

Water Levels and Artesian Pressures in Observation Wells in the United States 1955

Part 1. Northeastern States

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

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*Prepared in cooperation with the States
of Connecticut, Delaware, Indiana,
Massachusetts, Michigan, New Jersey,
New York, Ohio, Pennsylvania, and
Rhode Island, and with other agencies*



WATER LEVELS DIVISION

UNITED STATES DEPARTMENT OF THE INTERIOR

FRED A. SEATON, *Secretary*

GEOLOGICAL SURVEY

Thomas B. Nolan, *Director*

PREFACE

This report was prepared by the Geological Survey in cooperation with the States of Connecticut, Delaware, Indiana, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, and Rhode Island, and with other agencies, by personnel of the Water Resources Division under the direction of:

C. G. Paulsen-----Chief Hydraulic Engineer
A. N. Sayre-----Chief, Ground Water Branch
W. C. Rasmussen----District Geologist (Ground Water), Newark, Del.
C. M. Roberts----District Geologist (Ground Water), Indianapolis, Ind.
O. M. Hackett-----District Geologist (Ground Water), Boston, Mass.
J. G. Ferris-----District Engineer (Ground Water), Lansing, Mich.
H. C. Barksdale----District Engineer (Ground Water), Trenton, N. J.
J. E. Upson-----District Geologist (Ground Water), Mineola, N. Y.
S. E. Norris-----District Geologist (Ground Water), Columbus, Ohio
D. W. Greenman----District Geologist (Ground Water), Harrisburg, Pa.

CONTENTS

	Page
Introduction, by A. N. Sayre	1
Connecticut, by R. V. Cushman	3
Scope of water-level program	3
Precipitation	3
Pumpage	3
Interpretation of water-level fluctuations	3
Well-numbering system.	7
Well descriptions and water-level measurements	7
Delaware, by O. J. Coskery.	13
Scope of water-level program	13
Precipitation	13
Pumpage.	13
Interpretation of water-level fluctuations	13
Acknowledgments	16
Well-numbering system	16
Well descriptions and water-level measurements	16
Indiana, by Frank A. Watkins, Jr.	22
Scope of water-level program	22
Precipitation and temperature	22
Interpretation of water-level fluctuations	22
Well-numbering system	22
Well descriptions and water-level measurements	26
Maine, by Henry G. Healy.	39
Scope of water-level program	39
Precipitation	39
Interpretation of water-level fluctuations	39
Well-numbering system	39
Well descriptions and water-level measurements	39
Massachusetts, by Henry G. Healy	43
Scope of water-level program	43
Precipitation	43
Interpretation of water-level fluctuations	43
Well-numbering system	43
Well descriptions and water-level measurements	43
Michigan, by P. R. Giroux and J. G. Rulison.	53
Scope of water-level program.	53
Precipitation	53
Pumpage	53
Interpretation of water-level fluctuations	56
Well-numbering system	58
Well descriptions and water-level measurements	60
New Hampshire, by Edward Bradley	90
Scope of water-level program.	90
Precipitation	90
Pumpage.	90
Interpretation of water-level fluctuations	92
Acknowledgments	92
Well-numbering system	92
Well descriptions and water-level measurements	92
New Jersey, by Charles R. Austin	95
Scope of water-level program	95
Precipitation	95
Interpretation of water-level fluctuations	95
Well-numbering system.	103
Well descriptions and water-level measurements	103

	Page
New York	
Long Island, by H. T. Hopkins	128
Scope of water-level program	128
Precipitation	128
Pumpage	128
Interpretation of water-level fluctuations	128
Acknowledgments	136
Well-numbering system	136
Well descriptions and water-level measurements	140
Upstate New York, by J. A. Ziarno and Ralph C. Heath	170
Scope of water-level program	170
Precipitation	170
Pumpage	170
Interpretation of water-level fluctuations	173
Well-numbering system	173
Well descriptions and water-level measurements	173
Ohio, by Paul Kaser	184
Scope of water-level program	184
Precipitation	184
Interpretation of water-level fluctuations	184
Well-numbering system	198
Well descriptions and water-level measurements	198
Pennsylvania, by D. R. Rima	246
Scope of water-level program	246
Precipitation	246
Pumpage	246
Interpretation of water-level fluctuations	246
Well-numbering system	250
Well descriptions and water-level measurements	250
Rhode Island, by G. W. Hahn	278
Scope of water-level program	278
Precipitation	278
Pumpage	278
Interpretation of water-level fluctuations	278
Well-numbering system	281
Well descriptions and water-level measurements	281
Vermont, by Henry G. Healy	302
Scope of water-level program	302
Precipitation	302
Interpretation of water-level fluctuations	302
Well-numbering system	302
Well descriptions and water-level measurements	302

ILLUSTRATIONS

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 1955.	2
2. Location of observation wells in Connecticut, 1955	4
3. Location of observation wells in New Haven area, Connecticut, 1955	5
4. Water levels in wells Wb 176, NHn 183, and Pl 1, Connecticut	6
5. Location of observation wells in Delaware, 1955	14
6. Average monthly water levels in 13 water-table wells in Delaware and average monthly statewide precipitation, September 1950 to December 1955	15
7. Location of observation wells in Indiana, 1955	23
8. Water levels in wells Steuben 1, Montgomery 1, and Clark 1, Indiana	24
9. Water levels in wells Marion 2 and 10 in downtown area, Indianapolis, Ind.	25
10. Location of observation wells in Maine, 1955	40
11. Location of observation wells in Massachusetts, 1955	44
12. Location of observation wells in Middlesex County, Mass., 1955	45
13. Location of observation wells in Michigan, 1955	54
14. Water level in well RoHg 1 and daily precipitation and daily maximum and minimum temperatures at Grayling, Mich., 1955	59
15. Location of observation wells in New Hampshire, 1955	91
16. Location of observation wells in New Jersey, 1955	96
17. Location of observation wells in Middlesex County, N. J., 1955	97
18. Location of observation wells in Salem County, N. J., 1955	98
19. Hydrograph of well 32.23.6.6.8 in Burlington County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1936-54	99

	Page
Figure 20. Hydrograph of well 29.11.1.2.3 in Middlesex County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1923-54	100
21. Hydrograph of well 29.11.1.2.9 in Monmouth County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1936-54	101
22. Hydrograph of well 26.21.5.4.6 in Union County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1943-54	102
23. Location of observation wells in Kings and Queens Counties, Long Island, N. Y., 1955	129
24. Location of observation wells in Nassau County, Long Island, N. Y., 1955	130
25. Location of observation wells in western Suffolk County, Long Island, N. Y., 1955	131
26. Location of observation wells in central Suffolk County, Long Island, N. Y., 1955	132
27. Location of observation wells in eastern Suffolk County, Long Island, N. Y., 1955	133
28. Composite average water level of 14 selected wells in Nassau and Suffolk Counties and hydrographs of wells K30, N9, and N7, Kings and Nassau Counties, N. Y.	135
29. Location of observation wells in Upstate New York, 1955	171
30. Month-end water levels and average water levels for 12 years of record in wells Mt 1, Wo 1, and St 1, Upstate New York	172
31. Location of observation wells in northwestern Ohio, 1955	185
32. Location of observation wells in north-central Ohio, 1955	186
33. Location of observation wells in northeastern Ohio, 1955	187
34. Location of observation wells in southwestern Ohio, 1955	188
35. Location of observation wells in south-central Ohio, 1955	189
36. Location of observation wells in southeastern Ohio, 1955	190
37. Water levels in wells Tu-1, F-1, Mr-1, Cl-2, and Mu-2, Ohio	191
38. Water levels in wells W-2, Mi-1, Mt-2, and Mt-49, Ohio	192
39. Water levels in selected wells in the Mill Creek valley, Ohio	193
40. Water levels in selected wells in the Miami River valley, Ohio	194
41. Water levels in selected wells in the Canton area, Stark County, Ohio	195
42. Location of observation wells in Pennsylvania, 1955	247
43. Location of observation wells in Allegheny, Washington, Bucks, Montgomery, Chester, Delaware, and Philadelphia Counties, 1955	248
44. Location of observation wells in southern part of Philadelphia County, Pa., 1955	249
45. Location of observation wells in Providence County, R. I., 1955	279
46. Location of observation wells in Bristol, Kent, Newport, and Washington Counties, R. I., 1955	280
47. Location of observation well in Vermont, 1955	303

WATER LEVELS AND ARTESIAN PRESSURES
IN OBSERVATION WELLS IN THE UNITED STATES
IN 1955

Part 1. NORTHEASTERN STATES

INTRODUCTION

By A. N. Sayre

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records for each year were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; 1939, 886. Since 1940 records have been published in six annual volumes, covering the northeastern, southeastern, north-central, south-central, northwestern, and southwestern sections of the country. Hawaii is included in the southwestern section. The following table gives the numbers of Water-Supply Papers from 1940 through 1955.

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	1185	1166	1167	1168	1169	1170
1951	1191	1192	1193	1194	1195	1196
1952	1221	1222	1223	1224	1225	1228
1953	1265	1266	1267	1268	1269	1270
1954	1321	1322	1323	1324	1325	1326
1955	1404	1405	1406	1407	1408	1409

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, transpiration by vegetation, evaporation from the soil, and changes in atmospheric pressure. Artesian wells are influenced over large areas by changes in the rate of pumping from other wells, changes in atmospheric pressure, earthquakes, ocean tides, earth tides, and recharge from precipitation, although the recharge may not be noticeable immediately. When accurate comparisons of water levels are made it is desirable to apply corrections for these influences, several of which may be compensating or additive according to the conditions at those particular times.

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

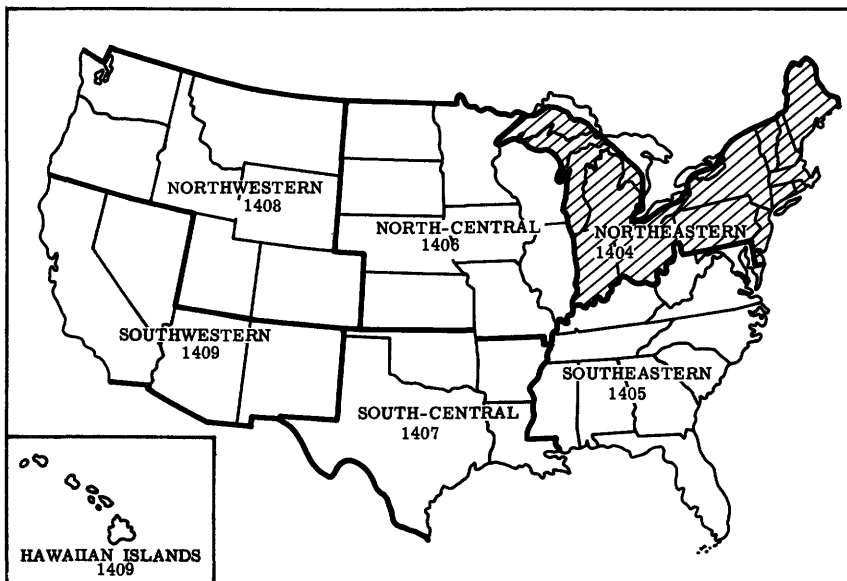


Figure 1. --Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1955. The shaded area indicates the States included in this volume.

Verda M. Dougherty was responsible for the compilation of the report and Rodney Hart edited the illustrations.

CONNECTICUT

By R. V. Cushman

Scope of Water-Level Program

The observation-well program in Connecticut was continued in 1955 in cooperation with the State Water Commission. Water-level measurements were made in 33 wells; one well (Si 79) is equipped with a recording gage. In addition to measurements in a statewide network of 15 observation wells which provide data on changes in storage in the principal ground-water reservoirs, the program includes measurements in 18 wells in heavily pumped areas at New Haven and Waterbury where areal investigations of ground-water resources are being made. Figure 2 shows the location of statewide observation wells and those in the Waterbury-Naugatuck area. Figure 3 shows the location of observation wells in New Haven. Most of the observation wells are in unconsolidated deposits of glacial age; two are in the consolidated bedrock.

Precipitation

In 1955 the total precipitation of 57.17 inches, 11.34 inches above normal, was the highest average on record for the State. As much as 18 inches of rain was recorded at several stations in the northwest during one day of hurricane "Diana." August rainfall, averaging 15.06 inches, was the heaviest ever recorded. Record floods occurred in many streams after these rains. A second period of heavy rainfall in October caused severe floods in the vicinity of streams in the southwest. The average rainfall over the State in October was 12.41 inches, 8.80 above normal.

Pumpage

According to a recent estimate based on figures from the State Department of Health, the State Water Commission, industrial concerns, municipalities, and private well owners, ground water was used in Connecticut at an average rate of about 81 mgd (million gallons per day) in 1955, or about 1 mgd more than in 1954. Pumpage is about evenly distributed throughout the State; there are no known areas of excessive draft. Greatest concentrations of ground-water pumping are for industrial purposes at Bridgeport, New Haven, and the Waterbury-Naugatuck area.

Interpretation of Water-Level Fluctuations

Everywhere in Connecticut, water levels in shallow aquifers respond to variations in precipitation and evapotranspiration; in some areas, they respond appreciably to heavy pumping. In general, the yearly fluctuations are more or less cyclical: water levels rise principally during the nongrowing season, when losses by evaporation and transpiration are low, and decline during the growing season, when such losses are high. Usually, the yearly peak stages are reached in April or May but sometimes not until June or July; the yearly low stages occur typically in November. Water levels in wells in stratified sand and gravel of glacial origin show a smaller range in fluctuation than that observed in wells in unstratified and less permeable glacial drift, or till, as indicated by hydrographs in figure 4. Wells Pl 1 at Plainfield and NHn 183 at New Haven are open to stratified sand and gravel; their range in water-level fluctuations is normally less than 4 feet in a year. Well Wb 176 at Waterbury which is open to till shows an average yearly range in water-level fluctuation of about 10 feet. In 1955, the yearly range in fluctuations in the three wells was less than the average. With few exceptions, the trend in water levels in observation wells during the first half of 1955 was about normal. However, during the second half of the year the trend departed appreciably from normal because of the unusual pattern of heavy precipitation. Large unseasonal rises in water levels after the heavy rains in August and October resulted in stages that, in general, were the highest of record for those months and that, in several wells, were among the highest ever recorded in October.

Because of record-low precipitation, water levels declined in January from the above-normal stages of December 1954 to stages that were slightly below normal for the season. The trend from February through June was about normal, but water levels generally remained below average. Negligible recharge because of record-breaking heat and near-record dryness in July caused a decline to below-normal levels in all wells. Heavy rains accompanying hurricanes "Connie" and "Diane" in August brought about almost immediate rises in water levels in many parts of the State. By the

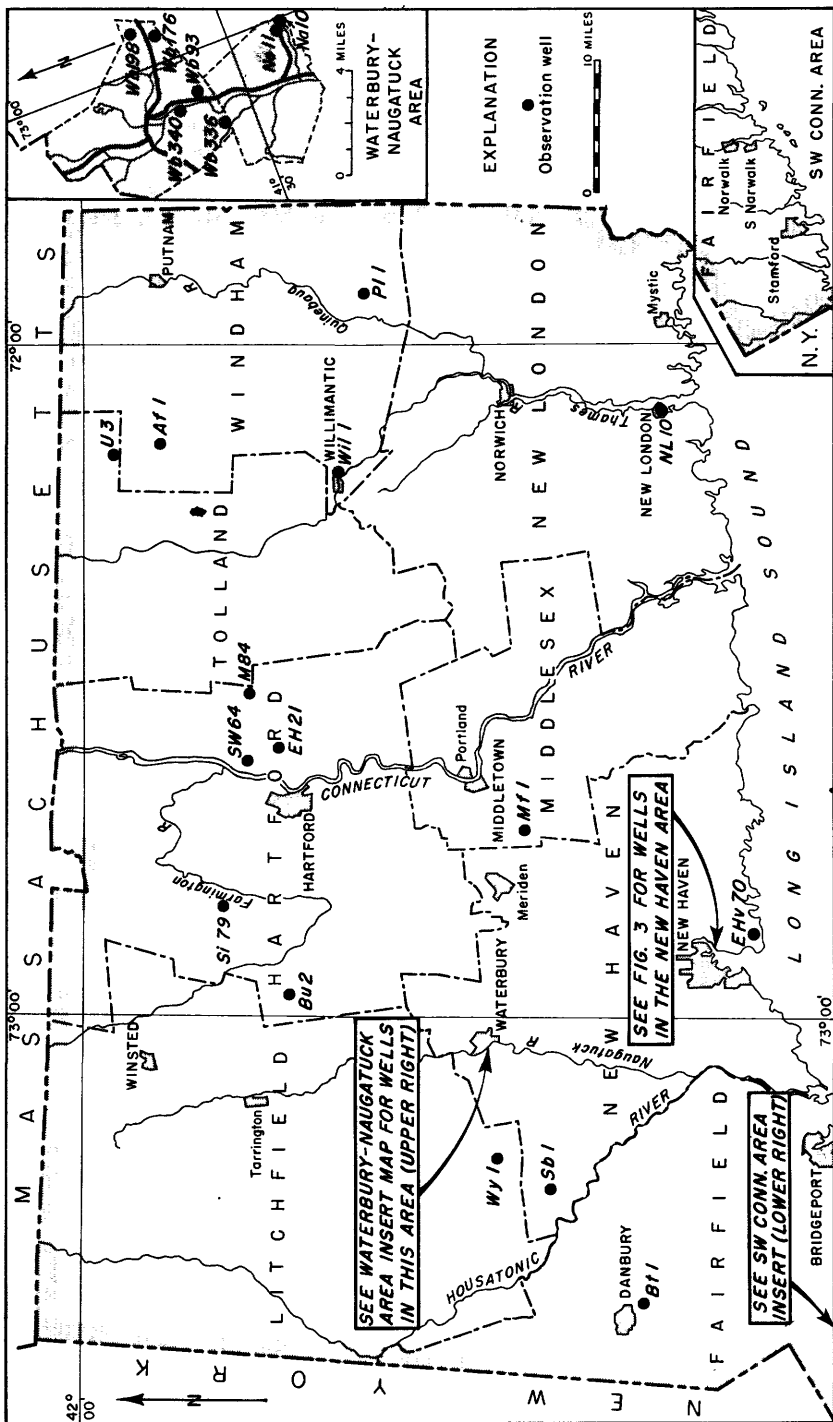


Figure 2.--Location of observation wells in Connecticut, 1955.

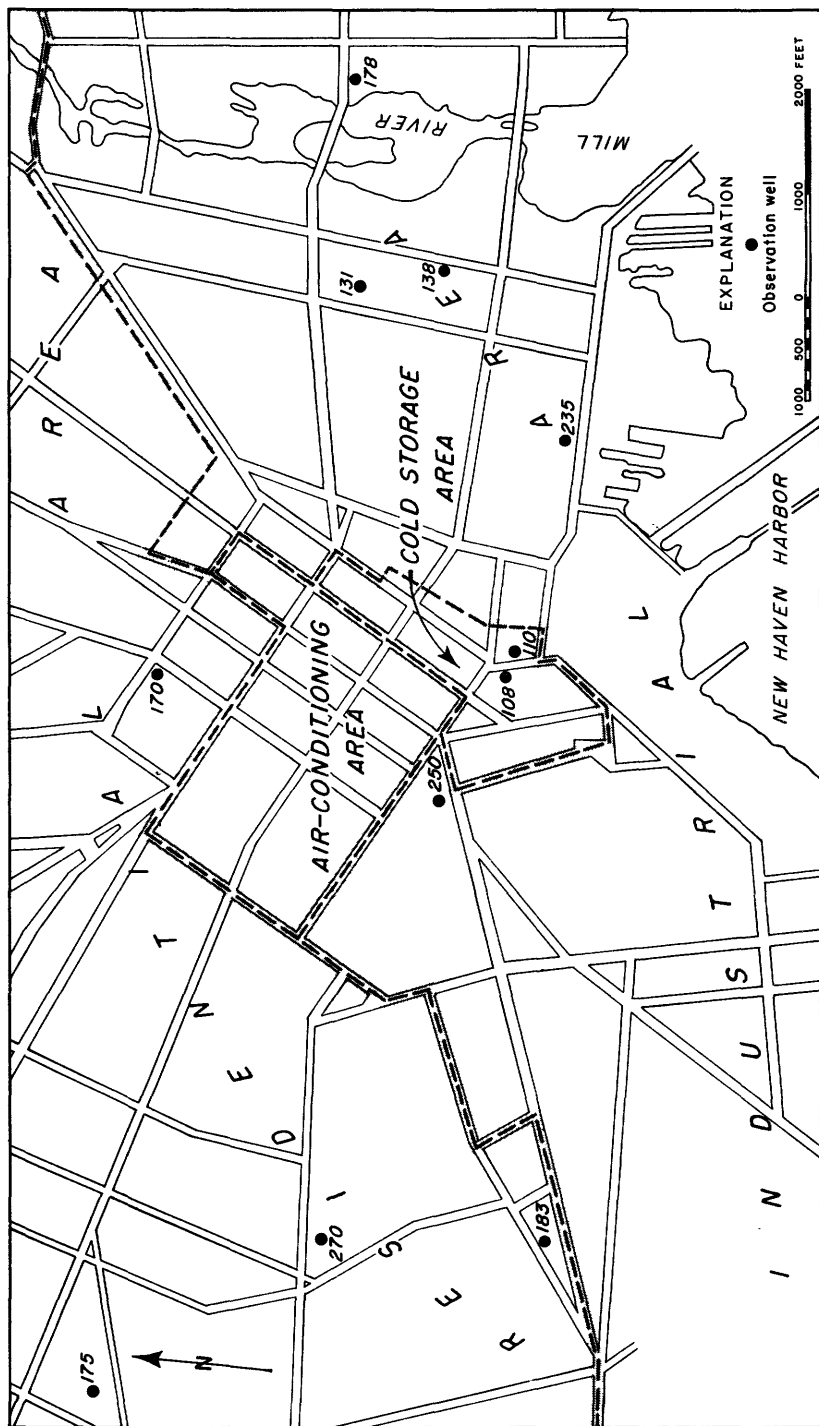


Figure 3. --- Location of observation wells in New Haven area, Connecticut, 1955.

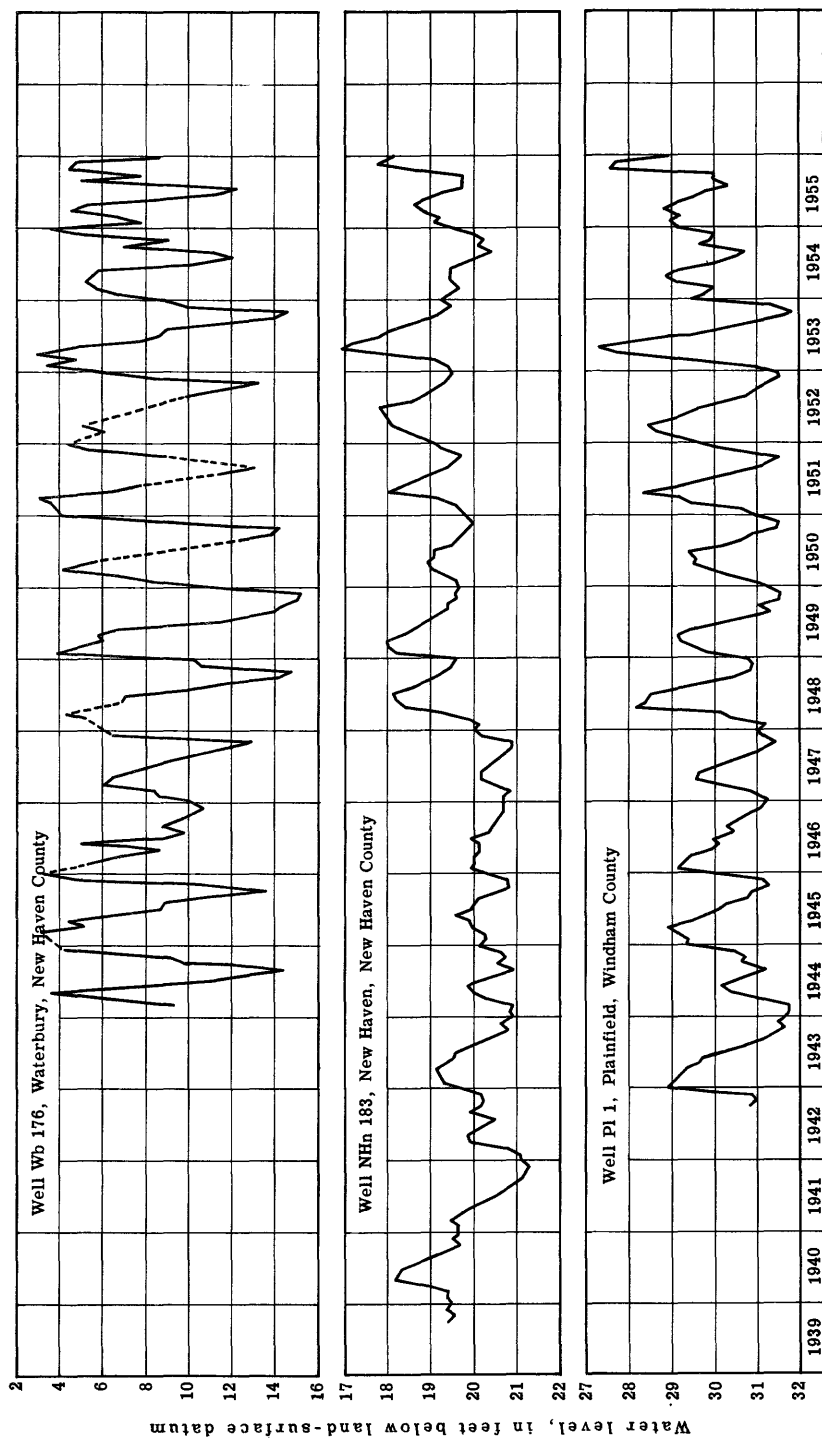


Figure 4. --Water levels in wells Wb 176, NHn 183, and Pl 1, Connecticut.

end of August, water levels were record high for the season in most observation wells and above normal in all wells. They declined somewhat during September but remained above the seasonal normal. As a result of unseasonal recharge from recordbreaking rains, water levels rose to higher stages in October than those recorded in August. They continued at high stages in November but declined in December, as a result of record-low precipitation. They were generally about 1.5 feet above normal at the end of 1955. Records of observation wells in stratified sand and gravel showed that the year-end levels were about the same as those at the end of 1954. Water levels in wells finished in till averaged about 2 feet lower in December 1955 than in December 1954. The larger net difference may be partly due to the fact that the levels in the till were at much higher average stages at the end of 1954.

Well-Numbering System

Wells are numbered consecutively within each township in Connecticut. The townships are designated by abbreviations derived from the town names. For example, well Bt 1 is in the town of Bethel and was the first well inventoried in that township.

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 before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference. Water levels in the city of New Haven are referred to mean sea level.

City of New Haven

NHn 108. Leonard Mareenna. 14 Whiting St. Lat. 41°18'10", long. 72°55'30". Driven unused water-table well in glacial sand, diameter 2 inches, depth 38 feet, screen setting 36-38. Land-surface datum is 15.86 feet above msl. Highest water level 2.48 above msl, Nov. 28, 1955; lowest 3.40 below msl, Aug. 28, 1946. Records available: 1939-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+1.56	Apr. 29	+2.02	July 25	+0.86	Oct. 28	+1.89
Feb. 25	+1.71	May 27	+1.67	Aug. 26	+1.14	Nov. 28	+2.48
Mar. 28	+1.94	June 30	+1.21	Sept. 29	+1.02	Dec. 30	+2.36

NHn 110. Federal Packing Co. 149 State St. Lat. 41°18'10", long. 72°55'30". Driven unused water-table well in glacial sand, diameter 2 inches, depth 20 feet, screen setting 18-20. Land-surface datum is 11.44 feet above msl. Highest water level 2.58 above msl, Dec. 30, 1955; lowest 2.20 below msl, Oct. 27, 1944. Records available: 1939-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+1.52	Apr. 29	+1.91	July 25	+1.86	Oct. 28	+1.80
Feb. 25	+1.66	May 27	+1.70	Aug. 26	+2.08	Nov. 28	+2.14
Mar. 28	+1.85	June 30	+1.94	Sept. 29	+1.19	Dec. 30	+2.58

NHn 131. New Haven Clock Co. 133 Hamilton St. Lat. 41°18'30", long. 72°54'45". Driven unused water-table well in glacial sand, diameter 2½ inches, depth 40 feet. Land-surface datum is 17.23 feet above msl. Highest water level 0.10 above msl, Nov. 28, 1955; lowest 5.65 below msl, May 26, 1944. Records available: 1939-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	-1.06	Apr. 29	-0.58	July 25	-0.53	Oct. 28	-0.25
Feb. 25	-1.25	May 27	-.39	Aug. 26	-.33	Nov. 28	+.10
Mar. 28	-1.01	June 30	-.18	Sept. 29	-.56	Dec. 30	-.02

NHn 138. Associated Realty Co. Green and East Sts. Lat. 41°18'20", long. 72°54'40". Driven unused water-table well in glacial sand, diameter 2 inches, depth 31 feet. Land-surface datum is 17.75 feet above msl. Highest water level 0.95 above msl, Nov. 28, 1955; lowest 5.70 below msl, June 23, 1944. Records available: 1940-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	-0.18	Apr. 29	+0.19	July 25	+0.23	Oct. 28	+0.67
Feb. 25	-.32	May 27	+.50	Aug. 26	+.57	Nov. 28	+.95
Mar. 28	-.08	June 30	+.51	Sept. 29	+.26	Dec. 30	+.58

NHn 170. Yale University. Grove and College Sts. Lat. 41°18'40", long. 72°55'37". Driven unused water-table well in glacial sand, diameter 2 inches, depth 14 feet. Land-surface datum is 41.09 feet above msl. Highest water level 18.89 above msl, May 28, 1953; lowest 15.64 above msl, Jan. 14, 1942. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+17.81	Apr. 29	+18.06	July 25	+17.25	Oct. 28	+17.54
Feb. 25	+17.76	May 27	+17.86	Aug. 26	+17.15	Nov. 28	+17.86
Mar. 28	+17.77	June 30	+17.63	Sept. 29	+16.99	Dec. 30	+18.16

NHn 175. Monarch Laundry. Derby Ave. and Ellsworth St. Lat. 41°18'40", long. 72°57'10". Drilled unused water-table well in glacial sand, diameter 6 inches, depth 54 feet. Land-surface datum is 32.84 feet above msl. Highest water level 5.42 above msl, May 28, 1953; lowest 2.27 above msl, Dec. 17, 1941. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+3.70	Apr. 29	+4.00	July 25	+3.84	Oct. 28	+4.37
Feb. 25	+3.78	May 27	+4.05	Aug. 26	+3.54	Nov. 28	+4.84
Mar. 28	+3.86	June 30	+4.00	Sept. 29	+3.62	Dec. 30	+4.78

NHn 178. Porto Construction Co. Grand Ave. and Haven St. Lat. 41°18'30", long. 72°54'20". Driven unused water-table well in glacial sand, diameter 3 inches, depth 74 feet. Land-surface datum is 13.76 feet above msl. Highest water level 0.04 above msl, June 12, 1940; lowest 7.16 below msl, Feb. 25, 1954. Records available: 1939-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	-6.07	Apr. 29	-6.31	July 25	-5.16	Oct. 28	-5.16
Feb. 25	-8.62	May 27	-6.29	Aug. 26	-5.40	Nov. 28	-4.51
Mar. 28	-6.64	June 30	-6.01	Sept. 29	-5.59	Dec. 30	-4.35

NHn 183. Frank X. Hald Storage Co. 370-376 Davenport Ave. Lat. 41°18'00", long. 72°56'45". Driven unused water-table well in glacial sand and gravel, diameter 2 inches, depth 24 feet. Land-surface datum is 23.94 feet above msl. Highest water level 7.06 above msl, Apr. 27, 1953; lowest 2.67 above msl, Dec. 3, 1941. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+4.85	Apr. 29	+5.31	July 25	+4.29	Oct. 28	+5.31
Feb. 25	+4.74	May 27	+5.09	Aug. 26	+4.27	Nov. 28	+6.19
Mar. 28	+5.08	June 30	+4.67	Sept. 29	+4.25	Dec. 30	+5.79

NHn 235. C. Cowles & Co. Chestnut and Water Sts. Lat. 41°18'05", long. 72°54'55". Drilled unused water-table well in glacial sand, diameter 8 inches, depth 39 feet, screen setting 28-38. Land-surface datum is 14.80 feet above msl. Highest water level 1.26 above msl, Nov. 28, 1955; lowest 2.30 below msl, Aug. 31, 1944. Records available: 1940-55. Nearby well being pumped. Lowest water level incorrectly given in previous reports.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	-0.01	Apr. 29	+0.41	July 25	+0.30	Oct. 28	+0.87
Feb. 25	-.04	May 27	+.25	Aug. 26	+.75	Nov. 28	+1.26
Mar. 28	+3.35	June 30	+3.32	Sept. 29	+2.26	Dec. 30	+9.95

NHn 250. I. Newman & Sons. 43 Oak St. Lat. 41°18'10", long. 72°55'50". Dug unused water-table well in glacial sand, diameter 10 feet, depth 13 feet, lined with brick. Land-surface datum is 14.93 feet above msl. Highest water level 5.65 above msl, Nov. 28, 1955; lowest 0.67 above msl, Sept. 25, 1947. Records available: 1940-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+4.74	Apr. 29	+5.33	July 25	+4.30	Oct. 28	+5.25
Feb. 25	+4.86	May 27	+4.91	Aug. 26	+4.40	Nov. 28	+5.65
Mar. 28	+5.08	June 30	+4.63	Sept. 29	+4.36	Dec. 30	+5.30

NHn 270. Carl E. Altmann. 53 Auburn St. Lat. 41°18'20", long. 72°56'45". Dug unused water-table well in glacial sand, diameter 33 inches, depth 37 feet, lined with stone. Land-surface datum is 38.18 feet above msl. Highest water level 8.20 above msl, May 28, 1953; lowest 3.78 above msl, Dec. 17, 1941. Records available: 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	+6.00	Apr. 29	+6.44	July 25	+5.83	Oct. 28	+6.38
Feb. 25	+5.98	May 27	+6.41	Aug. 26	+5.80	Nov. 28	+7.20
Mar. 28	+6.11	June 30	+6.10	Sept. 29	+5.74	Dec. 30	+7.13

Fairfield County

Bt 1. Frederick J. Andrews. 248 Greenwood Ave., Bethel. Lat. 41°22'20", long. 73°25'10". Dug unused water-table well in glacial sand and gravel, diameter 36 inches, depth 26 feet, lined with stone. Land-surface datum is about 380 feet above msl. Highest water level 16.69 below lsd, Apr. 1, 1953; lowest 24.40 below lsd, Dec. 15, 1949. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	19.66	Apr. 29	19.12	July 25	22.05	Oct. 28	17.34
Feb. 25	20.25	May 27	20.01	Aug. 26	18.20	Nov. 28	17.87
Mar. 30	18.90	June 30	21.40	Sept. 29	20.88	Dec. 29	20.12

Hartford County

Bu 2. E. E. Edman. Burlington. Lat. $41^{\circ}46'15''$, long. $72^{\circ}58'20''$. Dug unused water-table well in glacial till, diameter 36 inches, depth 38 feet, lined with stone. Land-surface datum is about 880 feet above msl. Highest water level 12.70 below lsd, Aug. 19, 1955; lowest 37.41 below lsd, Dec. 22, 1948. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	16.40	Mar. 7	18.60	June 25	19.80	Oct. 9	20.19
9	16.00	12	18.40	July 25	24.90	23	16.01
16	16.40	19	17.90	Aug. 19	12.70	Nov. 19	14.50
25	17.20	Apr. 9	16.07	27	19.97	27	15.48
30	17.60	19	15.70	Sept. 5	18.21	Dec. 11	16.32
Feb. 6	18.30	May 30	17.25	11	18.02	18	17.00
26	19.10	June 5	17.71				

EH 21. Burnside Ice Co. 790 Tolland St., East Hartford. Lat. $41^{\circ}47'$, long. $72^{\circ}36'$. Dug unused water-table well in glacial sand, diameter 30 inches, depth 20 feet, lined with brick. Land-surface datum is about 90 feet above msl. Highest water level 11.14 below lsd, Dec. 12, 1938; lowest 19.60 below lsd, Sept. 22, 1949. Records available: 1934-39, 1946-55.

