	78.00	78.28	78.64	78.84	.....	79.10
14	h77.09	76.71	76.43	76.48	76.88	77.40	77.95	78.29	78.66	78.83	.....	79.12
15	77.18	76.72	76.54	76.56	76.80	77.40	77.89	78.26	78.67	78.90	.....	79.12
16	77.19	76.68	76.56	76.61	76.83	77.43	77.92	.....	78.67	78.92	.....	79.12
17	77.17	76.78	76.51	76.63	76.87	77.50	77.94	.....	78.60	78.94	h79.00	79.10
18	77.26	76.79	76.34	76.56	76.88	77.52	77.98	h78.38	78.57	78.98	79.01	79.08
19	77.18	76.72	76.35	76.50	76.90	77.54	77.98	78.37	78.70	78.95	78.98	79.08
20	77.26	76.75	76.37	76.49	76.91	77.56	78.02	78.41	78.74	79.04	78.97	79.08
21	77.25	76.80	76.38	76.50	76.97	77.58	78.01	78.46	78.75	79.04	78.98	79.10
22	77.19	76.77	76.46	76.51	76.99	77.63	78.04	78.50	78.74	79.00	79.04	79.05
23	77.40	76.68	76.52	76.47	77.01	77.64	78.07	78.53	78.76	78.95	79.04	79.16
24	.....	76.64	76.50	76.49	76.94	77.68	78.07	78.53	78.76	78.92	79.03	79.20
25	.....	76.69	76.48	76.53	76.96	77.64	78.10	78.54	.....	78.91	78.96	79.23
26	.....	76.68	76.51	76.53	77.00	77.69	78.10	78.55	.....	.....	79.18	79.23
27	.....	76.66	76.55	76.55	77.02	77.72	78.08	78.55	.....	h78.86	79.24	79.19
28	h77.08	76.55	76.55	76.59	77.03	77.78	78.04	78.52	.....	79.06	79.25	79.19
29	77.19	76.55	76.55	76.59	77.02	77.79	78.11	78.54	h78.76	79.10	79.19	79.15
30	.....	.....	76.54	76.62	77.00	77.77	78.11	78.54	78.77	79.03	79.17	79.06
31	.....	.....	76.46	.....	77.02	.....	78.14	78.53	.....	78.97	.....	79.15

h Tape measurement.

79:1-4. Memphis Light, Gas and Water Division. Lat. 35°03'03", long. 89°51'37".

Filled 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 84.47 below lsd, Nov. 28-29, 1952. Records available: 1940, 1946-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	83.27	83.40	83.00	82.84	82.90	83.09	83.73	83.95	84.16	84.20	.....	84.42
2	83.35	83.31	83.01	82.92	82.90	83.15	83.77	83.94	84.19	84.22	.....	84.24
3	83.44	83.00	82.96	82.92	82.94	83.15	83.79	83.92	84.25	84.28	84.33	84.23
4	83.44	82.92	83.05	82.90	82.98	83.15	83.80	83.93	84.27	84.28	84.34	84.22
5	83.35	83.04	83.21	82.94	82.98	83.13	83.80	83.93	84.27	84.26	84.30	84.25
6	83.41	83.14	83.26	83.02	82.98	83.19	83.80	83.93	84.26	84.29	84.23	84.26
7	83.43	83.20	83.28	83.03	82.98	83.22	83.78	83.90	84.24	84.31	84.30	84.26
8	83.40	83.20	83.27	83.01	82.96	83.23	83.77	83.90	84.22	84.30	84.31	84.24
9	83.23	83.19	83.19	82.95	82.92	83.26	83.76	83.90	84.23	84.23	84.28	84.22
10	83.44	83.19	83.02	82.98	82.87	83.28	83.76	83.91	84.22	84.22	84.17	84.26
11	83.50	83.14	82.86	83.00	82.97	83.30	83.77	83.94	84.21	84.25	84.24	84.30
12	83.50	83.13	82.90	82.94	83.04	83.30	83.81	83.97	84.18	84.25	84.26	84.35
13	83.44	83.05	82.88	82.73	83.07	83.33	83.82	83.99	84.17	84.23	84.26	84.36
14	83.35	83.04	82.95	82.86	83.07	83.37	83.81	84.00	84.18	84.22	84.24	84.37
15	83.28	83.08	83.06	82.97	83.01	83.39	83.79	84.00	84.21	84.24	84.22	84.39
16	83.29	83.08	83.10	83.03	82.97	83.40	83.80	83.99	84.21	84.27	84.26	84.40
17	83.29	83.14	83.10	83.05	83.00	83.42	83.81	84.02	84.19	84.28	84.27	84.39
18	83.31	83.18	83.00	83.04	83.01	83.46	83.85	84.06	84.11	84.30	84.27	84.35
19	83.31	83.18	82.84	83.02	83.04	83.48	83.86	84.07	84.16	84.30	84.21	84.35
20	83.30	83.12	82.87	82.97	83.04	83.50	83.84	84.08	84.23	84.30	84.23	84.29
21	83.31	83.19	82.87	82.95	83.07	83.52	83.84	84.09	84.26	84.35	84.27	84.32
22	83.21	83.19	82.84	82.94	83.07	83.57	83.84	84.11	84.26	84.35	84.30	84.31
23	83.39	83.18	82.96	82.92	83.07	83.61	83.86	84.13	84.27	84.33	84.36	84.30
24	83.46	83.12	82.98	82.88	83.02	83.62	83.87	84.14	84.27	84.29	84.36	84.38
25	83.46	83.10	82.98	82.89	83.03	83.61	83.89	84.20	84.27	84.24	84.30	84.43
26	83.31	83.11	83.00	82.88	83.06	83.64	83.90	84.21	84.25	84.24	84.31	84.44
27	83.21	83.09	83.04	82.88	83.07	83.66	83.92	84.21	84.21	84.23	84.43	84.43
28	83.25	83.05	83.06	82.90	83.07	83.69	83.91	84.19	84.19	84.28	84.47	84.41
29	83.36	82.90	83.06	82.90	83.07	83.70	83.90	84.17	84.22	.....	84.47	84.40
30	83.41	.....	83.06	82.90	83.07	83.71	83.90	84.17	84.22	.....	84.42	84.31
31	83.41	.....	83.02	.....	83.05	.....	83.92	84.16	.....	.....	.....	84.21

230 WATER LEVELS AND ARTESIAN PRESSURES, 1952, SOUTHEASTERN STATES

79:3-A. Memphis Light, Gas and Water Division. Fifth St. and Sycamore Ave. Lat. 35°09'24", long. 90°02'33". Unused work shaft connected to artesian wells in sand of Claiborne group, diameter 30 inches, depth 98 feet. Land-surface datum is 229.7 feet above msl. Highest water level 19.09 below lsd, Apr. 1, 1933; lowest 69.7 below lsd, Aug. 2-3, 1952. Records available: 1927-32, 1936-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.4	54.6	55.8	50.6	56.8	61.6	69.4	69.6	69.4	67.4	64.2	62.0
2	53.2	54.6	55.8	50.9	57.8	60.8	69.5	69.7	69.1	68.1	64.2	61.7
3	52.8	54.2	55.3	51.1	58.3	61.2	69.6	69.7	68.8	68.3	63.8	....
4	53.0	53.4	55.2	51.3	58.3	62.2	69.6	69.4	68.8	68.3	63.3	62.4
5	53.2	53.0	55.3	51.3	57.6	63.2	69.3	69.4	68.7	68.2	63.2	62.7
6	53.2	53.0	55.4	51.0	58.3	64.0	68.7	69.4	68.8	67.6	63.4	63.0
7	53.0	53.0	55.4	50.3	59.2	64.5	67.7	69.4	68.8	66.7	63.7	63.0
8	53.3	53.1	55.4	50.8	60.0	64.5	67.6	69.5	68.0	66.1	63.8	62.7
9	54.0	53.3	55.2	51.7	60.7	64.3	67.6	69.5	68.0	65.6	63.8	62.8
10	54.7	53.3	54.6	52.5	60.9	64.7	67.8	69.4	68.0	65.5	63.4	63.0
11	54.9	53.2	54.0	52.8	60.9	65.5	68.3	69.1	69.0	65.8	63.1	63.0
12	55.0	53.0	54.0	52.8	59.6	66.5	68.5	69.3	69.4	65.8	63.1	63.2
13	54.9	53.2	54.0	52.8	58.4	67.4	68.4	69.4	69.4	65.5	63.2	63.2
14	54.2	53.8	54.2	52.1	58.5	68.1	68.0	69.4	69.4	65.2	63.2	63.2
15	54.2	54.2	54.4	51.4	59.2	68.2	68.2	69.5	69.0	65.4	63.3	62.7
16	54.5	54.2	54.4	52.1	60.2	67.7	68.5	69.5	68.8	65.5	63.3	62.4
17	54.9	54.1	53.8	52.8	60.8	68.0	68.8	69.5	68.8	65.7	63.0	62.5
18	55.1	53.5	53.3	53.3	60.8	68.5	69.0	69.4	68.8	65.7	62.8	62.7
19	55.3	53.3	53.2	53.6	60.2	69.0	69.1	69.4	69.0	65.6	62.9	....
20	55.3	53.6	53.2	53.6	59.4	69.4	69.1	69.5	69.0	65.1	63.1	63.3
21	55.0	53.9	53.5	53.0	59.5	69.4	68.5	69.5	69.0	64.7	63.3	63.3
22	54.9	54.0	53.6	53.2	60.5	69.4	68.1	69.5	68.4	64.6	63.4	62.8
23	55.1	54.2	53.6	54.1	61.5	69.1	68.5	69.5	67.6	64.5	63.4	62.5
24	55.2	54.2	52.7	54.6	61.6	69.1	68.9	69.5	67.4	64.5	62.9	62.6
25	55.3	53.8	52.0	54.7	61.6	69.4	69.2	69.3	67.4	64.6	62.5	62.6
26	55.4	53.8	52.1	54.7	61.0	69.4	69.3	69.4	67.6	64.6	62.9	62.2
27	55.4	54.0	52.1	54.6	61.4	69.5	69.3	69.4	67.6	64.2	63.0	61.2
28	54.7	54.7	52.0	54.4	62.0	69.5	69.1	69.4	67.4	64.4	63.0	60.4
29	54.3	55.4	52.0	55.0	62.1	69.5	69.4	69.5	67.0	64.4	62.6	59.6
30	54.4		52.0	55.9	62.1	69.4	69.4	69.6	67.0	64.3	62.4	59.8
31	54.5		51.1		62.0		69.5	69.6		64.2		60.5

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 110.8 below lsd, June 28-29, 1952. Records available: 1928-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	97.8	98.6	98.1	96.8	98.7	101.8	110.6	110.5	109.0	105.3	103.9	102.8
2	98.1	98.5	97.9	97.0	98.9	102.0	110.7	110.4	108.3	105.8	103.9	102.8
3	98.4	97.9	97.3	97.4	99.1	102.1	110.6	110.2	108.0	105.8	103.7	102.9
4	98.6	97.5	97.5	98.0	99.0	102.6	110.3	109.4	108.0	105.7	103.7	102.9
5	98.6	97.7	97.8	98.1	99.0	103.3	109.1	109.8	107.9	105.5	103.6	102.8
6	98.6	98.0	96.0	98.0	99.6	104.6	107.9	109.8	107.7	105.4	103.8	102.8
7	98.4	98.1	98.2	97.5	100.1	104.7	106.9	109.8	106.5	105.4	103.8	102.6
8	98.8	98.1	98.1	97.8	100.7	104.5	106.4	109.8	106.2	105.4	103.8	102.5
9	99.1	98.0	97.9	98.3	101.2	104.2	106.4	109.6	106.6	105.3	103.5	102.7
10	99.7	98.0	97.6	98.9	101.4	104.9	106.3	109.5	107.2	105.2	102.9	103.0
11	99.7	98.0	97.9	99.0	101.2	105.7	106.3	109.1	107.6	105.0	102.7	103.0
12	99.6	98.0	98.0	99.0	100.8	106.5	106.4	109.4	107.8	104.9	102.9	102.8
13	99.5	98.1	98.1	98.6	100.7	106.8	106.2	109.5	107.7	104.9	103.2	102.8
14	99.2	98.3	98.2	98.0	100.8	107.2	105.8	109.6	107.6	104.4	103.3	102.7
15	99.5	98.4	98.2	98.4	100.8	107.3	106.1	109.8	106.8	104.5	103.3	102.7
16	99.6	98.4	98.0	98.6	101.8	107.7	106.3	109.1	106.9	104.6	103.2	102.9
17	99.7	98.1	97.4	98.9	101.3	108.3	106.6	109.6	107.0	104.5	102.9	103.1
18	99.8	97.5	97.6	99.3	101.5	108.7	106.7	109.2	107.0	104.5	103.0	103.3
19	99.7	97.6	97.9	99.3	101.0	109.2	106.6	109.5	107.0	104.4	103.0	103.3
20	99.0	97.9	98.1	99.0	101.5	109.5	106.5	109.9	106.7	104.1	103.3	103.2
21	98.2	98.0	98.2	98.7	101.5	109.6	106.7	110.2	106.2	104.1	103.7	103.1
22	98.1	98.0	98.1	98.9	102.0	109.4	106.9	110.2	105.6	104.1	103.7	102.8
23	98.4	98.0	98.1	99.1	102.3	109.1	107.5	110.0	105.3	104.0	103.5	102.7
24	98.5	97.8	98.0	99.3	101.5	109.4	108.2	109.9	105.2	104.1	103.0	102.7
25	98.5	97.7	98.0	99.3	101.1	109.9	108.8	109.7	105.1	104.1	102.9	102.5

79:5-193--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	98.3	97.8	98.1	99.1	100.6	110.3	109.1	109.6	105.0	103.7	103.4	102.0
27	98.2	97.9	98.2	98.6	101.1	110.7	109.1	109.8	105.0	103.2	103.4	101.4
28	98.4	98.0	98.2	98.0	101.6	110.8	109.2	109.9	104.6	103.4	103.4	100.9
29	98.6	98.1	98.2	98.3	102.0	110.8	109.8	110.0	104.8	103.7	103.3	100.4
30	98.6		97.8	98.6	102.2	110.5	110.4	109.9	105.0	103.8	103.1	100.5
31	98.6		96.8		102.2		110.5	109.6		103.8		101.1

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 113.2 below lsd, June 28, 1952. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	90.8	90.3	85.9	96.1	94.8	112.7	.....	106.3	104.1	102.0	h95.64
2	.....	90.8	89.6	87.0	96.4	97.0	112.8	.....	106.5	104.5	100.6	97.4
3	h87.94	89.5	87.0	89.4	96.5	98.6	113.1	.....	107.4	104.3	101.1	96.9
4	88.6	87.7	87.5	88.5	94.1	101.3	112.4	h109.16	107.4	104.4	101.3	97.7
5	88.7	88.2	89.0	88.5	95.3	102.5	106.9	.....	107.3	102.6	98.9	98.2
6	88.6	89.2	89.5	87.2	96.6	102.2	104.4	110.0	107.2	101.5	100.6	98.3
7	88.6	89.7	89.8	88.1	98.2	101.9	105.3	110.5	105.6	100.5	99.5	97.7
8	89.0	89.8	89.8	89.3	101.4	99.7	106.6	110.7	106.0	100.7	100.4	98.2
9	90.4	89.8	89.6	91.4	101.4	101.0	105.3	110.5	107.6	99.7	98.8	98.6
10	91.5	89.9	88.3	92.2	100.5	104.9	106.6	.....	108.2	102.3	h96.45	.....
11	91.7	89.2	89.5	92.4	.....	106.8	107.8	h107.43	108.7	102.7	97.2	.....
12	91.8	89.3	89.7	92.0	h90.55	108.2	107.8	110.1	109.1	101.4	97.5	.....
13	91.0	90.0	90.0	90.1	91.7	109.2	106.2	110.6	109.2	99.7	98.9	.....
14	91.9	91.2	91.5	87.6	92.4	109.5	106.9	111.1	.....	100.7	99.1	.....
15	91.7	92.1	91.2	89.2	93.9	.....	107.3	111.8	h106.06	99.4	99.3	h95.15
16	93.4	92.1	.....	90.9	94.9	h106.87	107.8	112.4	108.4	101.1	.....	100.6
17	93.9	91.0	h87.95	93.2	95.2	110.1	107.7	111.0	108.3	101.4	98.7	100.2
18	93.3	89.4	88.9	93.7	93.3	111.2	108.0	109.9	106.7	101.6	99.3	100.7
19	92.1	89.4	88.7	93.6	93.1	112.0	108.2	110.6	104.6	100.2	.....	101.0
20	90.7	90.0	91.1	91.9	92.7	112.1	106.5	111.7	104.3	98.5	99.2	100.8
21	88.8	89.4	91.4	92.1	93.5	111.5	106.3	112.2	102.1	98.4	99.2	98.9
22	88.0	89.4	91.7	92.8	95.9	109.0	107.2	111.7	101.5	.....	99.0	h96.36
23	90.3	89.1	90.4	94.0	97.0	109.0	107.9	111.4	101.5	.....	.....	99.9
24	91.0	88.6	88.6	94.1	96.2	110.8	109.1	109.8	101.7	100.0	h96.43	98.7
25	91.2	h86.99	89.4	93.3	93.3	111.7	109.8	h107.92	101.5	99.7	100.0	98.1
26	92.9	.....	88.8	93.4	95.3	112.5	110.1	.....	101.9	.....	99.9	96.0
27	91.3	87.8	88.4	91.8	96.5	113.1	108.5	110.2	101.9	h93.40	99.7	93.9
28	89.9	88.6	88.9	92.8	97.2	113.2	111.0	111.5	99.5	98.8	98.5	92.6
29	90.6	90.2	88.9	93.9	97.3	111.7	.....	112.0	101.7	99.4	.....	93.4
30	91.0		87.9	94.8	97.3	112.2	.....	111.4	102.6	100.1	.....	94.8
31	90.8		85.3		96.7		.....	109.7		101.7		95.1

h Tape measurement.