Jan. 29	17.21	May 28	16.52	Aug. 22	17.18	Oct. 29	15.50
Feb. 26	17.07	July 1	17.48	29	16.73	Nov. 29	14.88
Mar. 31	16.22	26	18.37	Sept. 28	17.13	Dec. 31	15.87
Apr. 30	15.98						

M 84. George Bryan. 179 Tolland Turnpike, Manchester. Lat. $41^{\circ}48'45''$, long. $72^{\circ}30'45''$. Dug unused water-table well in glacial sand and gravel, diameter 32 inches, depth 16 feet, lined with brick. Land-surface datum is about 180 feet above msl. Highest water level 9.65 below lsd, Aug. 22, 1955; lowest 15.20 below lsd, Oct. 27, 1949. Records available: 1948-55.

Jan. 29	13.97	Apr. 30	12.98	Aug. 22	9.65	Oct. 29	11.96
Feb. 26	14.08	May 28	13.96	29	10.93	Nov. 29	12.43
Mar. 31	11.90	July 26	14.65	Oct. 1	14.20	Dec. 31	14.32

SW 64. H. F. Church. Station 37, South Windsor. Lat. $41^{\circ}49'$, long. $72^{\circ}37'30''$. Dug unused water-table well in glacial sand, diameter 24 inches, depth 18 feet, lined with brick. Land-surface datum is about 40 feet above msl. Highest water level 7.15 below lsd, Mar. 30, 1936; lowest 13.84 below lsd, Dec. 31, 1949. Records available: 1934-39, 1948-55.

Jan. 29	11.67	May 28	11.17	Aug. 22	10.06	Oct. 29	8.74
Feb. 26	11.63	July 1	11.84	29	9.85	Nov. 29	8.35
Mar. 31	10.80	26	12.31	Oct. 1	10.70	Dec. 31	9.93
Apr. 30	10.46						

Si 79. American Sumatra Tobacco Co. College Highway, Weatogue. Lat. $41^{\circ}50'00''$, long. $72^{\circ}49'00''$. Drilled unused artesian well in sandstone and shale of Newark group of Triassic system, diameter 8 inches, depth 460 feet, reported cased to 145. Land-surface datum is about 170 feet above msl. Highest water level flowing, Aug. 20, Oct. 20, 1955; lowest 12.62 July 30, 1955. Records available: 1953-55. Equipped with recording gage.

Jan. 1	9.30	Mar. 20	9.58	June 10	10.29	Aug. 20	(k)
5	9.33	Apr. 5	9.15	15	10.65	Sept. 1	7.96
10	9.33	10	9.03	20	10.84	5	8.50
15	9.60	15	9.14	25	10.78	10	8.88
20	9.83	20	9.32	30	10.94	30	9.29
25	9.92	25	9.30	July 1	10.95	Oct. 1	9.34
30	10.10	30	8.79	5	10.86	5	9.46
Feb. 1	10.12	May 1	8.74	10	11.01	10	9.12
5	10.37	5	8.90	15	11.31	15	8.23
10	10.12	10	9.12	20	11.26	20	(k)
20	9.98	15	9.47	25	12.48	25	7.24
25	9.96	20	9.73	30	12.62	30	7.60
Mar. 1	9.81	25	9.96	Aug. 1	11.74	Nov. 16	7.28
5	9.87	30	10.10	5	12.06	20	7.50
10	9.79	June 1	10.16	10	12.14	Dec. 20	8.85
15	9.55	5	10.35	15	11.10		

k Flowing.

Litchfield County

Wy 1. George H. Wadsworth. Main St., Woodbury. Lat. 41°32', long. 73°12'30". Dug unused water-table well in glacial sand and gravel, diameter 30 inches, depth 34 feet, lined with stone. Land-surface datum is about 270 feet above msl. Highest water level 19.44 below lsd, Apr. 1, 1953; lowest 31.00 below lsd, Oct. 10, 1914. Records available: 1913-16, 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	21.84	Apr. 29	21.43	July 25	27.03	Oct. 28	19.56
Feb. 25	22.66	May 27	22.02	Aug. 26	20.06	Nov. 28	19.68
Mar. 30	21.78	June 30	24.16	Sept. 29	21.41	Dec. 29	21.81

Middlesex County

Mf 1. Lyman Gun Sight Corp. Near Baileyville. Lat. 41°30'30", long. 72°43'20". Dug unused water-table well in glacial till, diameter 24 inches, depth 22 feet, lined with stone. Land-surface datum is about 260 feet above msl. Highest water level 3.12 below lsd, Apr. 3, 1951; lowest 14.83 below lsd, Oct. 28, 1953. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	8.17	Apr. 29	6.45	July 25	12.00	Oct. 29	6.13
Feb. 25	7.69	May 27	8.20	Aug. 29	6.50	Nov. 30	6.45
Mar. 30	4.69	June 30	10.51	Sept. 29	9.80	Dec. 29	8.45

New Haven County

EHv 70. H. A. Doolittle. Silver Sands Rd., East Haven. Lat. 41°15'00", long. 72°52'45". Dug unused water-table well in glacial sand and gravel, diameter 36 inches, depth 16 feet, lined with stone. Land-surface datum is about 30 feet above msl. Highest water level 7.27 below lsd, Mar. 30, 1953; lowest 16.03 below lsd, Nov. 22, 1935. Records available: 1935-39, 1951-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	10.31	Apr. 29	10.03	July 25	13.57	Oct. 28	9.01
Feb. 25	10.66	May 27	10.99	Aug. 26	9.55	Nov. 28	9.05
Mar. 28	8.58	June 30	12.49	Sept. 29	11.88	Dec. 30	10.85

Na 10: Naugatuck Water Co. Beacon Valley Rd., Naugatuck. Lat. 41°28', long. 73°00'40". Driven unused water-table well in glacial sand and gravel, diameter 2 inches, depth 94 feet. Land-surface datum is about 340 feet above msl. Highest water level 3.86 below lsd, Nov. 28, 1955; lowest 17.56 below lsd, July 25, 1955. Records available: 1946-50, 1952-55. June 30, 15.59; July 25, 17.56; Oct. 28, 4.06; Nov. 28, 3.86; Dec. 29, 5.15.

Na 11. Naugatuck Water Co. Beacon Valley Rd., Naugatuck. Lat. 41°28', long. 73°00'40". Driven unused water-table well in glacial sand and gravel, diameter 2 inches, depth 36 feet. Land-surface datum is about 347 feet above msl. Highest water level 3.00 below lsd, Apr. 1, 1953; lowest 19.45 below lsd, July 25, 1955. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.60	Apr. 30	4.52	July 25	19.45	Nov. 28	3.92
Feb. 25	5.25	May 27	5.56	Sept. 29	6.33	Dec. 29	5.13
Mar. 30	4.54	June 30	16.94	Oct. 28	4.11		

Sb 1. Francis Bower. Near South Br., in. Lat. 41°28'50", long. 73°15'30". Dug unused water-table well in glacial sand and gravel, diameter 24 inches, depth 23 feet, lined with stone. Land-surface datum is about 190 feet above msl. Highest water level 9.66 below lsd, Nov. 28, 1955; lowest 18.40 below lsd, Oct. 14, 1916. Records available: 1913-16, 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	13.75	Apr. 29	12.83	July 25	14.66	Oct. 28	10.58
Feb. 25	13.83	May 27	13.33	Aug. 26	12.19	Nov. 28	9.66
Mar. 30	13.03	June 30	13.95	Sept. 29	12.60	Dec. 29	10.39

Wb 93. Mrs. William Nichols, Sr. 118 Pearl Lake Rd., Waterbury. Lat. 41°31'30", long. 73°02'30". Dug unused water-table well in glacial gravel, diameter 4 feet, depth 33 feet, lined with stone. Land-surface datum is about 320 feet above msl. Highest water level 23.99 below lsd, Apr. 1, 1953; lowest 28.39 below lsd, Aug. 29, 1944. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	27.13	Apr. 29	27.02	July 25	28.12	Oct. 28	24.96
Feb. 25	27.00	May 27	27.39	Aug. 26	24.92	Nov. 28	25.87
Mar. 30	26.01	June 30	27.87	Sept. 29	27.46	Dec. 29	27.34

Wb 176. Mrs. Frank Bergin. 535 Scott Rd., Waterbury. Lat. 41°32', long. 72°59'. Dug unused water-table well in glacial till, diameter 30 inches, depth 16 feet, lined with stone. Land-surface datum is about 650 feet above msl. Highest water level 2.80 below lsd, Apr. 4, 1951; lowest 15.20 below lsd, Nov. 26, 1949. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	7.76	Apr. 29	5.30	July 25	12.27	Oct. 28	4.46
Feb. 25	6.77	May 27	8.52	Aug. 26	5.10	Nov. 28	4.83
Mar. 30	4.74	June 30	11.17	Sept. 29	7.81	Dec. 29	8.52

Wb 198. A. A. Baker. 185 Pierpont Rd., Waterbury. Lat. 41°32'45", long. 72°58'45". Dug domestic water-table well in glacial till, diameter 30 inches, depth 31 feet, lined with stone. Land-surface datum is about 540 feet above msl. Highest water level 5.49 below lsd, Jan. 10, 1946; lowest 21.00 below lsd, Nov. 26, 1949. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	12.25	Apr. 29	11.55	July 25	15.59	Oct. 28	9.04
Feb. 25	12.68	May 27	12.76	Aug. 26	11.08	Nov. 28	9.53
Mar. 30	10.62	June 30	14.25	Sept. 29	13.24	Dec. 29	12.39

Wb 336. The Bristol Co. Platts Mills Rd., Waterbury. Lat. 41°31', long. 73°03'30". Drilled unused water-table well in glacial sand and gravel, diameter 8 inches, depth 57 feet, screen setting 37-57. Land-surface datum is about 215 feet above msl. Highest water level 9.08 below lsd, Apr. 1, 1953; lowest 20.40 below lsd, Aug. 29, 1944. Records available: 1944-55. Nearby well being pumped.

Jan. 28	13.39	Apr. 29	10.75	Sept. 29	12.82	Nov. 28	9.80
Feb. 25	13.29	May 27	13.97	Oct. 28	10.72	Dec. 29	13.12
Mar. 30	11.14	July 23	17.92				

Wb 340. Connecticut Light and Power Co. Eagle St., Waterbury. Lat. 41°32'10", long. 73°03'30". Driven unused water-table well in glacial sand and gravel, diameter 2 inches, depth 40 feet. Land-surface datum is about 250 feet above msl. Highest water level 15.73 below lsd, Oct. 28, 1955; lowest 24.87 below lsd, Sept. 27, 1945. Records available: 1944-55. Nearby well being pumped.

Jan. 28	19.97	Apr. 29	17.53	July 25	19.02	Nov. 28	18.07
Feb. 25	18.54	May 27	18.76	Oct. 28	15.73	Dec. 29	19.54
Mar. 30	17.16	June 30	18.56				

New London County

NL 10. New London Historical Society. 11 Blinman St., New London. Lat. 41°21', long. 72°06'. Dug unused water-table well in glacial sand and gravel, diameter 36 inches, depth 22 feet, lined with stone. Land-surface datum is about 10 feet above msl. Highest water level 11.76 below lsd, Mar. 31, 1953; lowest 17.99 below lsd, Aug. 16, 1937. Records available: 1937-39, 1946-55.

Jan. 29	15.55	Apr. 30	15.33	Aug. 29	14.92	Oct. 29	14.34
Feb. 26	14.61	May 28	16.24	Sept. 28	16.03	Dec. 31	16.50
Mar. 28	13.58	June 27	16.57				

Tolland County

U 3. Yale University Forest. Union. Lat. 41°57'40", long. 72°09'45". Dug unused water-table well in glacial till, diameter 36 inches, depth 25 feet, lined with stone. Land-surface datum is about 780 feet above msl. Highest water level 9.34 below lsd, Mar. 31, 1953; lowest dry, Dec. 1, 1949. Records available: 1946-55.

Jan. 29	16.51	Apr. 30	15.90	Aug. 29	17.75	Nov. 29	14.47
Feb. 25	17.39	May 28	17.30	Oct. 29	15.58	Dec. 31	17.16
Mar. 31	15.36	July 26	20.55				

Windham County

Af 1. Yale University Forest. Near Westford, in Ashford township. Lat. 41°55'00", long. 72°09'00". Dug unused water-table well in glacial till, diameter 30 inches, depth 15 feet, lined with stone. Land-surface datum is about 650 feet above msl. Highest water level 2.63 below lsd, Jan. 25, 1953; lowest dry Oct. 27, 1949. Records available: 1946-55.

Jan. 29	7.08	Apr. 30	4.62	Aug. 29	5.78	Nov. 29	4.98
Feb. 26	5.56	May 28	7.97	Oct. 29	5.00	Dec. 31	7.60
Mar. 31	4.87	July 26	12.00				

Pl 1. W. P. Lewis. Pleasant St., Plainfield. Lat. 41°40'50", long. 71°55'20". Dug unused water-table well in glacial sand and gravel, diameter 36 inches, depth 34 feet, lined with stone. Land-surface datum is about 180 feet above msl. Highest water level 27.24 below lsd, Apr. 28, 1953; lowest 31.82 below lsd, Oct. 27, 1953. Records available: 1942-55.

Jan. 29	29.03	Apr. 30	29.20	July 26	30.27	Oct. 29	27.59
Feb. 26	29.22	May 28	29.49	Aug. 29	29.99	Nov. 29	27.70
Mar. 31	28.89	June 27	29.82	Sept. 28	30.00	Dec. 31	28.91

Wil 1. American Thread Co. 322 Main St., Willimantic. Lat. $41^{\circ}42'30''$, long. $72^{\circ}12'15''$. Drilled unused water-table well in crystalline bedrock, diameter 6 inches, depth 83 feet. Land-surface datum is about 190 feet above msl. Highest water level 4.52 below lsd, Mar. 31, 1953; lowest 8.90 below lsd, Oct. 27, 1947. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	6.87	Apr. 30	6.29	July 26	7.38	Oct. 29	5.00
Feb. 25	6.82	May 26	6.95	Aug. 29	5.34	Nov. 29	5.45
Mar. 31	6.12	June 27	7.34	Sept. 28	6.27	Dec. 31	6.65

DELAWARE

By O. J. Coskery

Scope of Water-Level Program

In 1943 the U. S. Geological Survey, cooperating with the towns of Lewes and Rehoboth, began a study of salt-water encroachment into the fresh-water aquifers of that area. After the development of a well field inland by the city of Lewes in 1945, the program was limited to determining fluctuations in the water surface until 1950, when the cooperation ended. Observation of well Ni 3 in the city of Lewes was continued in the statewide program begun in December 1949. The State of Delaware, through the Agricultural Extension Service of the University and the Highway Department, cooperated with the U. S. Geological Survey in making a study of ground-water resources through June 30, 1951. Beginning July 1, 1951, the Delaware Geological Survey became the cooperating agency, and cooperation has continued through 1955.

During 1955, 363 individual water-level measurements were made in the 21 wells listed in this report. Recording gages were maintained on 3 wells in municipal well fields at New Castle, Newark, and Lewes. A recording gage was maintained also at the Governor Bacon Health Center at Delaware City. Figure 5 shows the location of observation wells in Delaware.

A well-field test on the 150-foot aquifer at Lewes, completed at the end of 1954, was analyzed. A report entitled "Preliminary report on the geology and ground-water resources of Delaware," by Ira W. Marine and William C. Rasmussen, published by the Delaware Geological Survey in May 1955 as Bulletin No. 4, describes the geological conditions and the occurrence, quantity, and quality of the available ground-water supplies within the State. Two reports, "Water levels and artesian pressures in Delaware, 1953," by D. H. Boggess and O. J. Coskery, and "Water levels and artesian pressures in Delaware, 1954," by O. J. Coskery and D. H. Boggess, were published by the Delaware Geological Survey, in April 1955 and April 1956, as Water-Level Reports No. 2 and No. 3 respectively. A paper entitled "Magnitude of the ground waters of Delaware," by W. C. Rasmussen, was published in the Proceedings of the Twenty-Eighth Annual Conference, Maryland-Delaware Water and Sewage Association, 1955.

Precipitation

The year was one of below-normal precipitation in Delaware, averaging 40.04 inches, about 4 inches below normal, at 10 stations in the State. Below-normal precipitation continued from January to July except for a short period early in June. Because of the heavy rains associated with the hurricanes of August 11 and 18, precipitation in August was 6 inches above normal--highest for this month during 22 years of record. The intense rainfall, partly dissipated in high runoff, caused floods in some areas in northern Delaware. However, infiltration was sufficient to restore ground-water levels to a stage higher than in any period since April 1954.

Pumpage

The average pumpage from the municipal well field at New Castle was 490,000 gpd (gallons per day) during 1955. The average pumpage from the Newark field was about 605,000 gpd, which was supplemented by an average of 283,000 gpd from a surface-water source. The decline in pumpage from the ground-water reservoir and the consequent increase in surface-water use was due to pump failure on one of the production wells in the Newark field. Pumpage from the well field at Lewes averaged about 600,000 gpd during 1955. At the Governor Bacon Health Center, the average pumpage during 1955 was about 87,000 gpd.

Interpretation of Water-Level Fluctuations

During 1955 the average water level of 13 water-table wells fluctuated in response to recharge by ground-soaking precipitation and to the withdrawal of water by plants and by flow to points of natural discharge. As indicated in figure 6, the ground-water reservoirs showed a moderate recovery during the winter and spring and recorded an excess of discharge over

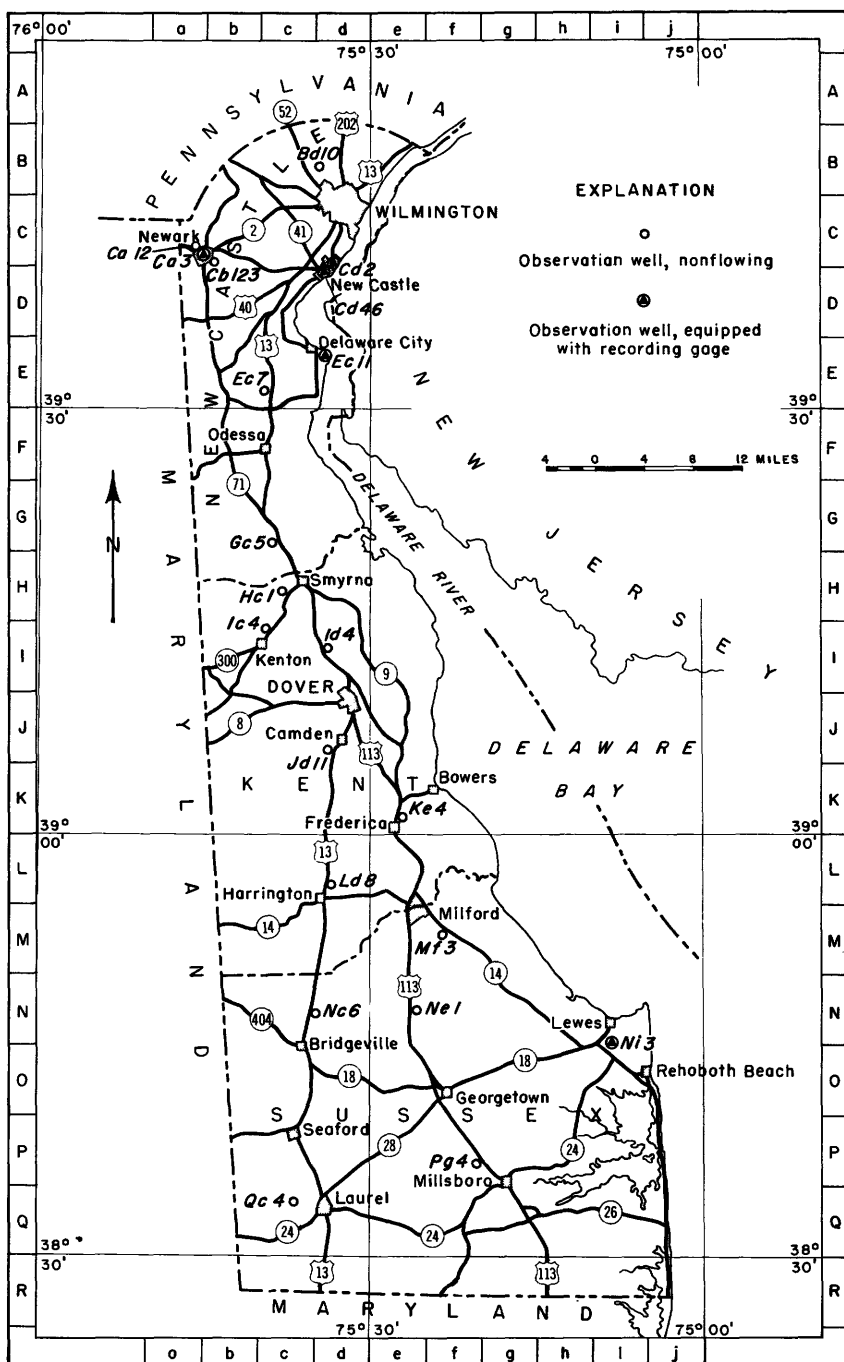


Figure 5. --Location of observation wells in Delaware, 1955.

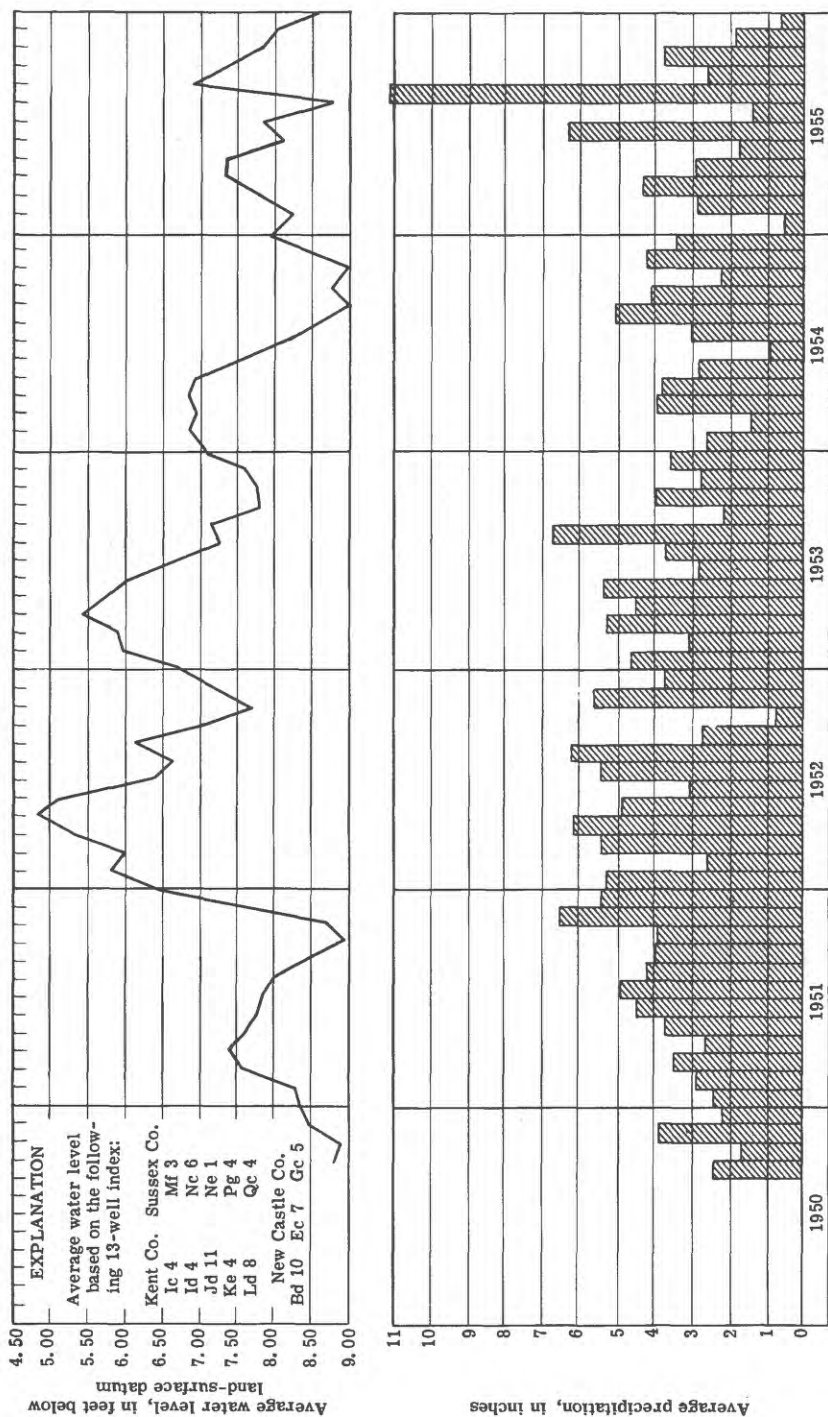


Figure 6. --Average monthly water levels in 13 water-table wells in Delaware and average monthly statewide precipitation, September 1950 - December 1955.

recharge during the early summer. At the end of July, the lowest water level of 1955 was recorded at an average 8.79 feet below land surface, only 0.21 foot above the record low of October 1954. The interruption of the depletion cycle by the heavy rains accompanying hurricanes "Connie" and "Diane" of August 11 and 18 resulted in a sharp rise in the average water level to 6.88 feet. The depletion cycle, resumed at the end of August, continued to the end of 1955. The decline in the average water level, resulting from the normal transpiration of plants at the close of the growing period, was prolonged by base runoff to streams and evaporation from marshy areas during a relatively continuous period of below-normal precipitation. The average water level for 1955 was 7.86 feet below land surface, 0.66 foot below the preceding 4-year average for the period 1951-54. Figure 6 indicates a downward trend for the last 4 years, largely the result of accumulated deficiency in precipitation.

Sussex County well Mf 3, an observation water-table well on Route 14 south of Milford, fluctuated in response to changes in the local water table until June, when it became partially clogged by dirt washed into it by runoff during a local thunderstorm. Heavy rains in mid-August resulted in completely clogging the well, making it unresponsive to fluctuations in the local water table. As a result, measurements in Mf 3 from June to December were not representative of water-table conditions in the area. Because this well is an index well used in the study of average water levels, it was necessary to discard the measurements from June to December 1955 and to substitute interpolated water levels based on a study of six observation wells in Sussex County and the southern portion of Kent County.

Water levels in the vicinity of well fields at Delaware City, Newark, New Castle, and Lewes responded to pumping from municipal wells. The water level in observation well Ca 3 in the Newark well field continued to decline through 1955, despite reduced pumping from the field, reaching a record low of 37.53 feet on July 24. This decline, continuing from May 1953, is a result of a prolonged period of below-normal precipitation. Cb 123 at the University Farm, on the outer rim of this cone of depression, reached a record low on July 28. At New Castle, pumping continued from the shallow water-table aquifer until May; intermittent pumping followed until August, when pumping ceased until mid-December. This was reflected in the water level in observation well Cd 2, which declined until the end of February, rose slightly through March and April, then recovered quickly after May 10 when regular pumping ended. At Delaware City, the water level in Ec 11 declined 2.2 feet from 1952 through 1955 for an average drop of 0.5 foot per year. On October 10 and 11, 1955, the highest water levels of record in Ec 11 were reached in response to cessation of pumping for 2 days from the nearby wells. The highest daily low, 23.2 feet, was recorded October 10, and a high of 20.5 was reached October 11, 1955. The water level in Ni 3 at Lewes continued its gentle downward trend, totaling 1.95 feet since 1950.

Acknowledgments

Recording-gage charts were voluntarily changed weekly by Oliver Henderson at New Castle, by Carl Jorgenson at the Governor Bacon Health Center, and by Bayard Coulter at Lewes.

Well-Numbering System

The State of Delaware is divided into 5-minute quadrangles of latitude and longitude as shown in figure 5. The quadrangles are lettered north to south with uppercase letters and west to east with lowercase letters. A quadrangle is indicated by two letters, the capital letter being given first. Within the quadrangles, the wells are numbered in the order they were scheduled. Each well number consists of a two-letter symbol and a number assigned to the well.

Well Descriptions and Water-Level Measurements

(Water-level measurements are in feet below lsd unless otherwise indicated.)

Kent County

Hc 1. Town of Clayton. Lat. 39°17', long. 75°38'. Jetted unused artesian well in sand of Eocene age, diameter 4 inches, depth 204 feet. Land-surface datum is about 45 feet above msl. Highest water level 18.33 below lsd, Apr. 30, 1953; lowest 39.30 below lsd, Dec. 1, 1953. Records available: 1950, 1952-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	25.22	Apr. 1	24.64	June 30	25.57	Oct. 3	25.02
31	25.08	May 3	24.80	July 28	26.71	28	25.12
Feb. 28	25.12	June 1	25.76	Aug. 30	25.89	Nov. 30	25.05

Ic 4. State Highway Department. Lat. $39^{\circ}14'$, long. $75^{\circ}39'$. Near Kenton. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 12 feet. Land-surface datum is about 60 feet above msl. Highest water level 2.44 below lsd, May 1, 1952; lowest 6.22 below lsd, July 28, 1955. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	5.09	Apr. 1	4.75	June 30	5.59	Oct. 3	5.18
31	5.38	May 3	5.16	July 28	6.22	28	5.39
Feb. 28	4.98	June 1	5.65	Aug. 30	4.77	Nov. 30	5.55

Id 4. State Highway Department. Lat. $39^{\circ}13'$, long. $75^{\circ}34'$. Near Cheswold. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 14 feet. Land-surface datum is about 40 feet above msl. Highest water level 2.48 below lsd, May 1, 1952; lowest 9.52 below lsd, Nov. 3, 1954. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	6.49	Apr. 1	4.76	June 30	6.10	Oct. 3	6.27
31	6.92	May 3	5.60	July 28	7.41	28	6.92
Feb. 28	5.75	June 1	6.67	Aug. 30	4.88	Nov. 30	7.12

Jd 11. State Highway Department. Lat. $39^{\circ}06'$, long. $75^{\circ}33'$. Near Camden. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 15 feet. Land-surface datum is about 50 feet above msl. Highest water level 3.08 below lsd, June 2, 1952; lowest 9.16 below lsd, Oct. 30, 1951. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	7.83	Apr. 1	7.20	June 30	7.07	Sept. 30	6.84
31	7.84	May 2	7.25	July 28	7.62	Oct. 28	7.35
Feb. 28	7.84	31	7.70	Aug. 30	6.20	Nov. 30	7.78

Ke 4. State Highway Department. Lat. $39^{\circ}01'$, long. $75^{\circ}27'$. Near Frederica. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 17 feet. Land-surface datum is about 22 feet above msl. Highest water level 4.13 below lsd, June 2, 1952; lowest 12.89 below lsd, Dec. 1, 1950. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.59	Apr. 1	10.20	July 1	10.84	Sept. 30	10.24
31	11.16	May 2	10.50	29	11.27	Oct. 28	10.96
Feb. 28	11.23	31	11.03	Aug. 31	9.39	Dec. 2	11.66

Ld 8. State Highway Department. Lat. $38^{\circ}56'$, long. $75^{\circ}34'$. Near Harrington. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 13 feet. Land-surface datum is about 52 feet above msl. Highest water level 1.28 below lsd, June 2, 1952; lowest 7.26 below lsd, Oct. 1, 1951. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.01	Apr. 1	3.80	June 30	5.05	Sept. 30	5.34
31	5.09	May 2	4.32	July 28	6.10	Oct. 28	6.04
Feb. 28	4.16	31	5.46	Aug. 30	3.79	Nov. 30	6.08

New Castle County

Bd 10. F. B. Crowninshield. Lat. $39^{\circ}47'$, long. $75^{\circ}34'$. Near Montchanin Station. Dug unused water-table well in weathered gabbro, diameter 42 inches, depth 23 feet, curbed with stone. Land-surface datum is about 250 feet above msl. Highest water level 10.30 below lsd, May 2, 1952; lowest 16.58 below lsd, Nov. 2, 1954. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	15.88	May 2	14.45	July 28	16.39	Oct. 27	14.53
Mar. 1	15.17	June 1	15.04	Aug. 30	13.89	Dec. 2	14.90
30	14.05	July 1	15.36	Oct. 3	14.37		

Ca 3. City of Newark. Lat. $39^{\circ}40'$, long. $75^{\circ}45'$. Academy St. and Waterworks Lane. Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 67 feet. Land-surface datum is about 100 feet above msl. Highest water level 20.60 below lsd, Apr. 28, 1952; lowest 37.53 below lsd, July 24, 1955. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.78	35.25	.....	35.98	35.91	36.37	36.09	36.99	35.65	35.95	35.52	35.65
2	34.72	35.24	35.79	36.01	35.82	36.23	36.14	37.05	35.72	35.82	35.50	35.72
3	34.86	35.22	e35.81	35.94	35.84	36.20	36.16	37.16	35.74	35.67	35.52	35.75
4	34.98	35.28	e35.82	35.87	35.89	36.13	36.03	37.24	35.64	35.69	35.59	35.75
5	35.06	.....	e35.82	36.02	35.92	e36.03	36.11	37.26	35.51	35.71	35.62	35.72
6	35.12	.....	35.79	36.04	36.03	36.07	36.28	37.22	35.52	35.73	35.55	35.87
7	35.23	.....	35.70	35.87	36.06	36.13	36.45	37.09	35.64	35.75	35.48	35.90
8	35.28	35.58	35.71	35.85	36.04	36.15	36.56	36.90	35.73	35.78	35.56	35.96
9	35.24	35.67	35.81	.....	35.91	36.09	36.65	36.80	.....	35.69	35.62	35.99
10	35.19	35.70	35.83	.....	35.99	36.05	36.71	36.71	.....	35.61	35.56	.....

Ca 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	35.59	35.83	.....	36.02	36.07	36.60	.....	.....	35.68	35.68	.....
12	.....	35.51	35.85	35.61	36.05	36.05	36.61	36.59	.....	35.70	.....	.....
13	.....	35.51	35.87	35.55	36.09	36.05	36.67	36.48	.....	35.76	.....	.....
14	.....	35.61	35.82	35.48	36.11	.....	36.67	36.36	.....	35.79	.....	.....
15	.....	35.66	35.85	35.56	36.01	.....	.....	36.19	.....	.....	.....	36.15
16	.....	35.78	35.88	35.68	.....	35.94	.....	36.18	35.71	.....	.....	36.20
17	.....	35.81	35.91	35.70	.....	36.02	.....	36.19	35.78	.....	.....	36.24
18	.....	35.78	35.91	35.64	.....	36.09	.....	36.16	35.79	.....	35.63	36.19
19	.....	35.75	35.94	.....	.....	36.11	37.10	.....	35.66	.....	35.64	36.13
20	.....	36.68	35.89	.....	.....	36.00	37.26	.....	35.73	.....	35.56	36.12
21	35.40	35.65	35.84	.....	.....	36.01	37.28	36.01	35.79	.....	35.52	36.10
22	35.44	35.68	35.81	.....	36.39	35.94	37.40	36.02	35.83	35.89	35.57	.....
23	35.39	35.69	35.87	35.87	.....	36.02	37.52	.....	.....	35.76	35.61	36.09
24	35.37	35.73	.....	35.90	.....	36.08	37.53	.....	35.91	35.65	35.60	36.03
25	35.41	35.71	35.90	35.86	.....	36.09	37.30	.....	35.80	35.72	.....	35.94
26	35.40	35.77	35.93	35.84	.....	35.98	.....	.....	35.75	35.74	.....	35.89
27	35.45	35.80	35.86	35.90	.....	35.88	.....	35.93	35.80	35.65	.....	35.80
28	.....	35.71	35.75	35.92	.....	35.95	37.44	35.87	35.86	35.67	.....	35.78
29	35.44	.....	35.76	35.93	.....	36.00	37.47	35.77	35.91	35.65	35.44	35.71
30	35.37	.....	35.78	35.93	.....	36.03	37.39	35.66	35.92	35.56	35.59	35.68
31	35.28	.....	35.86	.....	.....	.....	37.21	35.62	.....	35.50	.....	35.70

e Estimated.

Ca 12. City of Newark. Formerly Phillips Packing Co. Lat. 39°40', long. 75°46'. Drilled unused artesian well in Patuxent formation, diameter 8 inches, depth 42 feet. Land-surface datum is about 110 feet above msl. Highest water level 22.58 below lsd, July 12, 1953; lowest 33.74 below lsd, Aug. 26, 1954. Records available: 1951, 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 1	29.51	Aug. 20	29.60	Sept. 3	29.24	Sept. 25	29.19
Apr. 1	29.21	21	29.54	4	29.23	26	29.20
May 6	29.17	22	29.53	5	29.21	27	29.21
June 1	30.04	23	29.45	6	29.19	28	29.23
July 1	29.86	24	29.44	7	29.19	29	29.24
29	29.89	25	29.41	8	29.19	30	29.25
Aug. 12	29.77	26	29.36	16	29.14	Oct. 1	29.26
13	29.82	27	29.36	17	29.14	2	29.26
14	29.81	28	29.33	18	29.14	3	29.27
15	29.75	29	29.31	19	29.13	4	29.27
16	29.71	30	29.29	20	29.16	5	29.28
17	29.71	31	29.27	21	29.16	6	29.29
18	29.71	Sept. 1	29.26	22	29.17	28	29.36
19	29.64	2	29.25	24	29.18	Dec. 2	29.70

Cb 123. University of Delaware. Agricultural Experiment Station. Lat. 39°40', long. 75°44'. Driven observation water-table well in sand of Patuxent formation, diameter 1½ inches, depth 26 feet. Land-surface datum is about 90 feet above msl. Highest water level 6.50 below lsd, May 1, 1952; lowest 13.40 below lsd, July 28, 1955. Records available: 1951-55.

Jan. 31	13.26	May 3	12.44	July 28	13.40	Oct. 28	12.42
Mar. 1	12.76	June 1	13.05	Aug. 30	11.37	Nov. 30	12.69
Apr. 1	12.06	July 1	12.59	Oct. 3	12.14		

Cd 2. City of New Castle. Lat. 39°40', long. 75°34'. Dug unused water-table well in sand of Pleistocene age, size 12 by 13 feet, depth 23 feet. Land-surface datum is 9.21 feet above msl. Highest water level 3.37 above msl, Apr. 19, 1953; lowest 13.09 below msl, Aug. 1, 1950. Records available: 1950-55.

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	-9.39	-10.49	-10.87	-11.31	-10.85	-2.87	-0.76	-0.46	+0.81	+1.26	+1.44	+1.50
2	9.01	.....	11.26	11.39	.....	4.99	.72	.41	.84	1.26	1.46	1.61
3	8.99	.....	11.56	11.19	.....	4.96	.69	.38	.86	1.27	1.50	1.64
4	9.24	10.68	10.96	10.55	.....	2.89	.64	.37	.89	1.31	1.56	1.67
5	9.34	10.86	10.91	10.66	.....	2.61	.59	.35	.91	1.33	1.58	1.64
6	9.40	10.04	10.79	10.67	11.08	2.49	3.09	2.06	.95	1.33	1.59	1.62
7	....	10.72	10.50	10.67	11.40	4.79	1.84	.43	.96	1.34	1.56	1.62
8	....	10.76	10.65	10.64	10.17	4.79	.66	.31	.92	1.31	1.55	1.67
9	....	10.94	10.64	10.67	10.52	2.49	.61	.30	.95	1.33	1.58	1.62
10	....	10.94	10.88	10.71	.....	3.79	.54	.28	.97	1.35	1.60	1.51

Cd 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	-11.11	-11.14	-10.64	-6.46	-2.20	-0.51	-0.24	+1.03	+1.37	+1.58	+1.53
12	....	....	11.27	11.03	....	2.05	.49	-.19	1.01	1.39	1.55	....
13	....	....	10.79	11.06	....	1.95	3.11	+.04	.97	1.40	1.55	....
14	-9.49	10.91	10.32	10.80	6.14	1.87	.82	.04	1.02	1.38	1.61	....
15	9.64	11.25	10.46	10.76	5.86	1.79	.56	.05	1.09	1.38	1.58	....
16	9.19	10.96	10.71	10.82	5.63	1.71	.48	.11	1.07	1.43	1.66	....
17	9.46	11.20	10.70	10.89	5.42	1.63	.44	.19	1.06	1.42	1.53	....
18	9.86	10.90	10.84	10.14	7.29	1.56	2.94	.24	1.11	1.43	1.51	....
19	9.87	11.09	10.42	10.67	7.75	1.48	2.97	.31	1.15	1.34	....	....
20	9.99	11.01	10.58	10.72	4.82	....	3.34	.36	1.12	1.31	....	....
21	10.14	10.62	10.25	10.62	4.37	....	3.60	.39	1.08	1.38	1.62	....
22	10.09	11.16	10.68	10.71	4.12	....	3.62	.42	1.08	1.33	1.59	....
23	9.55	11.34	10.19	11.05	3.92	....	1.23	.50	1.11	1.36	1.64	-5.31
24	9.83	11.63	10.55	11.16	3.75	....	.82	.51	1.21	1.42	1.57	5.06
25	10.06	11.63	10.29	10.79	3.60	1.13	.65	.53	1.20	+1.39	1.58	5.07
26	10.11	11.19	10.51	10.83	3.47	1.05	2.07	.58	1.17	-.21	1.66	5.06
27	10.18	11.07	10.61	11.02	3.39	.98	2.03	.65	1.21	+1.41	1.66	5.32
28	10.46	10.66	10.62	11.02	3.27	.94	.84	.71	1.27	1.45	1.64	5.54
29	10.46	....	10.96	10.89	3.11	.88	.62	.74	1.25	1.50	1.60	5.55
30	9.79	....	11.16	10.99	3.03	.82	.56	.76	1.24	1.50	1.53	....
31	10.14	....	11.34	....	2.93	....	.52	.80	....	1.44	....	....

Cd 46. City of New Castle. Lat. 39°40', long. 75°34'. Jetted unused artesian well in sand of Cretaceous age, diameter 6 inches, depth 121 feet. Land-surface datum is 11.01 feet above msl. Highest water level 7.09 above msl, June 1, 1953; lowest 2.54 above msl, Nov. 26, 1952. Records available: 1952-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	+4.00	May 26	c-37.20	Nov. 26	c-29.4	Dec. 12	c-28.4
9	4.16	27	c28.99	27	c29.5	13	d8.8
10	4.19	28	c38.99	28	c22.0	14	d3.0
Apr. 26	4.59	30	d14.45	29	c32.0	15	d-.8
27	4.51	Nov. 3	c25.3	30	c40.8	16	d+.5
28	4.46	4	c34.0	Dec. 1	c48.5	21	d2.16
29	4.42	5	c34.7	2	c51.6	22	d2.36
30	4.39	6	c24.1	3	c54.0	23	d2.61
May 1	4.40	7	c29.9	4	c19.0	24	d2.80
2	4.30	8	c42.4	5	c21.3	25	d2.97
3	4.26	9	c43.7	6	c25.6	26	d3.03
4	4.25	21	c22.8	7	c29.6	27	d3.09
5	4.24	22	c27.3	8	c33.5	28	d3.09
6	4.24	23	c27.7	9	c33.8	29	d3.21
7	4.27	24	c25.0	10	c25.1	30	d3.41
8	+4.23	25	c19.4	11	c25.8	31	d3.50
25	c-37.11						

c Nearby well being pumped.

d Nearby well pumped recently.

Ec 7. State Highway Department. Lat. 39°31', long. 75°39'. Near St. Georges. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 11 feet. Land-surface datum is about 35 feet above msl. Highest water level 0.60 below lsd, May 1, 1952; lowest 4.45 below lsd, July 28, 1955. Records available: 1950-55.

Jan.	3	3.48	Apr. 1	3.59	June 30	3.94	Oct. 3	3.84
	31	4.13	May 3	3.80	July 28	4.45	28	4.03
Feb. 28	3.86		June 1	4.21	Aug. 30	3.51	Nov. 30	4.26

Ec 11. Governor Bacon Health Center. Lat. 39°34', long. 75°35'. In well field of Governor Bacon Health Center, 125 feet south of pump-house. Drilled unused artesian well in sand of Magothy formation, diameter 6 inches, depth 157 feet, cased to 157. Land-surface datum is about 15 feet above msl. Highest water level 23.2 below lsd, Oct. 10, 1955; lowest 64.2 below lsd, July 2, 1952. Records available: 1952-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	40.5	51.0	55.5	45.1	56.4	46.5	59.1	60.7	39.5	51.2	55.1
2	56.0	54.3	54.0	44.3	25.1	39.5	46.4	45.5	40.5	51.2	28.3	53.1
3	46.2	....	56.1	42.8	49.4	e54.8	42.0	61.7	57.1	46.3	39.5	29.3
4	56.4	....	55.2	43.1	51.3	44.8	42.7	62.5	57.7	54.9	43.8	44.2
5	41.7	....	46.9	50.9	41.0	54.7	42.7	63.1	34.6	45.7	53.9	53.8

Ec 11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	54.2	45.4	53.4	53.6	49.0	e52.3	43.4	63.2	52.7	54.5	46.9	55.0
7	49.3	47.8	52.1	33.8	49.5	....	43.6	60.7	57.0	53.6	50.6	29.7
8	53.9	53.7	....	49.8	49.1	40.0	40.5	50.8	42.1	e48.8	54.8	44.4
9	52.2	54.5	52.9	46.8	41.5	51.7	39.6	62.8	52.4	28.9	51.3	e46.8
10	54.0	41.3	53.0	41.5	53.2	46.1	....	e49.7	52.7	23.2	34.4	53.1
11	49.0	53.9	51.6	51.8	50.2	....	42.0	62.1	51.4	47.6	e50.0	52.5
12	51.6	....	48.9	42.6	54.6	53.7	47.1	48.1	51.6	57.6	53.1	49.4
13	55.5	....	54.2	48.5	32.3	55.3	48.2	58.5	32.9	43.1	28.4	51.3
14	40.7	....	47.3	46.0	e50.4	....	30.5	42.5	49.0	....	43.8	54.4
15	....	56.1	50.7	38.6	e48.8	49.8	47.0	61.7	49.6	40.8	53.2	34.8
16	53.0	55.3	54.2	44.3	e48.9	35.7	42.8	e53.5	52.2	49.8	53.8	53.0
17	....	48.3	53.3	48.5	53.5	53.3	51.1	60.1	40.4	49.2	29.3	31.8
18	....	54.6	52.4	34.2	46.7	42.0	56.4	53.7	....	47.5	36.6	53.0
19	55.7	49.4	49.1	49.7	56.1	52.4	....	62.7	34.9	34.1	....	36.4
20	48.4	53.0	51.5	34.1	56.2	33.0	50.5	40.5	53.2	41.3	53.6	53.4
21	43.1	....	48.7	50.4	53.2	45.0	....	e51.5	43.1	....	32.3	53.2
22	50.7	....	48.5	38.4	49.0	45.6	58.8	60.2	54.0	49.5	52.3	53.4
23	....	....	52.9	48.8	e52.4	46.2	36.0	45.8	35.4	45.6	53.4	31.0
24	51.1	....	54.2	38.8	46.0	44.9	57.1	54.4	54.5	52.6	53.0	39.1
25	42.3	....	50.4	50.7	e52.9	45.8	34.5	50.8	54.7	36.9	41.9	40.0
26	55.2	40.5	51.4	50.6	48.2	45.5	54.7	52.5	52.9	....	51.6	38.2
27	55.2	53.0	50.4	47.0	57.7	45.3	59.5	50.4	40.4	50.1	49.9	37.6
28	....	54.2	50.9	52.3	42.1	46.3	35.3	55.6	52.4	e48.9	....	38.1
29	36.3	....	49.4	39.8	54.0	45.0	47.5	59.1	43.0	48.0	38.5	41.2
30	46.1	....	51.4	47.7	55.7	46.4	57.8	60.3	e50.2	49.1	46.3	45.8
31	53.7	....	54.5	....	43.9	....	39.2	57.6	....	39.0	....	47.0

e Estimated.

Gc 5. State Highway Department. Lat. 39°21', long. 75°38'. Near Blackbird. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 10 feet. Land-surface datum is about 40 feet above msl. Highest water level 0.12 below lsd, May 1, 1952; lowest 3.91 below lsd, July 29, 1954. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	1.18	Apr. 1	1.58	June 30	2.22	Oct. 3	2.16
31	2.43	May 3	2.09	July 28	3.36	28	2.42
Feb. 28	1.15	June 1	2.83	Aug. 30	1.57	Nov. 30	2.53

Sussex County

Mf 3. State Highway Department. Lat. 38°53', long. 75°23'. Near Milford. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 27 feet. Land-surface datum is about 40 feet above msl. Highest water level 13.45 below lsd, June 2, 1952; lowest 20.87 below lsd, Dec. 1, 1950. Records available: 1950-55. Jan. 3, 18.63; Jan. 31, 18.56; Feb. 28, 18.84; Apr. 1, 18.01; May 2, 15.36; May 31, 17.26.

Nc 6. P. H. Cannon. Lat. 38°46', long. 75°35'. Near Greenwood. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 15 feet. Land-surface datum is about 43 feet above msl. Highest water level 6.67 below lsd, Jan. 30, 1952; lowest 9.85 below lsd, June 30, 1955. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	8.47	Apr. 1	8.40	June 30	9.85	Sept. 30	9.05
31	9.03	May 2	8.41	July 28	9.59	Oct. 28	9.19
Feb. 28	8.58	31	9.09	Aug. 30	8.02	Nov. 30	9.02

Ne 1. State Highway Department. Lat. 38°47', long. 75°26'. Ellendale Swamp. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 14 feet. Land-surface datum is about 50 feet above msl. Highest water level 1.13 below lsd, Apr. 29, 1952; lowest 6.23 below lsd, Oct. 31, 1950. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	2.05	Apr. 1	2.08	July 1	3.37	Sept. 30	2.71
31	2.74	May 2	1.79	29	5.56	Oct. 28	2.65
Feb. 28	1.69	31	3.13	Aug. 31	3.33	Dec. 2	2.33

Ni 3. City of Lewes. Lat. 38°45', long. 75°09'. Drilled observation artesian well in sand of Pleistocene age, diameter 6 inches, depth 84 feet. Land-surface datum is about 20 feet above msl. Highest water level 13.94 below lsd, May 1, 1953; lowest 21.74 below lsd, Sept. 25, 1947. Records available: 1947-48, 1950-55.

Ni 3--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.46	17.64	17.55	19.72	19.65	.....	19.26	18.81	18.96	18.35
2	18.40	17.82	17.79	19.73	19.00	.....	18.52	17.94	18.17	17.86
3	17.06	18.65	18.14	19.85	18.73	.....	18.27	18.65	18.25	18.21
4	18.62	18.05	17.86	19.58	18.83	.....	18.37	.....	18.35	17.81
5	16.82	17.63	18.31	17.35	19.16	.....	18.45	.....	17.85	18.15
6	18.15	17.49	18.37	19.20	19.65	19.38	18.91	.....	17.93	17.92
7	17.63	17.57	18.52	19.40	19.24	19.24	19.18	.....	17.86	17.82
8	17.89	17.82	16.04	20.00	19.41	18.66	19.24	.....	17.65	17.86
9	18.60	17.76	18.43	20.07	19.51	19.11	18.87	.....	17.77	17.92
10	18.44	17.79	17.80	19.00	19.09	18.16	19.04	.....	17.22	18.00
11	18.26	17.06	18.50	18.40	18.99	19.17	17.49	.....	17.72	17.84
12	18.06	18.04	18.62	18.27	19.70	19.23	18.35	.....	.....	17.31
13	17.91	18.00	18.58	18.37	19.23	17.21	18.57	.....	.....	.....
14	17.94	17.93	18.21	18.74	19.85	18.24	18.42	.....	.....	.....
15	17.76	17.85	18.13	19.06	20.16	18.49	18.80	.....	.....	.....
16	17.99	17.96	18.00	18.92	20.12	18.25	18.70	.....	.....	.....
17	18.54	17.97	18.41	19.30	18.63	.....	19.14	.....	.....	.....
18	17.86	18.80	18.01	19.32	18.34	.....	18.41	.....	.....	.....
19	18.02	18.07	18.00	18.80	18.87	.....	18.55	.....	.....	.....
20	17.90	18.60	18.18	19.23	18.98	.....	17.95	.....	.....	17.84
21	17.98	17.87	18.53	18.95	19.10	.....	18.45	18.66	.....	18.06
22	18.16	17.85	18.07	19.27	.....	.....	18.78	18.62	17.68	18.03
23	17.85	18.08	18.65	19.16	18.93	.....	18.75	17.85	18.03	18.05
24	17.87	17.82	18.85	19.53	18.82	.....	18.77	18.58	17.78	17.98
25	16.72	17.63	17.85	18.97	19.30	19.22	.....	17.37	18.54	17.76	17.80
26	18.00	17.87	17.83	19.00	18.45	19.82	.....	18.65	18.52	18.10	18.07
27	18.14	17.88	17.70	19.12	19.03	19.69	.....	18.64	18.56	17.86	.....
28	18.52	17.87	17.54	19.02	19.59	19.41	.....	18.69	18.59	18.19	.....
29	18.75	18.49	18.37	19.52	19.16	.....	18.77	18.92	17.78	.....
30	19.09	17.68	18.96	19.09	19.20	.....	19.12	18.01	18.35	18.37
31	17.61	.....	19.25	.....	19.13	.....	.....	18.64	.....	18.28

Pg 4. State Highway Department. Lat. 38°36', long. 75°19'. Near Millsboro. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 22 feet. Land-surface datum is about 30 feet above msl. Highest water level 13.44 below lsd, May 1, 1953; lowest 16.65 below lsd, Nov. 30, 1950. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	15.07	May 2	15.02	July 29	14.83	Oct. 28	13.92
Feb. 28	15.06	31	14.97	Aug. 31	14.73	Dec. 2	13.93
Apr. 1	15.06	July 1	14.87	Sept. 30	13.95		

Qc 4. State Highway Department. Lat. 38°33', long. 75°36'. Near Laurel. Driven observation water-table well in sand of Pleistocene age, diameter 1 inch, depth 8 feet. Land-surface datum is about 15 feet above msl. Highest water level 0.19 below lsd, Apr. 1, 1952; lowest 3.04 below lsd, Oct. 2, 1951. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	2.80	May 2	2.13	July 28	2.44	Oct. 28	1.72
Feb. 28	2.64	31	2.32	Aug. 30	1.19	Nov. 30	1.94
Apr. 1	2.07	June 30	2.22	Sept. 30	1.57		

INDIANA

By Frank A. Watkins, Jr.

Scope of Water-Level Program

The observation-well program was continued in 1955 in cooperation with the Indiana Department of Conservation, Division of Water Resources. Begun in 1935 as part of the statewide study of the ground-water resources of Indiana, the program is used to evaluate water-level trends and storage changes in ground-water reservoirs. In 1955, water levels were measured in 160 wells: 1 was measured daily, 3 bimonthly, 2 monthly, and 112 weekly; the other 42 were recorded on gages. Figure 7 shows the location of 32 representative wells, whose records are included in this report.

Reports on ground-water investigations were completed for Adams and Tippecanoe Counties and for a 9-county area in southeastern Indiana. Investigations are in progress on two 10-county areas, one in northwestern and the other in west-central Indiana.

Precipitation and Temperature

Precipitation for the State, as reported by the U. S. Weather Bureau, was 41.36 inches, 2.15 inches above normal. In the northern division, the accumulated departure was 0.91 inch above normal, the excess precipitation falling mainly from July through November. In the central division, the accumulated departure was 2.55 inches above normal, the excess being in the same period as in the north. In the southern division, the accumulated departure from average was 3.16 inches above normal. The excess was more evenly distributed, 4 months having above-normal precipitation in the first half of 1955 and 4 months in the second half. The precipitation in December was below normal throughout the State.

Temperatures were slightly above normal throughout the State. Above-normal temperatures were recorded in the three divisions for the periods from February through May and from July through September.

Interpretation of Water-Level Fluctuations

The general downward trend of water levels that began about 1950 throughout most of Indiana was reversed in 1955 by the first above-normal precipitation in 4 years. In southern Indiana, many wells had below-average water levels throughout 1955, even though above-normal precipitation was recorded for 8 months. The water levels in the northern and central parts of the State were generally below average during the first half of the year. During the second half, many water levels were back to or slightly above average because of above-normal precipitation. Conditions in the central part of the State were much the same as those in the northern part. Seasonal reversals of water levels occurred earlier in 1955 than in 1954. New lows of record were observed in 18 wells, 11 percent of the total 160 wells as compared to 63 wells out of 146 or 43 percent for 1954. The year-end water levels were higher in 1955 than in 1954 in 68 percent of the wells for which comparable records are available. About 12 percent of the 50 wells measured in northern Indiana reported new lows as compared to 38 percent for 1954. In the central part, 12 percent of 68 wells recorded new lows as compared to 40 percent recorded for 1954. Of the 42 wells in the southern part, 7 percent recorded new lows in 1955 as compared to 54 percent in 1954. Figure 8 shows the fluctuation of water level in three representative shallow wells. The water levels are affected only by natural conditions. Well Steuben 1 is in the northern division, Montgomery 1 in the central division, and Clark 1 in the southern division.

Figure 9 shows the fluctuation of water level in two wells in the downtown Indianapolis area. Although the seasonal high in the first half of 1955 was not as high as that of 1954, the year-end levels were several feet higher because of above-normal precipitation during the last part of 1955.

Well-Numbering System

Observation wells are designated by a letter symbol corresponding to the county name in which the well is situated, followed by a number for successive wells. For example, Ma 10 is observation well 10 in Marion County.