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: 1945-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.0	74.6	80.1	.....	80.7	.....	h100.57	h100.15	.....	91.4	87.8	68.8
2	77.2	74.5	80.1	87.3	92.6	h90.69	.....	.....	.....	.....	87.6	71.3
3	77.3	74.1	79.6	89.1	.....	92.4	.....	.....	.....	.....	88.3	73.2
4	77.4	73.4	79.6	88.6	.....	93.1	.....	.....	.....	79.3	88.5	73.3
5	77.5	73.3	79.8	75.1	.....	93.8	.....	h84.65	h79.58	78.2	87.7	70.0
6	77.8	73.4	77.2	74.8	.....	93.9	.....	.....	79.4	78.7	88.4	69.8
7	77.8	73.3	76.5	74.6	.....	.....	.....	.....	76.9	78.8	88.2	69.8
8	77.7	72.9	76.1	74.2	.....	80.8	h97.99	h99.02	78.1	78.6	87.3	69.7
9	77.9	72.8	75.6	74.2	.....	94.8	.....	.....	.....	.....	86.8	69.6
10	78.2	72.7	75.3	76.0	.....	95.8	.....	.....	.....	.....	h85.58	69.8

79:7-26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	78.2	72.7	73.1	75.4	.....	96.5	h94.17	.....	81.7	.....	.....	70.0
12	78.1	72.6	75.5	74.3	h89.11	96.8	.....	h98.24	82.0	.....	.....	70.2
13	78.0	75.1	76.1	74.1	89.1	96.5	.....	96.0	82.0	h87.83	h86.13	69.7
14	78.0	78.8	.....	74.7	89.7	.....	.....	.....	79.5	.....	.....	69.4
15	79.3	79.2	80.9	74.9	89.9	.....	h96.44	h96.91	81.2	.....	.....	69.4
16	77.2	74.1	77.0	73.4	89.6	h96.90	.....	97.5	81.5	.....	.....	69.1
17	77.1	73.1	76.4	73.3	89.6	.....	.....	97.0	.....	.....	h84.80	69.6
18	79.5	72.3	75.1	73.4	91.7	.....	95.8	96.8	.....	.....	85.9	70.2
19	79.5	73.3	75.2	73.4	h90.89	.....	96.0	96.9	h89.62	.....	.....	70.4
20	79.1	74.4	77.4	73.3	.....	.....	96.0	96.9	89.3	91.0	h70.35	70.7
21	78.8	75.1	.....	73.3	.....	.....	.....	97.2	88.5	91.1	70.8	70.7
22	76.6	75.2	.....	75.8	.....	.....	96.8	97.7	90.9	91.0	69.9	70.7
23	77.0	75.2	.....	76.0	.....	98.7	97.2	97.8	.....	90.8	69.4	71.0
24	77.1	75.4	h85.30	75.1	.....	99.2	.....	.....	.....	90.5	68.6	71.1
25	77.1	75.8	86.2	73.5	.....	99.6	h97.62	h95.46	.....	90.2	67.6	70.9
26	76.9	75.9	86.6	73.4	h89.31	100.2	.....	97.5	.....	89.8	67.2	70.7
27	75.0	76.0	88.7	74.9	91.1	100.2	98.1	97.9	.....	h90.42	67.3	70.1
28	74.8	79.0	88.9	76.6	91.9	100.3	98.4	.....	.....	92.4	68.2	69.6
29	74.8	79.7	87.6	79.7	78.8	.....	97.8	97.7	h87.82	89.2	68.7	69.2
30	74.7	.....	87.4	80.5	.....	100.3	98.5	.....	90.4	89.4	68.9	69.3
31	74.6	.....	87.0	.....	.....	.....	.....	.....	.....	88.1	.....	69.7

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 129.2 below lsd, Aug. 22, 1952. Records available: 1944-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	97.5	98.6	.....	97.8	112.6	107.3	127.4	.....	120.8	113.1	110.6	104.1
2	95.8	98.4	.....	99.2	115.0	113.1	128.5	.....	122.2	113.7	110.2	107.5
3	96.9	94.9	h98.43	99.2	115.0	115.1	128.6	.....	122.1	114.0	109.7	106.2
4	97.3	94.5	102.0	97.7	.....	117.8	125.2	.....	115.2	111.6	110.8	108.8
5	97.4	95.3	105.5	94.6	.....	118.4	.....	h117.77	115.2	109.7	110.0	109.2
6	96.3	96.6	103.2	91.1	115.0	118.6	.....	124.4	115.0	105.3	112.9	109.2
7	97.2	97.0	103.2	94.0	120.8	118.7	.....	124.2	112.1	104.6	113.7	107.6
8	98.3	97.3	103.1	96.2	122.5	114.8	h121.58	124.2	114.2	106.8	113.7	107.5
9	100.1	97.4	102.4	97.5	122.5	118.7	.....	124.1	123.4	111.0	110.5	108.3
10	101.3	97.4	97.9	100.9	114.3	121.3	121.0	116.4	122.2	114.4	110.9	108.4
11	101.4	96.1	98.0	101.0	99.8	122.8	122.8	124.4	122.0	112.3	109.6	110.8
12	101.2	97.3	98.6	98.1	106.1	125.7	122.8	126.7	122.1	109.5	108.5	110.3
13	97.8	101.2	98.6	95.6	106.5	127.0	121.4	123.4	121.9	110.9	111.6	110.2
14	98.7	104.9	106.2	94.4	111.8	127.0	122.8	125.5	113.8	111.1	112.0	109.0
15	102.3	104.9	106.3	96.4	115.9	123.4	123.5	128.9	119.1	110.6	109.8	108.6
16	102.1	99.7	104.0	99.0	117.2	125.0	123.5	128.9	119.5	111.1	107.9	109.4
17	102.2	95.4	103.5	100.6	117.2	126.6	.....	127.7	119.5	111.1	109.5	109.3
18	104.5	96.5	103.3	101.3	114.4	127.7	h123.69	126.9	117.6	110.0	110.6	111.2
19	102.9	99.8	101.6	100.7	114.3	128.9	124.1	127.6	117.7	108.6	110.6	110.3
20	100.9	100.8	103.8	97.5	112.9	129.0	123.3	128.4	116.7	109.7	109.8	110.2
21	100.6	101.2	103.8	98.4	115.4	125.7	121.5	128.9	114.0	109.7	108.5	107.0
22	101.0	101.1	99.0	103.7	118.0	.....	122.5	129.2	112.0	109.3	107.8	107.6
23	101.6	101.0	97.0	105.8	117.8	h121.06	123.0	129.0	112.7	109.5	105.6	108.8
24	102.0	99.1	95.9	102.7	113.9	126.3	124.9	123.5	113.9	109.8	105.7	109.4
25	101.9	98.4	96.9	100.3	110.8	127.0	125.6	125.5	115.6	110.1	110.0	108.3
26	101.5	98.4	96.7	99.8	115.4	127.8	125.7	126.9	116.2	109.6	110.2	102.3
27	97.6	101.0	95.4	100.5	118.0	128.4	125.0	126.9	116.1	116.2	108.4	100.8
28	95.1	.....	96.5	107.1	117.9	128.4	125.8	127.0	110.7	116.5	105.6	99.7
29	97.5	.....	96.4	110.6	112.6	127.7	h126.50	128.9	111.7	110.2	105.6	104.7
30	98.4	.....	93.5	111.3	113.4	127.3	.....	128.9	111.9	110.3	104.6	106.4
31	98.6	.....	94.3	.....	113.1	.....	.....	124.0	.....	110.6	.....	105.4

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: 1945-52.

79:8-56--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.7	104.7	108.5	106.9	104.8	106.4	109.9	106.8	106.5	103.2	105.1	103.4
2	104.6	104.1	108.3	107.2	104.8	106.5	109.8	106.9	105.8	101.0	105.2	103.6
3	105.2	103.1	107.1	107.2	.....	105.6	109.6	106.4	105.7	101.1	105.8	105.5
4	105.6	101.8	107.3	107.4	.....	105.2	108.9	105.6	105.3	101.0	105.8	106.3
5	105.8	104.2	107.5	107.8	.....	105.7	108.0	105.9	105.2	101.1	105.7	106.6
6	106.0	105.6	107.6	107.9	h106.25	106.2	107.2	106.2	104.8	101.1	105.5	107.0
7	106.1	106.1	107.6	107.9	111.6	106.4	106.5	106.5	104.5	103.1	105.6	107.0
8	105.6	107.2	107.5	107.6	112.0	106.0	106.0	106.8	106.2	103.9	105.5	107.0
9	105.8	107.4	.....	107.9	108.1	105.2	105.6	107.0	106.8	104.5	104.8	108.2
10	106.1	107.6	h107.16	107.8	108.1	105.4	105.3	107.2	106.5	104.6	103.5	108.8
11	106.2	107.7	108.0	108.1	107.1	106.0	104.9	107.2	105.7	104.6	100.8	108.8
12	106.2	107.7	108.0	104.9	106.5	106.5	104.6	108.1	104.0	103.7	101.0	109.2
13	106.2	107.4	108.0	103.8	106.4	107.0	104.4	108.7	103.3	103.1	103.6	109.4
14	106.1	108.3	108.2	105.6	106.5	107.4	104.0	108.9	103.5	102.9	104.0	109.5
15	106.1	108.5	108.4	106.3	106.6	107.6	103.7	109.0	105.0	103.2	104.3	109.6
16	107.4	108.4	108.1	106.5	104.4	107.8	103.6	108.9	105.6	104.1	.....	h109.60
17	107.6	108.1	106.9	106.7	103.9	108.1	103.5	108.3	104.5	104.4	.....	.....
18	107.8	107.5	106.4	106.6	103.9	108.2	103.4	107.4	104.9	105.0	h104.44	.....
19	107.8	106.8	107.0	104.6	103.9	108.5	103.4	107.5	102.8	105.1	104.6	.....
20	107.2	107.1	107.3	104.2	104.0	108.7	103.7	107.2	102.7	.....	104.6	.....
21	106.5	107.1	107.4	104.3	104.0	108.8	104.2	107.5	101.9	107.2	103.2	.....
22	106.5	107.1	107.5	104.4	105.9	108.7	104.6	104.9	103.6	107.8	102.7	.....
23	107.1	107.0	107.5	102.8	106.6	108.4	105.2	104.6	103.8	105.7	102.2	h108.40
24	107.3	106.9	107.4	.....	106.6	108.6	105.7	104.3	103.7	105.3	100.9	108.3
25	107.5	107.1	107.6	h106.51	106.2	108.9	106.1	104.2	103.5	105.2	100.0	107.4
26	107.6	107.8	107.6	106.5	105.3	109.2	106.3	106.3	103.2	104.9	102.5	106.5
27	107.9	108.0	107.7	106.1	105.4	109.4	106.5	107.4	103.0	104.1	103.2	108.7
28	108.0	108.0	107.8	105.2	108.1	109.6	106.6	107.9	102.8	104.7	103.4	.....
29	108.2	108.3	107.8	105.0	108.7	109.7	106.6	108.2	102.8	105.1	103.4	.....
30	108.2	.....	107.6	105.0	108.2	109.8	106.5	108.0	102.5	105.2	103.4	h105.07
31	108.0	.....	106.9	.....	106.6	.....	106.6	107.3	.....	105.2	.....	105.7

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: 1946-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	120.4	119.6	118.3	117.6	119.4	124.8	130.0	129.3	129.5	128.4	126.6	123.0
2	120.4	119.6	118.3	118.2	118.8	124.9	129.9	128.7	129.2	128.9	126.7	122.9
3	120.4	119.2	118.0	118.3	118.8	125.1	129.9	128.4	129.2	129.0	126.8	122.1
4	119.7	119.0	117.9	118.3	118.9	125.8	129.9	128.6	129.0	127.7	126.8	121.5
5	119.7	118.0	118.5	118.0	118.8	126.2	129.6	128.5	128.7	127.5	127.1	121.4
6	119.8	117.8	118.7	118.1	121.0	125.6	129.3	128.4	128.7	127.7	127.2	121.4
7	119.8	118.1	118.7	118.1	122.6	125.6	129.2	128.3	128.6	127.8	124.9	121.2
8	119.8	118.4	118.7	118.1	124.2	125.4	128.8	128.3	128.5	127.3	124.8	121.0
9	119.8	118.4	118.5	118.2	124.2	126.3	128.4	128.3	128.3	127.0	124.7	120.8
10	120.3	118.3	118.2	118.5	124.2	126.8	127.9	128.3	128.8	127.0	126.6	120.4
11	120.4	118.2	118.4	117.8	124.3	128.1	127.9	128.3	129.2	127.3	126.7	120.5
12	120.2	118.2	118.5	117.9	124.1	128.4	127.9	128.3	129.0	127.2	126.8	120.5
13	119.9	118.6	119.1	117.9	124.3	128.6	128.4	128.3	129.2	127.0	124.0	120.5
14	119.6	118.7	119.4	118.0	124.2	128.7	128.5	128.4	129.2	126.9	123.1	120.5
15	119.3	118.7	119.0	118.0	124.4	128.8	128.6	128.4	129.1	127.0	122.8	120.5
16	119.3	118.6	118.9	117.9	124.7	128.9	128.6	129.0	128.9	127.1	122.7	120.5
17	118.8	118.7	118.7	118.0	124.8	129.0	128.1	129.2	129.0	127.2	120.7	120.7
18	118.9	118.6	118.5	117.4	125.0	129.2	127.8	128.9	128.7	127.1	120.8	120.6
19	118.7	117.4	118.7	117.3	125.0	129.2	128.2	128.8	129.0	127.0	123.1	120.4
20	118.6	117.4	118.7	117.4	124.8	129.3	128.4	129.2	129.0	127.0	123.3	120.5
21	118.6	117.5	118.1	117.3	124.8	129.3	128.5	129.8	128.8	127.2	123.4	120.5
22	118.6	117.4	118.1	119.4	124.9	129.4	128.7	130.6	128.6	127.0	123.6	120.7
23	118.9	117.2	118.2	119.6	124.7	129.5	128.8	130.6	127.7	127.1	123.6	121.2
24	118.9	117.2	118.2	119.6	124.6	129.4	129.1	130.2	127.8	126.9	123.5	121.6
25	118.6	117.3	118.1	119.5	124.3	129.6	129.2	130.0	127.8	126.8	123.3	121.7

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79:8-73--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	117.8	118.2	118.2	119.4	124.3	129.7	129.4	130.4	127.9	126.8	123.4	121.6
27	117.8	118.3	118.3	119.2	124.4	129.8	129.4	130.6	127.8	126.6	123.4	121.5
28	117.9	118.2	118.3	119.1	124.5	129.9	129.4	130.4	127.6	126.8	123.4	121.4
29	118.1	118.2	118.3	119.6	124.4	130.0	129.4	130.5	127.9	126.9	123.2	121.0
30	119.1		118.2	119.9	124.5	130.0	129.5	130.6	128.1	126.9	123.1	120.8
31	119.6		117.8		124.6		129.5	130.1		126.8		119.8

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 34.83 below lsd, Dec. 25, 1952. Records available: 1948-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.79	.....	31.31	30.62	30.27	30.14	31.64	.....	33.25	33.63	33.61	34.15
2	31.81	.....	31.10	30.72	30.49	30.11	31.80	.....	33.42	33.82	33.66	34.32
3	h31.74	.....	30.86	30.60	30.37	30.17	31.71	.....	33.59	33.79	33.79	34.30
4	31.64	h31.20	31.32	30.72	30.38	30.24	31.68	32.47	33.22	33.67	33.70	34.34
5	31.63	.....	31.32	30.72	30.27	30.53	31.55	32.77	33.24	33.77	33.71	34.43
6	31.72	.....	31.16	30.53	30.24	.....	31.65	.....	33.24	33.80	33.87	34.34
7	31.65	.....	31.10	30.52	30.22	.....	31.89	.....	33.25	33.70	33.91	34.52
8	31.38	.....	30.94	30.49	30.18	.....	32.09	32.73	33.34	33.80	33.80	34.20
9	31.78	.....	30.68	30.58	30.20	h30.43	31.84	.....	33.42	33.60	33.95	34.41
10	32.24	.....	30.55	30.74	30.46	.....	31.88	.....	33.42	33.56	33.61	34.54
11	31.86	h31.20	31.08	30.63	30.07	.....	31.99	32.65	33.43	33.61	33.65	34.54
12	31.54	31.19	31.01	30.25	30.30	.....	32.19	32.78	33.45	.....	33.79	34.57
13	31.42	31.09	30.90	30.51	30.22	.....	32.02	32.81	33.54	33.44	33.88	34.51
14	31.35	31.31	30.94	30.52	29.90	.....	32.01	32.79	33.75	33.59	33.94	34.71
15	31.59	31.28	31.05	30.57	29.88	.....	32.07	32.78	33.48	33.89	34.04	34.48
16	31.59	31.27	31.00	30.61	30.03	h30.77	32.12	32.90	33.50	33.63	34.10	34.53
17	31.59	31.38	30.83	30.57	30.10	.....	32.32	33.11	33.72	33.56	34.03	34.68
18	31.64	31.31	30.67	30.42	30.31	.....	32.18	32.92	.....	33.59	.....	34.73
19	31.61	31.11	30.87	30.34	29.84	.....	32.18	32.95	.....	33.49	.....	34.49
20	31.72	31.28	30.79	30.36	29.85	.....	32.18	33.01	.....	33.65	34.15	.....
21	31.36	31.36	30.74	30.36	29.88	.....	32.24	33.07	.....	33.61	34.09	.....
22	31.59	31.18	30.98	30.37	30.02	.....	32.31	33.12	h33.29	33.50	34.15	h34.25
23	31.85	31.06	31.04	30.35	30.30	.....	32.33	33.11	33.43	33.50	34.25	34.68
24	31.72	31.06	30.66	30.39	29.84	31.32	32.37	33.31	33.40	33.50	34.12	34.68
25	.....	31.17	30.74	30.38	29.73	31.37	32.56	33.10	.....	33.66	34.19	34.83
26	.....	31.07	30.74	30.31	30.00	31.48	32.64	33.18	33.37	33.78	34.46	34.35
27	.....	31.03	30.80	30.34	29.93	31.71	32.66	33.19	33.37	33.69	34.58	34.46
28	h31.55	30.80	30.87	30.38	29.94	31.74	32.63	33.19	33.41	33.83	34.31	34.49
29	31.59	31.20	30.74	30.43	29.88	31.73	h32.40	33.23	33.48	34.04	34.28	34.43
30	.....	.....	30.73	30.34	29.91	31.79	h32.50	33.24	33.58	33.60	34.33	34.47
31	.....	.....	30.36	.....	30.03	.....	.....	33.30	.....	33.58	.....	34.73

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 88.06 below lsd July 30, 1952. Records available: 1948-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.04	.....	65.91	68.34	66.47	71.96	80.86	82.30	75.50	74.53	73.28	70.73
2	64.50	.....	65.13	74.18	66.70	70.53	77.89	.....	74.81	74.73	72.12	71.46
3	65.93	.....	64.78	76.04	66.70	70.48	77.05	.....	75.56	74.79	71.71	71.60
4	66.86	h63.36	65.60	76.65	66.52	77.00	77.04	h79.12	75.92	74.80	72.43	71.70
5	67.00	64.38	65.82	.....	66.01	79.38	76.59	.....	75.96	73.96	72.72	71.90
6	66.87	64.42	66.06	.....	66.76	79.90	.....	.....	75.83	73.83	73.02	71.92
7	65.09	64.64	66.20	.....	.....	.....	h76.79	.....	75.20	73.83	73.08	71.86
8	66.50	64.86	66.20	.....	.....	.....	.....	h78.30	74.22	74.01	73.08	70.36
9	67.43	65.07	65.86	.....	.....	h71.38	.....	78.64	74.86	74.01	72.16	71.40
10	68.13	65.07	64.82	.....	.....	76.64	.....	78.65	75.19	73.51	71.53	71.77

79:9-107--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	68.13	64.38	65.30	h75.90	.....	.....	.....	78.44	75.50	72.57	72.36	71.93
12	67.99	64.05	65.44	72.08	h68.00	.....	.....	78.84	75.80	72.03	72.40	72.07
13	66.58	64.26	65.90	68.22	72.32	.....	.....	79.12	75.80	h71.58	72.40	72.07
14	66.46	64.44	65.93	70.20	74.72	.....	h75.45	79.15	75.15	.....	72.54	71.57
15	66.95	64.81	65.93	72.32	76.02	.....	80.10	78.10	74.52	.....	72.54	70.98
16	66.91	64.81	65.54	75.80	76.90	h77.10	.....	78.71	75.09	.....	71.52	71.54
17	66.62	64.50	64.70	76.58	75.00	78.26	.....	78.79	75.28	.....	71.27	71.88
18	66.80	63.77	64.96	76.26	71.72	78.72	h78.64	78.23	75.52	.....	71.73	71.99
19	66.78	64.21	65.22	66.46	69.52	.....	78.59	77.58	77.52	.....	71.91	72.02
20	66.06	64.63	65.33	68.10	69.66	.....	77.22	77.84	77.58	h71.41	72.03	72.04
21	65.21	64.88	65.37	66.28	69.80	.....	77.43	.....	75.41	72.63	72.31	71.83
22	65.69	65.38	65.37	66.35	70.61	.....	78.72	.....	75.77	73.02	72.33	71.00
23	65.94	65.38	64.94	66.56	69.99	h78.57	82.67	.....	76.96	73.12	71.81	71.00
24	65.94	64.68	64.04	66.66	69.98	.....	e84.66	78.10	77.36	73.11	71.20	70.49
25	65.98	64.53	64.64	66.66	69.78	.....	85.51	78.24	.....	73.09	71.66	69.86
26	65.98	65.19	64.87	66.60	68.96	.....	82.54	78.62	.....	71.98	72.29	69.43
27	65.22	65.43	71.10	65.64	73.42	84.69	80.80	77.64	.....	71.68	72.29	69.09
28	64.74	65.60	.....	65.20	75.86	83.34	85.22	77.40	.....	72.44	71.12	68.78
29	.....	65.89	73.38	.....	77.20	.....	87.62	77.48	h73.24	72.80	71.15	69.20
30	.....	.....	70.36	66.21	77.58	81.39	88.06	77.48	74.31	73.01	71.06	69.80
31	.....	.....	70.58	.....	74.60	.....	83.94	76.65	.....	73.28	.....	70.30

e Estimated.

h Tape measurement.