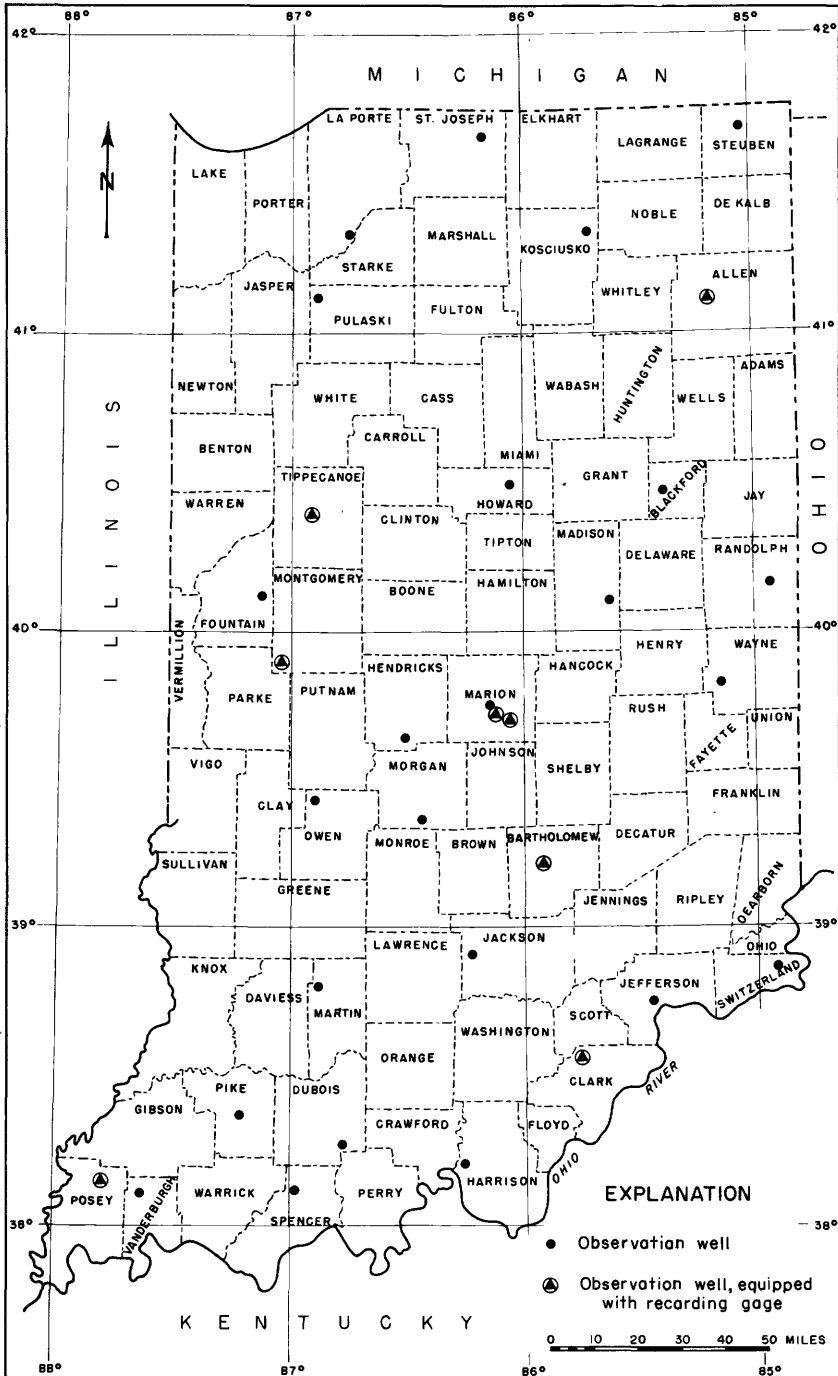


Figure 7. --Location of observation wells in Indiana, 1955.

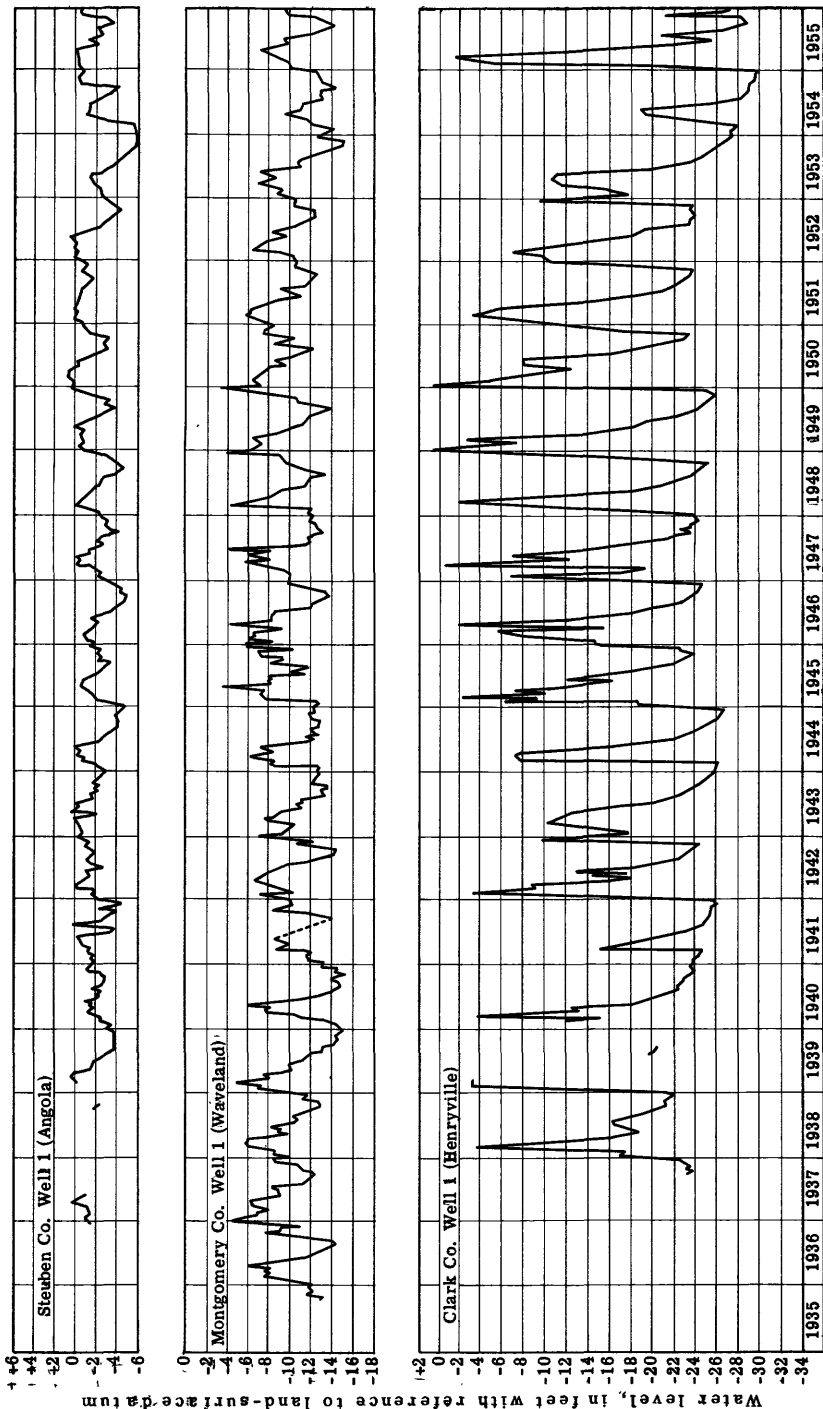


Figure 8. --Water levels in wells Steuben 1, Montgomery 1, and Clark 1, Indiana.

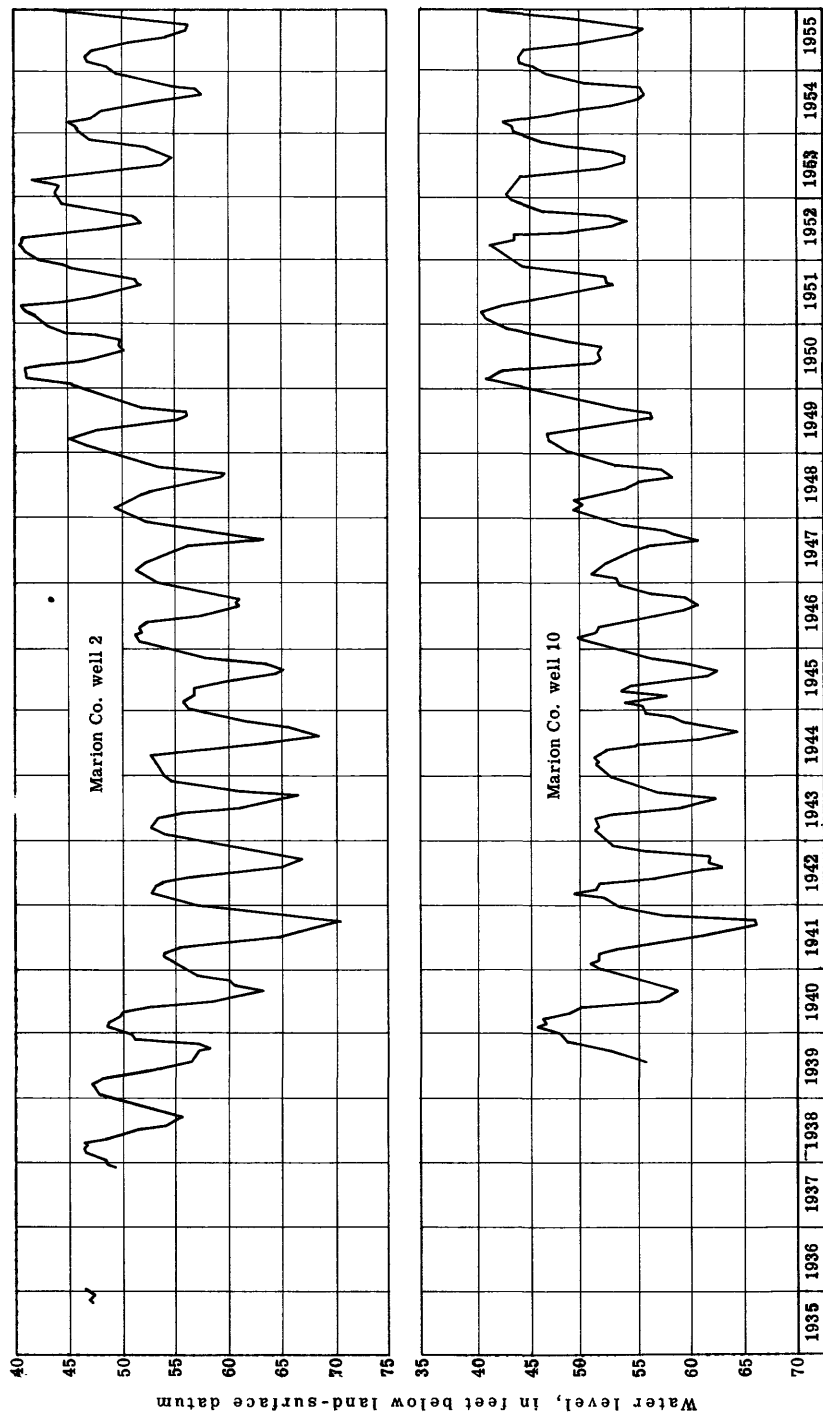


Figure 9. --Water levels in wells Marion 2 and 10 in downtown area, Indianapolis, Ind.

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 before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference.

Allen County

A1 3. City of Fort Wayne. Lawton Park, Clinton and East Fourth Sts. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T. 13 N., R. 12 E. Drilled unused artesian well in limestone, diameter 8 inches, reported depth 400 feet. Highest water level 4.62 below lsd, Apr. 8, 1950; lowest 12.72 below lsd, Sept. 6, 1946. Records available: 1944-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.27	9.07	9.04	8.18	....	9.71	10.26	10.48	10.98	11.63	11.05	9.97
2	9.20	9.14	8.93	8.17	....	9.70	10.30	10.46	11.01	11.62	11.05	....
3	9.19	9.22	8.87	8.19	....	9.74	10.34	10.51	11.03	11.61	10.65	9.91
4	9.11	9.26	8.50	8.24	....	9.76	10.37	10.54	11.04	11.59	10.58	9.87
5	9.06	9.22	8.09	8.28	....	9.76	10.38	10.58	11.06	11.59	10.55	9.93
6	....	9.23	7.68	8.29	8.84	9.75	10.41	10.60	11.08	11.48	10.50	9.95
7	8.80	9.26	7.44	8.33	8.87	9.75	10.44	10.50	11.10	11.26	10.49	9.94
8	8.65	9.30	7.47	8.40	8.92	9.75	10.47	10.49	11.14	11.09	10.48	9.96
9	8.53	9.32	7.47	8.42	8.99	9.79	10.50	10.51	11.17	11.08	10.46	10.00
10	8.51	9.28	7.53	8.45	9.01	9.79	10.41	10.52	11.20	11.05	10.42	10.04
11	8.46	9.33	7.50	8.46	9.03	9.74	10.41	....	11.25	11.03	10.40	10.06
12	8.43	9.35	7.50	8.47	9.07	9.76	10.43	....	11.28	11.00	10.43	10.07
13	8.40	9.42	7.58	8.51	9.08	9.78	10.45	....	11.32	10.98	10.44	10.09
14	8.48	....	7.65	8.51	9.12	9.80	10.53	....	11.35	10.97	10.33	10.11
15	8.41	....	7.62	8.54	9.17	9.82	10.50	10.61	11.38	10.96	10.28	10.12
16	8.51	....	7.71	8.56	9.19	9.84	10.13	10.63	11.43	10.96	10.06	10.16
17	8.55	....	7.83	8.54	9.23	9.86	10.15	10.65	11.47	10.93	9.98	10.15
18	8.64	....	7.83	8.58	9.27	9.89	10.15	10.68	11.50	10.93	9.97	10.18
19	8.66	....	7.92	8.53	9.30	9.90	10.17	10.71	11.51	10.97	9.90	10.22
20	8.73	9.41	7.95	8.50	9.33	9.91	10.20	10.78	11.54	10.99	9.90	10.25
21	8.71	9.40	7.90	8.51	9.39	9.84	10.16	10.75	11.58	10.99	9.85	10.26
22	8.73	9.36	7.85	8.53	9.41	9.97	10.22	10.76	11.60	11.03	9.84	10.24
23	8.80	9.35	7.98	8.58	9.41	10.01	10.26	10.78	11.62	10.99	9.80	10.26
24	8.82	9.36	7.99	8.57	9.44	10.04	10.29	10.81	11.63	10.96	9.86	10.28
25	8.84	9.35	8.03	8.47	9.47	10.07	10.32	10.82	....	11.00	9.86	10.32
26	8.93	9.30	7.99	8.53	9.52	10.10	10.37	10.83	11.66	10.96	9.83	10.35
27	8.97	9.26	8.09	8.48	9.58	10.12	10.41	10.84	11.65	10.99	9.80	10.37
28	....	9.17	8.12	8.46	9.62	10.15	10.46	10.85	11.63	11.00	9.81	10.39
29	....	....	8.13	8.50	9.62	10.19	10.40	10.85	11.63	10.96	9.83	10.39
30	....	....	8.17	8.56	9.64	10.22	10.43	10.87	11.60	10.98	9.93	10.43
31	9.10	....	8.17	....	9.68	....	10.46	10.94	....	11.00	....	10.42

Bartholomew County

Ba 2. V. E. Sprouse Co., Inc. 1804 East 22d St., Columbus. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 9 N., R. 6 E. Drilled unused well in gravel, diameter 6 inches, depth 52 feet. Highest water level 9.49 below lsd, Feb. 18, 1950; lowest 21.45 below lsd, Dec. 26, 1954. Records available: 1948-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.87	17.83	17.78	18.13	19.87	19.96	19.51
2	17.85	17.82	17.79	18.14	19.90	20.45	19.95
3	17.85	17.81	17.80	18.18	19.93	20.42	19.97
4	17.85	17.82	17.82	18.20	19.95	20.37	19.94
5	17.85	17.83	17.81	18.22	19.99	20.34	19.91
6	17.88	17.84	17.80	18.23	20.01	20.31	19.89
7	17.88	17.83	17.81	18.24	20.02	20.28	19.88
8	17.90	17.81	17.84	18.26	20.05	20.25	19.86
9	17.92	17.82	17.85	18.27	20.07	20.22	19.85
10	17.90	17.83	17.86	18.28	20.10	20.18	19.83
11	17.91	17.82	17.85	18.30	20.13	20.15	19.81
12	17.93	17.83	17.84	18.32	20.15	20.10	19.82
13	17.92	17.85	17.84	18.34	20.16	20.07	19.83
14	17.92	17.83	17.85	18.36	....	20.04	19.82
15	17.94	17.82	17.85	18.39	....	20.02	19.81

Ba 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	17.93	17.84	17.88	18.40	20.21	20.01	19.80	19.46
17	17.91	17.85	17.90	.....	20.23	19.98	19.81	19.45
18	17.93	17.87	17.93	.....	20.25	19.97	19.79	19.46
19	17.94	17.86	17.94	19.47	20.27	19.96	19.76	19.49
20	17.90	17.95	17.85	17.95	19.50	20.29	19.96	19.74	19.48
21	17.90	17.97	17.83	17.97	19.52	20.31	19.96	19.71	19.47
22	20.00	18.66	17.90	17.98	17.83	17.98	19.55	20.34	19.96	19.68	19.46
23	17.89	17.98	17.84	18.00	19.59	20.36	19.95	19.65	19.45
24	17.87	17.94	17.83	18.02	19.62	20.38	19.94	19.65	19.47
25	20.54	.....	.....	17.87	17.92	17.82	18.03	19.64	20.40	19.94	19.62	19.49
26	17.87	17.90	17.82	18.04	19.68	20.42	19.93	19.60	19.50
27	17.87	17.89	17.81	18.05	19.71	20.42	19.94	19.57	19.49
28	17.86	17.89	.....	18.07	19.75	20.43	19.94	19.55	19.47
29	17.86	17.89	.....	18.08	19.78	20.44	19.93	19.52	19.45
30	17.86	17.87	17.79	18.09	19.80	20.44	19.96	19.52	19.48
31	18.12	19.84	.....	19.97	.....	19.48

Blackford County

Bf 1. John L. and Katherine Wise. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 24 N., R. 10 E. Dug unused well, diameter 4 feet, depth 18 feet, cribbed with brick. Land-surface datum is 921 feet above msl. Highest water level 0.69 below lsd, Feb. 9, 1952; lowest 9.37 below lsd, Jan. 16, 1954. Records available: 1945-55. On May 5, 1955, a 4-inch steel casing was set in this well to a depth of 18 feet. The well was backfilled with 2-inch gravel.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	5.70	Apr. 9	2.19	July 9	2.46	Oct. 8	2.41
8	3.25	16	1.89	16	1.60	15	4.32
15	3.08	23	2.04	23	3.61	22	4.29
22	2.96	30	1.76	30	3.53	29	3.80
29	3.02	May 7	1.89	Aug. 6	4.04	Nov. 5	3.38
Feb. 5	2.99	14	2.87	13	4.15	12	4.60
12	3.68	21	3.36	20	4.45	19	3.65
19	3.86	28	3.65	27	3.74	26	3.40
26	3.75	June 4	3.51	Sept. 3	4.24	Dec. 3	2.32
Mar. 5	2.85	11	1.51	10	5.04	10	4.29
12	2.06	18	3.29	17	4.38	17	5.28
19	1.91	25	3.84	25	4.64	24	5.08
26	1.27	July 2	4.30	Oct. 1	2.98	31	5.31
Apr. 2	1.65	.....	.....	.....	.....	.....	.....

Clark County

C1 1. State of Indiana. Clark County State Forest. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 2 N., R. 6 E. Dug unused well, diameter 4 feet, depth 35 feet, cribbed with stone. Highest water level 0.65 below lsd, Jan. 24, 1949, Jan. 14, 1951; lowest 30.00 below lsd, Dec. 26-27, 1954. Records available: 1936-55. On Oct. 7, 1955, an 8-inch steel casing was set in this well to a depth of 35 feet. The well was backfilled with 2-inch crushed rock. Measurement made by George B. Heilman.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.00	22.45	4.77	13.10	15.00	22.95	26.10	23.20	27.25	.....	.....	23.30
2	19.75	21.40	4.72	13.70	15.30	23.15	26.15	23.40	27.30	.....	.....	23.80
3	19.65	20.45	.....	14.30	15.65	23.30	26.25	23.62	27.40	.....	22.65	24.15
4	19.65	20.25	.....	14.90	15.95	23.45	26.30	23.80	27.45	.....	22.40	24.05
5	18.70	20.30	3.25	15.20	16.25	23.60	26.40	24.00	27.50	.....	22.75	23.90
6	17.90	18.15	1.90	15.50	16.65	23.75	26.45	24.20	27.55	.....	23.15	23.90
7	17.25	12.20	.....	15.85	.....	23.85	26.50	24.40	27.60	.....	23.60	24.05
8	17.20	11.00	.....	16.25	.....	23.95	26.55	24.55	27.70	25.30	.....	24.25
9	17.30	11.20	.....	16.65	.....	24.10	26.60	24.70	27.75	25.75	.....	24.50
10	17.50	11.45	.....	17.05	.....	24.20	26.65	24.90	27.80	26.05	24.80	24.90
11	17.75	11.60	.....	17.40	.....	24.25	26.70	25.05	27.85	26.35	25.20	25.25
12	18.00	11.60	.....	16.25	.....	24.35	26.75	25.25	27.90	26.60	25.50	25.60
13	18.25	12.25	.....	15.55	18.20	24.45	26.80	25.35	27.90	26.85	25.85	25.90
14	18.50	12.90	.....	14.60	18.55	24.55	26.90	25.50	28.00	27.00	26.15	26.20
15	18.70	13.50	.....	14.35	18.85	24.65	26.90	25.65	.....	27.20	25.65	26.40

CI 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	18.95	13.95	....	14.35	19.20	24.75	26.95	25.75	.....	27.30	24.00	26.75
17	19.15	.....	....	14.50	19.50	24.90	27.00	25.90	.....	27.45	22.95	27.00
18	19.40	.....	....	14.80	19.80	25.00	25.70	25.95	.....	27.55	22.75	27.25
19	19.65	.....	....	15.00	20.00	25.10	25.45	26.05	.....	27.70	22.90	27.50
20	19.95	.....	....	15.25	20.35	25.20	20.65	26.15	.....	27.85	23.15	27.80
21	20.20	.....	....	.....	20.60	25.30	20.35	26.25	28.75	28.00	23.25	28.05
22	20.45	.....	....	.....	20.85	25.40	20.50	26.35	28.75	28.10	23.30	28.15
23	20.60	.....	2.80	.....	21.10	25.45	20.75	26.45	28.75	28.25	23.40	28.25
24	20.75	6.77	4.75	.....	21.35	25.50	21.05	26.55	28.80	28.30	21.05	28.30
25	20.90	8.17	6.40	14.65	21.60	25.60	21.35	26.65	28.80	28.40	20.80	28.35
26	21.10	9.57	7.35	14.25	21.80	25.70	21.65	26.80	.....	.....	21.00	28.50
27	21.35	.87	7.95	14.00	22.00	25.75	21.95	26.90	29.40	28.50	21.35	28.55
28	21.50	2.62	8.75	14.05	22.20	25.85	22.25	26.95	29.40	28.55	21.75	28.60
29	21.75		9.50	14.30	22.40	25.95	22.50	27.05	.....	28.55	22.25	28.65
30	21.95		.....	14.65	22.60	26.05	22.75	27.10	.....	28.55	22.75	28.65
31	22.25		12.35		22.80		22.95	27.20		28.55		28.70

Dubois County

Du 2. State of Indiana. Ferdinand State Forest. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 3 S., R. 3 W. Drilled unused well in limestone, diameter 6 inches, depth 33 feet. Highest water level 4.51 below lsd, Feb. 22, 1950; lowest 18.45 below lsd, Nov. 13, 1944. Records available: 1936-37, 1942-55. Measurement made by Henry Huff.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	13.70	Apr. 11	14.20	July 11	14.85	Sept. 28	16.70
11	15.80	18	13.50	18	13.50	Oct. 10	16.00
17	15.84	25	10.70	26	14.75	17	16.80
24	16.07	May 2	12.80	Aug. 2	14.95	24	16.00
31	16.09	10	14.50	8	15.20	31	16.10
Feb. 8	15.60	17	11.80	16	15.45	Nov. 7	15.90
14	15.60	22	11.40	22	15.65	21	15.70
28	12.80	31	13.50	28	16.00	28	15.85
Mar. 14	15.65	June 6	14.40	Sept. 4	16.40	Dec. 5	15.85
21	10.80	13	13.95	12	16.75	19	16.05
28	14.50	20	13.90	19	16.85	27	16.10
Apr. 4	15.00	27	14.75				

Fountain County

Fo 1. Merchants & Farmers Telephone Co. Hillsboro. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 19 N., R. 7 W. Drilled unused well in rock, diameter 4 inches, depth 59 feet. Land-surface datum is 708 feet above msl. Highest water level 33.28 below lsd, Mar. 7, 1950; lowest 44.50 below lsd, Dec. 17, 1954. Records available: 1944-55.

Jan. 7	41.7	May 13	41.7	Aug. 12	42.0	Oct. 28	42.4
14	41.6	20	41.7	19	42.1	Nov. 4	42.3
21	41.5	27	40.7	26	42.1	11	42.2
28	41.5	June 3	41.7	Sept. 2	42.2	18	42.2
Mar. 11	42.5	10	41.7	9	42.3	25	42.2
18	42.4	17	42.2	16	42.55	Dec. 2	42.3
25	42.3	24	41.7	23	42.4	9	42.3
Apr. 1	42.3	July 15	40.7	30	42.5	16	42.3
22	42.45	22	40.7	Oct. 7	42.7	24	42.3
29	42.2	29	41.7	14	42.7	30	42.4
May 6	41.7	Aug. 5	41.9	21	42.3		

Harrison County

Hr 3. State of Indiana. Harrison County State Forest. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 4 S., R. 2 E. Dug unused well, diameter 5 feet, depth 25 feet, cribbed with stone. Highest water level 2.00 below lsd, Mar. 21, 1939; lowest 8.70 below lsd, Jan. 9, 1954. Records available: 1938-55. Measurement made by Max Parker.

Hr 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	7.80	Apr. 9	3.18	July 9	5.51	Oct. 8	7.46
8	3.11	16	2.94	16	5.61	15	7.53
15	2.97	23	2.39	23	6.05	22	7.60
22	2.85	30	3.11	30	6.20	29	7.65
29	3.42	May 7	3.80	Aug. 6	6.37	Nov. 5	7.66
Feb. 5	2.37	14	2.26	13	6.58	12	7.73
12	2.77	21	3.41	20	6.76	19	7.76
19	2.77	28	3.29	27	6.99	26	7.08
26	2.52	June 3	4.16	Sept. 3	7.19	Dec. 3	5.50
Mar. 5	2.72	11	4.86	10	7.32	10	3.24
12	2.92	18	3.99	17	7.46	17	3.61
19	2.87	25	4.86	24	7.52	24	3.66
26	2.94	July 2	5.30	Oct. 1	7.53	31	3.84
Apr. 2	3.24						

Hendricks County

Hd 1. Brocia A. and M. Smith. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 14 N., R. 1 W. Drilled unused well, diameter 4 inches, depth 46 feet. Land-surface datum is 842 feet above msl. Highest water level flowing at 0.30 above lsd, Apr. 17, 24, 1944; lowest 9.86 below lsd, Dec. 27, 1954. Records available: 1944-55.

Jan. 3	9.03	Apr. 4	3.44	July 4	4.64	Oct. 3	5.28
10	7.72	11	3.22	11	4.85	10	2.98
17	5.95	18	3.06	18	4.87	17	2.87
24	6.07	25	.83	25	4.85	24	3.52
31	6.25	May 2	1.53	Aug. 3	5.25	31	3.83
Feb. 7	6.35	9	2.24	8	5.36	Nov. 7	2.42
14	6.45	17	2.84	15	5.64	14	2.74
21	6.15	23	3.17	22	5.88	22	.90
28	5.30	30	3.02	29	6.21	28	1.20
Mar. 7	3.45	June 6	3.19	Sept. 5	6.46	Dec. 5	1.28
14	3.43	13	3.50	12	6.67	12	1.87
21	2.70	20	3.88	19	6.85	19	2.60
28	2.51	27	4.30	26	6.67	26	3.13

Howard County

Ho 4. Howard L. and Earl M. Shenk. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 24 N., R. 4 E. Dug unused well, diameter 42 inches, depth 19 feet. Land-surface datum is 835 feet above msl. Highest water level 0.96 below lsd, Apr. 10, 1948; lowest dry, Jan. 30-July 3, July 17, Sept. 4-Dec. 24, 1954, Jan. 1, 1955. Records available: 1945-55.

Jan. 1	(f)	Apr. 9	4.35	July 9	7.15	Oct. 8	8.32
8	16.10	16	4.57	16	6.69	15	6.19
15	13.97	23	4.64	23	5.70	22	6.63
22	13.54	30	3.72	30	5.17	29	6.75
29	12.67	May 7	4.36	Aug. 6	5.59	Nov. 5	6.01
Feb. 5	12.44	14	5.06	13	6.08	12	4.98
12	11.67	21	5.94	20	6.61	19	3.81
19	10.94	25	6.24	27	7.17	26	3.39
26	10.05	June 4	6.89	Sept. 3	7.62	Dec. 3	3.82
Mar. 5	6.25	11	7.02	10	8.27	10	3.58
12	5.53	18	6.55	17	10.25	17	4.50
19	5.47	25	6.57	24	10.70	24	5.25
26	4.81	July 2	6.75	Oct. 1	11.03	31	5.66
Apr. 2	4.05						

f Dry.

Jackson County

Jk 2. Ralph Fish. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 6 N., R. 2 E. Drilled unused well in rock, diameter 6 inches, depth 93 feet. Land-surface datum is 884 feet above msl. Highest water level 10.18 below lsd, Apr. 23, 1951; lowest 22.21 below lsd, Jan. 25, 1954. Records available: 1944-55.

Jk 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	21.66	Apr. 4	13.70	July 4	14.62	Oct. 3	18.40
10	20.40	11	13.28	11	14.71	9	18.42
17	19.32	18	13.15	18	15.00	17	18.36
24	18.26	25	12.50	25	15.08	24	18.32
31	18.25	May 2	12.50	Aug. 1	15.53	31	18.55
Feb. 7	17.61	9	13.00	8	15.77	Nov. 7	18.60
14	17.30	16	13.05	15	16.10	14	18.64
21	16.74	23	13.19	22	16.12	20	18.60
28	15.70	30	13.17	29	16.66	28	16.20
Mar. 7	15.60	June 6	13.25	Sept. 5	17.10	Dec. 5	15.45
14	14.72	13	13.51	12	17.49	12	15.18
21	14.20	20	13.80	19	18.00	18	14.62
28	14.13	27	14.10	25	18.16	26	14.84

Jefferson County

Jf 2. State of Indiana. Clifty Falls State Park. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 4 N., R. 10 E. Drilled unused well in limestone, diameter 6 inches, depth 69 feet. Land-surface datum is 810 feet above msl. Highest water level 15.33 below lsd, Apr. 1, 1946; lowest 32.5 below lsd, Aug. 16, 1943. Records available: 1937-55.

Jan. 5	28.50	Apr. 6	27.18	Sept. 21	28.09	Nov. 7	27.61
Feb. 1	28.29	19	27.06	26	28.13	14	27.64
8	28.06	May 24	26.98	Oct. 3	28.09	21	27.38
22	27.60	June 28	27.09	10	27.87	28	27.36
Mar. 2	27.74	Aug. 11	27.50	17	27.61	Dec. 5	27.37
8	27.51	19	27.49	24	27.85	12	27.40
16	27.53	29	27.58	31	27.82	19	27.60
23	27.52						

Kosciusko County

Ko 2. State of Indiana. Wawasee State Fish Hatchery. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 34 N., R. 7 E. Driven unused artesian well in glacial drift, diameter 1 $\frac{1}{2}$ inches, reported depth 87 feet. Land-surface datum is 865 feet above msl. Highest water level 3.25 above lsd, May 1, 1944; lowest 1.05 above lsd, Jan. 2, 1954. Records available: 1938-39, 1942-55. Measurement made by C. R. Silvens.

Jan. 1	+2.08	Apr. 9	+2.33	July 9	+2.08	Oct. 8	+1.71
8	2.13	16	2.33	16	2.17	15	1.81
15	2.38	23	2.38	23	2.17	22	1.71
22	2.38	30	2.25	30	2.00	29	2.00
29	2.29	May 7	2.46	Aug. 6	2.04	Nov. 5	1.83
Feb. 5	2.08	14	2.38	13	1.92	12	1.85
12	2.21	21	2.31	20	1.83	19	1.87
19	2.19	28	2.25	27	1.71	26	1.83
26	2.21	June 4	2.27	Sept. 3	1.75	Dec. 3	1.92
Mar. 5	2.21	11	2.42	10	1.75	10	1.75
12	2.42	18	2.17	17	1.65	17	1.83
19	2.33	25	2.13	24	1.63	24	1.83
26	2.25	July 2	2.04	Oct. 1	1.60	31	1.87
Apr. 2	2.33						

La Porte County

Lp 2. State of Indiana. Kankakee State Game Preserve. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 33 N., R. 3 W. Drilled unused well in sand and gravel, diameter 6 inches, reported depth 115 feet. Land-surface datum is 671 feet above msl. Highest water level 0.34 below lsd, Apr. 8, 1950; lowest 7.52 below lsd, July 25, 1955. Records available: 1942-55. Measurement made by Herbert Busse.

Lp 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.50	Mar. 28	3.52	June 20	4.68	Oct. 3	6.68
10	2.60	Apr. 4	3.56	July 18	5.52	10	5.93
16	2.90	11	3.96	25	7.52	17	5.75
24	3.52	18	4.14	Aug. 1	6.04	24	5.56
31	3.68	25	3.90	8	6.10	31	5.60
Feb. 7	3.90	May 2	4.00	15	6.32	Nov. 14	5.30
14	4.15	9	4.42	22	6.45	21	5.45
21	4.08	16	4.70	29	6.60	28	5.35
28	3.48	23	4.95	Sept. 5	6.38	Dec. 5	5.32
Mar. 7	3.18	30	4.90	12	6.53	12	5.24
14	3.38	June 6	5.10	19	6.61	19	5.22
21	3.64	13	4.55	26	6.52	26	5.23

Madison County

Md 7. State of Indiana. Mounds State Park. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 19 N., R. 8 E. Driven unused well, diameter 1 $\frac{1}{2}$ inches, depth 19 feet. Highest water level flowing several times, 1948, 1950-52; lowest 13.9 below lsd, Aug. 7, 1946. Records available: 1935-36, 1938-55. Measurement made by Harry N. Stephens.

Jan. 3	8.18	Mar. 29	8.48	June 27	4.45	Sept. 26	6.39
10	8.44	Apr. 4	8.08	July 5	4.48	Oct. 3	6.40
17	8.45	11	8.03	11	4.50	10	6.34
24	8.46	18	8.04	18	5.41	17	6.42
Feb. 1	8.16	25	8.02	25	4.50	24	6.58
7	8.14	May 1	7.95	Aug. 1	4.50	31	6.57
14	8.14	8	7.95	8	5.41	Nov. 7	6.26
21	8.13	16	7.94	15	5.41	14	6.52
28	8.07	23	7.94	22	5.42	21	5.68
Mar. 1	8.07	31	7.93	29	5.43	28	5.48
7	8.07	June 6	4.43	Sept. 5	8.14	Dec. 5	5.50
14	8.08	13	4.41	12	6.04	19	5.47
21	8.47	20	4.41	19	6.27	27	5.47

Marion County

Ma 2. Indiana National Bank. 130 East Washington, Indianapolis. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 15 N., R. 3 E. Drilled unused well in gravel, diameter 8 inches, depth 90 feet. Land-surface datum is 712.27 feet above msl. Highest water level 40.43 below lsd, Apr. 18, 1950; lowest 70.55 below lsd, Sept. 21, 1941. Records available: 1935-55. Nearby well being pumped.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.30	47.89	46.78	46.24	47.35	49.63	51.45	55.33	56.77	55.90	51.47	48.20
2	49.24	47.83	46.87	46.33	47.33	49.51	51.70	55.30	56.80	55.84	51.30	48.03
3	49.20	47.92	46.89	46.41	47.27	49.69	51.96	55.31	56.78	55.70	.....	47.93
4	49.11	47.92	46.89	46.47	47.41	49.91	52.05	55.42	56.82	55.52	.....	47.87
5	49.07	47.78	47.11	46.38	47.73	50.10	51.93	55.57	56.79	55.37	.....	47.87
6	49.06	47.69	47.20	46.35	48.04	50.18	51.90	55.73	56.60	55.32	50.71	47.76
7	49.15	47.63	47.12	46.38	48.26	50.15	52.07	55.86	56.46	55.40	.....	47.61
8	49.10	47.61	47.03	46.40	48.33	50.06	52.28	55.88	56.42	55.47	50.41	47.50
9	49.01	47.55	46.88	46.33	48.25	50.05	52.54	55.80	56.33	55.35	50.26	47.45
10	48.98	47.50	46.84	46.29	48.02	50.12	52.76	55.74	56.40	55.11	50.09	47.41
11	48.91	47.54	46.82	46.33	47.91	50.10	52.83	55.80	56.51	54.84	49.94	47.31
12	48.86	47.55	47.00	46.41	47.86	49.95	52.84	55.94	56.48	54.63	49.86	47.17
13	48.79	47.55	47.09	46.61	47.83	49.77	52.85	56.12	56.22	54.50	49.82	47.03
14	48.79	47.40	47.09	46.69	47.93	.....	52.98	56.24	55.93	54.35	49.76	46.92
15	48.70	47.29	46.91	46.81	48.07	.....	53.17	56.22	55.83	54.19	49.65	46.83
16	48.69	47.22	46.86	46.90	47.99	.....	53.42	56.13	55.97	54.01	49.56	46.77
17	48.63	47.24	46.95	46.90	47.87	.....	53.66	56.05	56.18	53.76	49.63	46.60
18	48.61	47.26	46.81	46.91	47.86	49.58	53.77	56.09	56.35	53.52	49.58	46.50
19	48.54	47.18	46.75	46.77	48.02	49.76	53.79	56.23	56.38	53.30	49.43	46.46
20	48.55	47.15	46.67	46.86	48.20	49.80	53.82	56.40	56.34	53.09	49.33	46.37
21	48.47	47.16	46.50	46.98	48.53	49.99	53.95	56.54	56.31	52.87	49.16	46.21
22	48.39	47.11	46.38	47.15	48.77	.....	54.13	56.55	56.34	52.75	49.02	46.06
23	48.38	47.07	46.63	47.28	48.86	.....	54.34	56.51	56.47	52.60	48.93	45.89
24	48.32	47.10	46.76	47.33	49.11	.....	54.53	56.45	56.51	52.45	49.02	45.83
25	48.24	47.06	46.84	47.26	49.35	51.02	54.59	56.49	56.54	52.26	48.92	45.87

Ma 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	48.26	47.00	46.73	47.19	49.49	51.20	54.57	56.57	56.41	52.05	48.79	45.97
27	48.23	46.92	46.71	47.08	49.66	51.16	54.57	56.69	56.15	51.91	48.64	45.80
28	48.15	46.88	46.56	47.04	49.97	51.12	54.69	56.82	55.96	51.82	48.51	45.66
29	48.11		46.40	47.15	50.25	51.12	54.88	56.86	55.86	51.79	48.38	45.51
30	48.06		46.34	47.29	50.25	51.25	55.22	56.81	55.82	51.74	48.31	45.46
31	48.03		46.26		49.98		55.30	56.76		51.50		45.36

Ma 10. Federal Building. Meridian and Ohio Sts., Indianapolis. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 15N., R. 3 E. Drilled unused artesian well in limestone, diameter 8 inches, reported depth 304 feet. Land-surface datum is 717.51 feet above msl. Highest water level 45.46 below lsd, Apr. 16, 1951; lowest 70.78 below lsd, Aug. 29, 1941. Records available: 1939-55. Nearby well being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	51.43	Apr. 4	48.78	July 5	57.09	Oct. 3	56.84
10	51.25	11	48.75	11	58.09	10	56.29
17	51.02	18	51.13	18	58.97	17	55.12
24	50.65	25	49.63	25	59.70	24	54.02
31	50.34	May 2	49.80	Aug. 1	60.26	31	53.30
Feb. 7	50.15	9	50.63	8	60.36	Nov. 7	52.40
14	49.88	16	50.48	15	60.77	14	51.66
21	49.70	23	53.59	22	61.09	21	51.07
28	49.33	27	54.55	29	61.22	28	50.36
Mar. 7	49.56	June 3	55.42	Sept. 2	61.57	Dec. 5	49.80
11	49.56	10	52.26	6	60.83	12	49.18
18	49.77	17	55.41	13	58.20	19	49.65
23	49.38	24	56.52	19	60.64	23	48.16
28	48.91	30	57.05	26	57.50	30	47.87

Ma 28. Manuel W. Rabourn. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T. 14 N., R. 5 E. Dug unused well in glacial drift, diameter 42 inches, depth 24 feet, cribbed with brick. Land-surface datum is 819 feet above msl. Highest water level 1.29 below lsd, Jan. 27, 1950; lowest 17.06 below lsd, Oct. 11, 1954. Records available: 1947-55.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.45	11.75	....	8.17	7.74	9.66	9.01	9.94	11.47	....	10.29	4.75
2	15.22	11.73	....	8.18	7.80	....	9.02	9.99	11.52	....	10.31	4.90
3	15.04	11.73	9.25	8.20	7.85	9.72	9.04	10.04	11.57	12.53	9.72	4.94
4	14.80	11.74	9.13	8.25	7.93	9.75	9.07	....	11.63	12.50	9.36	4.84
5	....	11.76	8.61	8.33	8.00	9.78	9.11	10.13	11.68	12.47	9.16	4.77
6	....	11.75	8.33	8.40	8.09	9.81	9.14	10.18	11.73	12.38	9.00	4.76
7	13.69	11.73	8.22	....	8.18	9.76	....	10.22	11.78	11.80	8.89	4.77
8	13.39	11.69	8.21	....	8.27	9.74	....	10.26	11.84	11.26	8.82	....
9	13.13	11.67	8.22	....	8.38	9.74	....	10.31	11.89	11.08	8.77	4.88
10	12.90	11.65	8.25	8.79	8.48	9.72	....	10.35	11.94	10.94	8.73	4.99
11	12.72	11.63	8.26	8.89	8.56	9.69	....	10.39	12.00	10.82	8.69	5.01
12	12.56	11.62	8.26	8.91	8.66	9.61	....	10.44	12.06	10.71	8.67	5.25
13	....	11.62	8.28	8.94	8.75	9.51	....	10.49	12.11	....	8.67	5.38
14	....	11.62	8.36	8.75	8.74	9.41	9.48	10.54	12.16	....	8.65	5.50
15	....	11.61	8.42	8.62	8.82	9.35	9.50	10.59	12.21	....	8.60	....
16	12.13	....	8.49	8.54	8.89	9.30	9.48	10.64	12.26	....	6.44	....
17	12.06	11.52	....	8.48	8.95	9.26	9.49	10.69	12.31	....	4.74	....
18	12.01	11.50	8.66	8.47	9.02	9.23	9.49	10.78	12.36	....	4.79	....
19	11.96	11.47	8.75	8.46	9.08	9.22	9.50	10.83	12.42	....	4.85	....
20	11.92	11.43	8.81	8.37	9.13	9.21	9.52	10.88	12.46	....	4.92	....
21	11.89	11.33	8.71	8.29	9.20	9.21	9.54	10.94	12.51	....	4.93	....
22	11.84	11.21	8.33	8.23	9.25	9.20	9.56	10.99	12.54	10.31	4.69	6.59
23	11.81	11.11	8.10	8.19	9.30	9.21	9.58	11.03	12.58	10.30	4.49	6.68
24	11.79	11.04	8.03	8.16	9.36	9.22	9.60	11.09	12.54	10.28	....	6.78
25	11.77	10.95	8.01	7.98	9.41	9.23	9.63	....	12.58	10.27	4.11	6.86
26	11.76	10.86	8.00	....	9.48	9.14	9.66	11.15	12.61	10.27	4.14	6.99
27	11.75	....	8.03	....	9.53	9.08	9.70	11.21	12.65	10.27	4.21	7.11
28	11.75	....	8.09	7.67	9.59	9.05	9.75	11.26	....	10.27	4.31	7.23
29	11.75	....	8.12	7.66	9.58	9.03	9.79	11.32	....	10.26	4.44	....
30	11.75	....	8.15	7.69	9.60	....	9.84	11.36	....	10.26	4.59	....
31	11.75	....	8.16	....	9.63	....	9.88	11.41	....	10.27	....	....

Martin County

Mt 3. John Ketcham. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 4 N., R. 5 W. Dug unused well in rock, diameter 42 inches, depth 32 feet, cribbed with stone. Land-surface datum is 621 feet above msl. Highest water level 18.02 below lsd, June 2, 1947; lowest 24.27 below lsd, Dec. 26, 1954. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	23.95	Apr. 3	20.38	July 3	21.72	Oct. 2	22.53
9	23.79	10	20.84	10	23.79	10	22.41
16	23.79	17	19.58	17	21.44	16	22.44
23	23.84	24	19.51	25	21.53	23	22.51
30	23.89	May 1	19.53	31	21.63	30	22.44
Feb. 6	23.92	8	20.01	Aug. 14	21.95	Nov. 6	22.54
13	23.94	15	20.38	21	22.03	13	22.58
21	23.96	22	20.77	28	22.24	20	22.46
27	23.46	29	20.89	Sept. 4	23.35	27	22.43
Mar. 3	22.34	June 5	21.26	11	22.36	Dec. 4	22.39
14	21.69	12	21.09	18	22.39	11	22.54
20	21.09	19	21.39	25	22.46	18	22.56
27	20.09	26	21.49				

Montgomery County

My 1. Byron Banta. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 17 N., R. 6 W. Dug unused well in glacial drift, diameter 36 inches, depth 18 feet, cribbed with brick. Land-surface datum is 765 feet above msl. Highest water level 3.37 below lsd, Jan. 4, 1950; lowest 15.45 below lsd, Nov. 16, 1940. Records available: 1935-55. On Aug. 25, 1955, an 8-inch steel casing was set in this well to a depth of 18 feet. The well was backfilled with crushed rock.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.53	10.54	7.60	8.20	8.15	8.38	10.76	12.28	13.50	13.04	12.23	9.61
2	9.66	10.56	7.43	8.20	8.26	8.56	10.87	12.33	.....	13.03	12.19	9.38
3	10.02	10.83	7.35	8.22	8.43	8.72	11.06	12.35	.....	13.07	11.40	9.38
4	9.95	10.95	7.26	8.43	8.61	8.88	11.20	12.40	.....	13.06	10.66	9.04
5	9.06	10.73	7.51	8.53	8.76	9.07	11.26	12.46	.....	13.01	10.40	.....
6	7.79	10.59	7.71	8.62	8.96	9.23	11.31	12.50	.....	12.02	10.24	.....
7	8.11	10.61	7.80	8.74	9.06	9.32	11.34	12.46	.....	11.25	10.51	.....
8	8.09	10.66	7.92	8.98	9.25	9.34	.....	12.55	.....	10.49	10.68	.....
9	8.11	10.57	7.95	9.06	9.52	8.81	.....	12.60	13.87	10.65	10.75	.....
10	8.58	10.43	8.08	9.11	9.56	8.52	.....	12.63	13.93	10.85	10.59	.....
11	8.73	10.46	8.05	9.08	9.70	8.20	.....	12.63	14.01	11.03	10.54	.....
12	8.85	10.49	8.30	8.95	9.79	7.96	.....	12.67	14.12	11.08	10.63	.....
13	8.94	10.68	8.47	8.69	9.78	7.84	11.86	12.70	14.16	11.25	10.98	.....
14	9.13	10.53	8.55	.....	9.83	7.87	11.89	12.76	14.10	11.36	11.02	.....
15	9.03	10.48	9.39	7.27	9.93	8.01	11.81	12.83	14.18	11.50	10.68	.....
16	9.30	10.37	8.52	7.27	9.97	8.18	11.63	12.84	14.24	11.65	9.81	9.44
17	9.43	10.35	8.84	7.32	10.04	8.37	11.54	12.84	14.29	11.62	9.36	9.33
18	9.66	10.33	8.60	7.52	10.18	8.60	11.59	12.89	14.36	11.73	9.37	9.48
19	9.67	10.20	8.79	7.53	10.21	8.81	11.66	12.98	14.38	11.94	9.11	9.83
20	9.92	10.17	8.78	7.64	10.31	9.01	11.73	13.04	14.38	12.08	9.36	9.95
21	9.81	9.86	8.57	7.68	10.43	.....	11.78	13.03	.....	12.04	9.18	9.87
22	9.74	9.52	.....	7.39	10.50	.....	11.82	13.05	.....	12.21	8.96	9.75
23	9.97	9.41	.....	7.36	10.35	9.67	11.85	13.06	14.45	12.13	8.82	9.68
24	10.05	9.44	.....	7.32	10.00	9.84	11.80	13.12	14.41	12.07	9.15	9.82
25	10.05	9.46	.....	7.41	9.77	9.98	11.78	.....	14.50	12.24	9.02	10.08
26	10.34	9.34	.....	7.50	9.41	10.15	11.84	13.16	14.55	12.04	8.96	10.34
27	10.45	8.88	.....	7.46	9.23	10.31	11.93	13.18	14.49	12.11	8.84	10.39
28	10.41	8.10	.....	7.52	9.34	10.46	11.99	13.19	14.32	12.10	9.06	10.38
29	10.50	.....	.....	7.73	.....	10.59	12.03	13.25	14.17	11.90	9.19	10.31
30	10.56	.....	.....	8.02	.....	10.67	12.08	13.19	13.44	12.09	9.53	10.50
31	10.72	.....	.....	.....	.....	.....	12.17	13.42	.....	12.17	.....	10.43

Morgan County

Mg 3. State of Indiana. Morgan-Monroe State Forest. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 11 N., R. 1 E. Drilled unused artesian well in rock, diameter 8 inches, depth 45 feet. Land-surface datum is 670 feet above msl. Highest water level 1.75 below lsd, Dec. 18, 1950; lowest 10.68 below lsd, Dec. 2, 1953. Records available: 1945-55. Measurement made by John Wright.

Mg 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.62	Mar. 18	5.60	June 10	6.43	Aug. 12	7.92
Feb. 4	5.33	25	5.41	17	6.43	Oct. 7	6.93
11	4.92	May 6	6.45	24	6.43	14	6.61
25	5.99	13	6.53	July 29	7.62	Dec. 16	6.71
Mar. 4	5.96	June 3	6.45	Aug. 5	7.86	23	6.70
11	5.63						

Owen County

Ow 5. David R. Bronson. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 12 N., R. 4 W. Dug unused well, diameter 26 inches, depth 19 feet, cribbed with stone. Highest water level 1.06 below lsd, Jan. 14, 1950; lowest 13.72 below lsd, Feb. 23, 1954. Records available: 1946-55. Measurement made by Stanley Heiliger.

Jan. 3	11.66	Mar. 15	2.16	May 11	3.96	Aug. 9	8.63
12	3.46	22	1.62	June 1	5.96	Sept. 21	10.21
18	3.71	29	1.72	14	2.56	Nov. 16	5.46
Feb. 16	5.46	Apr. 14	1.31	July 12	6.56	Dec. 2	2.96
Mar. 2	1.63	26	1.41	27	7.86	21	2.96
8	1.73	May 3	2.91	Aug. 3	8.31		

Pike County

Pi 1. A. J. Heuring. Lafayette and Main Sts., Winslow. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 1 S., R. 7 W. Dug and drilled unused well, diameter 36 to 6 inches, depth 25 feet. Land-surface datum is 468 feet above msl. Highest water level 3.25 below lsd, Mar. 20, 1951; lowest 13.55 below lsd, Dec. 15, 1954. Records available: 1936-55.

Jan. 1	13.22	Apr. 6	8.6	July 6	8.60	Oct. 5	10.78
12	12.86	13	8.65	13	8.29	12	10.15
19	12.50	20	8.36	20	8.80	19	9.6
26	12.29	27	8.12	27	8.45	26	9.75
Feb. 2	12.16	May 4	8.02	Aug. 3	8.75	Nov. 2	9.6
9	12.29	11	8.00	10	8.98	9	9.27
16	16.89	18	8.15	17	9.22	16	9.00
23	11.61	25	8.10	24	9.49	23	8.8
Mar. 2	10.9	June 1	8.20	31	9.85	30	8.6
9	11.2	8	8.35	Sept. 7	10.18	Dec. 7	8.38
16	10.6	15	8.13	14	10.56	14	8.57
23	8.9	22	8.29	21	10.78	21	8.29
30	8.7	29	8.30	28	10.85	28	8.30

Posey County

Py 2. Mary M. Wade. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 5 S., R. 12 W. Drilled unused well, diameter 6 inches, depth 236 feet. Highest water level 3.03 below lsd, June 4, 1952; lowest 14.95 below lsd, Nov. 30, 1954. Records available: 1947-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.85	.....	8.60	7.10	6.60	6.50	7.15	8.85	10.95	12.05	13.25
2	.....	12.80	.....	8.40	7.10	.....	6.55	7.15	8.95	11.05	12.00	12.85
3	.....	13.25	11.05	8.30	7.10	6.55	6.65	7.15	8.95	11.05	12.30	12.85
4	.....	13.25	10.80	8.40	7.05	6.50	6.65	7.25	9.00	11.00	12.45	12.85
5	.....	12.85	10.85	.....	.....	6.45	6.65	7.30	9.10	10.90	12.30	13.15
6	13.90	12.60	10.90	.....	.....	6.40	6.65	7.30	9.15	10.90	12.10	13.10
7	14.30	12.65	10.90	8.40	.....	6.30	6.65	7.30	9.10	10.95	12.30	12.85
8	14.05	12.65	10.70	8.55	.....	6.30	6.65	7.35	9.25	11.30	12.45	12.85
9	13.90	12.50	10.50	8.50	.....	6.30	6.65	7.35	9.35	11.40	12.45	.....
10	13.90	12.40	10.30	8.40	.....	6.30	6.65	7.40	9.45	11.35	.....	13.45
11	14.00	12.65	10.00	8.05	.....	6.20	6.70	7.45	9.55	11.30	.....	13.50
12	13.95	12.75	10.10	8.00	6.90	6.15	6.70	7.50	9.70	11.15	12.25	13.45
13	13.80	12.90	10.30	8.00	6.90	6.45	6.75	7.50	9.80	11.20	12.40	13.35
14	13.90	12.45	10.30	7.65	6.40	6.50	6.80	7.60	9.75	11.15	12.50	13.35
15	13.60	12.35	9.90	7.80	6.55	6.50	6.65	7.75	9.75	11.20	12.30	13.35

Py 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	13.70	12.05	9.95	7.85	6.50	....	6.65	7.70	9.80	11.30	12.00	13.45
17	13.65	12.35	....	7.75	6.45	6.50	6.75	7.70	9.90	11.20	12.75	13.15
18	13.70	12.30	....	7.75	6.50	6.50	6.80	....	10.00	11.30	12.95	13.15
19	13.55	12.00	....	7.60	....	6.50	6.85	7.95	10.00	11.55	12.60	13.60
20	13.85	11.90	....	7.60	6.45	6.45	6.90	8.00	9.90	11.70	12.95	13.60
21	13.45	12.10	....	7.55	6.40	6.50	....	8.00	10.00	11.75	12.75	13.45
22	13.25	12.00	....	7.55	6.35	6.55	6.95	8.05	10.15	11.90	12.60	13.20
23	13.45	12.00	....	....	6.35	6.55	6.95	8.15	10.20	11.80	12.45	13.05
24	13.30	12.05	....	....	6.35	6.55	6.90	8.25	10.35	11.70	13.05	13.10
25	13.30	12.05	....	....	6.30	6.50	6.90	8.30	10.55	12.00	....	13.40
26	13.45	11.75	....	....	6.40	6.60	7.05	8.45	10.65	11.75	12.95	13.65
27	13.50	....	....	7.00	6.40	6.60	7.10	8.45	10.60	11.80	12.70	13.70
28	13.15	....	....	7.00	6.40	6.65	7.05	8.45	10.65	11.80	12.90	13.65
29	13.30	....	....	7.00	6.35	....	7.00	8.50	10.60	11.60	13.00	13.60
30	13.20	....	....	7.10	6.40	6.55	7.00	8.45	10.60	11.75	13.30	13.80
31	13.25	....	8.75	....	6.50	....	7.05	8.70	....	11.95	....	13.75

Pulaski County

Pu 1. State of Indiana. Jasper-Pulaski State Game Preserve. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 31 N., R. 4 W. Drilled unused artesian well in rock, diameter 4 inches, reported depth 149 feet, cased to 60. Land-surface datum is 706 feet above msl. Highest water level 4.23 below lsd, Oct. 20, 1954, Jan. 12, 1955; lowest 12.14 below lsd, Dec. 1, 1935. Records available: 1935-42, 1944-55.

Measurement made by George McCormick.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	8.07	Apr. 13	7.09	June 29	6.99	Oct. 12	8.81
12	4.23	20	7.00	July 6	6.99	19	8.82
19	7.74	27	6.75	13	7.95	26	8.83
26	7.77	May 4	6.93	27	7.96	Nov. 2	8.84
Feb. 2	7.86	11	7.00	Aug. 3	7.99	9	8.87
16	7.99	18	6.99	10	8.91	16	8.62
28	8.03	25	7.91	16	9.30	25	8.81
Mar. 2	7.69	29	7.91	23	8.94	Dec. 3	8.83
16	7.24	June 8	7.91	Sept. 13	9.04	14	8.79
23	7.17	15	6.98	21	9.01	21	9.01
30	7.19	22	6.99	Oct. 6	9.50	29	9.01
Apr. 6	7.13						

Randolph County

Ra 1. Artie V. Keys. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 20 N., R. 14 E. Drilled domestic artesian well in limestone, diameter 4 inches, depth 157 feet, cased to 148. Highest water level 12.08 below lsd, Jan. 31, 1949; lowest 18.43 below lsd, Jan. 31, 1945. Records available: 1942-55.

Measurement made by Artie V. Keys.

Jan. 15	13.47	Apr. 15	13.56	July 15	15.49	Oct. 15	14.45
31	14.39	30	13.67	31	15.87	31	14.50
Feb. 15	14.18	May 15	14.20	Aug. 15	16.25	Nov. 15	14.18
28	13.33	31	14.17	31	16.71	30	13.39
Mar. 15	13.03	June 15	14.37	Sept. 15	17.30	Dec. 15	13.87
31	13.13	30	15.18	30	16.47	31	14.37

St. Joseph County

Sj 1. City of Mishawaka. Mishawaka Water and Light Dept. Virgil and Linden Sts. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 37 N., R. 3 E. Driven unused well in sand, diameter 1 $\frac{1}{2}$ inches, depth 40 feet. Highest water level 4.46 below lsd, May 25, 1943; lowest 15.34 below lsd, Sept. 1, 1953. Records available: 1935-55. Measurement made by personnel of Mishawaka Water and Light Dept. Nearby well being pumped.

Jan. 1	10.66	Apr. 16	11.07	July 16	14.17	Oct. 15	13.58
15	11.16	May 2	10.57	Aug. 1	13.84	Nov. 1	14.00
Feb. 1	12.32	16	13.00	15	13.58	16	13.58
16	12.50	June 1	12.08	Sept. 1	13.58	Dec. 1	14.42
Mar. 1	10.83	15	12.66	15	15.08	15	14.70
16	10.16	July 1	14.75	Oct. 2	12.75	31	13.41
Apr. 1	9.58						

Spencer County

Sp 6. State of Indiana. Lincoln State Park. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 5 S., R. 5 W. Drilled unused artesian well in rock, diameter 4 inches, reported depth 83 feet. Highest water level 21.52 below lsd, Mar. 21, 1951; lowest 31.75 below lsd, Oct. 6, 1954. Records available: 1944-55. Measurement made by personnel of Lincoln State Park.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	30.85	Apr. 6	25.35	July 6	26.00	Oct. 5	29.84
12	30.60	12	25.35	13	26.70	12	29.73
19	30.45	20	24.78	20	27.00	20	29.50
26	30.35	27	24.35	27	26.90	26	29.40
Feb. 1	30.20	May 4	24.20	Aug. 3	27.30	Nov. 2	29.31
9	30.00	11	24.40	10	27.70	9	28.86
16	29.65	18	24.65	17	28.00	16	28.48
23	29.25	25	24.75	24	28.55	23	27.85
Mar. 2	28.20	June 1	25.00	31	28.95	30	27.36
9	27.25	8	25.50	Sept. 7	29.15	Dec. 7	27.02
16	26.75	15	25.40	14	29.55	14	26.87
23	25.85	22	27.10	21	29.70	21	26.87
30	25.45	29	25.70	28	29.75	28	26.86

Steuben County

Sb 1. State of Indiana. Pokagon State Park. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 38 N., R. 13 E. Driven unused artesian well in gravel, diameter 1 $\frac{1}{2}$ inches, depth 14 feet. Land-surface datum is 1,004 feet above msl. Highest water level 1.01 above lsd, Apr. 1, 1950; lowest 5.77 below lsd, Jan. 16, 1954. Records available: 1935-55. Measurement made by personnel of Pokagon State Park.

Jan. 1	-0.14	Apr. 25	-0.02	July 20	-2.13	Oct. 12	-2.96
8	+.12	May 2	.39	27	2.48	19	2.77
15	-.06	9	1.56	Aug. 3	2.67	27	2.73
Feb. 12	.74	16	1.87	10	2.04	Nov. 2	2.65
19	.62	23	2.10	17	2.59	9	1.86
26	-.08	30	2.10	24	2.07	16	1.60
Mar. 5	+.23	June 6	1.39	31	2.46	23	1.64
12	+.09	13	.96	Sept. 7	2.50	30	1.74
19	-.12	20	1.44	14	3.20	Dec. 7	1.44
26	.11	23	1.57	25	3.63	14	1.57
Apr. 4	.09	27	1.93	28	3.68	21	1.83
11	.21	July 4	1.68	Oct. 6	3.69	29	1.90
18	.18	13	1.98				

Switzerland County

Sw 1. Walker Estate. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 2 N., R. 1 W. Dug domestic well, diameter 4 feet, depth 24 feet. Highest water level 2.45 below lsd, Mar. 2, 1945, Mar. 22, 1955; lowest 21.90 below lsd, Dec. 2, 15, 1944. Records available: 1944-55.