79:9-110. Memphis Light, Gas and Water Division. Dunn Ave. and Mississippi Blvd. Lat. 35°05'34", long. 90°01'34". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 330 feet, screen 321-330. Land-surface datum is 246.6 feet above msl. Highest water level 46.30 below lsd, Feb. 20, 1950; lowest 74.3 below lsd, July 30, 1952. Records available: 1948-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.5	51.5	51.3	53.8	51.9	57.1	66.6	65.8	60.6	59.0	57.9	56.0
2	55.7	51.5	50.9	56.3	52.0	55.9	64.3	65.3	60.0	59.3	57.4	56.4
3	58.4	.....	50.5	57.8	52.1	55.5	63.9	64.5	60.3	59.3	57.0	56.5
4	59.2	h49.98	51.1	58.4	52.0	61.3	61.6	66.4	60.5	59.3	57.4	56.6
5	59.4	50.5	51.3	55.2	51.7	63.5	61.2	66.0	60.5	58.9	57.6	56.7
6	57.0	50.7	51.5	52.8	52.2	64.0	61.1	63.9	60.4	58.4	57.8	56.7
7	58.3	.....	51.6	54.3	58.2	61.1	h61.70	63.7	60.0	58.6	57.8	56.4
8	58.9	.....	51.6	56.6	61.9	58.2	.....	63.7	59.2	58.7	57.8	56.0
9	59.6	.....	51.4	58.2	62.5	57.0	.....	63.5	59.5	58.7	57.4	56.3
10	60.2	.....	h50.52	59.2	58.3	61.7	.....	62.5	59.7	58.7	56.8	56.7
11	60.2	h49.84	51.0	59.7	55.6	63.7	.....	63.8	59.9	58.7	57.2	58.9
12	60.0	50.2	51.1	56.8	54.3	62.1	61.8	63.1	60.2	58.2	57.2	57.0
13	57.7	50.4	51.4	53.9	58.2	63.0	61.6	62.2	60.2	57.6	57.3	56.9
14	58.2	50.5	51.5	56.6	60.3	63.2	62.8	63.0	59.9	57.9	57.4	56.7
15	58.2	50.7	51.5	58.6	61.5	63.2	65.2	63.2	59.4	58.2	57.4	59.0
16	53.0	50.7	51.4	61.3	62.2	63.5	65.6	63.3	59.7	58.3	57.0	56.6
17	52.6	50.5	h50.68	61.8	59.9	64.1	62.7	62.5	59.8	58.4	56.5	58.7
18	52.6	50.0	50.8	59.3	56.8	64.5	62.1	62.5	60.0	58.4	56.8	56.9
19	52.5	50.2	51.0	55.5	55.3	66.2	62.1	63.0	60.7	57.9	56.9	58.3
20	52.1	50.4	51.1	53.8	54.8	66.8	61.9	63.3	60.9	57.3	57.0	56.8
21	51.4	50.7	51.1	52.6	54.8	65.8	63.3	63.4	60.2	57.7	57.2	56.8
22	51.5	50.9	51.1	52.2	55.2	65.6	64.4	62.9	h59.10	57.9	57.3	56.1
23	51.7	50.9	51.0	52.2	55.0	65.0	66.4	63.3	.....	58.0	56.1	59.2
24	51.7	50.6	50.4	52.3	54.9	67.1	67.8	63.3	.....	58.0	56.6	56.2
25	51.7	50.3	50.6	52.3	54.8	68.2	68.4	62.7	.....	58.0	56.6	55.8
26	51.6	50.8	51.0	52.2	54.3	68.8	67.3	62.1	.....	57.4	57.1	55.4
27	.....	51.0	56.7	51.7	58.9	69.1	64.3	62.0	.....	56.9	57.1	55.0
28	h50.56	51.0	59.0	.....	61.2	68.2	71.9	61.8	.....	57.4	56.6	54.7
29	51.3	51.2	55.0	51.5	62.4	68.2	73.9	61.8	h58.45	57.6	56.4	54.86
30	51.5	.....	52.5	51.7	62.9	66.9	74.3	61.8	58.9	57.8	56.4	54.8
31	51.5	.....	55.4	.....	59.4	.....	69.1	61.4	.....	57.9	.....	55.2

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 79.1 below lsd, July 30, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	54.8	55.4	55.0	57.6	55.6	.....	76.2	.....	64.0	62.3	.....	h59.56
2	55.8	55.4	54.8	65.7	h55.65	h59.30	73.5	.....	63.4	62.5	.....	59.9
3	57.6	54.9	54.4	67.0	.....	.....	71.0	.....	63.5	62.6	h60.47	60.0
4	58.5	h54.28	55.0	h67.35	.....	.....	.....	h72.79	63.6	62.6	.....	60.1
5	58.9	.....	55.1	.....	.....	.....	.....	73.9	63.6	62.3	.....	60.2
6	58.9	.....	55.3	.....	55.8	.....	.....	66.6	63.6	61.9	.....	60.2
7	57.8	.....	55.4	.....	68.2	.....	h70.21	72.9	63.4	61.9	.....	60.0
8	58.5	.....	55.4	68.5	72.0	.....	.....	72.7	62.8	62.0	61.2	59.6
9	.....	.....	55.3	70.0	72.7	h60.22	.....	.....	62.7	62.0	60.9	59.8
10	.....	.....	54.8	68.5	60.8	.....	.....	.....	62.9	62.0	60.4	60.1
11	59.7	h54.17	54.9	68.9	59.0	.....	.....	73.8	63.0	62.0	60.6	60.4
12	59.7	54.3	55.0	60.0	58.0	.....	71.3	66.1	63.2	61.7	.....	60.4
13	57.8	54.5	55.2	57.6	70.3	.....	71.1	65.0	63.3	h61.10	60.7	60.4
14	58.2	54.6	55.3	69.2	72.3	.....	73.0	72.1	63.2	.....	60.8	60.3
15	58.4	54.6	55.3	70.9	73.2	.....	74.0	72.7	62.7	.....	60.8	60.0
16	57.1	54.6	55.3	72.0	74.0	h73.57	74.7	72.8	62.9	.....	60.5	60.1
17	56.5	54.6	55.0	h72.42	.....	74.6	65.4	65.5	63.0	.....	h60.10	60.3
18	56.5	54.2	54.8	61.4	.....	74.9	71.2	71.8	63.1	61.8	.....	60.4
19	56.4	54.2	54.9	59.1	h56.60	74.9	71.4	72.4	63.4	61.5	.....	60.4
20	56.2	54.4	55.0	57.7	58.4	75.6	71.2	72.8	63.6	61.0	.....	60.3
21	55.9	54.6	55.0	56.7	58.3	75.6	73.6	72.9	63.4	.....	.....	60.3
22	55.5	54.7	55.0	56.1	58.3	75.4	74.6	65.7	62.8	.....	.....	59.8
23	55.6	54.7	55.0	56.0	58.4	h75.23	75.2	72.5	63.1	.....	.....	60.0
24	55.6	54.6	h54.40	56.1	58.3	.....	75.9	72.4	63.3	.....	h60.19	59.8
25	55.6	54.3	.....	56.1	58.2	.....	77.1	72.3	63.4	.....	60.4	59.5
26	55.3	54.6	.....	56.0	57.9	.....	76.7	65.1	63.4	.....	60.5	59.2
27	55.2	54.8	.....	55.7	70.7	.....	73.7	65.0	63.4	h60.46	60.1	58.8
28	54.9	54.8	.....	55.2	73.0	.....	76.8	64.8	62.9	.....	.....	58.5
29	55.2	55.0	.....	55.3	74.2	.....	78.5	64.8	62.3	.....	.....	58.2
30	55.3	.....	.....	55.5	74.6	h75.43	79.1	64.8	62.2	.....	.....	58.3
31	55.4	.....	h57.60	.....	.....	.....	.....	64.5	.....	.....	.....	58.7

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 97.1 below lsd, July 30, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.8	79.4	79.0	80.5	79.6	84.3	90.0	93.7	86.5	87.1	86.2	83.6
2	78.0	79.3	77.4	82.2	79.6	h82.63	88.5	92.5	87.1	87.1	83.9	84.4
3	79.2	77.2	77.7	83.7	79.5	83.2	87.0	91.1	87.9	87.1	84.6	84.6
4	80.2	77.4	78.7	84.8	79.0	.....	86.5	e92.1	88.2	87.1	85.4	84.6
5	80.3	78.2	79.2	83.2	78.7	.....	86.4	e92.1	88.2	85.6	85.8	84.8
6	79.7	78.4	79.4	79.8	79.4	.....	.....	91.7	88.1	h84.89	86.0	84.7
7	78.9	78.6	79.6	80.2	83.1	.....	89.3	91.2	87.3	.....	86.0	83.6
8	79.6	79.0	79.5	82.1	87.0	.....	90.4	90.9	86.8	.....	86.0	83.5
9	80.5	78.8	78.9	84.8	87.6	h83.48	90.2	90.2	87.4	.....	84.3	84.0
10	81.3	77.3	78.0	86.4	86.1	86.8	89.6	89.3	87.7	.....	84.5	84.4
11	81.3	77.0	78.8	87.1	83.0	89.2	89.0	89.7	87.9	.....	85.4	84.6
12	81.1	77.6	79.0	85.2	80.7	87.9	88.7	90.0	88.2	.....	85.5	84.8
13	79.2	77.9	79.4	81.4	84.4	88.6	67.9	90.1	88.2	h93.50	85.3	84.8
14	79.6	78.0	79.5	83.0	87.0	88.6	88.4	90.2	86.8	85.6	85.5	83.9
15	80.5	78.4	79.4	83.2	88.3	88.5	90.2	90.1	86.6	86.2	85.4	83.8
16	80.4	78.2	78.8	87.1	89.3	88.9	90.6	90.1	.....	.....	83.5	84.4
17	80.1	77.4	78.4	87.8	87.8	89.6	90.0	89.5	.....	.....	84.2	84.7
18	80.3	77.2	78.7	86.6	84.1	90.0	89.6	89.3	.....	.....	84.5	84.8
19	80.0	77.6	79.0	83.6	82.1	91.8	89.2	89.9	.....	.....	84.8	84.7
20	78.9	78.0	79.1	81.0	82.7	92.4	88.6	90.2	.....	h93.49	84.9	84.7

79:9-131--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	78.5	78.3	79.1	79.4	82.7	.....	88.9	90.4	87.6	.....	85.0	84.1
22	79.1	78.8	79.0	79.7	82.6	.....	90.3	90.7	87.5	86.0	85.0	83.3
23	79.3	78.6	78.0	79.9	82.6	h89.14	91.4	90.7	88.6	86.0	84.0	83.4
24	79.3	77.3	77.5	79.9	82.6	93.0	92.9	89.7	89.0	86.0	84.0	83.4
25	79.6	77.8	78.3	79.9	.....	94.1	93.7	89.1	89.2	85.7	84.4	82.1
26	79.5	78.7	78.6	79.8	h81.22	94.7	93.4	89.7	89.3	83.8	85.4	81.5
27	78.2	79.0	82.5	78.2	85.4	94.8	91.8	89.6	88.8	84.4	85.2	81.1
28	78.3	78.9	84.0	78.3	88.0	94.2	93.6	89.5	87.2	85.3	83.8	80.8
29	79.1	79.2	82.4	79.0	89.2	92.2	96.4	h89.52	86.2	85.7	83.8	82.0
30	79.4	.....	79.9	79.5	89.7	90.6	97.1	.....	87.0	86.0	83.5	82.8
31	79.3	.....	80.0	.....	87.2	.....	95.8	88.1	.....	86.3	.....	83.1

e Estimated.

h Tape measurement.

79:9-135. Memphis Light, Gas and Water Division. Alcy Rd. and Benton St. Lat. 35°04'32", long. 90°01'47". Drilled observation artesian well in sand of Claiborne group, diameter 4 inches, depth 265 feet, screen 255-265. Land-surface datum is 234.5 feet above msl. Highest water level 32.25 below lsd, Feb. 20, 1950; lowest 54.00 below lsd, July 30, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.28	38.79	38.57	39.53	38.90	44.46	48.84	52.04	46.27	46.28	45.48	43.13
2	37.68	38.88	37.43	41.47	38.99	42.84	48.08	51.10	46.46	46.29	43.95	43.86
3	38.66	37.71	37.26	41.83	38.99	42.48	46.70	49.97	.....	46.32	44.03	43.97
4	39.46	36.80	38.27	42.48	38.68	44.04	.....	50.18	.....	46.32	44.70	44.04
5	39.64	.....	38.62	42.18	38.16	46.68	.....	50.48	h47.20	45.29	45.00	44.14
6	39.44	.....	38.86	39.80	38.80	.....	.....	50.37	47.26	45.05	45.26	44.14
7	38.38	.....	39.02	.....	39.82	46.36	h45.22	49.79	46.72	45.58	45.32	43.44
8	39.01	.....	39.02	.....	.....	45.40	48.63	49.64	46.07	45.76	45.32	43.09
9	39.77	.....	38.74	.....	.....	43.82	48.62	49.26	46.55	45.80	44.17	43.49
10	40.52	.....	37.95	.....	.....	.....	48.36	48.54	46.79	46.00	43.87	43.80
11	40.56	36.84	38.30	h44.07	.....	.....	47.86	48.42	46.97	46.00	44.66	44.04
12	40.46	37.23	38.44	44.12	h39.70	.....	47.64	48.74	47.27	44.60	44.74	44.24
13	39.48	37.52	38.80	41.14	42.30	.....	47.12	48.88	47.27	44.36	44.73	44.24
14	39.08	37.63	38.84	.....	44.60	.....	46.08	48.96	46.36	44.92	44.78	43.67
15	39.88	37.87	38.90	.....	45.79	.....	48.50	48.96	45.96	45.32	44.77	43.34
16	39.89	37.86	38.72	.....	46.73	h46.88	49.02	48.95	46.60	45.38	43.50	43.84
17	39.69	37.31	38.00	h45.01	46.44	.....	48.83	48.56	46.78	.....	43.60	44.11
18	39.75	36.84	38.16	44.80	43.64	.....	48.46	48.28	46.98	.....	43.95	44.22
19	39.75	37.25	38.43	42.98	41.52	.....	48.21	48.82	47.32	.....	44.19	44.11
20	38.96	37.62	38.52	.....	.....	.....	47.77	49.08	47.45	h43.26	44.24	44.12
21	38.13	37.82	38.56	.....	.....	.....	47.55	49.26	46.84	44.70	44.42	43.78
22	38.65	38.20	38.55	.....	.....	.....	48.82	49.43	46.49	.....	44.42	42.95
23	38.88	38.19	37.90	39.31	.....	h47.94	49.55	49.42	47.43	.....	43.80	43.13
24	38.89	37.28	37.20	39.33	.....	.....	50.79	48.90	47.71	.....	43.55	43.06
25	39.04	37.29	37.78	39.28	.....	.....	51.49	h47.33	47.93	.....	43.90	42.08
26	39.04	38.10	38.03	39.28	h40.74	52.03	51.47	.....	48.01	.....	44.59	41.58
27	38.24	38.33	39.30	38.23	.....	52.25	50.55	.....	47.87	h42.94	44.59	41.24
28	37.96	38.33	.....	37.92	45.28	51.98	51.00	.....	46.69	44.56	43.38	41.00
29	38.64	38.57	.....	38.46	46.66	50.37	53.24	h48.55	45.60	44.99	43.46	41.67
30	38.88	.....	.....	38.78	.....	49.32	54.00	48.62	46.18	45.25	43.34	42.31
31	38.88	.....	h39.42	46.70	.....	53.60	47.52	.....	45.48	.....	42.68	.....

h Tape measurement.

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 89.1 below lsd, Aug. 15, 19-20, 28-29, 1952. Records available: 1944-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.1	76.9	.....	78.0	76.4	81.5	85.0	87.7	85.3	85.2	83.2	84.0
2	79.4	76.0	.....	77.2	77.6	81.5	86.0	87.7	85.5	86.0	82.1	84.2
3	78.7	76.3	h74.64	77.0	77.6	83.3	83.2	85.1	85.0	86.0	83.8	84.0
4	78.6	.....	77.1	78.6	76.3	84.8	82.4	85.6	85.0	86.0	84.0	83.6
5	78.3	h77.14	76.4	78.0	77.0	85.6	78.4	86.3	84.4	85.2	84.2	83.8

79:11-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	79.6	79.3	77.4	77.0	79.5	85.9	77.2	86.3	84.1	86.3	84.3	82.9
7	79.8	.....	78.1	78.2	79.3	84.5	77.1	87.3	84.3	86.1	84.2	82.3
8	79.7	80.0	76.9	78.9	78.9	84.0	79.8	87.9	84.8	85.9	83.2	83.0
9	79.7	80.0	76.9	79.5	79.0	84.1	.....	86.7	85.6	86.4	81.4	83.0
10	79.7	.....	77.7	78.4	78.8	84.5	79.1	86.6	85.9	85.7	82.4	83.8
11	80.2	.....	78.8	.....	77.7	85.8	79.3	87.9	86.6	85.0	82.4	83.8
12	79.5	h78.41	79.1	78.1	.....	86.1	78.8	88.1	87.0	84.3	83.4	84.2
13	79.7	79.9	79.5	76.8	78.7	86.5	78.5	88.7	87.1	84.0	83.4	84.0
14	80.0	78.6	80.5	h76.16	80.1	86.7	.....	88.8	87.5	84.5	83.3	84.4
15	h78.22	.....	80.0	.....	80.1	87.6	80.8	89.1	87.0	84.5	83.7	84.3
16	80.5	.....	77.4	.....	80.2	86.9	80.9	88.1	86.0	84.3	82.4	84.2
17	79.5	.....	77.6	.....	79.4	87.7	81.4	87.4	86.4	83.6	84.0	84.2
18	80.0	h76.89	78.3	.....	79.0	86.6	81.9	88.1	86.2	82.9	84.3	84.2
19	79.7	78.2	79.2	.....	80.2	86.8	82.4	89.1	86.2	81.1	84.5	84.7
20	77.4	79.4	79.3	.....	79.1	86.4	80.8	89.1	84.7	83.4	84.5	84.7
21	76.4	78.8	78.3	.....	79.7	87.0	79.7	88.6	84.4	84.2	84.4	83.8
22	77.1	77.3	77.8	.....	80.4	85.8	81.2	88.8	.....	83.0	84.0	84.4
23	77.3	77.3	78.0	.....	81.2	86.7	85.6	88.9	h83.67	83.0	82.8	84.2
24	77.9	78.1	79.7	.....	80.9	87.4	87.7	87.4	83.5	83.9	83.5	83.0
25	78.1	79.7	80.9	h79.48	.....	87.7	87.9	88.3	83.5	83.3	83.4	81.5
26	78.5	80.3	80.4	79.8	78.2	87.8	86.5	88.4	83.5	.....	84.5	80.7
27	79.3	.....	80.5	75.3	80.8	88.2	83.9	88.6	83.9	.....	84.1	80.5
28	79.0	.....	80.2	75.4	80.8	87.3	86.4	89.1	84.4	83.6	84.8	80.7
29	78.5	.....	78.6	77.8	81.6	85.8	87.4	89.1	84.1	84.0	84.8	.....
30	77.5	.....	75.9	76.8	80.3	85.3	87.8	87.7	84.8	84.5	84.2	h78.14
31	77.9	.....	77.0	.....	80.7	.....	88.3	86.1	.....	85.1	.....	81.9

h Tape measurement.

79:12-1. Gudahy 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, 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	69.11	Mar. 31	69.26	July 9	71.65	Oct. 8	78.62
10	68.68	Apr. 7	68.98	16	72.70	15	77.33
15	71.38	14	69.82	23	73.28	22	76.10
22	69.94	25	72.40	30	79.25	30	76.65
29	71.08	May 5	68.83	Aug. 6	78.46	Nov. 6	75.53
Feb. 5	69.80	13	71.12	13	80.49	13	75.75
12	71.13	19	72.05	20	81.25	20	76.84
18	71.33	27	73.20	27	80.49	27	76.83
25	69.93	June 2	73.54	Sept. 3	78.23	Dec. 4	76.64
Mar. 3	68.71	10	76.22	10	77.80	11	76.45
10	69.52	17	78.54	17	79.14	18	76.46
17	70.02	24	77.93	24	77.22	24	74.68
24	70.17	July 2	80.18	Oct. 1	77.50	31	72.38

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 81.71 below lsd, Aug. 6, 1952. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	65.84	Mar. 31	66.59	July 9	74.54	Oct. 1	78.33
10	65.62	Apr. 7	68.38	16	75.34	8	77.98
15	70.70	14	67.92	23	76.73	15	76.64
22	68.32	25	71.33	30	80.99	22	75.67
29	70.70	May 5	69.87	Aug. 6	81.71	30	75.65
Feb. 5	69.23	13	70.70	13	80.83	Nov. 6	75.11
12	70.27	19	71.39	20	81.60	13	75.00
18	69.50	27	72.24	27	81.34	20	76.14
25	69.53	June 2	72.87	Sept. 3	80.13	Dec. 4	75.81
Mar. 3	67.57	10	75.88	10	78.34	11	75.80
10	68.94	17	79.53	17	77.64	24	75.85
17	68.50	24	80.48	24	77.33	31	73.28
24	69.75	July 2	81.30	.....	.....	.....	.....

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 125.60 below lsd, Aug. 6, 1952. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	100.26	Mar. 31	98.90	July 9	122.43	Oct. 8	114.94
9	100.02	Apr. 7	100.10	16	122.77	15	115.48
15	102.42	14	102.05	23	122.93	22	122.88
22	101.94	25	104.95	30	124.70	29	114.08
29	101.66	May 6	112.50	Aug. 6	125.60	Nov. 5	112.34
Feb. 5	100.50	13	110.34	13	123.20	12	112.04
12	100.04	19	111.21	20	124.44	19	112.19
18	100.83	27	114.50	27	124.22	26	111.50
25	102.49	June 2	114.41	Sept. 3	121.96	Dec. 3	111.01
Mar. 3	104.18	10	118.57	10	122.42	10	112.90
10	102.16	17	122.87	17	121.82	17	121.85
17	100.82	24	123.08	24	117.27	24	111.63
24	99.80	July 2	125.05	Oct. 1	120.78	31	110.22

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 123.25 below lsd, July 30, 1952. Records available: 1940-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	101.07	Apr. 7	100.55	July 16	117.95	Oct. 15	115.70
9	100.53	14	104.07	23	119.88	22	112.55
15	101.55	25	104.08	30	123.25	29	112.48
22	100.99	May 6	108.75	Aug. 6	120.16	Nov. 5	113.30
29	99.93	13	108.96	13	121.62	12	111.83
Feb. 12	98.42	19	110.21	20	122.08	19	112.22
18	100.43	27	112.96	27	122.66	26	113.39
25	104.21	June 2	110.91	Sept. 3	118.92	Dec. 3	110.00
Mar. 3	106.00	9	115.68	10	117.10	10	112.46
10	99.77	17	118.65	17	117.89	17	111.60
17	98.88	24	120.27	24	115.28	24	111.89
24	99.29	July 2	121.15	Oct. 1	118.36	31	110.28
31	99.60	9	119.83	8	114.52		

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 119.6 below lsd, Aug. 1, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	93.7	95.5	97.9	93.5	103.2	104.6	118.6	119.6	112.3	111.9	106.1	101.9
2	93.0	94.6	96.5	94.5	104.7	105.8	118.5	118.4	114.0	112.3	104.9	102.8
3	93.5	92.7	96.6	95.1	104.3	107.4	119.0	116.1	114.6	111.4	104.7	103.1
4	93.9	92.8	96.9	95.1	102.4	109.0	117.9	116.2	113.0	110.2	105.1	103.7
5	93.4	93.5	96.8	93.9	103.9	110.4	113.6	116.9	113.0	108.6	105.3	104.5
6	92.6	93.8	97.2	92.2	105.4	111.1	112.1	117.2	111.9	106.8	105.8	104.8
7	93.5	94.2	97.0	92.6	106.5	110.2	112.8	117.4	110.7	106.4	106.3	103.6
8	94.8	94.1	96.2	95.0	108.2	108.4	114.4	117.8	111.6	106.1	105.7	104.5
9	95.8	93.8	94.8	96.5	108.9	110.0	113.2	116.4	113.8	105.6	104.4	105.6
10	96.5	92.8	94.6	96.5	107.7	111.3	113.9	114.4	115.0	107.0	104.2	104.9
11	96.2	93.8	95.3	96.9	105.0	112.8	115.1	114.7	115.0	107.4	104.6	104.7
12	95.7	94.0	95.5	96.3	101.8	114.0	114.1	116.6	115.6	105.9	104.4	104.8
13	94.3	94.8	95.9	94.8	103.0	115.7	112.4	116.8	114.6	106.8	104.8	104.8
14	95.0	95.9	96.2	94.5	103.8	115.1	114.0	117.0	113.1	108.3	105.3	103.2
15	95.4	96.4	96.2	95.2	105.3	113.5	114.9	118.1	112.8	107.2	105.1	102.9
16	95.5	95.6	94.6	96.2	107.6	114.6	115.3	118.0	113.9	107.6	103.8	104.0
17	96.0	93.6	95.0	97.2	107.4	115.8	115.3	116.6	113.9	107.7	105.0	104.6
18	96.6	94.0	95.3	98.0	105.5	116.8	116.1	117.3	113.7	107.0	105.6	105.2
19	96.0	94.6	95.0	98.1	103.8	117.6	115.3	117.9	114.0	105.1	104.6	105.9
20	95.4	95.6	95.9	96.4	104.0	118.3	113.8	118.2	112.4	105.8	104.7	105.0

79:21-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	95.1	96.0	96.9	97.2	105.3	117.0	113.4	118.8	110.8	105.8	104.8	103.8
22	95.3	96.5	95.8	98.0	107.0	115.8	114.6	119.2	110.3	105.6	104.1	103.4
23	96.1	96.1	94.0	99.4	108.3	115.3	115.4	118.0	110.7	106.2	102.8	104.2
24	96.4	94.8	92.9	98.8	106.7	116.8	116.0	116.6	110.8	106.3	103.0	104.1
25	96.4	95.3	94.1	97.7	105.2	117.9	116.7	115.6	111.2	106.6	104.1	103.5
26	95.7	95.2	94.1	97.3	105.8	118.6	116.3	117.2	111.4	05.2	104.8	101.6
27	94.5	95.9	93.9	96.1	107.2	119.0	115.0	117.8	110.4	106.0	103.6	100.7
28	94.2	97.0	93.8	98.8	108.0	118.4	116.3	117.9	109.0	106.3	103.3	99.0
29	94.8	97.9	93.5	100.4	107.3	117.4	117.7	118.7	110.3	105.7	102.8	99.6
30	95.1		92.0	102.1	107.3	117.8	118.7	117.8	111.2	105.7	101.5	101.1
31	95.4		92.0		106.5		119.1	116.3		106.5		101.5

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: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	98.27	Feb. 25	96.69	Apr. 25	97.42	June 17	104.52
9	96.43	Mar. 3	98.53	May 6	95.99	24	104.47
15	97.12	10	98.96	13	98.68	July 23	105.40
22	96.54	17	95.88	19	99.87	Sept. 10	106.10
29	96.24	24	95.50	27	99.92	17	106.35
Feb. 5	95.52	31	94.43	June 2	99.94	24	106.30
12	95.69	Apr. 7	95.39	10	101.43	Dec. 24	105.35
18	95.73	14	96.63				

79:26-2. Lee R. Holcomb. Near Raleigh. Lat. 35°17'45", long. 89°55'38". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 340 feet. Land-surface datum is about 295 feet above msl. Highest water level 72.59 below lsd, July 14, 1947; lowest 85.63 below lsd, Dec. 10, 1951. Records available: 1944-52. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	80.99	Jan. 21	82.10	Feb. 11	80.87	Mar. 3	80.30
7	81.44	28	80.94	18	80.66	10	80.24
14	81.60	Feb. 4	80.50	25	80.48	17	80.41

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: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	42.06	Mar. 31	39.62	July 9	39.87	Oct. 8	41.48
9	41.43	Apr. 7	39.89	16	41.50	15	41.77
15	42.05	14	39.89	23	41.10	22	41.65
22	41.87	25	39.82	30	41.03	30	41.57
29	41.87	May 5	39.40	Aug. 6	40.93	Nov. 6	41.53
Feb. 5	41.69	13	39.58	13	41.05	13	41.65
12	41.09	19	39.39	20	40.86	20	42.73
18	41.08	27	39.38	27	41.44	27	42.17
25	40.88	June 2	39.36	Sept. 3	41.75	Dec. 4	41.79
Mar. 3	40.36	10	39.37	10	41.58	11	42.00
10	39.57	17	39.38	17	41.46	18	39.98
17	40.18	24	39.07	24	41.80	24	42.22
24	40.09	July 2	38.67	Oct. 1	42.19	31	42.18

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 127.95 below lsd, July 30, 1952. Records available: 1944-47, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	117.64	Feb. 18	115.97	Apr. 7	116.16	June 2	121.93
10	117.43	25	115.94	14	116.05	10	124.12
15	116.48	Mar. 3	115.89	25	116.38	17	126.03
22	111.44	10	116.01	May 5	115.15	24	126.03
29	116.56	17	116.68	13	115.69	July 2	127.00
Feb. 5	117.19	24	116.44	19	118.94	9	125.14
12	116.16	31	115.78	27	121.18	16	125.80

79:33-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 23	126.24	Sept. 3	125.62	Oct. 15	123.40	Nov. 27	120.89
30	127.95	10	125.04	22	123.10	Dec. 4	120.24
Aug. 6	125.35	17	124.80	30	123.30	11	118.60
13	125.79	24	123.80	Nov. 6	122.20	18	118.39
20	127.00	Oct. 1	124.31	13	121.47	24	118.64
27	127.60	8	123.28	20	121.13	31	119.50

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 51.95 below lsd, Aug. 6, 1952. Records available: 1944-47, 1949-52.

Jan. 4	41.71	Mar. 31	39.09	July 9	49.55	Oct. 8	49.63
9	40.59	Apr. 7	39.70	16	49.29	15	48.91
15	40.75	14	40.89	23	50.03	22	48.67
22	39.41	25	41.00	30	51.83	29	48.35
29	40.27	May 6	40.14	Aug. 6	51.95	Nov. 5	48.37
Feb. 5	39.36	13	42.63	13	51.45	12	48.28
12	39.32	19	37.45	20	51.68	19	47.70
18	39.30	27	43.90	27	51.55	26	47.80
25	39.78	June 2	45.28	Sept. 3	50.39	Dec. 3	47.82
Mar. 3	40.48	10	46.01	10	50.20	10	47.83
10	40.78	17	48.08	17	50.40	17	48.05
17	40.30	24	49.69	24	50.11	24	47.63
24	39.38	July 2	50.42	Oct. 1	50.04	31	46.38

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 265 feet above msl. Highest water level 58.87 below lsd, Nov. 29, 1948; lowest 71.95 below lsd, Aug. 14, 1952. Records available: 1944-52.

Jan. 3	66.63	Apr. 4	65.54	July 3	68.62	Oct. 16	68.29
7	65.02	11	65.79	10	68.17	23	68.11
21	66.10	17	65.90	17	68.31	30	68.04
28	65.97	25	65.80	24	68.56	Nov. 6	67.27
Feb. 4	65.75	May 2	66.50	31	68.80	13	67.95
11	65.94	12	65.76	Aug. 7	68.85	20	68.18
18	66.10	19	66.20	14	71.95	27	68.33
25	65.79	26	66.05	Sept. 4	68.99	Dec. 4	67.55
Mar. 3	65.46	June 2	66.37	11	68.80	11	67.98
10	65.30	9	66.99	25	68.54	18	68.02
17	65.86	16	67.67	Oct. 2	68.60	24	67.97
24	65.68	23	68.25	9	68.38	31	67.49
31	65.60						

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: 1944-52.

Jan. 9	41.30	Apr. 7	34.41	July 16	39.14	Oct. 15	42.30
15	41.10	14	34.10	23	39.53	22	42.51
22	41.37	25	33.86	30	39.92	29	42.63
29	40.12	May 5	33.96	Aug. 6	40.20	Nov. 5	42.80
Feb. 5	39.90	13	34.35	13	40.40	12	42.95
12	39.21	19	34.72	20	40.63	19	43.03
18	38.56	27	35.23	27	40.90	26	43.18
25	37.82	June 2	35.57	Sept. 3	41.14	Dec. 3	43.33
Mar. 3	37.97	10	36.10	10	41.38	10	43.39
10	36.52	17	36.68	17	41.58	17	43.54
17	35.79	24	37.36	24	41.83	24	43.63
24	35.09	July 2	38.15	Oct. 1	41.90	31	43.73
31	34.72	9	38.68	8	42.10		

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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 101.4 below lsd, July 30, 1952. Records available: 1945-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.6	83.3	81.9	84.0	83.8	85.3	88.3	98.0	86.6	92.2	91.7	90.4
2	79.0	82.3	77.9	85.7	83.5	85.9	87.4	....	90.2	91.2	85.0	92.6
3	82.1	77.8	79.0	86.9	83.1	87.5	85.6	....	93.0	90.8	87.0	92.7
4	83.3	78.5	81.4	88.3	79.5	89.3	85.5	....	93.5	90.8	90.7	92.4
5	83.0	80.8	83.0	87.3	80.1	92.1	86.8	97.8	93.0	85.9	91.4	92.7
6	80.2	81.1	83.4	80.5	83.0	93.1	85.5	96.7	92.5	86.7	91.8	92.4
7	79.0	82.2	83.6	81.4	86.2	92.5	89.7	96.8	88.5	89.9	91.2	90.1
8	80.1	83.3	82.8	85.3	91.1	86.8	93.7	95.6	90.5	90.8	91.0	90.0
9	82.9	82.0	80.2	86.5	92.2	87.0	94.3	93.3	92.4	90.6	85.2	91.1
10	84.5	77.2	79.9	88.9	90.2	89.9	93.6	90.0	93.2	91.6	86.0	91.5
11	84.0	76.9	81.4	90.2	84.6	92.5	92.7	93.1	93.7	91.1	87.9	92.1
12	82.6	79.6	82.6	88.9	80.7	91.5	91.1	95.0	94.7	85.3	87.9	92.4
13	79.2	80.7	84.3	82.6	85.4	93.3	88.5	95.2	94.1	87.6	87.8	92.4
14	80.9	79.3	83.2	83.2	89.7	92.8	90.8	95.6	88.1	89.5	87.9	90.7
15	84.3	81.3	82.0	87.3	91.0	89.2	93.9	94.9	90.0	90.9	87.8	90.1
16	83.5	79.8	79.4	89.8	93.3	91.6	94.4	94.8	92.7	91.4	84.3	92.0
17	83.4	77.2	80.8	91.0	92.3	93.8	95.5	90.6	93.0	92.6	86.7	92.5
18	84.1	78.2	82.5	90.2	85.3	93.8	94.6	92.9	93.3	92.5	88.5	92.5
19	81.8	....	83.3	87.1	85.2	94.8	93.7	95.0	92.8	84.6	87.5	92.3
20	78.8	80.9	83.9	81.8	87.7	95.4	92.4	95.8	92.6	86.4	90.6	92.2
21	78.9	81.4	84.0	81.1	88.2	94.2	91.5	95.6	88.6	88.9	92.3	89.9
22	81.3	83.6	82.9	82.8	87.1	91.6	94.6	95.8	91.2	90.9	91.0	88.7
23	81.9	81.5	78.2	84.2	87.4	90.9	95.3	95.3	94.0	90.8	90.2	89.6
24	80.8	77.0	79.2	83.4	86.8	93.7	96.5	91.3	94.6	90.0	90.8	89.6
25	83.1	79.6	82.0	83.4	84.4	95.4	98.3	92.4	94.4	88.2	91.8	82.5
26	81.8	83.3	82.8	81.7	83.9	97.2	97.8	95.0	94.8	84.0	92.8	81.1
27	78.3	83.9	83.1	78.2	87.7	97.1	95.8	94.9	93.3	87.0	92.6	80.7
28	79.6	82.6	87.4	80.6	90.7	96.2	96.0	95.7	88.4	89.0	89.6	80.4
29	82.7	83.1	86.4	83.1	92.1	91.0	98.5	95.8	89.3	90.3	90.1	87.7
30	83.8		81.0	83.9	93.1	89.7	101.4	95.0	92.6	91.5	89.9	90.5
31	82.5		81.9		91.1		100.3	89.1		92.5		90.4

79:54-1. Jasper Transfer & Storage Co. Beale Ave. and Hernando St., Memphis. Lat. 35°08'21", long. 90°02'59". Drilled unused artesian well in sand of Claiborne group, diameter 6 inches, reported depth 187 feet. Land-surface datum is about 250 feet above msl. Highest water level 62.81 below lsd, Jan. 22, 1946; lowest 98.38 below lsd, Nov. 28, 1950. Records available: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	81.75	Jan. 29	73.22	Feb. 18	72.62	Mar. 10	73.60
9	81.07	Feb. 5	72.20	25	74.85	17	73.04
15	74.35	12	76.70	Mar. 3	78.45	24	71.24
22	74.09						

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 109.50 below lsd, Aug. 27, 1952. Records available: 1949-52.