Jan. 14	9.50	Mar. 26	4.70	June 25	13.20	Sept. 30	17.10
22	11.90	Apr. 1	9.00	July 1	15.10	Oct. 7	13.00
29	13.40	8	11.70	8	16.20	14	12.00
Feb. 4	13.40	16	12.00	16	16.10	21	13.60
11	12.00	27	12.35	22	16.40	28	14.60
18	11.20	30	13.10	29	15.90	Nov. 4	13.90
25	5.80	May 6	14.50	Aug. 6	16.50	11	13.90
Mar. 1	3.40	13	15.90	12	16.00	26	11.70
5	3.00	21	15.80	19	17.20	Dec. 2	13.00
11	6.30	26	13.50	27	17.50	9	13.20
18	4.10	June 4	14.50	Sept. 9	17.90	16	14.80
21	4.35	10	12.50	16	18.10	24	16.00
22	2.45	18	10.50	24	18.00	30	16.40
23	3.10						

Tippecanoe County

Tc 7. State of Indiana. Purdue University. Purdue Research Housing Project. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 23 N., R. 5 W. Drilled unused well, diameter 8 inches, depth 207 feet. Land-surface datum is 679 feet above msl. Highest water level 159.61 below lsd, May 15, 1950; lowest 167.67 below lsd, Oct. 19, 1954. Records available: 1945-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	166.85	166.66	166.59	166.55	166.76	167.06	166.82	.....	167.46	167.50	167.23	167.02
2	167.01	166.77	166.73	166.46	166.69	167.08	166.85	.....	167.44	167.43	167.28	166.77
3	166.96	166.94	166.63	166.46	166.71	167.03	166.87	.....	167.37	167.38	167.43	166.82
4	166.90	166.92	166.58	166.54	166.73	166.99	166.85	.....	167.30	167.31	167.41	166.84
5	166.77	166.65	166.75	.....	166.80	166.94	166.75	.....	167.24	167.24	167.27	166.94
6	167.00	166.63	166.69	166.50	166.81	166.90	166.80	.....	.....	167.27	167.16	166.86
7	167.02	166.70	166.72	166.49	166.75	166.83	166.81	.....	167.16	167.25	167.21	166.72
8	166.88	166.66	166.63	166.56	166.80	166.80	166.82	.....	167.23	167.51	167.27	166.80
9	166.92	166.60	166.57	166.51	166.87	166.85	166.92	167.46	167.19	167.44	167.25	166.91
10	166.96	166.62	166.58	166.45	166.74	166.69	166.92	167.46	167.22	167.36	167.08	166.99
11	.....	166.84	166.50	166.30	166.91	166.50	166.92	167.49	.....	167.35	167.05	166.91
12	.....	166.81	166.61	166.34	166.88	166.56	167.00	167.50	.....	167.25	167.24	166.85
13	.....	166.88	166.76	166.30	166.89	166.69	167.03	167.49	.....	167.34	167.20	166.79
14	.....	166.58	166.66	166.23	166.91	166.70	167.03	167.50	.....	167.28	167.27	166.79
15	.....	166.66	166.49	166.46	166.93	166.77	166.94	167.56	167.23	167.36	167.06	166.77
16	.....	166.51	166.62	166.48	166.84	166.79	167.03	.....	167.26	167.30	166.97	166.76
17	.....	.....	166.76	166.54	166.89	166.80	167.03	.....	167.29	167.12	167.26	166.63
18	.....	.....	166.52	.....	166.94	166.82	167.02	.....	167.26	167.26	167.33	166.74
19	.....	.....	166.63	166.41	166.89	166.73	167.08	.....	167.19	167.38	167.06	166.91
20	.....	.....	166.59	166.46	166.90	166.68	167.10	.....	167.17	167.38	167.07	166.81
21	.....	.....	166.28	166.53	166.96	166.73	167.09	.....	167.29	167.33	167.08	166.68
22	.....	.....	166.09	166.55	166.85	166.76	167.08	.....	167.34	167.44	166.98	166.47
23	.....	.....	166.61	166.50	166.87	166.78	167.05	.....	167.29	167.26	166.90	166.47
24	.....	166.80	166.67	166.28	166.88	166.80	167.00	167.48	167.39	167.31	167.29	166.48
25	.....	166.85	166.59	166.45	166.98	166.80	.....	167.45	167.42	167.30	167.07	166.76
26	166.94	166.68	166.53	166.72	167.00	166.83	167.08	167.46	167.38	167.19	167.05	166.69
27	167.04	166.51	166.63	166.68	166.96	166.81	167.15	167.39	167.24	167.26	166.80	166.62
28	166.76	166.58	166.59	166.70	166.98	166.86	167.19	167.31	167.33	167.22	166.93	166.54
29	166.87	.....	166.54	166.77	166.93	166.82	167.22	167.23	167.30	167.06	166.92	166.50
30	166.85	.....	166.61	166.83	166.96	166.73	.....	167.08	167.29	167.15	167.10	166.59
31	166.83	.....	166.56	.....	167.02	.....	.....	167.38	.....	167.24	.....	166.38

Vanderburgh County

Va 1. Flora Buente. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 5 S., R. 11 W. Dug unused well, diameter 42 inches, depth 20 feet, cribbed with brick. Highest water level 0.19 below lsd, Mar. 18, 1951; lowest 14.29 below lsd, Feb. 13, 1955. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	13.78	Apr. 3	13.33	July 3	10.75	Oct. 2	10.80
9	13.88	10	13.09	10	10.69	9	10.57
16	13.93	17	12.60	17	10.66	16	10.57
23	14.02	24	11.49	24	10.58	23	10.67
30	14.16	30	11.60	31	10.58	30	10.73
Feb. 6	14.23	May 8	11.56	Aug. 7	10.61	Nov. 6	10.78
13	14.29	15	11.33	14	10.67	13	10.84
20	14.28	22	11.30	21	10.71	20	10.93
27	14.20	29	11.29	28	10.79	27	11.00
Mar. 6	14.10	June 5	11.25	Sept. 4	10.82	Dec. 4	11.08
13	14.04	12	11.05	11	10.87	11	11.25
20	13.92	19	10.97	18	10.88	18	11.34
27	13.56	26	10.61	25	10.82	25	11.35

Wayne County

We 1. C. E. Rodenberg. Pershing. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 16 N., R. 12 E. Dug unused well in gravel, diameter 42 inches, depth 33 feet, cribbed with brick. Land-surface datum is 957 feet above msl. Highest water level 24.60 below lsd, Feb. 27, 1950; lowest 32.18 below lsd, Dec. 20, 1954. Records available: 1945-55.

We 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	32.07	Mar. 8	30.90	May 10	29.44	Sept. 6	30.88
11	31.92	16	30.50	24	29.60	19	31.05
17	31.82	21	30.24	June 1	29.70	27	31.05
24	31.72	28	29.97	7	29.75	Oct. 10	31.10
31	31.66	Apr. 5	29.72	13	29.80	25	31.16
Feb. 9	31.61	11	29.60	27	30.00	Nov. 7	31.18
14	31.52	20	29.43	July 5	30.10	15	31.13
23	31.36	26	29.40	Aug. 9	30.52	Dec. 1	30.34
Mar. 1	31.19	May 3	29.39	22	30.68	14	29.10

MAINE

By Henry G. Healy

Scope of Water-Level Program

The observation-well program in Maine, begun in 1939, was continued in 1955. Figure 10 shows the location of the five wells in which weekly measurements are made.

Precipitation

Average precipitation for Maine in 1955, according to the U. S. Weather Bureau, was 34.97 inches, 5.91 inches below normal and 22.83 inches less than in 1954. February, the wettest month, had 5.29 inches, and December, the driest month, had 1.09 inches. Precipitation was below normal in all months except February, March, and August.

Interpretation of Water-Level Fluctuations

Water levels which were slightly above average at the end of 1954 declined because of below-normal precipitation and freezing temperatures. In response to above-normal precipitation in February and March and recharge by melting snow in early April, water levels, in general, rose during February and continued to rise or remained at high stages during March and early April. At the end of February, new highs for the month were recorded in well H 1 at Amherst and well Ar 2 at Sherman Mills. On April 11, a new high was recorded in well Sm 1 at Mercer. The usual seasonal decline which accompanies the growing season began in April and, except for local variations, continued until about October. A new low for May was recorded in well Y 1 at Cornish, and a new high for May was recorded in well Ar 2 at Sherman Mills in response to high precipitation locally. In general, water levels were below average from July through October. The water level in well Ar 2 at Sherman Mills continued to decline during November and December. Well Ar 1 at Portage Lake, which went dry in September, remained dry during the rest of the year. In the other wells, water levels rose somewhat in early November after the growing season and fluctuated with local conditions during the rest of the year. At the end of 1955, water levels were generally lower than at the end of 1954.

Well-Numbering System

Each well in Maine is designated by a letter or combination of letters indicating the county in which the well is located, followed by a numeral assigned within each county in the order the well was inventoried.

Well Descriptions and Water-Level Measurements

(Water-level measurements are in feet below land-surface datum.)

Aroostook County

Ar 1. H. L. Stevens. Portage Lake. Lat. 46°46'19", long 68°28'04". Dug unused water-table well in sand, diameter 28 inches, depth 11 feet. Land-surface datum is about 930 feet above msl. Highest water level 0.60 below lsd, Apr. 21, 1952; lowest dry several times, 1947-48, 1950, 1952-53, 1955. Records available: 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	5.54	Mar. 11	4.26	Apr. 21	0.85	June 3	4.79
24	6.32	16	2.90	27	1.60	8	4.55
31	6.55	22	3.45	May 4	2.05	15	4.91
Feb. 10	7.05	30	4.13	12	2.50	28	6.25
21	3.92	Apr. 7	1.94	20	3.75	July 6	5.90
28	3.55	13	1.52	27	4.93	13	7.42

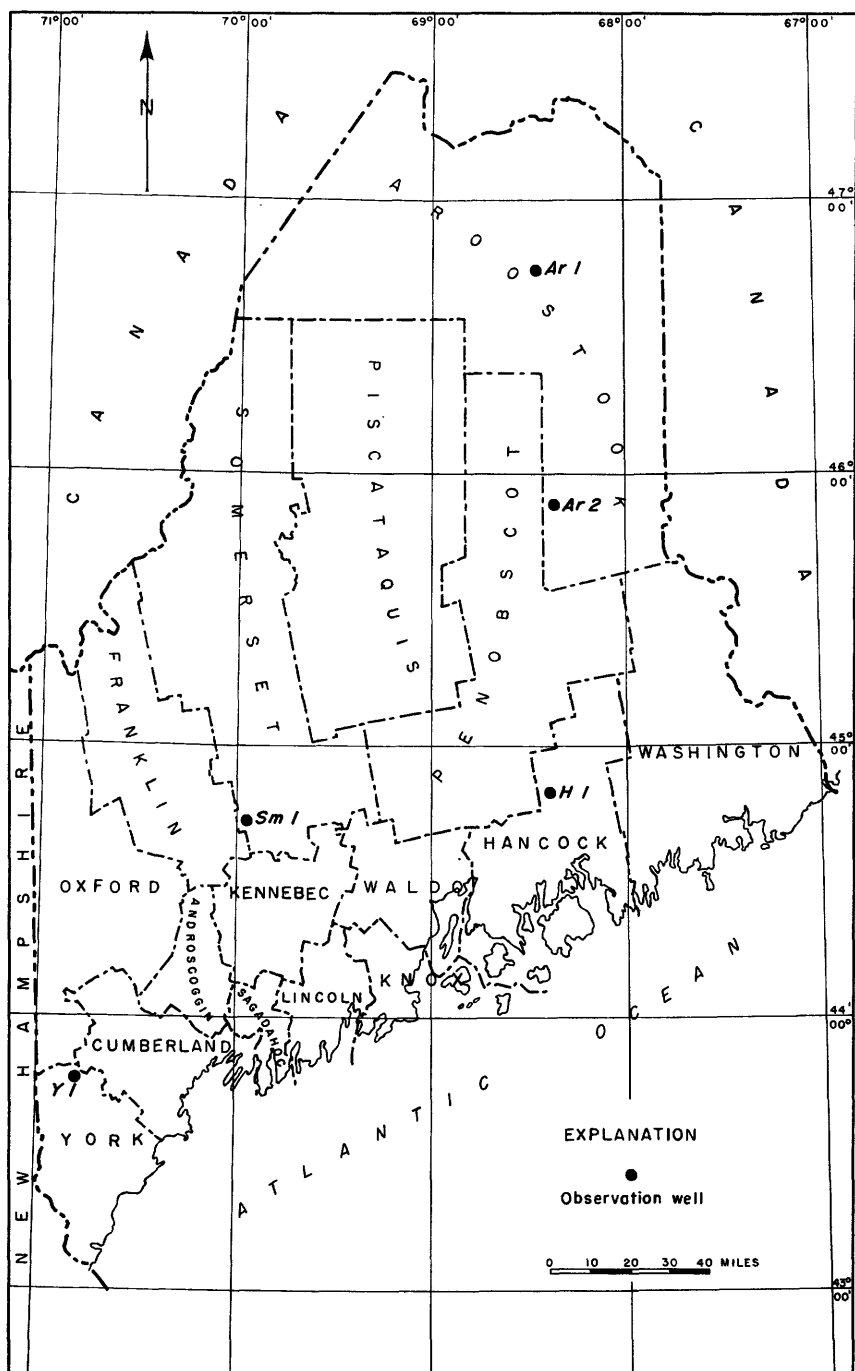


Figure 10. --Location of observation wells in Maine, 1955.

Ar 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 23	7.93	Aug. 29	9.70	Oct. 5	(f)	Nov. 15	(f)
28	8.02	Sept. 8	(f)	11	(f)	23	(f)
Aug. 5	8.33	15	(f)	25	(f)	Dec. 2	(f)
15	8.83	20	(f)	Nov. 3	(f)	9	(f)
23	9.40	27	(f)				

f Dry.

Ar 2. C. C. Young. Sherman. Lat. 45°55'01", long. 68°20'04". Dug and drilled unused water-table well 12 feet in sand, 19 feet in bedrock, diameter 28 to 8 inches, depth 31 feet. Land-surface datum is about 710 feet above msl. Highest water level 0.66 below lsd, Dec. 10, 1950, Mar. 29, 1953, Apr. 18, 1954; lowest 17.48 below lsd, Oct. 25, 1953. Records available: 1939-55.

Jan. 2	4.18	Mar. 27	4.18	June 12	3.45	Aug. 28	11.26
9	6.66	Apr. 3	4.47	19	7.53	Sept. 4	11.83
16	10.86	10	1.48	26	10.86	11	12.45
23	11.16	17	.98	July 3	11.18	18	12.95
30	11.93	24	1.02	10	11.48	25	13.65
Feb. 13	1.16	May 1	1.48	17	13.18	Nov. 30	14.73
20	2.38	8	1.93	24	13.71	Dec. 3	14.98
27	1.23	15	4.38	31	13.49	11	15.08
Mar. 6	2.30	22	1.36	Aug. 7	12.66	18	15.50
13	1.50	29	.98	14	12.10	25	15.61
20	2.62	June 5	1.58	21	11.56		

Hancock County

H 1. George C. Orcutt. Amherst. Lat. 44°49'50", long. 68°22'06". Dug unused water-table well in glacial drift, diameter 18 inches, depth 14 feet. Land-surface datum is about 330 feet above msl. Highest water level 2.81 below lsd, Nov. 27, 1950; lowest dry several times, 1944, 1948-49, 1952, 1955. Records available: 1943-55.

Jan. 2	4.46	Apr. 3	3.82	July 3	10.28	Oct. 2	(f)
9	5.20	10	4.56	10	10.82	9	(f)
16	5.78	17	5.32	17	11.40	16	(f)
23	6.33	24	5.71	24	11.84	23	(f)
30	6.77	May 1	5.74	31	11.10	30	(f)
Feb. 6	7.18	8	5.81	Aug. 6	12.81	Nov. 6	(f)
13	3.27	15	6.24	14	13.10	13	(f)
20	4.97	22	6.74	21	13.20	20	11.69
27	4.43	29	7.31	28	13.48	27	10.58
Mar. 6	4.68	June 5	7.80	Sept. 4	13.80	Dec. 4	10.15
13	3.69	12	8.59	11	(f)	11	9.99
20	4.51	20	9.18	18	(f)	18	9.86
27	3.78	26	9.63	25	(f)	25	9.88

f Dry.

Somerset County

Sm 1. J. Harrison Farrand. Mercer. Lat. 44°42'10", long. 69°55'12". Dug unused water-table well in sand, diameter 5 feet, depth 14 feet. Land-surface datum is about 270 feet above msl. Highest water level 4.27 below lsd, Apr. 11, 1955; lowest dry several times, 1952-53. Records available: 1942-55.

Jan. 5	5.88	Apr. 4	4.60	July 10	7.20	Oct. 16	11.20
11	6.30	11	4.27	16	7.34	23	11.36
16	6.10	19	4.85	23	7.66	30	11.63
24	6.70	23	4.98	31	8.08	Nov. 6	9.66
30	6.52	May 1	5.18	Aug. 6	8.42	13	6.78
Feb. 6	6.80	14	5.50	13	8.55	20	5.71
13	6.06	22	6.02	20	8.82	27	5.88
20	6.10	30	5.29	28	9.17	Dec. 3	6.17
27	6.80	June 4	5.32	Sept. 11	9.79	11	6.40
Mar. 5	6.88	12	5.48	17	10.04	17	6.50
13	5.40	18	6.12	25	10.42	26	6.70
20	5.32	26	6.40	Oct. 2	10.70		
26	5.27	July 4	6.90	10	11.05		

York County

Y 1. J. P. Small. Cornish. Lat. 43°48'22", long. 70°48'25". Dug unused water-table well in sandy glacial drift, diameter 36 inches, depth 24 feet. Land-surface datum is about 370 feet above msl. Highest water level 7.90 below lsd, Apr. 6, 1952; lowest 18.40 below lsd, Nov. 14, 1948. Records available: 1943-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	10.60	Apr. 3	9.50	July 3	12.50	Oct. 2	17.10
9	10.90	10	9.10	10	13.20	9	17.40
16	11.40	17	9.90	17	13.70	16	17.60
23	12.10	24	10.30	24	14.20	23	17.80
30	12.20	May 1	10.50	31	14.90	30	17.60
Feb. 5	13.50	8	10.10	Aug. 7	15.20	Nov. 6	15.10
13	12.70	15	11.10	14	15.70	13	11.20
20	12.20	22	11.80	21	15.20	20	11.20
27	12.10	29	12.10	28	15.20	27	11.50
Mar. 6	11.20	June 5	11.90	Sept. 4	15.50	Dec. 4	12.10
13	11.10	12	12.10	11	16.10	11	12.60
20	9.40	19	11.80	18	16.50	18	13.20
27	10.10	26	12.20	25	16.70	25	14.10

MASSACHUSETTS

By Henry G. Healy

Scope of Water-Level Program

The observation-well program was continued during 1955 in cooperation with the Massachusetts Department of Public Works. Water levels were measured monthly in 23 wells and weekly in 7 wells. Recording gages, which had been in operation since 1939, were removed from wells Leominster 11 and Winchendon 13 in September, and monthly measurements were made in them thereafter. Measurements were not made in Lowell 26 and 33 and Woburn 3, 5, 23, and 53. Measurements were discontinued in wells Winchester 4 and Woburn 4, 19, and 49 during the year. Figures 11 and 12 show the location of observation wells in Massachusetts.

Precipitation

The average precipitation for the State in 1955, as determined by the U. S. Weather Bureau, was 50.39 inches, 7.07 inches above normal and 2.69 inches below the 1954 average. Average monthly precipitation was above normal in February, March, April, August, October, and November and below normal in the other months. Heavy to torrential rainfall which accompanied hurricanes "Connie" and "Diane" made August the wettest month of the year, the total rainfall being 13.31 inches, 9.48 inches above normal. January, the driest month, had 0.85 inch of rainfall, 2.82 inches below normal.

Interpretation of Water-Level Fluctuations

In January water levels, which were near or slightly above average at the end of 1954, declined because of below-normal precipitation and freezing temperatures, except in the coastal areas where higher temperatures permitted recharge by rainfall. Rises occurred from early February to the end of April because of above-normal precipitation and snowmelt recharge. Peak stages for the year were recorded in most wells at the end of April. The usual seasonal decline which accompanies the growing season began in May and continued through July; the lows for the year were recorded at the end of July. In mid-August, water levels rose rapidly in response to the heavy rainfall that accompanied hurricanes "Connie" and "Diane." In early September water levels declined in many wells but rose again because of above-normal precipitation in October and November, then declined gradually. At the end of 1955, however, they were generally higher than at the end of 1954.

Well-Numbering System

Each well is identified by the name of the town or city in which the well is located and by a numeral designating the order in which the well was inventoried.

Well Descriptions and Water-Level Measurements

All 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 before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference.

Barnstable County

Falmouth 5. Town of Falmouth. Lat. 41°34'49", long. 70°32'24". Driven unused water-table well in glacial drift, diameter 2½ inches, depth 50 feet. Land-surface datum is about 8 feet above msl. Highest water level 2.78 below lsd, Apr. 27, 1953; lowest 5.46 below lsd, Sept. 2, 1950. Records available: 1950-55.

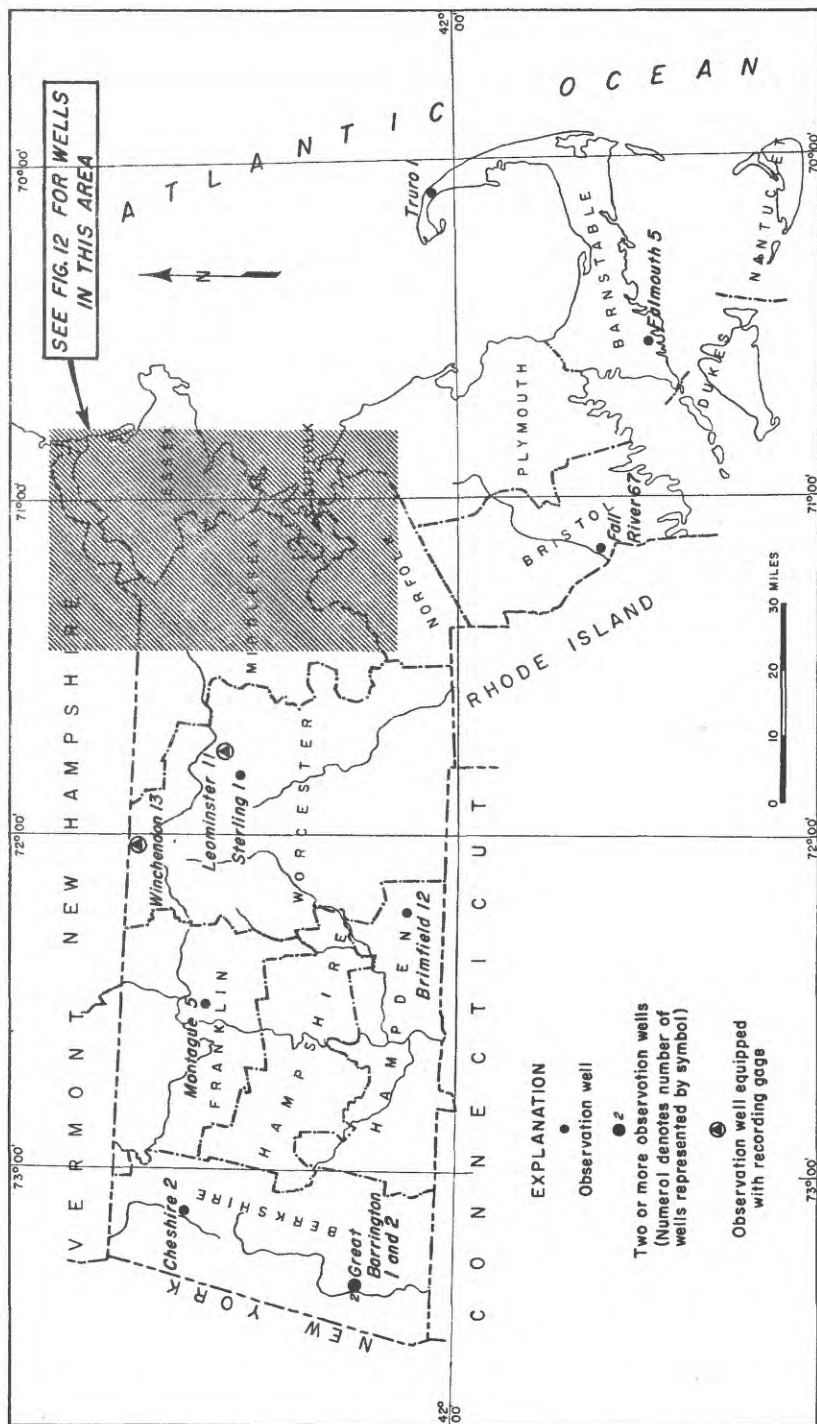


Figure 11.--Location of observation wells in Massachusetts, 1955.

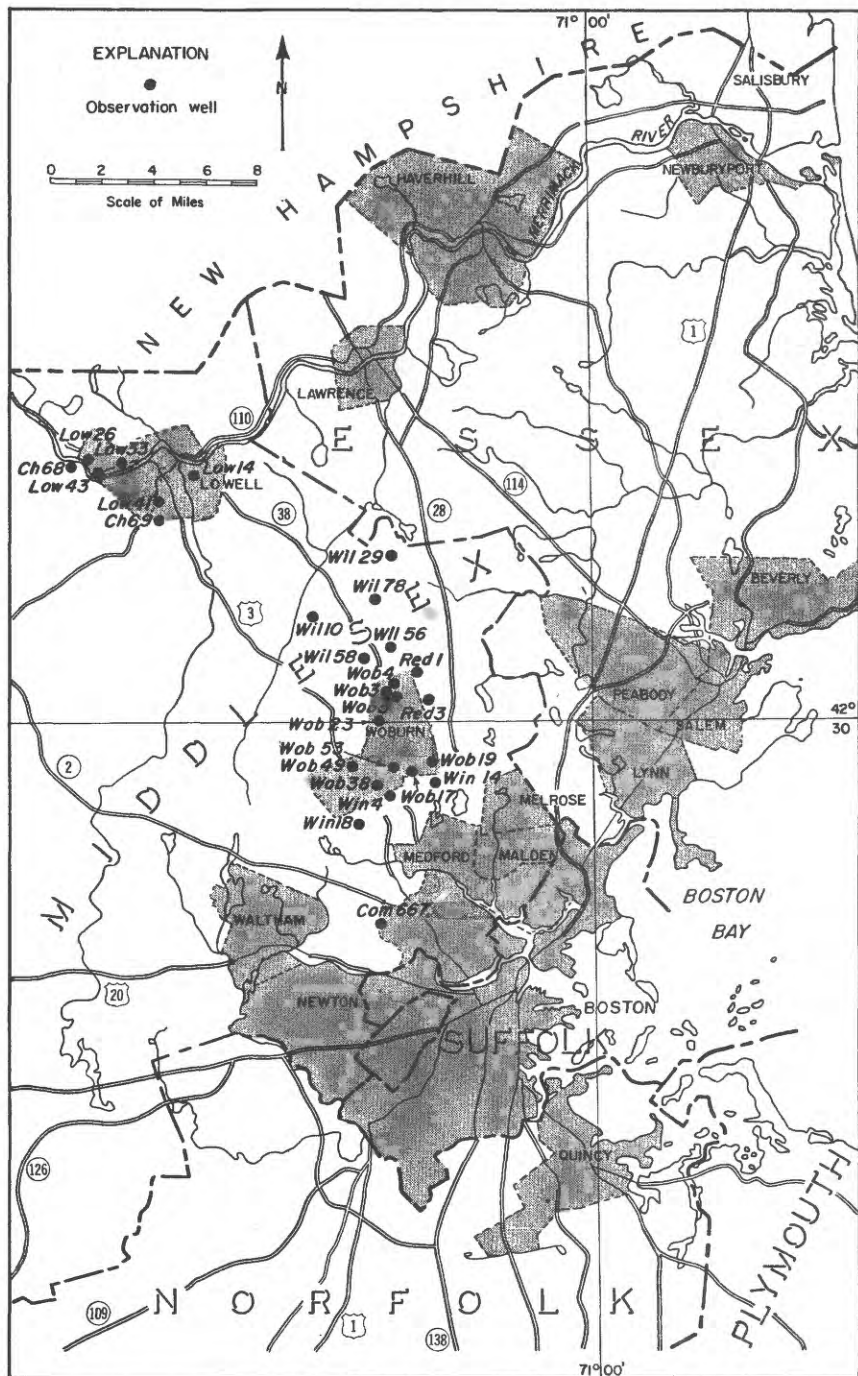


Figure 12. --Location of observation wells in Middlesex County, Mass., 1955.

Falmouth 5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	3.89	June 6	3.82	July 18	4.54	Aug. 29	4.35
Feb. 1	3.66	20	4.14	25	4.70	Oct. 1	4.69
Mar. 2	3.85	27	4.17	Aug. 1	4.74	Nov. 2	4.71
Apr. 1	3.73	July 4	4.33	8	4.89	Dec. 1	4.45
May 2	3.56	11	4.42	15	4.39	31	4.51

Truro 1. Town of Provincetown. Lat. 42°02'39", long. 70°06'20". Driven unused water-table well in glacial drift, diameter 1½ inches, depth 68 feet. Land-surface datum is about 25 feet above msl. Highest water level 10.0 below lsd, Jan. 1, 8, 22, Oct. 8, 1955; lowest 12.1 below lsd, Sept. 11, 1954. Records available: 1950-55.

Jan. 1	10.0	Apr. 16	11.1	July 16	11.1	Oct. 8	10.0
8	10.0	23	10.6	23	11.0	15	10.9
15	10.5	30	10.4	30	11.1	22	10.7
22	10.0	May 7	10.5	Aug. 6	11.1	29	10.9
29	10.7	21	10.5	13	11.2	Nov. 5	10.9
Feb. 5	10.7	28	10.6	20	10.9	12	10.5
12	10.5	June 4	10.8	27	11.1	17	10.5
19	10.7	11	10.8	Sept. 3	11.0	Dec. 3	10.5
26	10.8	18	10.9	10	11.0	10	10.5
Mar. 5	10.6	25	10.8	17	11.0	17	10.6
26	10.6	July 2	11.1	24	11.1	24	10.8
Apr. 2	10.5	9	11.1	Oct. 1	11.1	31	10.8
9	10.5						

Berkshire County

Cheshire 2. John Jayko. Wells and Jenks Rds. Lat. 42°35'03", long. 73°07'54". Dug unused water-table well in glacial drift, depth 22 feet. Land-surface datum is about 1,210 feet above msl. Highest water level 0.09 below lsd, Jan. 19, 1952; lowest 13.46 below lsd, Oct. 26, 1953. Records available: 1951-55.

Jan. 3	1.55	Apr. 4	4.38	July 4	7.62	Oct. 3	7.33
10	2.99	11	3.54	11	8.16	10	3.62
17	5.16	18	1.99	18	8.76	17	.33
24	6.14	25	.71	25	9.33	24	.89
31	6.95	May 2	.98	Aug. 1	9.98	31	.57
Feb. 7	6.92	9	2.18	8	10.44	Nov. 7	.86
14	6.76	16	4.16	15	7.79	14	.52
21	7.79	23	5.21	22	6.56	21	.36
28	6.92	30	5.15	29	6.77	29	1.75
Mar. 7	6.56	June 7	5.18	Sept. 5	7.64	Dec. 5	1.19
14	6.32	13	5.98	11	8.26	12	3.44
21	6.39	21	6.58	19	8.88	19	4.82
28	6.43	27	6.92	26	7.64	26	5.73

Great Barrington 1. Mrs. Dora A. Campbell. North Plains Rd. and Division St. Lat. 42°13'38", long. 73°21'52". Dug unused well in glacial drift, diameter 34 inches, depth 22 feet. Land-surface datum is 732.11 feet above msl. Highest water level 15.51 below lsd, Aug. 1, 1945; lowest 22.89 below lsd, Sept. 29, 1947. Records available: 1936-55.

Jan. 27	20.44	Apr. 28	19.82	July 28	21.77	Oct. 27	20.64
Feb. 24	20.56	May 26	20.29	Aug. 25	21.31	Nov. 24	18.76
Mar. 31	20.34	June 30	21.44	Sept. 29	21.77	Dec. 29	19.97

Great Barrington 2. Austin Holian. Lat. 42°13'15", long. 73°21'28". Dug unused water-table well in glacial drift, diameter 36 inches, depth 15 feet. Land-surface datum is about 725 feet above msl. Highest water level 5.88 below lsd, Mar. 5, 1954; lowest 13.66 below lsd, Nov. 20, 1953. Records available: 1951-55.

Jan. 6	7.72	Apr. 7	7.74	July 7	13.02	Oct. 6	12.26
13	10.09	14	7.53	14	13.07	13	9.11
20	10.97	21	7.27	21	13.13	20	6.48
27	11.46	28	7.21	28	13.16	27	6.81
Feb. 3	11.88	May 5	7.93	Aug. 4	13.23	Nov. 3	6.59
10	11.77	12	9.77	11	13.27	10	6.84
17	11.64	19	11.25	18	12.76	17	6.46
24	11.28	26	11.76	25	8.32	24	7.03
Mar. 3	10.84	June 2	11.74	Sept. 1	10.42	Dec. 1	8.77
10	10.54	9	12.33	8	11.14	8	9.12
17	8.65	16	12.77	15	11.67	15	9.98
24	7.57	23	12.93	22	12.25	22	10.88
31	7.45	30	12.88	29	12.11	29	11.24

Bristol County

Fall River 67. Bristol County Superior Courthouse. North Main and Walnut Sts. Lat. 41°42'28", long. 71°09'15". Dug unused well in glacial drift, diameter 30 inches, depth 12 feet. Land-surface datum is about 135 feet above msl. Highest water level 4.96 below lsd, Apr. 20, 1953; lowest dry, Oct. 30-Nov. 20, 1950. Records available: 1948-55.