Jan. 4	89.62	Mar. 31	87.89	July 9	106.34	Oct. 8	101.30
10	87.99	Apr. 7	87.90	16	105.98	15	101.22
15	89.77	14	89.95	23	107.07	22	101.50
22	88.63	25	91.62	30	107.66	29	101.10
29	90.35	May 6	94.60	Aug. 6	107.70	Nov. 5	100.92
Feb. 5	89.10	13	96.64	13	108.62	12	98.70
12	90.29	19	97.34	20	109.05	19	99.00
18	89.97	29	98.64	27	109.50	26	98.63
25	90.73	June 2	100.92	Sept. 3	108.70	Dec. 3	98.28
Mar. 3	85.17	10	99.77	10	106.58	10	97.60
10	91.01	17	101.86	17	107.13	17	99.47
17	91.09	24	103.75	24	105.17	24	99.60
24	89.72	July 2	105.65	Oct. 1	104.35	31	95.88

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: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	81.67	Mar. 31	82.88	July 16	78.65	Oct. 8	91.98
9	82.41	Apr. 7	86.40	23	90.95	15	92.87
15	87.92	14	83.20	30	95.38	22	88.53
22	83.95	25	88.13	Aug. 6	92.97	30	84.91
29	87.53	May 5	86.80	13	96.65	Nov. 6	83.52
Feb. 5	86.44	13	86.52	20	95.30	13	86.68
12	83.80	19	87.86	27	95.46	20	87.75
18	82.75	27	87.58	Sept. 3	86.73	Dec. 4	88.54
25	86.34	June 2	89.59	10	93.24	11	88.12
Mar. 3	81.68	10	91.69	17	93.78	18	89.55
10	85.65	17	94.35	24	84.24	24	81.05
17	84.48	24	95.60	Oct. 1	88.67	31	86.45
24	87.06	July 9	78.25				

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 140.8 below lsd, Aug. 1, 1952. Records available: 1945-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	115.0	117.3	119.4	115.1	124.4	.....	139.6	140.8	133.6	132.7	127.7	.....
2	.....	116.6	115.1	116.5	125.7	.....	139.6	139.7	135.0	133.2	124.4	h124.52
3	.....	111.6	118.1	116.8	125.8	h125.70	140.0	135.0	135.6	132.6	126.3	124.9
4	h114.51	.....	118.7	116.8	120.6	129.5	137.2	137.3	134.3	131.1	127.0	.....
5	114.8	h114.80	118.5	115.6	124.8	130.6	134.7	138.0	134.2	127.0	127.2	.....
6	111.5	115.7	119.0	110.8	126.2	131.2	.....	138.4	132.8	128.5	127.6	.....
7	114.8	116.2	118.8	114.3	127.3	130.6	.....	138.5	129.4	128.2	128.1	.....
8	116.1	116.0	118.1	116.4	129.0	126.6	h135.24	138.9	132.4	127.9	127.5	.....
9	117.2	115.8	113.6	117.9	129.7	130.4	134.0	137.6	134.8	127.2	123.2	h126.60
10	117.9	111.2	116.4	118.3	128.6	h130.50	.....	132.6	136.0	128.8	126.0	126.6
11	117.6	115.6	117.2	118.7	122.7	.....	.....	135.7	135.9	128.6	126.4	126.3
12	117.1	116.1	117.4	117.8	122.8	.....	.....	137.8	136.6	124.9	126.2	126.4
13	113.2	116.8	117.8	113.4	123.8	.....	.....	137.9	135.3	128.0	126.8	125.7
14	116.4	118.0	118.1	116.1	124.6	.....	.....	138.1	132.0	129.3	127.2	122.4
15	116.9	118.3	118.2	116.8	126.0	.....	h134.26	139.3	133.6	128.9	126.4	124.6
16	115.0	117.4	113.6	117.8	128.1	.....	.....	136.3	138.9	134.9	129.0	122.6
17	115.6	112.4	117.0	118.8	127.9	h136.09	.....	136.1	135.2	134.9	129.0	126.3
18	116.2	115.7	117.4	119.7	123.2	.....	.....	137.0	138.4	134.4	128.3	127.1
19	115.3	116.2	117.0	119.3	124.9	.....	.....	136.1	139.0	134.8	123.9	126.5
20	114.2	117.5	117.6	115.0	125.0	.....	.....	132.2	139.4	133.2	127.3	126.6
21	114.5	117.8	118.4	118.5	.....	.....	.....	134.2	139.8	129.3	127.6	126.8
22	115.9	118.1	117.3	119.4	.....	.....	.....	135.5	140.2	131.2	127.4	126.0
23	117.8	117.8	112.6	120.8	.....	.....	.....	136.4	139.0	131.6	127.7	h125.10
24	118.2	113.9	114.6	120.5	.....	h136.77	.....	137.0	135.0	131.8	127.8	124.7
25	118.4	117.0	116.0	119.5	.....	.....	138.7	137.8	136.6	131.9	127.6	125.9
26	117.4	117.0	.....	118.9	.....	.....	.....	139.5	137.1	138.3	132.2	123.9
27	113.9	117.6	.....	114.7	h126.82	.....	.....	140.0	133.8	138.8	131.0	127.2
28	116.1	118.7	.....	120.1	.....	.....	.....	139.4	137.4	138.8	127.4	.....
29	116.6	119.4	.....	121.8	.....	.....	.....	137.4	138.8	139.7	130.9	127.6
30	117.1	.....	.....	123.3	.....	.....	.....	138.7	139.9	138.9	131.9	127.5
31	117.3	.....	h112.73	.....	.....	.....	.....	140.1	134.9	128.0	.....	h121.56

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 106.67 below lsd, July 2, 1952. Records available: 1946-52.

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79:87-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	85.62	Mar. 31	89.07	July 9	101.59	Oct. 8	100.79
9	85.99	Apr. 4	90.90	16	101.17	15	98.35
15	92.63	14	91.24	23	101.87	22	99.04
22	90.44	25	92.41	30	105.52	29	98.40
29	92.35	May 6	96.03	Aug. 6	106.59	Nov. 5	100.54
Feb. 5	90.57	13	96.27	13	105.74	12	98.16
12	90.75	19	95.62	20	103.50	19	91.85
18	89.50	27	99.50	27	104.58	26	92.86
25	92.94	June 2	98.35	Sept. 3	102.04	Dec. 3	89.97
Mar. 3	93.26	10	101.40	10	100.74	10	93.58
10	92.65	17	103.39	17	101.30	17	93.18
17	90.07	24	103.36	24	101.42	24	94.20
24	88.69	July 2	106.67	Oct. 1	100.99	31	90.80

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 125.43 below lsd, July 30, 1952. Records available: 1944-52.

Jan. 4	109.10	Mar. 31	106.99	July 9	123.10	Oct. 8	121.68
9	109.00	Apr. 7	106.80	16	123.16	15	120.88
15	108.82	14	110.10	23	123.36	22	120.35
22	106.35	25	109.58	30	125.43	29	118.23
29	108.05	May 6	112.84	Aug. 6	125.20	Nov. 5	118.04
Feb. 5	107.36	13	114.80	13	124.91	12	117.77
12	107.07	19	115.64	20	124.60	19	117.34
18	106.97	27	114.70	27	124.36	26	117.26
25	108.49	June 2	116.20	Sept. 3	124.10	Dec. 3	116.60
Mar. 3	110.25	10	118.98	10	122.52	10	117.55
10	109.29	17	122.20	17	121.83	17	117.58
17	107.04	24	123.39	24	122.95	24	117.40
24	107.45	July 2	124.49	Oct. 1	123.04	31	117.40

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 139.69 below lsd, Aug. 18, 1948. Records available: 1946-52.

Jan. 3	120.09	Apr. 4	124.78	July 14	134.47	Oct. 6	131.31
7	121.49	11	125.72	21	134.90	13	130.92
14	123.91	17	125.98	28	136.73	20	130.34
21	124.98	25	124.27	Aug. 4	137.09	27	130.25
28	123.35	May 2	125.05	11	135.95	Nov. 3	130.00
Feb. 4	121.15	12	127.40	18	137.41	10	129.40
11	121.67	19	128.00	25	136.27	17	128.44
18	121.92	26	128.12	29	137.20	24	129.06
25	122.65	June 2	128.15	Sept. 5	135.06	Dec. 1	128.64
Mar. 3	122.59	9	131.03	8	132.51	8	129.12
10	123.00	16	134.52	15	134.47	15	128.50
17	122.27	23	135.55	22	132.60	22	129.42
24	121.20	30	137.92	29	130.58	29	126.94
31	121.62	July 7	134.02				

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 485 feet. Land-surface datum is about 220 feet above msl. Highest water level 20.67 below lsd, Feb. 21, 1950; lowest 38.80 below lsd, Aug. 6, 1952. Records available: 1946-52.

Jan. 4	28.80	Mar. 3	27.37	May 13	29.39	July 16	36.34
9	27.85	10	27.42	19	30.84	23	37.04
15	27.94	17	26.90	27	30.86	30	38.74
22	27.93	24	26.09	June 2	31.60	Aug. 6	38.80
29	27.36	31	25.40	10	32.73	13	38.30
Feb. 5	26.56	Apr. 7	26.12	17	34.99	20	38.47
12	26.22	14	27.29	24	36.36	27	38.44
18	26.20	25	27.97	July 2	36.86	Sept. 3	37.44
25	26.78	May 6	27.08	9	36.66	10	37.28

79:142-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 17	37.47	Oct. 15	36.40	Nov. 12	35.65	Dec. 10	35.24
24	36.15	22	36.00	19	34.90	17	35.46
Oct. 1	37.34	29	35.85	26	35.29	24	34.83
8	36.72	Nov. 5	34.74	Dec. 3	35.05	31	34.08

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 48.05 below lsd, Sept. 3, 1952. Records available: 1946-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	47.03	46.96	45.83	46.37	46.74	47.38	47.63	47.92	47.68	47.55	47.27
2	.....	46.90	46.91	45.88	46.35	46.74	47.45	47.63	47.98	47.76	47.56	.....
3	.....	46.63	46.81	45.84	46.40	46.68	47.49	47.60	48.05	47.79	47.69	46.99
4	.....	46.77	47.21	45.82	46.43	46.65	47.54	47.62	.....	47.71	47.69	46.92
5	.....	46.78	47.28	45.96	46.36	46.64	47.61	47.66	.....	47.68	47.51	46.94
6	.....	46.87	47.32	46.01	46.32	46.71	47.64	47.68	.....	47.71	47.58	46.90
7	.....	46.87	47.35	46.03	46.30	46.73	47.65	47.64	.....	47.72	47.64	46.83
8	.....	46.79	47.31	46.00	46.21	46.71	47.65	47.63	.....	47.65	47.57	46.75
9	.....	46.78	47.16	46.08	46.14	46.74	47.50	47.61	.....	47.55	47.47	46.69
10	.....	46.73	46.96	46.23	46.14	46.75	47.69	47.64	48.02	47.61	47.46	46.72
11	h46.81	46.64	47.07	46.21	46.23	46.77	47.75	47.65	47.96	47.65	47.51	46.75
12	46.81	46.59	47.06	46.03	46.29	46.76	47.81	47.72	47.89	47.61	47.53	46.77
13	46.74	46.43	46.94	46.12	46.37	46.83	47.81	47.78	47.89	47.58	47.48	46.76
14	46.67	46.43	46.99	46.28	46.35	46.88	47.77	47.77	47.87	47.57	47.40	46.78
15	46.72	46.43	47.05	46.40	46.34	46.91	47.74	47.73	47.88	47.64	47.39	46.77
16	46.74	46.35	47.02	46.50	46.43	46.90	47.76	47.72	47.85	47.64	47.41	46.77
17	46.67	46.46	46.89	46.55	46.53	46.93	47.74	47.80	47.77	47.65	47.41	46.71
18	46.80	46.46	46.62	46.54	46.60	46.96	47.76	47.84	47.68	47.68	47.35	46.68
19	46.70	46.38	46.56	46.51	46.61	47.00	47.73	47.83	47.80	47.63	47.26	46.66
20	46.80	46.48	46.47	46.52	46.64	47.01	47.65	47.84	47.84	47.74	47.27	46.63
21	46.79	46.55	46.40	46.52	46.72	47.06	47.63	47.87	47.85	47.75	47.30	46.64
22	46.83	46.53	46.35	46.53	46.74	47.15	47.63	47.90	47.85	47.71	47.30	46.54
23	47.08	46.50	46.35	46.47	46.77	47.21	47.61	47.90	47.88	47.65	47.39	46.65
24	47.08	46.59	46.24	46.46	46.70	47.21	47.61	47.91	47.89	47.61	47.36	46.70
25	47.00	46.68	46.19	46.48	46.71	47.22	47.58	47.94	47.87	47.58	47.14	46.78
26	46.88	46.70	46.21	46.44	46.76	47.27	47.58	47.97	47.83	47.60	47.36	46.78
27	46.98	46.71	46.23	46.44	46.77	47.30	47.56	47.97	47.81	47.55	47.43	46.80
28	47.04	46.61	46.17	46.44	46.78	47.33	47.52	47.92	47.80	47.67	47.44	46.79
29	47.12	46.79	46.12	46.41	46.76	47.36	47.54	47.93	47.82	47.74	47.37	46.74
30	47.15		46.06	46.41	46.72	47.34	47.54	47.91	47.77	47.67	47.32	46.63
31	47.10		45.91		46.68		47.60	47.90		47.59		46.67

h Tape measurement.

79:149-1. Hugh O. Cobb. Near Brunswick. Lat. 35°17'03", long. 89°45'48". Drilled domestic artesian well in sand of Claiborne group, diameter 3 inches, depth 214 feet. Land-surface datum is about 250 feet above msl. Highest water level 9.14 above lsd, Jan. 18, 1946; lowest 0.64 above lsd, July 11, 1944. Records available: 1944-47, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+5.49	Apr. 2	+6.49	July 3	+5.00	Nov. 6	+3.10
16	5.88	15	6.47	17	4.69	20	3.16
Feb. 5	6.16	May 8	6.34	31	4.38	Dec. 4	3.18
19	6.16	19	6.09	Aug. 14	3.84	18	3.02
Mar. 4	6.94	June 2	5.90	28	3.86	31	3.00
18	6.64	18	5.59	Sept. 11	3.44		

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 102.00 below lsd, Oct. 27, 1948. Records available: 1944-52.

79:167-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	96.73	Apr. 15	96.87	July 31	97.25	Oct. 23	98.35
16	96.60	May 8	98.00	Aug. 14	98.62	Nov. 6	98.39
Feb. 5	97.73	19	96.71	28	98.09	20	98.38
19	98.26	June 2	98.27	Sept. 11	97.40	Dec. 4	98.63
Mar. 4	98.44	16	96.80	25	98.67	18	98.35
18	96.30	July 3	100.70	Oct. 9	98.31	31	97.46
Apr. 2	96.80	17	98.07				

79:174-1. J. O. 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 26.04 below lsd, Oct. 21, 1947. Records available: 1946-52.

Jan. 4	20.75	Mar. 31	19.97	July 9	23.48	Oct. 8	25.13
9	20.17	Apr. 7	19.88	16	23.77	15	25.28
15	20.34	14	19.66	23	24.01	22	25.32
22	21.16	25	19.57	30	23.99	29	25.46
29	20.46	May 6	19.67	Aug. 6	23.55	Nov. 5	25.47
Feb. 5	19.29	13	20.50	13	23.67	12	25.17
12	20.13	19	21.40	20	24.00	19	24.73
18	19.95	27	21.70	27	24.30	26	24.74
25	19.81	June 2	21.98	Sept. 3	24.32	Dec. 3	24.30
Mar. 3	20.34	10	22.40	10	24.63	10	24.16
10	20.54	17	22.71	17	24.73	17	24.40
17	19.77	24	23.04	24	24.07	24	24.48
24	19.77	July 2	23.00	Oct. 1	24.98	31	24.59

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 58.77 below lsd, Feb. 16, 1950; lowest 66.31 below lsd, Oct. 13, 1948. Records available: 1945-52.

Jan. 5	59.49	Apr. 15	59.40	July 31	60.70	Oct. 23	61.44
16	59.35	May 8	59.92	Aug. 14	60.83	Nov. 6	61.38
Feb. 5	58.98	19	59.99	28	61.00	20	61.34
19	59.67	June 2	60.13	Sept. 11	61.10	Dec. 4	61.30
Mar. 4	59.27	18	60.33	25	61.16	18	61.50
18	59.49	July 3	60.46	Oct. 9	61.27	31	61.69
Apr. 2	59.49	17	60.62				

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 33.98 below lsd, Feb. 21, 1950. Records available: 1947-52.

Jan. 4	42.90	Feb. 12	40.63	Mar. 24	40.53	May 13	43.65
9	40.60	18	40.61	31	39.30	19	45.11
15	41.87	25	41.51	Apr. 7	40.15	27	45.84
22	41.66	Mar. 3	42.26	14	41.37	June 2	45.77
29	40.11	10	42.05	25	42.32	10	46.91
Feb. 5	40.50	17	39.89	May 6	39.50		

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 99.3 below lsd, June 27, 1952. Records available: 1949-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.9	82.6	84.7	74.3	.....	82.6	98.3	.....	89.5	95.8	.....	.....
2	77.5	82.5	82.6	74.6	h85.10	86.1	98.6	.....	92.5	.....	.....	h88.52
3	79.1	81.0	80.6	74.6	86.1	89.2	98.5	94.3	.....	96.8	.....	90.4
4	80.4	79.3	81.5	74.6	86.5	90.2	95.8	96.0	94.1	.....	88.1	91.0
5	79.9	79.7	81.7	74.5	88.6	91.6	88.4	96.7	93.6	.....	88.7	91.1
6	79.4	.....	82.9	72.4	89.8	92.6	86.2	.....	94.6	.....	.....	90.9
7	79.9	.....	81.8	75.3	87.4	92.9	91.1	.....	93.8	h92.76	.....	89.6
8	81.1	.....	81.8	77.6	88.5	86.3	93.0	.....	.....	92.7	.....	88.8
9	81.7	.....	81.4	.....	89.2	90.6	93.6	.....	h93.86	.....	.....	90.3
10	82.5	.....	78.9	.....	88.2	93.4	94.6	94.3	.....	94.2	.....	90.6

79:193-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	82.7	h80.17	80.1	h79.83	85.8	94.5	95.2	.....	.....	94.8	89.6	90.8
12	83.6	81.7	81.1	79.7	82.9	95.6	94.5	h95.12	.....	.....	.....	91.1
13	81.0	81.3	80.5	.....	84.2	97.4	91.0	.....	.....	.....	.....	91.0
14	79.7	81.9	82.4	.....	84.4	97.7	93.6	.....	95.4	91.8	89.9	.....
15	81.4	83.2	81.9	.....	85.0	96.8	95.0	.....	.....	93.2	89.7	89.4
16	82.0	82.1	80.9	.....	85.4	94.1	96.3	.....	h94.93	93.0	.....	89.9
17	83.2	80.3	79.9	h80.34	84.5	95.2	96.4	94.4	96.4	93.4	.....	91.0
18	82.6	80.6	79.9	.....	82.6	.....	96.6	90.2	.....	.....	h87.57	91.5
19	83.2	82.0	79.8	.....	82.8	.....	96.4	91.5	.....	.....	.....	91.7
20	80.8	82.7	79.9	.....	84.4	.....	.....	95.0	.....	.....	.....	91.7
21	79.3	82.1	80.3	.....	86.9	.....	.....	94.2	94.6	h90.70	.....	.....
22	80.2	82.3	81.0	.....	88.2	.....	94.4	92.6	.....	.....	.....	.....
23	79.6	83.4	78.8	.....	89.5	95.6	94.8	92.8	h92.41	91.2	.....	h89.70
24	80.1	81.4	76.6	.....	88.7	97.3	96.1	92.6	.....	.....	87.8	.....
25	82.6	80.8	77.6	h82.63	86.7	98.1	96.2	94.9	.....	.....	89.6	.....
26	83.6	81.8	.....	.....	87.0	99.1	96.0	95.6	.....	.....	90.2	.....
27	80.8	83.3	79.2	.....	89.2	99.3	93.0	.....	.....	.....	.....	.....
28	80.9	83.2	79.0	.....	89.6	98.9	94.2	.....	.....	h91.10	.....	.....
29	81.6	83.6	78.7	.....	89.4	96.1	96.4	.....	92.1	90.8	.....	.....
30	82.2	.....	77.2	.....	87.8	96.6	98.1	.....	93.9	.....	.....	h85.27
31	83.4	.....	74.7	.....	85.2	.....	98.6	94.7	.....	90.8	.....	.....

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: 1950-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.01	85.12	84.92	84.77	84.79	84.86	84.96	84.99	84.78	84.79	84.98	h84.99
2	85.02	84.93	84.87	84.88	84.80	84.91	85.09	84.94	84.77	84.93	84.98	84.96
3	85.18	84.61	84.70	84.87	84.87	84.89	85.12	84.91	84.92	84.97	85.11	84.99
4	85.18	84.65	84.97	84.79	84.95	84.86	85.07	84.90	84.96	84.96	85.12	.....
5	84.97	84.84	85.10	84.93	84.91	84.86	85.07	84.96	84.95	84.89	84.92	84.86
6	85.14	84.97	85.17	85.03	84.88	84.95	85.07	84.94	84.92	84.95	84.92	84.88
7	85.16	84.99	85.16	85.05	84.94	84.96	85.05	84.88	84.93	84.99	85.00	84.87
8	85.04	84.96	85.16	84.98	84.86	84.93	84.92	84.82	84.99	84.91	85.01	84.83
9	84.85	84.98	84.91	85.01	84.76	84.92	84.98	84.75	84.99	84.74	84.88	84.77
10	85.15	84.90	84.78	85.03	84.71	84.91	84.96	84.79	84.97	84.82	84.77	84.76
11	85.35	84.93	84.80	85.04	84.83	84.90	85.03	84.80	84.92	84.92	84.86	84.80
12	85.21	84.90	84.80	84.83	85.00	84.84	85.06	84.84	84.89	84.89	84.92	84.88
13	85.13	84.78	84.72	84.63	85.01	84.88	85.06	84.96	84.93	84.87	84.89	84.88
14	85.00	84.83	84.84	84.80	84.94	84.89	85.03	84.96	84.92	84.85	84.81	84.95
15	84.96	84.84	84.94	84.95	84.83	84.90	85.00	84.89	84.88	84.86	84.88	84.95
16	85.06	84.71	84.98	85.06	84.85	84.86	85.05	84.81	84.86	84.90	84.95	84.99
17	85.01	84.92	84.93	85.08	84.88	84.87	85.07	84.92	84.74	84.95	84.93	84.99
18	85.04	84.95	84.74	85.04	84.88	84.93	85.10	84.93	84.67	84.96	84.91	84.96
19	85.06	84.86	84.77	84.97	84.86	84.91	85.07	84.91	84.82	84.95	84.73	84.98
20	84.89	84.95	84.78	85.00	84.83	84.91	84.99	84.91	84.89	85.14	84.75	84.81
21	85.04	85.08	84.74	85.03	84.97	84.92	85.02	84.90	84.90	85.15	84.76	84.85
22	84.90	85.04	84.70	85.02	84.98	84.97	85.04	84.90	84.90	85.13	84.80	84.77
23	84.98	85.01	84.79	84.95	84.98	85.00	85.03	84.91	84.95	85.05	84.92	84.83
24	85.23	84.94	84.80	84.85	84.89	84.95	85.03	84.94	84.96	85.00	84.97	84.95
25	85.20	84.98	84.84	84.88	84.84	84.90	85.01	84.96	84.95	84.94	84.79	85.01
26	85.01	84.93	84.94	84.81	84.91	84.93	85.01	85.00	84.89	84.97	84.98	85.01
27	84.87	84.89	84.97	84.80	84.94	84.92	84.98	84.97	84.88	84.92	85.10	85.01
28	84.85	84.74	85.02	84.81	84.90	84.91	84.91	84.90	84.92	84.97	85.13	85.02
29	85.14	84.59	85.04	84.80	84.85	84.93	84.86	84.93	84.98	85.09	85.16	85.01
30	85.17	.....	85.03	84.85	84.77	84.88	84.90	84.79	84.92	85.07	.....	84.87
31	85.17	.....	84.92	.....	84.77	.....	84.98	84.79	.....	85.02	.....	84.82

h Tape measurement.

VIRGINIA

By Rodney Hart and Allen Sinnott

Scope of Water-Level Program

The two programs of water-level measurements, begun in June 1928 in cooperation with the State Geological Survey, were continued in 1952. In northern Virginia, month-end tape measurements were made in six wells, and in eastern Virginia, measurements were made in ten wells, two of which were equipped with recording gages. (See fig. 37.)

Interpretation of Water-Level Fluctuations

Eastern Virginia. --The decline in water level in well 8 in Accomack County, at the Chincoteague Naval Auxiliary Air Station, has apparently ceased, and the slight recovery at the end of 1951 continued into 1952, with only a minor reversal near the end of the year.

Above-normal precipitation in the spring was reflected in the water level in well 36, in Chesterfield County, culminating in a new high for the period of record at the end of March. At the end of the year, the water level was about a foot and a half higher than the year-end level for 1951. The rainfall at Richmond was 8.79 inches above normal during 1952, compared with 3.76 inches below normal during 1951.

The water level in well 161 in Isle of Wight County, at the pulp mill in East Franklin, continued to decline in response to the pumping of an additional large-yield well at the mill. A new record low level was reached in October, about 3 feet below the low level for September 1951. Temporary recovery of the water level by about 10 feet occurred twice, when the mill was shut down for a week in late May and again over July 4.

Well 1, Louisa County, was drilled in 1952 as an observation well. The water level declined steadily in this well until November 18, but recovered about 4 feet by the end of the year, apparently in response to lessening of evapotranspiration during the winter.

The water level in well 13, at the Old Dominion Water Corporation in Hopewell, Prince George County, showed substantially the same pattern of fluctuation as in 1951. Artificial recharge (in order to store cold water in the ground for reuse during the summer) was probably carried on from January to March at the nearby Solvay Process Plant. Summer pumping at this plant began about mid-May, bringing the water level down to nearly 49 feet below the surface until late October, when pumping stopped and the water level recovered to about 36 feet below the surface at the end of the year. A temporary rise of 13 feet in August and another rise of 16 feet in November were apparently caused by abnormally high precipitation during those months, as recorded at Richmond.

During 1952, the water level in well 29 at Sebrell, Southampton County, declined about 1 foot below the lowest 1951 level. The level in well 89 at Courtland also declined about a foot. Measurements in well 205 showed a decline of about 2 feet. All three wells in Southampton County showed record low levels in 1952 which are attributed to the continued pumping of the additional large-yield industrial well at Franklin.

The water level in well 90 at Wakefield, in Sussex County, continued to decline slowly during the greater part of 1952, reaching a new low of 75.80 feet on August 18. During the remainder of the year there was a recovery of a little more than a foot above this low level, so that at the end of the year the water level was about the same as for December 1951.

The artesian head in well 15 (Milstead 1) at Fort Eustis, in Warwick County, continued its slow recovery following the shutting-down of most of its wells early in 1951. There was a decline of about a foot in June, probably caused by pumping water for swimming facilities. This well was destroyed during new construction work in the latter part of the year.

Northern Virginia. --Observation wells in the northern part of Virginia are shallow wells and are underlain by crystalline rocks. Their water levels are greatly affected by precipitation.

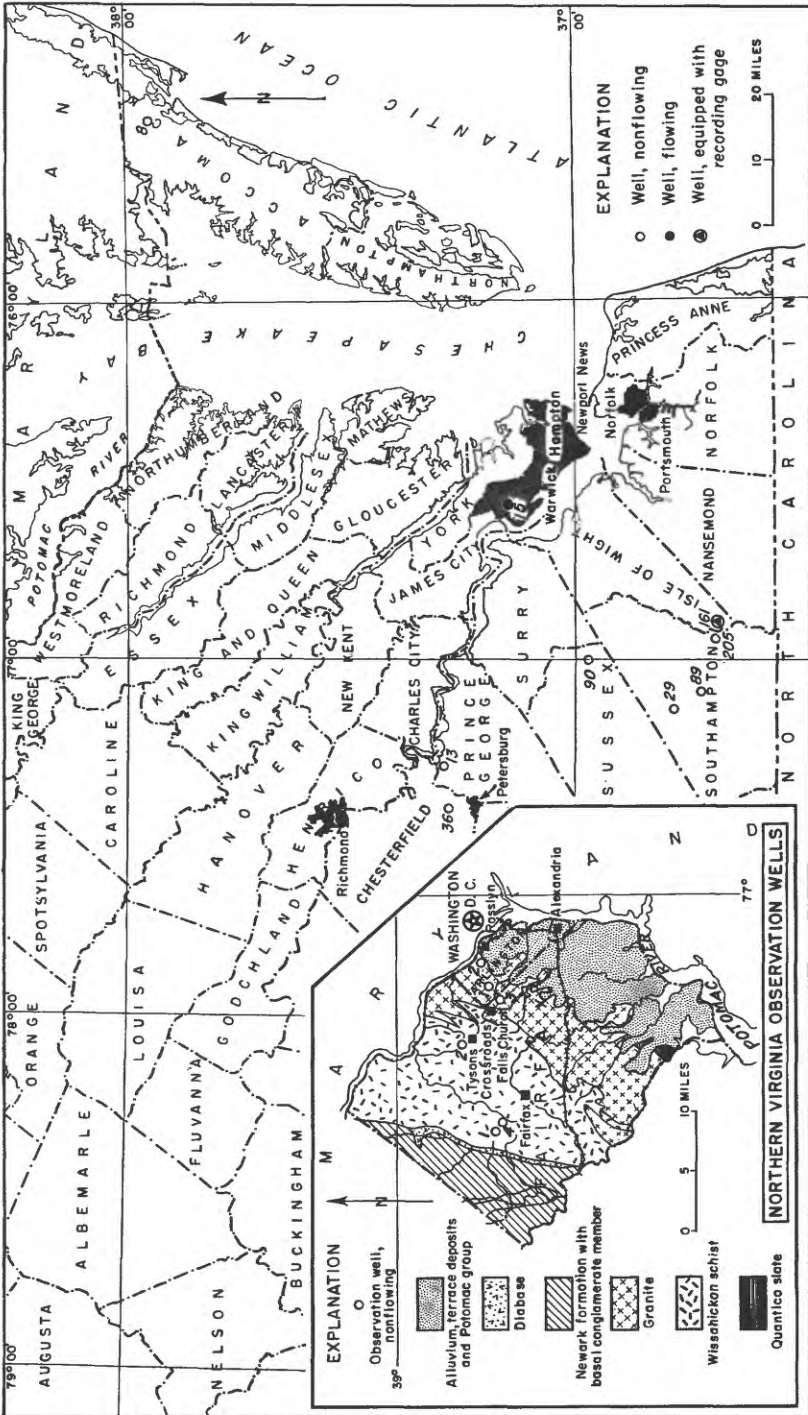


Figure 37. --Location of observation wells in Virginia, 1952.

The precipitation and departure from normal at Washington, D. C., in 1952, as shown by 50 years of record of the U. S. Weather Bureau and which are representative of the precipitation in the northern part of Virginia are given in the table below.

Precipitation was 10.58 inches above normal in 1952 as compared with 0.31 inch above normal precipitation in 1951. This increase in precipitation is reflected in a noticeable net rise in water levels in all of the wells in the northern Virginia area.

Precipitation at Washington, D. C., 1952

Month	Recorded precipitation	Normal precipitation	Departure from normal	Accumulated departure from normal
January	4.59	3.55	+1.04	+1.04
February	1.99	3.27	-1.28	-.24
March	4.60	3.75	+ .85	+ .61
April	7.28	3.27	+4.01	+4.62
May	5.59	3.70	+1.89	+6.51
June	2.87	4.13	-1.26	+5.25
July	3.63	4.71	-1.08	+4.17
August	7.25	4.01	+3.24	+7.41
September	3.80	3.24	+ .56	+7.97
October	.70	2.84	-2.14	+5.83
November	7.08	2.37	+4.71	+10.54
December	3.36	3.32	+ .04	+10.58
Year	52.74	42.16	+10.58	+10.58

The following table shows the water level, in feet below land-surface datum, for each well at the beginning and end of 1952, the highest and lowest levels recorded during the year, the range in level, and the net change for the year.

Water levels in six observation wells in northern Virginia

Well	Jan. 2 1952	Dec. 31 1952	Net change	Highest	Lowest	Range in level
Arlington Co.						
Halls Hill	25.90	24.85	+1.05	18.56	25.14	6.58
Ross	22.95	21.91	+1.04	16.49	22.62	6.13
Fairfax Co.						
Bacon	16.20	13.56	+2.64	9.63	16.00	6.37
Bell	2.47	1.38	+1.09	.52	6.93	6.41
Jefferson	23.50	23.56	-.06	18.92	25.87	6.95
Swart	1.14	1.35	-.21	.88	1.48	.60

As indicated by this summary, the greatest rise in water level occurred in the Bacon well (Fairfax County 1) where the water level was 2.64 feet higher at the end of the year than at the beginning. The greatest range in fluctuation of water level, however, occurred in the Jefferson well (Fairfax County 3) where the difference between the highest and lowest stages recorded during the year was 6.95 feet. The average net rise for the four deepest wells, Arlington County 1 and 2, and Fairfax County 1 and 3, was 1.17 feet which indicates a noticeable increase in ground-water storage since December 1951. The highest water levels during 1952 occurred near the end of April in the four Fairfax County wells; the first of June in the two Arlington County wells. A new all-time high water level of 9.63 feet was recorded in the Bacon well (Fairfax County 1) on April 30. The previous all-time high water level in this well was 10.88 feet recorded February 28, 1949. With the exception of the Halls Hill well (Arlington County 1) and Swart well (Fairfax County 4), the lowest water levels for the year 1952 were at the end of October. Arlington County 1 reached its lowest stage for the year near December 1; Fairfax County 4 reached its lowest stage near the end of July.

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. 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 29.8f below lsd, Sept. 10, 1951. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	28.80	Apr. 7	27.75	July 14	27.53	Oct. 6	27.90
7	28.85	14	27.70	21	27.57	13	28.00
14	28.97	21	27.62	30	27.67	20	27.93
21	28.96	28	27.49	Aug. 4	27.65	27	28.04
28	28.70	May 6	27.40	11	27.72	Nov. 3	28.05
Feb. 4	28.65	12	27.09	18	27.77	10	28.10
11	28.70	June 2	27.55	25	27.77	17	28.10
18	28.45	9	27.52	Sept. 3	27.85	24	28.15
25	28.21	16	27.63	8	27.76	Dec. 1	28.04
Mar. 3	28.34	23	27.47	15	27.88	8	28.00
10	28.20	30	27.49	22	27.96	22	28.00
24	28.00	July 7	27.50	29	27.99	29	28.01
31	27.88						

Arlington County

1. Halls Hill. 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: 1932-52.

Jan. 31	24.07	Apr. 30	19.02	July 31	21.00	Oct. 31	24.72
Feb. 29	23.12	June 2	18.56	Aug. 29	22.21	Dec. 1	25.14
Mar. 31	21.75	30	19.49	Sept. 30	23.29	31	24.85

2. Ross. 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: 1928-52

Jan. 31	21.35	Apr. 30	17.07	July 31	19.93	Oct. 31	22.62
Feb. 29	20.72	June 2	16.49	Aug. 29	20.98	Dec. 1	22.38
Mar. 31	19.47	30	18.33	Sept. 30	21.78	31	21.91

Chesterfield County

36. J. W. Jacot. Formerly John M. Ashby. Matoaka Manor. 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: 1939-52.

Jan. 31	13.45	Apr. 28	12.93	Aug. 5	16.15	Oct. 28	16.42
Feb. 25	12.59	June 7	15.20	Sept. 2	16.11	Nov. 25	15.68
Apr. 1	12.09	July 7	15.30	30	16.32	Dec. 29	14.77

Fairfax County

1. Bacon. Fair Acres Farm. Lat. 38°51'52", long. 77°21'13". Dug unused water-table well in Peters Creek formation, diameter 4 feet, depth 24 feet. Highest water level 9.63 below lsd, Apr. 30, 1952; lowest 23.58 below lsd, Dec. 1931. Records available: 1931-52.