Jan. 3	8.49	Apr. 4	7.45	July 4	8.85	Oct. 3	8.81
10	8.89	11	7.71	11	8.86	10	8.76
17	7.47	18	7.97	18	8.80	17	7.63
24	8.00	25	8.09	25	8.82	24	8.02
31	8.12	May 2	7.99	Aug. 1	8.49	31	8.19
Feb. 2	8.25	9	7.99	8	8.99	Nov. 7	7.20
14	8.09	16	8.05	15	8.84	14	7.17
21	7.89	23	8.20	22	8.29	21	7.17
28	8.89	30	8.29	29	8.46	28	7.54
Mar. 7	7.58	June 6	8.43	Sept. 5	8.59	Dec. 5	7.80
14	7.39	13	8.55	12	8.73	12	7.81
21	7.59	20	8.65	19	8.68	19	8.17
28	7.30	27	8.76	26	8.84	26	8.35

Franklin County

Montague 5. C. A. Kurtyka. Near Montague. Lat. 42°33'05", long. 72°32'03". Dug unused well in glacial drift, diameter 38 inches, depth 7 feet. Land-surface datum is about 240 feet above msl. Highest water level 0.78 below lsd, Apr. 27, 1944; lowest 6.04 below lsd, Oct. 9, 1950. Records available: 1936-55.

Jan. 3	2.47	Apr. 6	2.00	July 5	3.10	Oct. 3	3.24
10	3.04	11	2.28	11	3.78	10	2.45
17	3.58	18	2.45	18	4.10	17	1.60
24	3.88	25	1.88	25	4.26	24	1.85
31	3.86	May 2	2.06	Aug. 1	4.44	31	1.58
Feb. 7	3.78	9	2.38	8	4.62	Nov. 7	1.46
14	3.63	16	2.90	15	2.65	14	1.40
21	3.40	23	3.20	22	1.78	21	1.55
28	3.06	30	2.58	29	2.48	28	1.70
Mar. 7	2.87	June 6	2.90	Sept. 5	2.56	Dec. 5	1.66
14	2.20	13	2.70	12	3.14	12	2.00
21	2.39	20	3.60	19	3.50	19	2.36
28	2.10	28	3.20	26	3.00		

Hampden County

Brimfield 12. Norman Goodrich. Near Brimfield. Lat. 42°07'06", long. 72°14'24". Dug unused well in glacial drift, diameter 22 inches, depth 16 feet. Land-surface datum is about 740 feet above msl. Highest water level 1.12 below lsd, Apr. 19, 1953; lowest dry many times, 1944, 1947-49. Records available: 1936-55.

Jan. 2	11.79	Mar. 31	10.73	July 31	13.68	Sept. 30	9.49
22	11.72	Apr. 30	10.51	Aug. 28	6.02	Nov. 30	7.21
Feb. 28	12.08	May 29	12.21				

Middlesex County

Cambridge 667. Cambridge Water Department. Blanchard Rd. and Concord Ave. Lat. 42°23'16", long. 71°09'25". Drilled unused well in sand and gravel, diameter 8 inches, depth 129 feet. Land-surface datum is 11.63 feet above msl. Highest water level 5.71 below lsd, May 18, 1945; lowest 23.82 below lsd, Dec. 29, 1950. Records available: 1944-55.

Feb. 1	11.49	Apr. 29	6.08	July 28	8.08	Oct. 31	5.96
27	15.54	June 2	6.39	Aug. 30	6.18	Dec. 1	6.76
Mar. 31	7.10	30	6.95	Sept. 29	6.39	28	7.17

Chelmsford 68. Harold Blackie. Middlesex St., near Vinal Square. Lat. 42°38'45", long. 71°23'14". Drilled unused well in glacial drift, diameter 6 inches, depth 50 feet. Land-surface datum is 100.83 feet above msl. Highest water level 5.38 below lsd, May 2, 1953; lowest 11.07 below lsd, Sept. 2, 1950. Records available: 1939-55.

Feb. 1	8.21	Apr. 29	7.24	July 28	10.05	Oct. 31	7.79
27	6.47	June 2	8.55	Aug. 30	8.83	Dec. 1	7.34
Mar. 31	7.45	30	8.50	Sept. 29	9.69	28	8.77

Chelmsford 69. City of Lowell (Washington test well 2). Chelmsford St. and Ecuador Rd. Lat. 42°36'34", long. 71°19'26". Driven unused water-table well in glacial drift, diameter 2½ inches, depth 45 feet. Land-surface datum is 103.62 feet above msl. Highest water level 0.04 above lsd, Feb. 2, 1952; lowest 6.05 below lsd, Aug. 23, 1941. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.09	Apr. 29	0.99	July 28	3.10	Oct. 31	1.04
27	1.32	June 2	2.02	Aug. 30	1.20	Dec. 1	1.47
Mar. 31	1.13	30	2.24	Sept. 29	2.13	28	2.23

Lowell 14. Rogers Hall School. Rogers St. and Fort Hill Ave. Lat. 42°38'12", long. 71°17'48". Dug unused well in glacial drift, diameter 24 inches, depth 30 feet. Land-surface datum is 157.78 feet above msl. Highest water level 8.43 below lsd, Mar. 29, 1952; lowest 22.46 below lsd, Nov. 7, 1939. Records available: 1939-55.

Feb. 1	10.81	Apr. 29	9.84	July 28	13.78	Oct. 31	11.62
27	10.59	June 2	11.35	Aug. 30	13.20	Dec. 1	9.80
Mar. 31	9.00	30	12.37	Sept. 29	13.74	28	10.95

Lowell 26. Alfred Cimon (well 1). Pawtucket Blvd. Extension and East Ave. Lat. 42°38'39", long. 71°22'34". Driven unused water-table well in glacial drift, diameter 1½ inches, depth 15 feet. Land-surface datum is 102.26 feet above msl. Highest water level 1.97 below lsd, Apr. 2, 1940; lowest 13.01 below lsd, Sept. 30, 1950. Records available: 1939-54. No measurement made in 1955.

Lowell 33. Thomas Varnum. Varnum Ave. and West Meadow Rd. Lat. 42°38'35", long. 71°20'55". Dug unused well in glacial drift, diameter 27 inches, depth 13 feet. Land-surface datum is 101.83 feet above msl. Highest water level 6.29 below lsd, Mar. 1, 1945; lowest 11.33 below lsd, Oct. 4, 1941. Records available: 1939-54. No measurement made in 1955.

Lowell 41. City of Lowell (Cook test well 3). Plain and Manufacturers Sts. Lat. 42°37'20", long. 71°19'12". Driven unused well in glacial drift, diameter 2 inches, depth 53 feet. Land-surface datum is 105.63 feet above msl. Highest water level 4.66 below lsd, Feb. 15, 1941; lowest 20.95 below lsd, Sept. 2, 1950. Records available: 1939-55.

Feb. 1	13.59	June 2	11.72	Aug. 30	9.15	Dec. 1	9.45
27	11.81	30	13.97	Sept. 29	10.74	28	11.71
Mar. 31	9.98	July 28	14.89	Oct. 31	9.27		

Lowell 43. City of Lowell (test well 26). Pawtucket Blvd. and Boulevard Ave. Lat. 42°38'19", long. 71°22'02". Driven unused well in sand and gravel, diameter 2½ inches, depth 32 feet. Land-surface datum is 101.06 feet above msl. Highest water level 10.62 below lsd, June 4, 1940; lowest 25.76 below lsd, Dec. 30, 1948. Records available: 1940-55.

Feb. 1	17.54	Apr. 29	16.97	July 28	20.66	Oct. 31	19.67
27	18.03	June 2	15.96	Aug. 30	19.91	Dec. 1	19.23
Mar. 31	18.22	30	17.95	Sept. 29	21.67	28	20.63

Reading 1. William Kelch. West and Willow Sts. Near Reading. Lat. 42°31'40", long. 71°07'43". Dug unused well in glacial drift, diameter 36 inches, depth 22 feet. Land-surface datum is 107.94 feet above msl. Highest water level 13.02 below lsd, Apr. 3, 1948; lowest dry, Dec. 26, 1941. Records available: 1939-55.

Feb. 1	17.07	Apr. 29	17.45	July 28	20.27	Oct. 31	16.19
27	18.24	June 2	18.40	Aug. 30	17.23	Dec. 1	15.87
Mar. 31	15.49	30	19.35	Sept. 29	19.20	28	18.01

Reading 3. M. W. Farr. 1.2 miles southwest of Reading. Lat. 42°30'43", long. 71°07'16". Driven unused well in gravel, diameter 2½ inches, depth 10 feet. Land-surface datum is 159.28 feet above msl. Highest water level 1.04 below lsd, Dec. 30, 1954; lowest 5.63 below lsd, Nov. 1, 1941. Records available: 1940-55.

Feb. 1	2.19	Apr. 29	1.27	July 28	3.99	Oct. 31	1.39
27	1.73	June 2	1.95	Aug. 30	1.78	Dec. 1	1.47
Mar. 31	1.57	30	2.54	Sept. 29	2.08	28	2.36

Wilmington 10. L. Chisholm. Hopkins St. and Shawshen Ave. Lat. 42°33'29", long. 71°12'25". Dug unused water-table well in sand, diameter 36 inches, depth 9 feet. Land-surface datum is 113.63 feet above msl. Highest water level 0.73 below lsd, Nov. 30, 1944; lowest dry, Dec. 13, 1941. Records available: 1940-55.

Feb. 1	2.83	Apr. 29	0.99	July 28	6.25	Oct. 31	0.98
27	1.39	June 2	2.89	Aug. 30	1.77	Dec. 1	1.64
Mar. 31	1.08	30	4.32	Sept. 29	2.87	28	2.98

Wilmington 29. John W. Clark. Formerly O. R. Surette. Andover and Woburn Sts. Near Wilmington Center. Lat. 42°35'28", long. 71°08'50". Dug unused water-table well in coarse gravelly sand, diameter 36 inches, depth 13 feet. Land-surface datum is 99.99 feet above msl. Highest water level 8.40 below lsd, Mar. 28, 1942; lowest 11.77 below lsd, Oct. 3, 1953. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	9.53	Apr. 29	9.86	July 28	11.19	Oct. 31	9.74
27	10.01	June 2	10.27	Aug. 30	9.86	Dec. 1	9.84
Mar. 31	9.60	30	10.54	Sept. 29	10.49	28	10.30

Wilmington 56. Ralph G. Babcock. Formerly D. P. Falkner. Woburn and Lowell Sts. Near Wilmington Center. Lat. 42°32'30", long. 71°08'59". Dug unused water-table well in sand and gravel, diameter 36 inches, depth 11 feet. Land-surface datum is 89.75 feet above msl. Highest water level 1.60 below lsd, Dec. 30, 1954; lowest 8.11 below lsd, Aug. 30, 1949. Records available: 1940-55.

Feb. 1	4.87	Apr. 29	2.49	July 28	6.87	Oct. 31	2.95
27	3.58	June 2	4.94	Aug. 30	3.98	Dec. 1	3.91
Mar. 31	3.34	30	5.48	Sept. 29	4.66	28	4.81

Wilmington 58. Robert A. Malatesta. Formerly Mrs. R. Malatesta. Butters Row and Main St. Near Wilmington Center. Lat. 42°32'07", long. 71°10'12". Drilled unused well in bedrock, diameter 8 inches, depth 70 feet. Land-surface datum is 109.10 feet above msl. Highest water level 2.77 below lsd, Mar. 23, 1942; lowest 12.98 below lsd, Oct. 3, 1953. Records available: 1940-55.

Feb. 1	7.87	Apr. 29	6.92	July 28	10.61	Oct. 31	5.56
27	6.74	June 2	8.25	Aug. 30	6.25	Dec. 1	6.65
Mar. 31	5.29	30	9.10	Sept. 29	8.57	28	7.98

Wilmington 78. Town of Wilmington. Whitefield School, Middlesex Ave. Lat. 42°34'01", long. 71°09'38". Dug observation well in sand, diameter 42 inches, depth 12 feet. Land-surface datum is about 80 feet above msl. Highest water level 4.90 below lsd, May 2, 1953; lowest 10.38 below lsd, Oct. 31, 1953. Records available: 1951-55.

Feb. 27	7.39	June 30	8.64	Sept. 29	8.22	Dec. 1	6.57
Mar. 31	6.32	July 28	9.39	Oct. 31	6.52	28	7.69
June 2	7.92	Aug. 30	7.02				

Winchester 4. Town of Winchester (test well AA). Royal and Pond Sts. Lat. 42°27'37", long. 71°09'05". Driven unused well in glacial drift, diameter 2½ inches, depth 22 feet. Land-surface datum is 43.97 feet above msl. Highest water level 6.67 below lsd, Apr. 3, 1948; lowest dry, Dec. 27, 1941. Records available: 1939-55. Well obstructed at 11 feet. Mar. 31, 9.80. Measurement discontinued.

Winchester 14. K. W. B. Cox. 224 Forest St. Lat. 42°28'18", long. 71°07'00". Dug unused water-table well in glacial drift, diameter 36 inches, depth 17 feet. Land-surface datum is 116.29 feet above msl. Highest water level 5.62 below lsd, Mar. 23, 1942; lowest 14.99 below lsd, Dec. 14, 1941. Records available: 1940-55.

Feb. 1	10.86	Apr. 29	9.61	July 28	12.27	Oct. 31	8.52
27	9.36	June 2	11.47	Aug. 30	7.33	Dec. 1	9.58
Mar. 31	7.68	30	11.43	Sept. 29	11.32	28	10.91

Winchester 18. T. N. Vinson. Ridge and High Sts. Near Winchester. Lat. 42°26'36", long. 71°10'26". Dug unused well in gravel, diameter 24 inches, depth 14 feet. Land-surface datum is 253.30 feet above msl. Highest water level 1.15 below lsd, Mar. 23, 1942; lowest dry several times, 1941-54. Records available: 1940-55.

Feb. 1	9.81	Apr. 29	7.78	July 28	11.55	Oct. 31	5.60
27	7.99	June 2	10.07	Aug. 30	3.93	Dec. 1	8.27
Mar. 31	4.54	30	11.24	Sept. 29	10.00	28	10.01

Woburn 3. New England Dressed Poultry Co. Ashburton Ave. and Boston & Maine RR. tracks. Near Woburn. Lat. 42°31'01", long. 71°09'18". Driven unused well in glacial drift, diameter 2½ inches, depth 20 feet. Land-surface datum is 72.58 feet above msl. Highest water level 0.71 above lsd, Mar. 23, 1942; lowest 2.41 below lsd, Aug. 16, 1941. Records available: 1939-53. No measurement made in 1955.

Woburn 4. Consolidated Chemical Industries, Inc. (well 10). Merrimac and New Boston Sts. Near Woburn. Lat. 42°31'11", long. 71°08'54". Driven unused well in glacial drift, diameter 2 inches, depth 25 feet. Land-surface datum is 68.15 feet above msl. Highest water level 1.21 above lsd, Dec. 30, 1954; lowest 2.57 below lsd, Sept. 26, 1939. Records available: 1939-55. Feb. 1, -1.04; Feb. 27, -1.32; Mar. 31, +0.96; Apr. 29, -0.07; June 2, -1.07; June 30, -1.52; July 28, -1.89. Measurement discontinued.

Woburn 5. Consolidated Chemical Industries, Inc. Merrimac and New Boston Sts. Near Woburn. Lat. 42°30'52", long. 71°08'42". Driven unused well in glacial drift, diameter 2½ inches, depth 32 feet. Land-surface datum is 59.55 feet above msl. Highest water level 0.32 above lsd, Oct. 1, 1954; lowest 1.00 below lsd, Sept. 19, 1939. Records available: 1939-54. No measurement made in 1955.

Woburn 17. J. D. Coakley. Montvale Ave. and Ingalls St. Near Woburn. Lat. 42°29'01", long. 71°08'12". Dug unused well in gravelly sand, diameter 6 feet, depth 11 feet. Land-surface datum is 180.75 feet above msl. Highest water level 3.75 below lsd, Aug. 20, 1955; lowest dry, Dec. 26, 1941. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	6.83	Apr. 29	5.07	Aug. 20	3.75	Dec. 1	4.20
27	5.28	June 2	7.02	Sept. 29	5.28	28	5.78
Mar. 31	4.81	July 28	6.80	Oct. 31	5.28		

Woburn 19. Tanner's Degreasing Co., Inc. Montvale Ave. and Albany St., East Woburn. Lat. 42°28'43", long. 71°07'09". Driven unused well in glacial drift, diameter 2½ inches, depth 70 feet. Land-surface datum is 38.65 feet above msl. Highest water level 4.69 below lsd, Dec. 31, 1951; lowest 15.10 below lsd, Oct. 3, 1953. Records available: 1940-55. Feb. 1, 7.08; Mar. 31, 8.60; Apr. 29, 9.39; June 2, 10.89; June 30, 11.90; July 28, 14.48. Measurement discontinued.

Woburn 23. F. H. Bowser. Main and Elm Sts. North Woburn. Lat. 42°30'03", long. 71°09'35". Driven unused well in sand and gravel, diameter 2½ inches, depth 25 feet. Land-surface datum is 95.77 feet above msl. Highest water level 0.53 below lsd, Mar. 1, 1945; lowest 3.10 below lsd, Sept. 27, 1941. Records available: 1940-54. No measurement made in 1955.

Woburn 38. City of Woburn. Woburn Parkway. Near Woburn. Lat. 42°27'57", long. 71°09'38". Driven unused well in glacial drift, diameter 2½ inches, depth 21 feet. Land-surface datum is 51.66 feet above msl. Highest water level 7.62 below lsd, Mar. 2, 1945; lowest 18.15 below lsd, Dec. 14, 1941. Records available: 1940-55.

Feb. 1	10.86	Apr. 29	9.21	July 28	11.24	Oct. 31	9.03
27	11.03	June 2	10.20	Aug. 30	8.48	Dec. 1	9.61
Mar. 31	9.74	30	10.69	Sept. 29	11.26	28	11.20

Woburn 49. Leo Pias. Locust St. and Cambridge Rd. Near Woburn. Lat. 42°28'28", long. 71°10'45". Driven unused well in gravel, diameter 6 inches, depth 12 feet. Land-surface datum is 63.25 feet above msl. Highest water level 2.00 above lsd, June 29, 1952, Mar. 28, May 2, 1953; lowest 4.25 below lsd, Dec. 5, 1941. Records available: 1940-55. Feb. 27, +1.09; Mar. 31, +1.47. Measurement discontinued.

Woburn 53. P. Flowers. Kilby and Hart Sts. Near Woburn. Lat. 42°29'11", long. 71°09'30". Dug unused well in glacial drift, diameter 4 feet, depth 12 feet. Land-surface datum is 105.96 feet above msl. Highest water level 7.93 below lsd, Mar. 23, 1942; lowest dry, Sept. 27, 1952. Records available: 1940-54. No measurement made in 1955.

Worcester County

Leominster 11. C. S. Pierce. Nashua St. and Boston & Maine RR. tracks. Near North Leominster. Lat. 42°31'55", long. 71°44'06". Dug unused water-table well in glacial drift, diameter 4 feet, depth 11 feet. Land-surface datum is 363.18 feet above msl. Highest water level 0.54 below lsd, Sept. 11, 1954; lowest 9.74 below lsd, Oct. 27, 1953. Records available: 1939-55. Recording gage removed Sept. 2.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h1.45	4.42	h1.77	2.04	1.74	4.54	4.56	7.10	h3.75	h3.78	....	....
2	1.08	4.48	1.24	2.13	2.04	4.52	4.62	7.18	....	....	....	....
3	1.15	4.52	2.00	2.25	2.22	4.63	4.01	7.27	....	....	....	h3.57
4	1.45	4.59	2.27	1.95	2.45	4.74	4.11	7.34	....	....	....	....
5	1.71	4.61	2.32	2.11	2.60	4.78	4.29	7.40	....	....	....	....
6	1.98	4.61	2.38	2.21	2.45	4.86	4.40	7.47	h4.25	....	....	....
7	1.99	3.05	2.13	2.01	2.67	4.96	4.21	7.53	....	....	....	....
8	2.42	3.44	2.29	2.26	2.81	5.03	4.34	7.60	....	....	....	....
9	2.50	3.61	2.39	2.46	2.90	5.07	4.55	7.66	....	....	....	....
10	2.63	3.66	1.63	2.51	3.04	5.13	4.71	7.73	....	....	....	....
11	2.77	3.64	1.39	2.62	3.19	5.23	4.88	7.77	....	....	....	....
12	2.91	3.04	1.71	2.76	3.35	5.05	5.07	7.81	....	....	....	....
13	2.97	3.23	1.57	2.84	3.50	3.95	5.25	7.83	....	....	....	....
14	3.06	3.33	1.79	2.86	3.47	3.73	5.38	7.82	....	....	....	....
15	3.24	3.43	1.88	2.85	3.63	3.86	5.52	7.78	....	....	....	....

Leominster 11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	3.35	3.56	1.24	2.96	3.75	4.02	5.65	7.69	....	....	....	....
17	3.44	3.64	1.51	3.03	3.84	4.18	5.14	7.61	....	....	....	....
18	3.54	3.41	1.79	3.08	3.91	4.34	5.23	7.52	....	....	....	....
19	3.64	3.02	2.02	3.11	4.00	4.49	5.86	7.23	....	....	....	....
20	3.72	3.01	2.17	3.11	4.14	4.61	5.98	3.96	....	....	....	....
21	3.84	3.11	2.23	3.16	4.26	4.64	6.10	3.80	....	....	....	....
22	3.90	3.14	2.10	3.15	4.36	4.06	6.23	3.86	....	....	....	....
23	3.91	3.14	1.09	2.88	4.45	4.05	6.34	3.51	....	....	....	....
24	4.01	2.47	1.20	2.98	4.53	4.13	6.43	3.16	....	....	....	....
25	4.04	2.60	1.31	1.62	4.61	3.65	6.54	3.31	....	....	....	....
26	4.08	2.74	1.46	1.26	4.57	3.73	6.62	3.46	....	....	....	....
27	4.09	2.81	1.15	1.19	4.58	3.90	6.72	3.31	....	....	....	....
28	4.16	2.55	1.48	1.50	4.64	4.04	6.80	3.13	....	....	....	....
29	4.23		1.83	1.02	4.72	4.20	6.87	3.37	....	....	....	....
30	4.30		1.96	1.36	4.81	4.20	6.96	3.58	....	h2.88	h3.27	....
31	4.38		2.04		4.89		h7.14	3.67	....	....		....

h Tape measurement.

Sterling 1. Nunzio Lanciani. Justice Hill and South Nelson Rds. Near Sterling. Lat. 42°28'05", long. 71°48'08". Dug unused well in glacial drift, diameter 24 inches, depth 15 feet. Land-surface datum is about 710 feet above msl. Highest water level 2.01 below lsd, May 21, 1954; lowest 13.51 below lsd, Oct. 23, 1953. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	3.07	Apr. 8	3.03	July 8	5.03	Oct. 7	3.46
14	3.32	15	3.05	15	6.25	14	4.02
21	3.62	22	3.07	22	6.75	21	3.06
28	3.77	29	2.87	27	7.54	28	3.18
Feb. 4	4.34	May 6	3.03	Aug. 5	8.74	Nov. 4	2.79
11	3.37	13	3.54	12	9.50	11	2.95
18	3.28	20	3.88	19	2.50	18	3.07
25	3.14	27	4.22	26	3.22	25	3.13
Mar. 4	3.04	June 3	4.46	Sept. 2	3.41	Dec. 2	3.24
11	3.01	10	5.13	9	4.57	9	3.22
18	3.04	17	4.10	16	5.44	16	3.32
25	3.02	24	3.32	23	6.28	23	3.98
Apr. 1	3.01	July 1	4.64	30	5.01	30	4.15

Winchendon 13. W. B. Hart. Forristall and Crosby Rds. Near Winchendon. Lat. 42°42'04", long. 72°01'52". Dug unused water-table well in glacial drift, diameter 24 inches, depth 12 feet. Land-surface datum is 1,209.36 feet above msl. Highest water level 1.86 below lsd, Mar. 20, 1948; lowest 12.95 below lsd, Nov. 22-24, 1953. Records available: 1939-55. Recording gage removed Sept. 8.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.60	e6.47	4.95	4.30	3.57	5.79	7.45	10.22	h10.43	....	....	....
2	3.67	....	4.75	4.08	3.73	5.41	7.60	10.28	10.38	....	....	....
3	3.57	....	h4.97	4.03	3.92	5.34	7.72	10.35	10.35	....	....	....
4	3.62	....	5.06	4.12	4.03	5.40	7.75	10.42	10.32	....	....	....
5	3.80	....	5.18	4.07	4.13	5.48	7.88	10.48	10.29	....	....	....
6	3.90	....	5.23	3.96	4.21	5.97	7.97	10.55	10.27	....	....	....
7	4.00	6.70	5.20	3.76	4.34	5.80	8.05	10.61	10.24	....	....	....
8	4.18	6.30	5.22	3.83	4.42	5.89	8.12	10.67	....	....	....	....
9	4.33	6.10	5.37	4.03	4.53	5.97	8.20	10.73	....	....	....	....
10	4.48	6.03	5.46	4.07	4.62	6.07	8.30	10.79	....	....	....	....
11	4.63	5.85	4.72	4.03	4.71	6.21	8.40	10.84	....	....	....	....
12	4.75	....	4.66	4.01	4.82	6.28	8.54	10.88	....	....	....	....
13	4.82	....	4.55	4.01	4.90	6.06	8.64	10.91	....	....	....	....
14	4.96	....	4.60	4.00	4.95	5.99	8.74	10.96	....	....	....	....
15	5.07	....	4.68	3.84	4.98	6.00	8.84	11.01	....	....	....	....
16	5.19	....	4.45	3.78	5.04	6.11	8.94	11.05	....	....	....	....
17	5.30	....	4.35	3.87	5.13	6.30	9.03	11.09	....	....	....	....
18	5.42	....	4.40	3.90	5.19	6.44	9.12	11.12	....	....	....	....
19	5.52	....	4.66	4.05	5.26	6.58	9.23	11.13	....	....	....	....
20	5.62	....	4.83	4.03	5.42	6.71	9.30	11.16	....	....	....	....
21	5.75	....	4.95	4.05	5.54	6.81	9.38	11.17	....	....	....	....
22	5.80	5.00	4.98	4.10	5.66	6.91	9.47	11.17	....	....	....	....
23	5.90	5.17	5.00	4.11	5.74	6.82	9.55	11.13	....	....	....	....
24	6.00	5.12	5.12	4.23	5.82	6.86	9.63	11.06	....	....	....	....
25	6.05	5.10	5.18	4.05	5.92	6.85	9.71	10.98	....	....	....	....

Winchendon 13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	6.13	5.18	5.14	3.39	5.98	6.85	9.80	10.89	.....	.....	.....	.....
27	6.15	5.21	5.04	3.04	6.03	6.95	9.87	10.81	.....	.....	.....	.....
28	6.26	5.23	5.05	3.25	6.05	7.08	9.94	10.72	h10.70	.....	.....	.....
29	e6.34		5.06	3.23	6.10	7.20	10.00	10.64	.....	.....	.....	.....
30	e6.43		5.09	3.35	6.15	7.35	10.08	10.57	.....	h5.80	h4.01	h6.18
31	h6.53		4.75		6.18		10.15	10.45	.....	.....	.....	.....

e Estimated.

h Tape measurement.

MICHIGAN

By P. R. Giroux and J. G. Rulison

Scope of Water-Level Program

The observation-well program was continued in 1955 by the U. S. Geological Survey in cooperation with the State Water Resources Commission and the Geological Survey Division of the State Department of Conservation. A network of observation wells was maintained to provide basic data on changes in storage of principal ground-water reservoirs. Measurements of ground-water levels were made in 297 wells, 16 of which were equipped with recording gages. Records of 148 of the wells are included in this report. The data were selected for publication on the basis of best representation in terms of areal coverage, usefulness, and length of record. Water-level records omitted will be published in project or special reports from time to time. Figure 13 shows the location of wells whose records are listed in this report. A report entitled "Ground-water resources of southeastern Oakland County, Mich.," by J. G. Ferris, E. M. Burt, G. J. Stramel, and E. G. Crosthwaite, was published in 1954 as Progress Report 16 by the Geological Survey Division of the State Department of Conservation.

Observations of ground-water temperature were continued in 1955. Sampling of ground and surface water for chemical analysis was continued in order to determine the distribution and trends in water quality and to study correlation between ground and surface water. The chemical analyses were made by the State Department of Health and by the U. S. Geological Survey.

Precipitation and Temperature

Statewide precipitation in 1955, as reported by the U. S. Weather Bureau, was 28.46 inches, 2.23 inches below average. Although totals varied widely, ranging locally from a deficiency of 10 inches to an excess of more than 10 inches, precipitation over most of the State was considerably below average, deficiencies being especially large in the northern half of the Southern Peninsula. Precipitation was well above local average only in the extreme northwestern part of the Northern Peninsula and in the extreme southwestern corner of the Southern Peninsula.

The Statewide annual mean of 46.6°F, 2.0° above average, marked the fourth consecutive year of above-average temperatures. Monthly departures ranged from 7.6° above average in April to 2.7° below average in November. Temperatures were below average only in March, November, and December.

Precipitation and temperature figures in this report are based on averages from beginning of record through 1950. The figures for the cities of Lansing and Sault Ste. Marie are based on records from 1921 through 1950.

Pumpage

Trends of ground-water withdrawal in the metropolitan areas where water-level observations are made are discussed under the appropriate county headings. Generally, withdrawals of ground water were considerably larger than in 1954 and, in many places, exceeded the record-high pumpages of 1953. Exceptionally warm weather in the spring and summer caused greatly increased demands on ground-water supplies for lawn sprinkling, air conditioning, and other cooling. Some municipalities restricted lawn sprinkling when facilities proved inadequate to meet the increased demand.

In addition to an increase in the rate of pumping throughout most of the State, there has been an upward trend in water use in the urban and suburban areas from year to year. This trend may be attributed to rapid growth in population of metropolitan centers, installation of new facilities to serve the numerous subdivisions surrounding the urban areas, and the increase in per capita demand brought about by widespread utilization of modern water-using appliances.