Jan. 31	14.46	Apr. 30	9.63	July 31	14.14	Oct. 31	16.00
Feb. 29	13.93	June 2	11.05	Sept. 1	14.23	Dec. 1	14.24
Mar. 31	12.85	30	12.77	30	15.26	31	13.56

2. Bell. Ash Grove. Lat. 38°55'42", long. 77°14'25". Drilled 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: 1932-52.

Jan. 31	1.12	Apr. 30	0.52	July 31	3.02	Oct. 31	6.93
Feb. 29	1.86	June 2	1.17	Sept. 1	.87	Dec. 1	2.51
Mar. 31	.78	30	2.81	30	5.16	31	1.38

3. Jefferson School. Falls Church. Lat. 38°52'49", long. 77°09'57". Drilled unused water-table well in decomposed granite, diameter 6 inches, depth 29 feet. Highest water level 18.70 below lsd, Mar. 27, 1943; lowest 28.97 below lsd, Oct. 23, 1943. Records available: 1938-52. Measurement discontinued.

3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	21.90	Apr. 30	18.92	July 31	23.71	Oct. 31	25.87
Feb. 29	21.33	June 2	19.65	Aug. 29	24.68	Dec. 1	23.56
Mar. 31	20.40	30	21.86	Sept. 30	25.09		

4. Swart. 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: 1932-52.

Jan. 31	1.04	Apr. 30	0.88	July 31	1.48	Oct. 31	1.42
Feb. 29	1.09	June 2	1.22	Sept. 1	1.35	Dec. 1	1.33
Mar. 31	1.04	30	1.37	30	1.39	31	1.35

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 35.07 below lsd, Oct. 27, 1952. Records available: 1941-52.

Jan. 7	31.75	Apr. 7	32.86	July 7	32.25	Oct. 6	35.00
14	31.90	14	32.86	14	31.60	13	34.95
21	32.38	21	33.18	21	32.97	20	35.00
29	32.15	28	32.92	28	33.83	27	35.07
Feb. 4	31.96	May 5	34.07	Aug. 4	33.87	Nov. 3	34.72
11	32.23	12	33.61	11	34.12	10	34.56
18	32.25	19	33.87	18	34.47	17	34.58
25	32.28	26	33.95	25	34.60	24	34.37
Mar. 3	31.98	June 2	32.15	Sept. 1	34.35	Dec. 1	34.45
10	32.20	9	31.75	8	34.81	8	34.37
17	32.36	16	33.29	15	35.04	15	34.32
24	32.18	23	34.00	22	34.90	22	34.31
31	32.42	30	34.28	29	34.26	29	32.75

j Nearby pulp mill shut down.

Louisa County

1. Tyler. Near Thelma. Lat. 38°02', long. 78°14'. Drilled observation water-table well in Wissahickon schist, diameter 6 inches, depth 56 feet. Land-surface datum is about 500 feet above msl. Highest water level 19.80 below lsd, July 24, 1952; lowest 24.83 below lsd, Nov. 18, 1952. Records available: 1952.

July 24	19.80	Sept. 8	21.73	Nov. 8	24.52	Dec. 17	20.45
28	20.20	Oct. 11	23.23	18	24.83	29	20.44
Aug. 11	20.66						

Prince George County

13. Old Dominion Water Corp. Hopewell. 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: 1939-52.

Jan. 4	37.71	Apr. 5	35.51	July 3	48.34	Oct. 3	48.16
11	35.41	11	35.56	11	48.36	10	48.06
18	36.06	18	35.51	18	48.66	17	48.13
25	36.51	25	35.41	25	48.61	24	47.16
Feb. 1	36.19	May 2	35.06	Aug. 1	47.71	31	42.91
8	35.91	9	36.01	8	34.33	Nov. 7	40.04
15	36.06	17	42.31	15	48.56	14	38.71
22	35.95	23	45.24	22	48.41	21	22.61
29	33.41	29	46.41	29	48.31	28	36.99
Mar. 7	35.76	June 6	47.31	Sept. 5	48.26	Dec. 5	41.27
14	35.26	13	47.96	12	48.25	12	34.61
21	35.41	20	48.21	19	48.13	19	36.31
28	35.41	27	48.31	26	48.23	26	35.86

Southampton County

29. Virginian Railway. Sebrell. Drilled unused artesian well in sand and grave^l 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 35.63 below lsd, Dec. 29, 1952. Records available: 1907, 1938, 1940-46, 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	34.61	Apr. 28	34.34	Aug. 5	34.99	Oct. 28	35.56
Mar. 7	34.39	June 7	34.58	Sept. 2	35.16	Dec. 29	35.63
Apr. 1	34.35	July 7	34.90	Oct. 1	35.46		

89. Southampton County Courthouse. Courtland. 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, 1949-52. Mar. 7, 13.59; Apr. 28, 13.59; June 7, 14.71; Oct. 1, 15.62.

205. Town of Franklin. Fifth Ave. and Middle St. Lat. 36°41', long. 76°55'. Jetted unused artesian well in sands of Potomac group, diameter 4 inches, depth 354 feet, cased to 335, screen 335-354. Highest water level 14.5 below lsd, June 25, 1942; lowest 47.3 below lsd, June 28, 1952. Records available: 1942-52.

Jan. 5	43.5	Apr. 5	43.5	July 5	41.5	Oct. 4	45.8
12	43.0	12	43.5	12	42.5	11	45.5
19	44.0	19	44.5	19	43.5	18	45.5
26	43.5	26	43.5	26	44.5	25	45.5
Feb. 2	43.3	May 3	43.5	Aug. 2	45.0	Nov. 1	45.5
9	43.5	10	44.5	9	45.5	8	45.5
16	44.0	17	44.5	16	46.5	15	45.5
23	43.5	24	45.0	23	46.0	22	45.5
Mar. 1	43.5	31	36.5	30	45.5	29	45.2
8	43.0	June 7	43.5	Sept. 6	45.8	Dec. 6	45.5
15	42.5	14	45.5	13	46.5	13	45.5
22	41.5	21	45.5	20	45.5	20	45.5
29	43.5	28	47.3	27	46.5	27	42.0

j Nearby pulp mill shut down

Sussex County

90. Jeb S. White. Wakefield. Drilled unused artesian well in sand and gravel of Potomac group, diameter 3 inches, depth 225 feet. Land-surface datum is 100.7 feet above msl. Highest water level 63.55 below lsd, Apr. 16, 1940; lowest 75.80 below lsd, Aug. 18, 1952. Records available: 1938, 1940-52.

Jan. 7	75.09	Apr. 7	74.93	July 7	75.63	13	75.21
14	74.6	14	74.60	14	75.65	20	74.74
21	74.76	22	75.08	21	75.76	28	75.11
28	74.6	28	74.45	28	75.46	Nov. 3	74.08
Feb. 5	74.20	May 5	74.34	Aug. 5	75.23	10	75.25
11	74.95	12	74.55	11	75.13	17	75.33
18	74.16	19	74.43	18	75.80	24	74.88
25	74.49	26	74.49	25	75.13	Dec. 1	74.86
Mar. 4	73.90	June 2	74.81	Sept. 1	75.32	8	74.96
11	74.54	9	75.10	22	75.65	15	74.56
17	74.82	17	75.71	29	75.50	22	74.74
24	74.93	25	75.46	Oct. 6	75.67	29	74.46
31	74.28	30	75.43				

Warwick County

Milstead 1. Department of the Army. Fort Eustis. Lat. 37°09', long. 76°35'. Drilled unused artesian well in sand of Pamunkey group, diameter 10 to 8 inches, depth 367 feet. Land-surface datum is 4.5 feet above msl. Highest water level 7.93 above lsd, Apr. 17, 1941; lowest 5.87 below lsd, Oct. 27, 1942. Records available: 1941-52. Measurement discontinued.

Jan. 4	+5.37	Feb. 22	+6.00	Apr. 4	+6.10	May 16	+5.10
11	5.70	29	5.80	11	5.80	23	5.05
18	5.40	Mar. 7	6.30	18	6.00	June 7	5.80
25	5.80	14	6.08	25	5.40	13	4.90
Feb. 1	5.60	21	6.20	May 2	5.20	20	4.13
8	5.50	28	6.00	9	5.00	30	4.30
15	5.30						

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 1952. Measurements of water levels were made in 10 wells, 3 of which are equipped with recording gages. Figure 38 shows the location of the observation wells in West Virginia.

Precipitation

The average precipitation over the State in 1952 was 42.03 inches, about 4 inches less than the average for 1951. During the first half of the year precipitation was normal or above normal for each month except February and July. January was the wettest month of the year with an average rainfall of 5.54 inches, almost 2 inches above normal. Heavy precipitation, primarily outside the State, caused a flood on the Ohio River during January 27-31, and lighter precipitation over West Virginia caused slight tributary flooding in the State. Rainfall in February was 1.85 inches, 1.26 inches below normal, but ample subsoil moisture was available at the end of the month owing to precipitation in January and at the beginning of February. In July rainfall of 3.00 inches was 65 percent below normal. The dry period was alleviated by showers in August. Rainfall in September was slightly below normal, and a statewide tendency toward drought developed. In October, small creeks began to fail, and hillside springs and wells on the tops of hills began to go dry as ground water escaped from the hillsides. Wells in the valleys or on broad upland areas at some distance from the area of natural discharge of the water-bearing formation were not seriously affected by the drought. Rainfall in November relieved the drought in the northeast and was helpful in most other sections. Even with below-normal rainfall in December there was a gradual recharge in most places of the ground-water supply.

Pumpage

Throughout most of West Virginia the use of ground water is limited to small quantities pumped by a great many users. There are only a few relatively heavily pumped areas in the State. In the Charleston business district an average of 500 thousand gallons a day is pumped throughout the year from several small wells. During the late spring, summer, and early fall additional wells are pumped for air conditioning, and for that period the average pumpage in the area is about 1 million gallons a day. Figure 39 is a graph of the water level in well 40-5-14 in the center of the area during 1952 showing the seasonal decline of the water level caused by increased pumping and the recovery of the water level in the late fall after the air-conditioning season was over. The areas in West Virginia of largest withdrawals of ground water are along the Ohio River. Near Follansbee, in Brooke County, two companies together pumped an average of 12 million gallons a day in 1952; in Marshall County about 3 million gallons a day were pumped for use by seven companies; and at Parkersburg, in Wood County, the city pumped an average of 4,621,000 gallons a day. In such areas the ground water is obtained by induced infiltration from the river through the alluvial deposits adjacent to the river. At these and other similar areas along the Ohio River, the fluctuations of water level in the alluvium adjacent to the river are in response mainly to changes in the level of the river rather than to changes in the rate of pumping as long as that rate does not exceed the rate of infiltration from the river. Figure 40 shows a graph of the fluctuations of the water level in well 27-3-22 at Parkersburg during 1952, and for comparison, it also shows the weekly pumpage from the city well field and the changes in river level near the well field. The observation well is within the city well field, but the pumping units are between it and the river. Land-surface datum at well 27-2-22 is about 25 feet above the normal pool stage of the river. Pool stage is about at the river level, as shown in the graph in figure 40, that occurred in October 1952.

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 unpumped area. Well 42-4-1, Montgomery, is about half a mile from wells pumped only during the summer months. The fluctuations of water levels

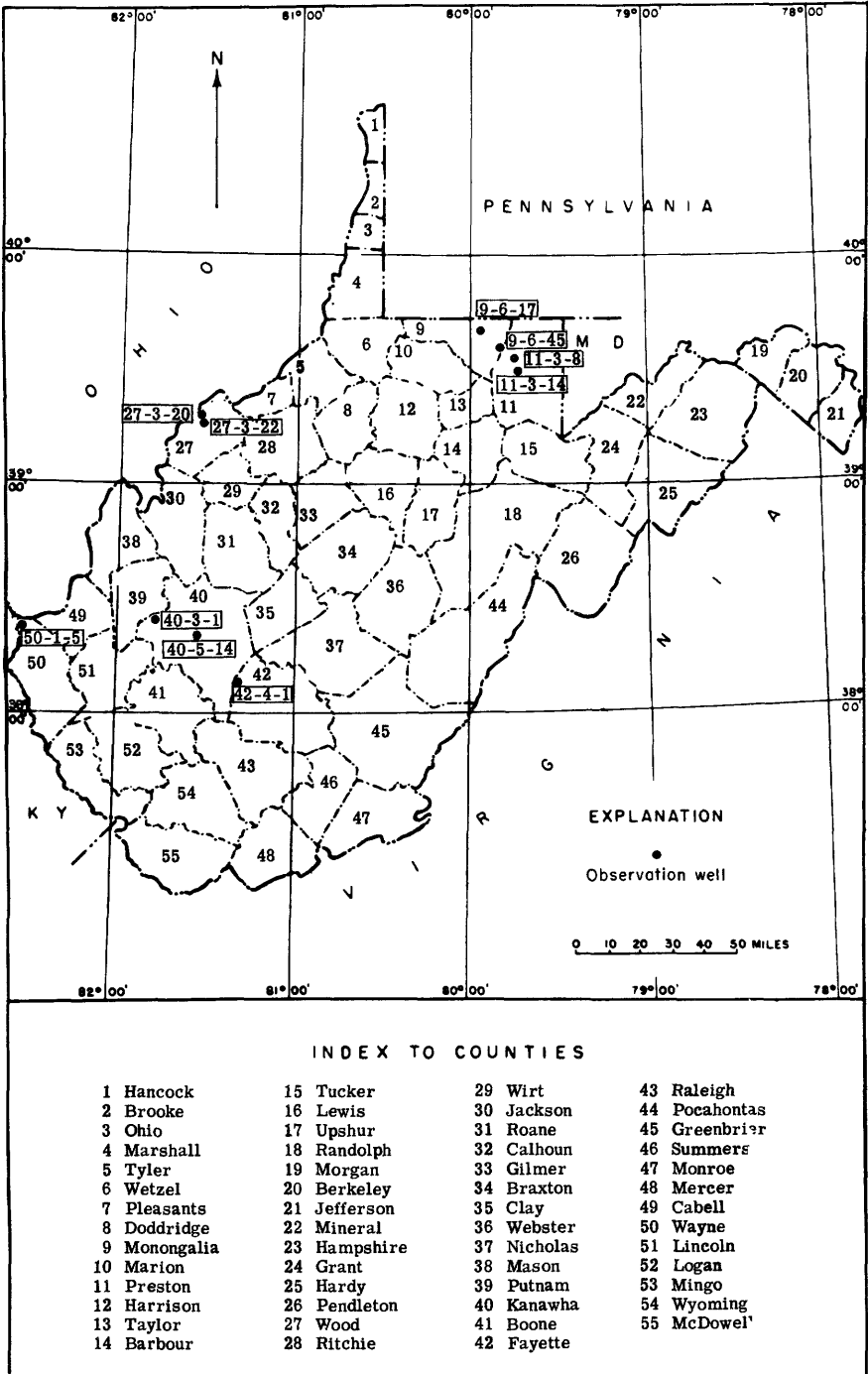


Figure 38. --Location of observation wells in West Virginia, 1952.

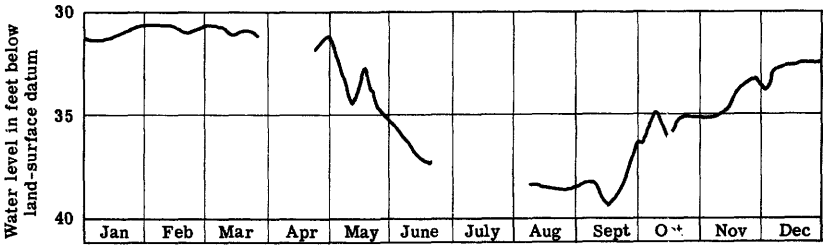


Figure 39. --Water level in well 40-5-14, Charleston, W. Va., 1952.

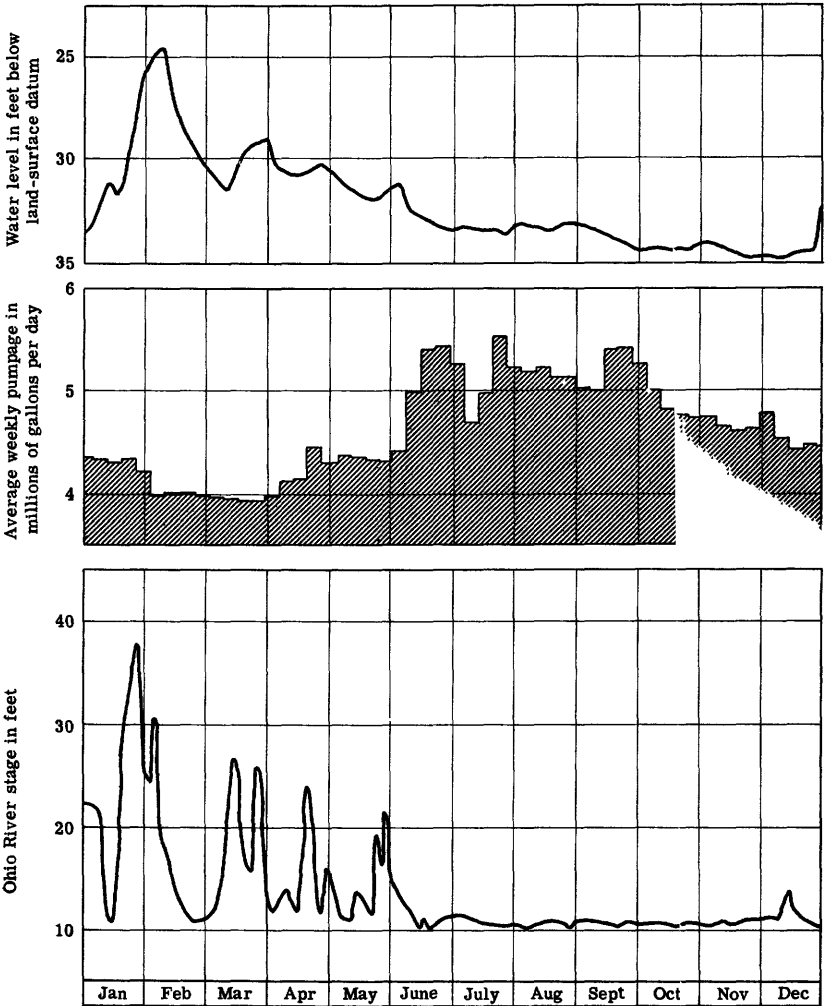


Figure 40. --Water level in well 27-3-22, weekly pumpage, and Ohio River stage, Parkersburg, W. Va., 1952.

in all five wells are primarily in response to variations in local precipitation. Generally, water levels in these wells were as high during the first half of 1952 as they were during the same period in 1951. During the dry period from July to November water levels in the five wells declined, but in three wells the decline was more than the usual seasonal decline in water levels at these same wells during previous years. The water level in well 42-4-1, Montgomery, during all of 1952 was lower than in 1951. The water level in well 9-6-27, Morgantown, has been rising almost continuously since 1945 in response to a decrease in nearby pumping. For the first time since 1945 a new high of record had not been reached at the end of 1952. The net rate of rise during 1952 was about 2 feet less than the net rise in 1951. The water level in well 50-1-5, Kenova, fluctuates in response to changes in the level of the nearby Ohio River.

Well-Numbering System

Observation wells in West Virginia are assigned three-part numbers indicating their location by county and magisterial district. For this purpose the counties have been numbered consecutively in a general southward direction, beginning with Hancock County, which is at the northernmost tip of the State; the magisterial districts within each county are numbered consecutively according to the same plan; then the wells within the district are numbered consecutively as they are surveyed. Thus, the number 9-6-27, assigned to a well in Morgantown, indicates that it is well 27 in district 6 (Morgan District) of county number 9 (Monongalia County).

Well Descriptions and Water-Level Measurements

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

Fayette County

42-4-1. Baldwin Supply Co. Lat. $38^{\circ}10'57''$, long. $81^{\circ}19'47''$. 407 Fourth Ave., Montgomery. 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: 1942-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	24.60	Mar. 31	26.97	Aug. 4	28.10	Oct. 20	26.80
14	26.30	Apr. 7	25.91	11	25.60	27	24.20
21	23.82	14	25.00	18	25.20	Nov. 3	24.18
28	23.31	June 9	27.57	25	25.20	10	24.10
Feb. 4	23.29	16	27.90	Sept. 2	29.95	17	24.40
11	23.64	23	29.40	8	27.60	24	25.45
18	24.76	30	29.10	15	25.00	Dec. 1	25.10
25	24.60	July 7	28.05	22	25.40	8	21.90
Mar. 4	24.68	14	28.00	29	24.44	15	24.14
10	25.00	21	30.30	Oct. 6	24.64	22	24.40
24	22.62	28	28.20	13	24.17	29	23.90

Kanawha County

40-3-1. L. T. Smith. Lat. $38^{\circ}25'40''$, long. $81^{\circ}49'06''$. 40th St., Nitro. 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: 1942-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	2.33	Mar. 31	5.53	July 1	8.63	Sept. 24	11.37
12	3.10	Apr. 14	2.46	8	8.00	Oct. 3	11.58
24	1.49	29	2.54	14	8.48	17	11.90
31	3.27	May 5	5.56	22	8.70	23	11.94
Feb. 7	2.28	15	4.75	29	9.53	Nov. 8	12.07
16	2.55	23	4.04	Aug. 4	10.09	17	12.08
29	5.91	30	5.71	18	8.82	28	9.08
Mar. 10	1.46	June 9	7.00	Sept. 1	10.42	Dec. 5	11.38
19	6.52	16	7.80	8	11.06	17	7.88
25	4.00	25	8.30	16	11.39	29	8.03

40-5-14. Coyle & Richardson Department Store. Lat. $38^{\circ}20'53''$, long. $81^{\circ}37'53''$. 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: 1941-52.

40-5-14--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.26	30.50	30.51	.....	31.23	32.92	.....	.....	35.47	36.17	34.97	32.95
2	31.30	30.37	30.43	.....	31.34	35.31	.....	.....	38.25	36.24	34.86	32.94
3	31.30	30.15	30.41	.....	31.76	35.34	.....	.....	36.71	36.28	35.02	33.97
4	31.21	30.38	30.58	.....	30.95	35.81	.....	.....	36.23	35.26	35.02	32.93
5	30.88	30.54	30.30	.....	32.46	36.19	.....	.....	36.08	34.74	34.87	32.88
6	30.75	30.54	30.39	.....	32.75	36.28	.....	.....	36.54	34.77	34.97	32.88
7	30.97	30.54	30.42	.....	32.31	36.33	.....	.....	36.05	34.75	35.02	32.75
8	30.92	30.52	30.41	.....	32.26	33.94	.....	38.46	36.92	34.88	34.98	32.78
9	31.05	30.52	30.70	.....	33.53	36.75	.....	38.24	36.79	34.82	34.82	32.80
10	31.26	30.48	30.81	.....	34.34	36.68	.....	36.03	37.67	34.88	34.86	32.74
11	31.26	30.64	30.91	.....	32.34	36.77	.....	38.53	38.21	34.88	34.83	32.82
12	31.10	30.64	30.88	.....	31.30	35.32	.....	38.47	38.27	34.87	34.90	32.58
13	30.96	30.59	31.07	.....	31.30	36.84	.....	37.77	38.25	34.88	34.88	32.63
14	30.98	30.64	30.88	.....	31.30	36.82	.....	38.30	36.38	34.81	34.92	32.53
15	31.10	30.60	30.90	.....	32.45	34.40	.....	38.46	38.49	35.89	34.86	32.65
16	31.10	30.48	30.92	.....	32.64	37.17	.....	38.20	37.73	36.87	34.77	32.63
17	31.01	30.43	30.92	.....	32.64	37.17	.....	36.12	36.76	35.24	34.90	32.58
18	31.05	30.54	30.76	.....	32.09	37.21	.....	38.54	38.06	35.81	34.90	32.62
19	30.97	30.49	30.92	.....	32.79	37.25	.....	38.47	36.92	34.87	34.05	32.62
20	30.75	31.16	30.82	.....	32.77	37.27	.....	37.66	36.58	35.10	33.69	32.55
21	30.82	30.66	30.82	.....	32.84	37.14	.....	38.01	36.17	35.09	33.52	32.47
22	30.79	30.63	31.03	.....	32.84	.....	.....	38.64	36.06	35.00	33.58	32.52
23	30.93	30.55	31.22	.....	34.77	.....	.....	38.46	36.15	35.04	33.35	32.61
24	30.89	30.38	31.22	.....	34.70	.....	.....	36.32	36.12	35.00	33.28	32.58
25	30.79	30.50	31.29	31.78	32.74	.....	.....	38.01	36.00	34.91	33.26	32.63
26	30.63	31.09	31.23	31.23	33.40	.....	.....	36.66	36.10	34.97	33.25	32.43
27	30.65	30.40	.....	30.28	33.25	.....	.....	36.09	36.11	34.77	33.25	32.45
28	30.34	30.40	.....	30.84	34.75	.....	.....	38.16	35.26	35.07	33.10	32.45
29	29.98	30.34	.....	30.97	33.52	.....	.....	38.51	36.26	35.07	33.10	32.36
30	30.31	.....	.....	31.09	32.66	.....	.....	38.15	36.27	35.01	32.99	32.38
31	30.51	.....	.....	.....	35.00	.....	.....	36.15	.....	34.97	.....	32.44

Monongalia County

9-6-27. T. J. Johnson. Lat. 39°37'37", long. 79°57'29". Drilled unuse^d 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 87.25 below lsd, Jan. 2, 1952; lowest 166.41 below lsd, Sept. 10, 1945. Records available: 1941-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	87.25	Apr. 22	88.74	July 31	87.35	Oct. 31	90.39
Feb. 25	88.41	May 29	88.20	Aug. 28	88.10	Nov. 26	90.00
Mar. 24	87.73	June 27	89.16	Sept. 29	87.43	Dec. 30	89.89

9-6-45. Deckers Creek Sand Co. Greer. Lat. 39°34'11", long. 79°50'23". Drilled unuse^d artesian well in sandstone of Pocono formation, diameter 8 inches, depth 105 feet, cased to 48. Land-surface datum is about 1,460 feet above msl. Highest water level 8.80 below lsd, Jan. 28, 1952; lowest 32.67 below lsd, Sept. 16, 1946. Records available: 1941-45, 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	8.90	Apr. 22	10.16	July 31	12.82	Oct. 31	11.35
Feb. 25	10.21	May 29	9.84	Aug. 28	10.53	Nov. 26	10.79
Mar. 24	9.42	June 27	10.68	Sept. 29	11.38	Dec. 30	10.56

Preston County

11-3-8. G. E. Lemmons. Lat. 39°33'06", long. 79°47'43". East Depot St., Masontown. Drilled domestic artesian well in sandstone of Pottsville formation, diameter 8 inches, depth 785 feet. Land-surface datum is about 1,770 feet above msl. Highest water level 7.70 below lsd, Mar. 14, 1947; lowest 22.43 below lsd, Oct. 25, 1949. Records available: 1941-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	14.54	Apr. 22	16.15	July 31	19.78	Oct. 31	20.56
Feb. 25	16.34	May 29	15.18	Aug. 28	17.22	Nov. 26	19.66
Mar. 24	14.28	June 27	19.48	Sept. 29	20.32	Dec. 30	19.58

11-3-14. Belfort Corp. Lat. 39°30'22", long. 79°48'27". Reedsville. Drilled unused artesian well in sandstone of Conemaugh formation, diameter 4 inches, depth 17 feet. Land-surface datum is about 1,700 feet above msl. Highest water level 0.74 above lsd, Feb 19, 1943; lowest 1.07 below lsd, Oct. 5, 1949. Records available: 1941-43, 1945-46, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+0.66	Apr. 22	+0.02	July 31	-0.95	Oct. 31	-0.68
Feb. 25	-.16	May 29	+.28	Aug. 28	-.53	Nov. 26	-.43
Mar. 24	-.08	June 27	-.38	Sept. 29	-.22	Dec. 30	-.50

Wayne County

50-1-5. Ashland Oil & Refining Corp. Lat. 38°24'24", long. 82°35'27". Kenova. Drilled unused water-table well in gravel, diameter 6 inches, depth 73 feet. Land-surface datum is about 548 feet above msl. Highest water level 23.93 below lsd, Feb. 9, 1951; lowest 43.12 below lsd, Jan. 2, 1948. Records available: 1942-46, 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	37.43	Apr. 4	32.22	July 4	35.87	Oct. 10	41.27
11	37.10	10	32.31	11	36.79	17	41.31
18	36.89	18	32.64	18	37.45	24	41.39
25	35.89	25	32.48	25	38.08	31	41.50
Feb. 1	33.00	May 2	32.52	Aug. 1	38.52	Nov. 7	41.60
8	29.70	9	32.77	8	39.02	14	41.66
15	29.50	15	33.26	15	39.35	21	41.68
22	30.18	23	32.27	Sept. 5	40.02	28	41.85
29	31.14	30	32.89	12	40.39	Dec. 5	41.91
Mar. 7	32.30	June 6	33.31	19	40.64	12	42.00
14	32.85	21	34.18	26	40.68	19	42.02
20	33.10	27	35.39	Oct. 3	41.10	26	42.04

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: 1943-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.67	25.95	36.11	34.82	35.25	36.00	38.57	37.87	37.49	39.28	38.40	39.88
2	37.14	27.02	36.19	35.02	35.96	36.63	38.52	37.84	37.59	39.32	38.45	39.89
3	35.95	27.26	36.32	35.17	36.27	36.97	38.51	37.80	37.71	39.31	38.51	39.87
4	34.74	26.82	36.67	35.20	36.61	37.25	38.48	37.83	37.82	39.34	38.51	39.80
5	33.45	26.57	36.65	35.59	37.02	37.39	38.42	37.84	37.90	39.39	38.55	39.57
6	32.83	25.93	36.61	35.73	37.27	37.58	38.43	37.83	37.95	39.40	38.66	39.49
7	33.02	25.98	36.73	35.72	37.31	37.80	38.40	37.80	38.03	39.41	38.90	39.43
8	33.35	26.87	36.88	35.74	37.54	37.87	38.40	37.77	38.20	39.42	39.06	39.36
9	33.82	27.46	36.95	35.77	37.58	38.05	38.35	37.76	38.40	39.47	39.24	39.70
10	34.45	27.97	37.02	35.92	37.69	38.18	38.33	37.84	38.58	39.50	39.34	39.80
11	34.73	29.07	36.90	35.96	37.69	38.33	38.29	37.83	38.70	39.47	39.43	39.44
12	35.07	29.62	36.48	36.06	37.74	38.43	38.29	37.76	38.81	39.37	39.51	39.32
13	35.58	30.19	35.50	36.35	37.77	38.47	38.25	37.76	38.88	39.15	39.55	39.20
14	35.95	30.83	34.72	36.34	37.76	38.55	38.22	38.05	38.92	38.95	39.60	38.85
15	36.30	31.57	33.94	36.09	37.40	38.60	38.22	38.25	38.95	38.90	39.60	38.62
16	36.38	31.90	33.64	35.60	37.38	38.64	38.20	38.30	38.94	38.90	39.68	38.91
17	36.42	32.40	33.95	34.70	37.34	38.75	38.17	37.91	38.96	38.91	39.70	38.96
18	36.33	32.81	34.22	34.01	37.35	38.76	38.11	37.76	38.98	38.95	39.69	39.03
19	35.65	33.17	34.69	33.58	37.49	38.87	38.06	37.75	39.05	39.02	39.72	39.05
20	34.70	33.67	34.62	33.62	37.63	38.91	38.04	37.70	39.06	39.05	39.75	39.06
21	34.21	34.10	34.41	34.21	37.58	38.96	38.00	37.64	39.10	39.04	39.79	39.13
22	33.40	34.26	34.13	34.90	37.17	39.00	38.37	37.66	39.09	39.00	39.78	39.15
23	33.40	34.46	33.20	35.56	36.80	39.04	38.52	37.66	39.13	39.01	39.77	39.19
24	33.33	34.86	32.75	35.70	36.51	38.60	38.60	37.60	39.14	39.40	39.76	39.23
25	33.34	35.06	32.40	35.92	36.50	38.46	38.63	37.61	39.13	39.39	39.77	39.28
26	33.34	35.21	32.29	35.75	36.52	38.37	38.35	37.60	39.16	38.63	39.77	39.25
27	32.67	35.45	32.54	34.95	36.16	38.80	38.15	37.62	39.18	38.40	39.83	39.29
28	30.95	35.62	32.93	34.47	35.50	38.92	38.11	37.63	39.20	38.39	39.83	39.33
29	.....	35.83	33.48	34.27	35.21	39.08	38.01	37.57	39.21	38.38	39.85	39.31
30	.....	.....	33.76	34.31	35.39	39.06	37.94	37.52	39.23	38.35	39.87	39.38
31	.....	.....	34.39	.....	35.72	.....	37.92	37.49	.....	38.38	.....	39.41

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, 1946-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.27	22.93	30.48	29.35	29.78	30.65	33.33	33.17	33.02	34.33	33.95	34.79
2	33.04	23.63	30.57	29.57	30.27	31.03	33.32	33.12	.....	34.40	33.97	34.83
3	32.40	23.94	30.66	29.77	30.47	31.26	33.28	33.12	.....	34.12	34.04	34.84
4	31.65	23.95	30.87	29.84	30.57	31.50	33.28	33.12	33.15	34.10	34.03	34.81
5	30.65	23.80	31.01	29.90	30.86	31.63	33.27	33.19	33.18	34.14	35.98	34.73
6	30.08	23.21	31.06	30.21	31.14	31.76	33.26	33.19	.....	34.13	34.10	34.77
7	29.83	22.61	31.12	30.29	31.29	31.89	33.23	33.18	.....	34.18	34.17	34.72
8	29.75	22.61	31.22	30.32	31.37	32.01	33.21	33.16	.....	34.17	34.19	34.68
9	29.84	23.25	31.27	30.34	31.51	32.12	33.19	33.10	.....	34.21	34.23	34.78
10	30.12	23.76	31.33	30.37	31.54	32.25	33.23	33.18	.....	34.26	34.31	34.84
11	30.34	24.51	31.33	30.46	31.72	32.37	33.23	33.18	33.52	34.26	34.36	34.76
12	30.53	25.11	31.33	30.51	31.79	32.47	33.24	33.17	33.57	34.23	34.40	34.64
13	30.76	25.60	30.54	30.62	31.79	32.57	33.22	33.12	33.62	34.17	34.42	34.58
14	31.07	26.06	29.76	30.76	31.79	32.65	33.19	33.11	33.64	34.13	34.46	34.32
15	31.35	26.47	29.27	30.76	31.73	32.71	33.18	33.36	33.69	34.11	34.52	34.19
16	31.52	27.00	28.85	30.60	31.65	32.77	33.21	33.40	33.70	34.11	34.55	34.36
17	31.56	27.46	28.92	29.90	31.65	32.85	33.21	33.32	33.73	34.13	34.57	34.41
18	31.62	27.80	29.09	29.20	31.62	32.95	33.18	33.21	33.75	34.15	34.55	34.46
19	31.46	28.06	29.39	28.80	31.64	33.03	33.13	33.14	33.82	34.17	34.57	34.47
20	30.60	28.30	29.51	28.61	31.75	33.12	33.12	33.12	33.84	34.28	34.62	34.44
21	30.21	28.71	29.48	28.78	31.77	33.21	33.12	33.07	33.86	34.26	34.63	34.50
22	29.55	28.96	29.30	29.15	31.77	33.28	33.27	.....	33.86	34.16	34.69	34.50
23	29.25	29.08	28.87	29.65	31.43	33.32	33.37	.....	33.90	34.17	34.69	34.53
24	29.25	29.30	28.21	29.98	31.10	33.30	33.49	.....	.....	34.43	34.68	34.56
25	29.11	29.58	27.76	30.10	31.06	33.22	33.52	.....	34.20	34.47	34.64	34.51
26	28.77	29.72	27.57	30.15	31.08	33.20	33.49	.....	34.25	34.42	34.72	34.49
27	28.94	29.89	27.64	30.13	31.02	33.19	33.31	.....	34.29	34.43	34.75	34.51
28	27.86	30.00	27.86	30.00	30.53	33.31	33.23	33.09	34.40	34.41	34.75	34.54
29	25.97	30.23	28.21	29.87	30.23	33.40	33.23	33.09	34.31	34.43	34.74	34.53
30	23.40		28.58	29.81	30.13	33.41	33.20	33.04	34.31	33.97	34.81	34.55
31	22.74		28.92		30.29		33.21	33.02		33.93		34.55