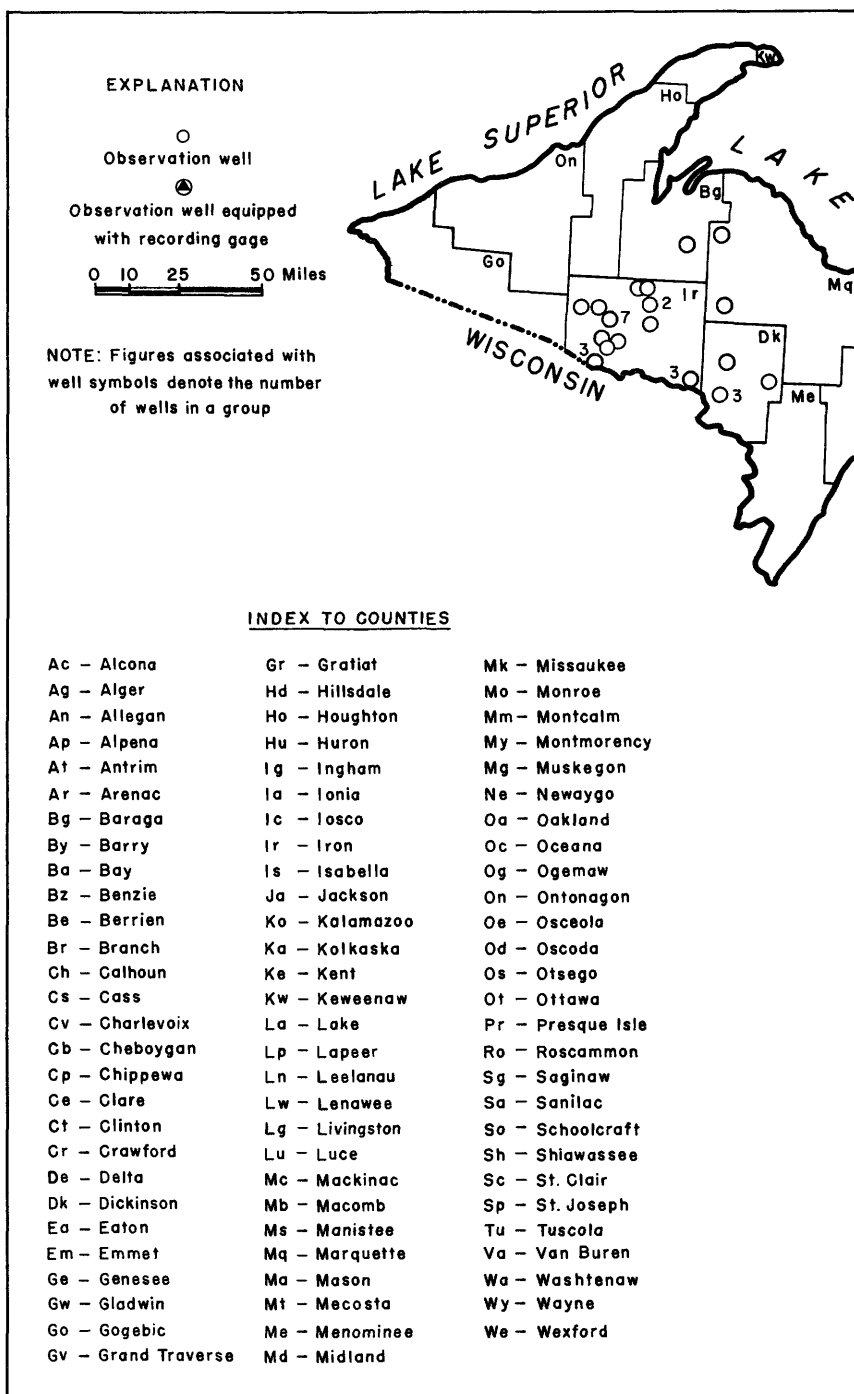
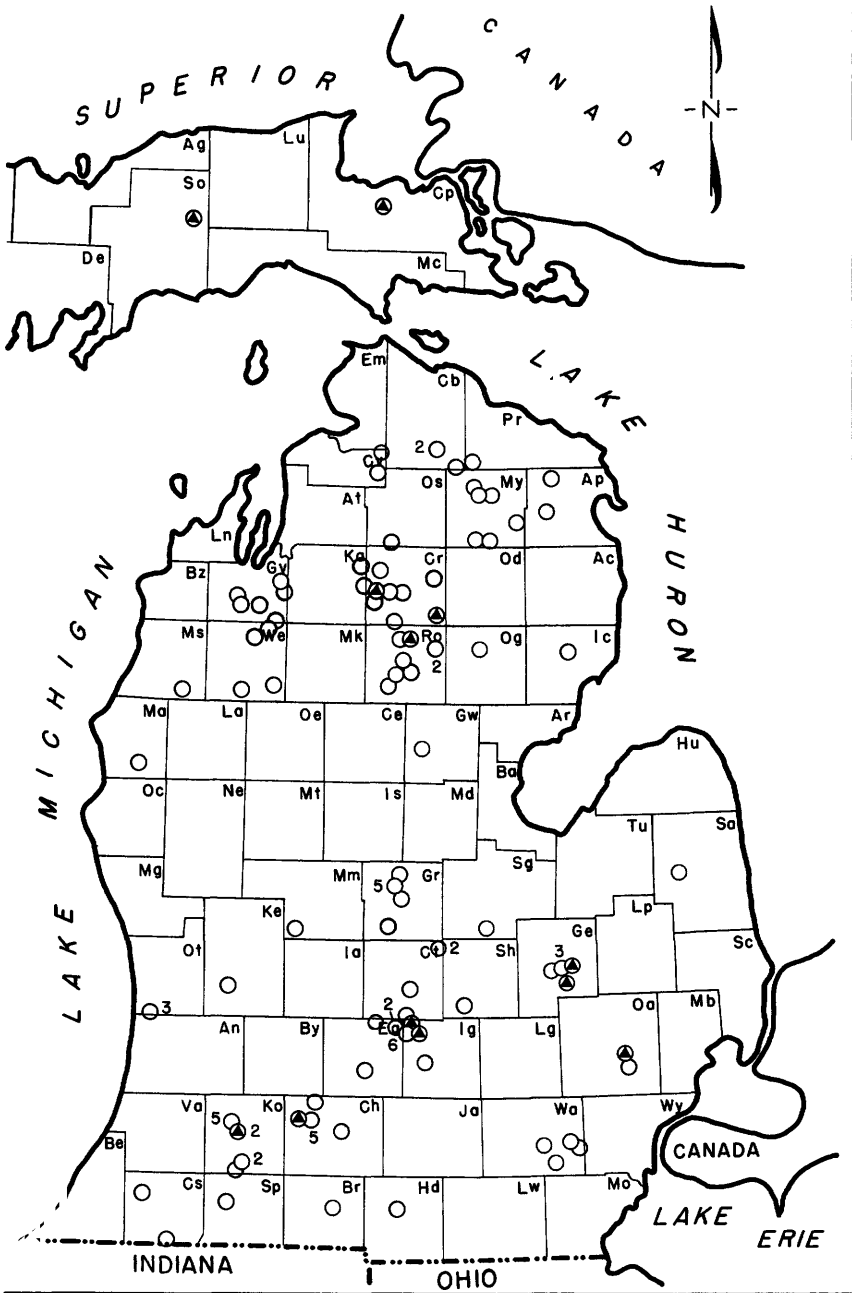


Figure 13. -- Location of observation



wells in Michigan, 1955.

Interpretation of Water-Level Fluctuations

Summary. --In the southern half of the Southern Peninsula, spring thaws, combined with 2 to 3 inches of precipitation, resulted in recharge to the principal aquifers during March. However, the seasonal rise of water levels was halted by large evapotranspiration demands brought about by record-high temperatures in April. The following seasonal decline in water levels was greatly intensified by deficient precipitation and by large evapotranspiration demands because of the very warm weather in July and August. Sharp rises in stage followed an excess of precipitation in October. Seasonal recharge in November and December was impeded by freezing temperatures. In most wells, year-end levels were considerably below those of 1954. Many record and near-record lows were observed during the latter part of the year. This decline was a continuation of a trend which has persisted since early 1952 in most of the area because of deficient rainfall and above-average temperatures.

In the northern half of the Southern Peninsula, ground-water levels in the shallow drift aquifers, which are a principal source for water supply in the area, declined from the record-high stages observed during the summer of 1954 to record and near-record lows by the fall of 1955. The sharp decline in water levels resulted from above-average temperatures and drought conditions during the summer. Year-end levels in 30 shallow drift wells throughout the area were, on the average, 1.3 feet lower than at the end of 1954.

In the Northern Peninsula, ground-water levels in 1955 were at the lowest stages observed since the record highs of 1951. This decline resulted from unusually warm weather accompanied by high rates of evapotranspiration and an early start of the growing season, in addition to cumulative deficiencies in precipitation since 1951. Despite the persistent trend of declining stage since 1951, water levels in the western half of the Northern Peninsula were at or near average for the 7- to 10-year period of record for most observation wells. In the eastern part of the peninsula, water levels were below the average of the past 3 years of record.

Southern Peninsula (Southern Half)

Branch County, City of Coldwater. --The observation well in Coldwater, finished in the glacial drift, reflects withdrawals of ground water by municipal wells tapping the drift deposits. Winter water levels were the highest since 1952, reflecting recharge from intense rains during the fall of 1954 and abundant recharge during the winter. However, a decline began in March and continued until late September, caused largely by increased municipal pumping as a result of near-record high temperatures during the spring and summer. September levels were the lowest observed for that month since the beginning of record in 1950. In October and November, there was considerable recovery in response to a total of more than 8.5 inches of precipitation and a decrease in the rate of pumping. Year-end levels were within a foot of those observed at the end of 1954 and only half a foot below the average of the past 6 years. Total municipal ground-water withdrawals, slightly higher than in 1954, ranged from 0.89 mgd (million gallons per day) in January to 1.86 mgd in July, averaging 1.24 mgd for the year.

Calhoun County, City of Battle Creek. --Most observation wells and municipal and industrial wells in the Battle Creek area tap the Marshall formation of Mississippian age, but a few are finished in the overlying glacial drift. Precipitation, more than 4 inches below average for the year, was deficient in all months except October and November. Water levels in most wells reached their highest stage for the year during March and April after a period of decreased pumping and near-normal spring recharge to the aquifers. However, temperatures in the spring and summer were above average, and precipitation was deficient. Because of increase in evapotranspiration and pumping during the summer, levels dropped to record and near-record lows by September. Water levels rose sharply in October and November in response to almost 9 inches of rain coupled with decreased pumping. Year-end levels in the Marshall formation recovered to within a foot of those observed at the end of 1954. Wells finished in the overlying glacial drift were about 0.8 foot below the average 1954 year-end levels. Total municipal withdrawals of ground water, greater than in 1954, were the second highest of record. Average pumpage ranged from 5.1 mgd in December to 10.4 mgd in August. The yearly average was 6.9 mgd.

Cass County, City of Dowagiac. --The observation well in Dowagiac, finished in the glacial drift, is affected by municipal pumping from the drift. Unusually warm weather in July and August and an attendant increase in pumping caused a decline in the water level from the spring high in March to the low for the year in August. The highest levels for the year were recorded in October when more than 8 inches of rain fell. Water levels rose rapidly toward the end of the year, reaching the highest stages since the spring of 1952. Withdrawals of ground water for municipal use averaged 680,000 gpd (gallons per day) for the year. During July and August the average pumping exceeded 1 mgd.

Eaton County, City of Grand Ledge. --The observation well in Grand Ledge is finished in the Saginaw formation of Pennsylvanian age, the same aquifer tapped for municipal supply. Water levels rose until late June, but above-average temperatures and increased municipal withdrawals in July and August started a decline which continued to the end of the year. Year-end levels, however, were slightly higher than those observed at the end of 1954 and about a foot higher than at the end of 1953. Average municipal withdrawals of ground water were about 450,000 gpd for the year.

Genesee County, Flint metropolitan area. --The city of Flint obtains its municipal supply from the Flint River. However, many industries in the area, Burton Township to the south, and the Beecher Metropolitan Water District to the north obtain water from the Saginaw formation. Precipitation during the year was about 6 inches below average, about 5.5 inches of this deficiency being in the period from April through July. In addition, hot weather prevailed in the spring and summer. As a result, water levels in the late summer fell to the lowest stages observed in the past decade. A total of 6 inches of rain in October and November caused sharp rises in water levels. By the end of the year, stages in a few wells in the Saginaw formation showed net gains over the year-end stages of 1954. However, stages in wells finished in drift and in a few of the wells tapping the Saginaw formation were below those at the end of 1954. Municipal withdrawals of ground water from the Saginaw formation by Beecher Metropolitan Water District and Burton Township averaged about 450,000 and 370,000 gpd, respectively, for the year.

Gratiot County, City of Alma. --Observation wells in the Alma area are finished in the surficial or in the buried outwash aquifers. Municipal and industrial wells tap the buried outwash. One municipal well obtains water from the Saginaw formation. Year-end levels in the buried outwash varied because of changes in municipal pumping patterns. Net losses in the more heavily pumped area were offset by gains in other areas so that year-end averages were essentially the same as at the end of 1954. No significant changes of level occurred in the shallow drift. Conditions for recharge of the ground-water reservoirs were especially favorable in May when about 5 inches of rain fell and again in October and November when precipitation was well above average. Municipal pumpage in 1955 averaged 1.8 mgd; in 1954 the average was 1.43 mgd. In addition to the appreciable increase in municipal withdrawal of ground water, one of the major industries pumped an average of about 600,000 gpd.

Ingham County, Lansing metropolitan area. --The Saginaw formation of Pennsylvanian age is the principal source of water for municipal and industrial supply wells in the area, although a few wells derive small quantities from the overlying glacial drift. Water levels rose during the winter and early spring because of the seasonal decrease in pumping. Record-high temperatures in April and a total deficiency of about 3.5 inches of precipitation for April and May, combined with an increase in pumping, effectively halted the usual seasonal rise. Water levels began to fall seasonally in the late spring. They declined sharply as a result of above-average summer temperatures which caused increases in evapotranspiration and heavier municipal withdrawals of ground water. Record lows were observed in many wells from late summer to the end of the year. Net annual declines in stage averaged about 2.6 feet in the heavily pumped areas. In areas of light pumping and in the drift, declines averaged only about 0.3 foot. Averages based on monthly totals indicate that withdrawals of ground water by Lansing, East Lansing, Landel Metropolitan District, Lansing Township, Meridian Township, and Michigan State University were 23.3 mgd for the year, ranging from 20.7 mgd in January to 26.9 mgd in August. Total annual pumpage of 8.4 billion gallons, a record high for the area, was 7 percent greater than in 1954 and about 2.5 percent more than in 1953, the previous high year. On November 1, the city of Lansing purchased the Landel Metropolitan District, except for the west side district, which reverted to Lansing Township.

City of Mason. --The observation well in Mason, finished in the Saginaw formation underlying the glacial drift, reflects withdrawals of ground water from the Saginaw by industrial wells in the area. The municipal supply is derived from the glacial drift. The lowest water levels of record in the Saginaw formation were reached in the period May to September as a result of a combination of high temperatures during the spring and summer, increased industrial pumping, and large deficiencies of precipitation in April, May, and September. However, year-end levels were higher than those at the end of 1954 because of abundant precipitation in October and November. Average municipal withdrawals of ground water from the drift were 350,000 gpd, which was substantially the same as in 1954.

Kalamazoo County, City of Kalamazoo. --Observation wells in the area are finished in glacial drift, as are all municipal and industrial wells. Temperatures reached record or near-record highs in April, July, and August and were above average in all other months except June, November, and December. Precipitation in 1955 was about 2 inches below average. The general decline in water levels since 1952 was accelerated by adverse climatic conditions and increased pumping. By late summer, ground-water levels reached the lowest stages observed since the fall of 1946. However, about 9.5 inches of precipitation fell in October and November, and average year-end stages recovered to within 0.7 foot of the levels observed at the end of 1954. Total pumpage for the city of Kalamazoo and Millwood Community, at the south edge of the city, was 4.0 billion gallons for 1955. Pumpage ranged from 8.0 mgd in January to 17.2 mgd in August. Millwood Community was incorporated into the city of Kalamazoo in November, and the Millwood water system is now tied into the Kalamazoo municipal facilities.

Oakland County, City of Pontiac. --The observation well in Pontiac is finished in the glacial drift, as are the municipal and most industrial wells in the area. Large deficiencies of precipitation and above-average temperatures in the spring and summer contributed to the decline of water levels from January to August. Water levels, at a record low in August, continued the declining trend until fall. In response to a total of 7 inches of rain in October and November, year-end water levels recovered to within a foot of those observed at the end of 1954. Municipal pumpage was less than in 1954, averaging 12.3 mgd. Minimum pumpage of 9.7 mgd was recorded in December and a maximum of 15.2 mgd in July.

Southern Peninsula (Northern Half)

Roscommon County. --In the northern half of the Southern Peninsula, well RoHg 1 near Roscommon is used as an index of trends of ground-water level in the shallow drift aquifers. Figure 14 shows the fluctuations of water level in the well along with daily precipitation and the range of air temperature. Deficiencies of precipitation in January and February, followed by thawing in mid-March and above-average rainfall in the latter part of March, resulted in sharp rises in stage. The seasonal rise in April was small, however, and a decline started late in the month when record-high temperatures induced an early growing season and large evapotranspiration demands. Temperatures, 5.7° above average, prevailed from April through September. A cumulative deficiency of 9.7 inches in total precipitation during this period was recorded at Grayling. Average precipitation during the rest of the year halted the decline but brought little seasonal recovery because of the necessity of satisfying depleted soil-moisture requirements. Some recharge resulted from a storm on November 23, but the freezing temperatures which continued throughout most of the remainder of the year effectively impeded recharge. Year-end water levels approached record lows in the index well. A total deficiency of about 9.3 inches of precipitation was recorded at Grayling Military Reservation in 1955.

Northern Peninsula

Menominee River Basin. --Observations of stage in water-table wells were made by the Wisconsin-Michigan Power Co., and a few measurements were made by the State Department of Conservation and the U. S. Geological Survey. Water levels, reflecting changes in natural storage in the basin, are not affected by industrial or municipal pumping. During January and February, ground-water levels continued the seasonal decline which began in November and December 1954. Water levels rose after the thawing of the snow cover in late March but started to decline when near-record high temperatures in April and May caused an early growing season. The decline of water level was accelerated by above-average temperatures and deficient precipitation during the summer. Much of the summer rain was in the form of storms of high intensity, resulting in rapid runoff and limited infiltration to the water table. Water levels rose in late September and in October as a result of more than 4 inches of precipitation. The seasonal decline which began in November continued to the end of the year. Year-end levels, about 1.5 feet below those of 1954, were at the lowest stages of the past several years, but near the average for the period of record.

Chippewa County. --Well CpSp 59 near Raco is finished in glacial drift. The seasonal decline that continued from late November 1954 to early April 1955 ended when warm rainfall caused melting of most of the snow cover and a consequent sharp rise in levels. Water levels continued to rise until May. However, above-average temperatures in May, which induced an early start of the growing season at a time of deficient precipitation, caused a reversal of the upward trend. Record-high summer temperatures accelerated the decline in water levels. The downtrend in water levels continued because precipitation was deficient during the fall and very cold weather in November and December impeded recharge. By the end of 1955, a net decline of 3 feet was recorded.

Schoolcraft County. --Well SoGe 112 near Germfask is finished in the Richmond group, which is composed of shales and limestones of Ordovician age. Water levels in the observation well reflect changes in artesian pressure in the upper part of the Richmond group. Water levels rose during the late winter and then declined from early April to the end of September, when new record lows were reached. The seasonal decline, greater than usual, resulted from monthly deficiencies of precipitation from January to July. In addition, temperatures in April, May, July, and August were well above average. Much of the precipitation in August fell in the form of severe storms, resulting in high runoff and little recharge to the underlying aquifer. The uptrend of water levels that began in October, aided by an excess of precipitation and mild weather, continued until the end of the year. However, the rise was not enough to offset earlier losses, and the year-end water level in the well was the lowest of the 4-year period of record.

Well-Numbering System

Wells in Michigan are numbered according to the county and city or township in which they are situated. The first segment of the well number consists of an upper and a lowercase letter indicating the county in which the well is situated. The second segment indicates the city or civil township. Uppercase letters in the second segment denote cities, villages, or towns. An uppercase letter followed by a lowercase letter is used for the township designation. The abbreviation W. M. P. refers to Wisconsin-Michigan Power Co.

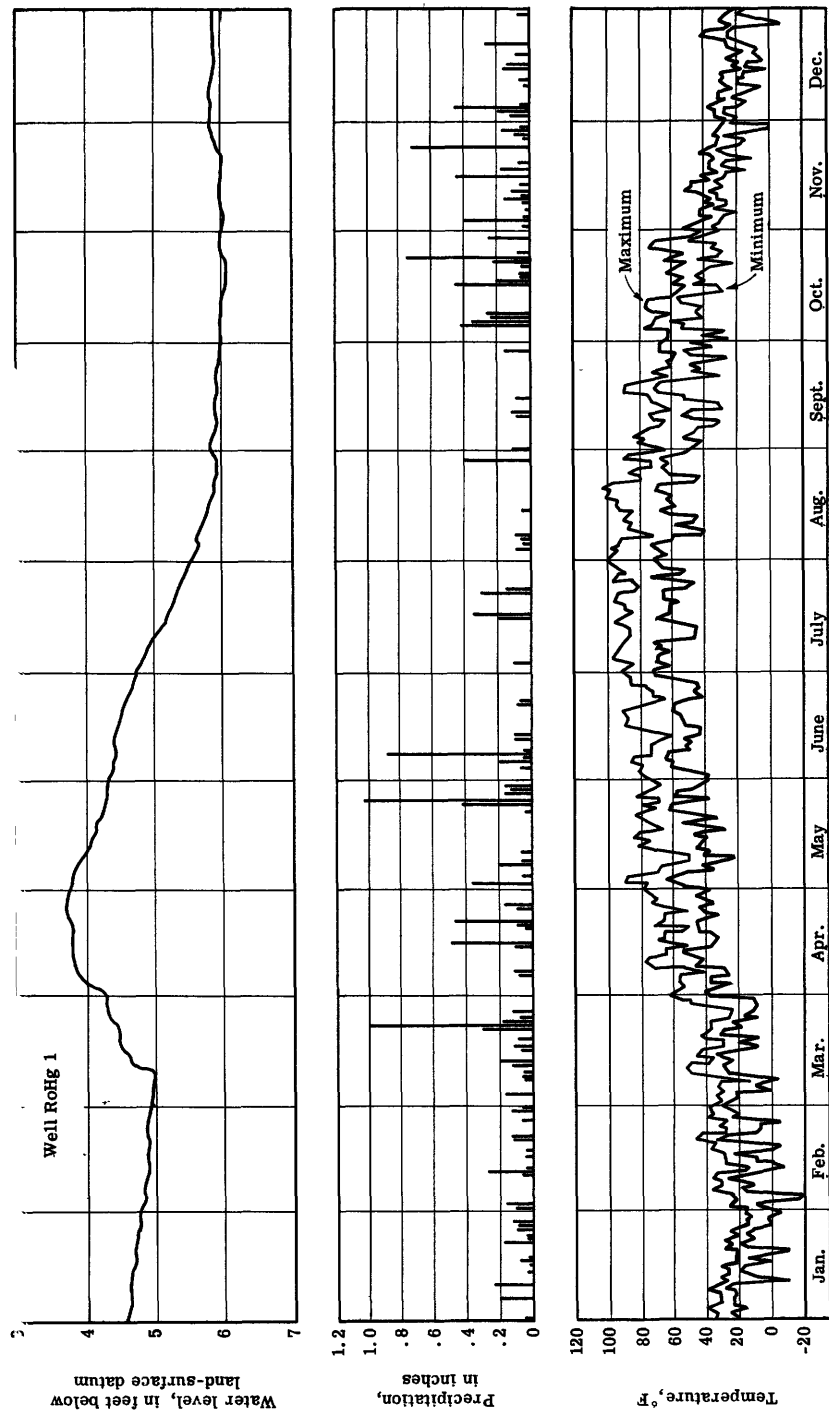


Figure 14. -- Water level in well RoHg 1 and daily precipitation and daily maximum and minimum temperatures at Grayling Mich., 1955.

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 are below the plane of reference, a plus (+) or minus (-) sign is placed immediately before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference and those between minus signs are below the plane of reference.

Alpena County

Green Township

ApGn 1. Robert E. James. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 30 N., R. 6 E. Dug unused water-table well in deposits of Pleistocene age, diameter 18 inches, depth 19 feet, cribbed with rock to open bottom. Highest water level 0.90 below lsd, Apr. 13, 1952; lowest 9.52 below lsd, Dec. 11-15, 1949. Records available: 1948-55. Jan. 12, 3.05; Apr. 15, 2.60; July 13, 5.23; Oct. 12, 7.17.

Long Rapids Township

ApLr 1. Harlo Mellon. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 32 N., R. 6 E. Drilled stock artesian well in Thunder Bay limestone, diameter 6 inches, depth 53 feet. Highest water level 5.46 below lsd, Apr. 15, 1955; lowest 16.67 below lsd, Nov. 12, 1948. Records available: 1948-55. Jan. 12, 6.93; Apr. 15, 5.46; July 13, 22.80, pumped recently.

Baraga County

Covington Township

BgCv 1. W. M. P. No. 14. State Highway Dept. U. S. Highway 41. Near Nestoria. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 48 N., R. 32 W. Driven observation water-table well in sand and gravel, diameter $1\frac{1}{4}$ inches, depth 10 feet, screen 7-10. Highest water level 4.19 below lsd, May 3, 1951; lowest 6.72 below lsd, Mar. 15, 1949. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	5.23	Apr. 29	4.85	Aug. 2	5.17	Nov. 1	4.95
Feb. 1	5.35	May 31	4.82	Sept. 2	5.21	Dec. 2	5.26
28	5.34	July 6	5.20	Oct. 3	5.08	30	5.41
Mar. 30	5.43						

Branch County

City of Coldwater

BrcW3. City of Coldwater. Park Ave. and Bennett St., Coldwater. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 8 to 6 inches, depth 130 feet, screen 80-130. Highest water level 10.08 below lsd, Apr. 8, 1950; lowest 16.67 below lsd, Jan. 15, 1954. Records available: 1949-55. Measurement made by Board of Public Works.

Jan. 7	12.27	Apr. 1	13.18	June 24	14.77	Sept. 30	15.57
14	13.30	8	13.39	July 1	14.90	Oct. 7	15.36
21	12.39	15	13.47	8	14.03	14	15.28
28	12.56	22	13.54	15	15.36	21	15.23
Feb. 4	12.65	29	13.64	29	15.16	29	14.07
11	14.02	May 6	13.83	Aug. 5	15.36	Nov. 5	15.05
18	14.14	13	13.90	17	15.30	13	14.95
25	13.74	20	14.29	25	15.35	19	14.94
Mar. 4	12.14	27	14.25	Sept. 2	15.37	26	14.82
11	13.18	June 4	14.34	9	15.65	Dec. 3	13.87
18	13.24	12	14.16	15	15.81	10	14.37
25	13.19	19	13.36	23	15.99	27	15.12

Calhoun County

City of Battle Creek

ChBC 160. Post Products Corp. Angell and Lafayette Sts. Drilled unused artesian well in Marshall formation, diameter 10 inches, depth 92 feet, cased to 45. Land-surface datum is 818.99 feet above msl. Highest water level 4.75 below lsd, Apr. 9, 1947; lowest 9.53 below lsd, Sept. 4, 1953. Records available: 1946-55.

ChBC 160--Continued.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.99	7.29	6.89	6.86	....	7.84	8.09	8.43	8.77	9.03	8.58	....
2	6.93	7.39	6.93	6.91	....	7.99	8.08	8.57	8.78	8.93	8.64	8.38
3	6.87	7.46	6.89	6.88	....	7.96	8.01	8.61	8.77	8.88	8.45	8.40
4	6.85	7.50	6.83	6.88	7.58	7.98	7.99	8.64	8.69	8.98	8.29	8.26
5	6.85	7.48	6.83	6.96	7.49	7.94	7.98	8.67	8.65	9.03	....	8.19
6	6.68	7.45	6.74	7.02	7.54	7.91	8.13	8.66	8.64	8.65	....	8.24
7	6.62	7.45	....	7.08	7.52	7.92	8.16	8.46	8.78	8.43	....	8.25
8	6.54	7.54	....	7.14	7.52	7.79	8.16	8.41	8.99	8.24	....	8.20
9	....	7.59	....	7.15	7.51	7.76	7.99	8.50	8.87	8.13	8.30	8.24
10	....	7.58	7.05	7.11	7.58	7.77	7.93	8.59	8.91	8.09	8.22	8.27
11	....	7.61	6.95	7.10	7.62	7.73	7.91	8.78	8.85	8.18	8.29	8.25
12	6.66	7.63	6.97	7.20	7.68	7.47	8.07	8.64	8.80	8.21	8.36	8.17
13	6.63	....	6.95	7.23	7.71	7.41	8.14	8.66	8.92	....	8.27	8.30
14	6.71	....	6.91	7.27	7.74	7.46	8.31	8.60	8.93	8.40	8.21	8.35
15	6.70	....	6.95	7.33	7.72	7.51	8.23	8.52	8.95	8.31	8.32	8.37
16	6.75	7.78	6.98	7.34	7.65	7.62	8.15	8.65	9.11	8.25	8.15	8.43
17	6.78	7.58	7.04	7.28	7.81	7.67	8.08	8.75	9.05	8.19	8.06	8.39
18	6.89	7.60	7.01	7.23	7.85	7.71	8.06	8.73	8.96	8.34	8.09	8.38
19	6.91	7.60	7.09	7.28	7.88	7.65	8.18	8.78	8.93	8.40	8.05	8.37
20	7.00	7.43	7.00	7.33	7.93	7.65	8.24	8.80	9.05	8.40	8.02	8.50
21	6.98	7.24	6.91	7.34	7.94	7.79	8.33	8.74	9.08	8.47	8.01	8.57
22	6.99	7.23	6.92	7.37	7.92	7.84	8.36	8.73	8.98	8.53	8.07	8.57
23	7.01	7.24	6.92	7.39	7.84	7.91	8.38	8.83	9.01	8.41	8.08	8.64
24	7.02	7.18	6.84	7.30	7.95	7.98	8.33	8.86	8.98	8.36	8.16	8.49
25	7.07	7.17	6.80	7.16	7.99	7.98	8.30	8.87	8.90	8.52	....	8.45
26	7.16	7.12	6.75	7.24	7.97	7.95	8.40	8.89	8.84	8.53	....	8.41
27	7.20	7.03	6.71	7.25	7.99	7.92	8.46	8.88	8.91	8.57	....	8.36
28	7.23	6.90	6.66	7.27	8.03	8.05	8.50	8.79	8.93	8.57	....	8.47
29	7.28	....	6.75	....	7.73	8.10	8.49	6.73	9.13	8.57	....	8.50
30	7.27	....	6.80	....	7.67	8.17	8.51	8.82	9.04	8.49	....	8.57
31	7.27	....	6.85	....	7.68	....	8.45	8.76	....	8.45	....	8.53

City of Marshall

ChMA 2. City of Marshall. East Michigan Ave. and East Dr. Drilled unused artesian well in Marshall formation, diameter 6 inches, depth 59 feet. Land-surface datum is about 904.85 feet above msl. Highest water level 5.46 below lsd, May 9, 1950; lowest 9.36 below lsd, Sept. 19, 1955. Records available: 1950-55. June 15, 8.68; Sept. 19, 9.36; Dec. 14, 9.23.

Battle Creek Township

ChBc 137. City of Battle Creek. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 2 S., R. 8 W. Drilled unused artesian well in sand of Pleistocene age, diameter 26 inches, depth 89 feet, screen 49-89. Land-surface datum is 914.97 feet above msl. Highest water level 6.22 below lsd, May 29, 1950; lowest 12.86 below lsd, Oct. 18, 1946. Records available: 1945-55. Apr. 19, 7.64; June 15, 7.32; Sept. 19, 8.59; Dec. 14, 8.62.

Emmett Township

ChEm 10. C. W. Cronkhite. 1302 E. Michigan Ave. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 2 S., R. 7 W. Drilled unused artesian well in Marshall formation, diameter 6 inches, depth 84 feet. Land-surface datum is 884.94 feet above msl. Highest water level 11.42 below lsd, May 29, 1950; lowest 15.54 below lsd, Mar. 7, 1947. Records available: 1946-53. No measurement made in 1955.

ChEm 60. City of Battle Creek. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 2 S., R. 7 W. Drilled unused artesian well in Marshall formation, diameter 2 inches, depth 87 feet, cased to 56. Land-surface datum is 832.49 feet above msl. Highest water level 0.22 above lsd, May 22, 1947; lowest 3.24 below lsd, Sept. 21, 1949. Records available: 1945-55. Apr. 19, 0.95; June 15, 1.45; Sept. 19, 2.61; Dec. 14, 1.53.

Pennfield Township

ChPf 1. City of Battle Creek. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 1 S., R. 7 W. Drilled unused artesian well in Marshall formation, diameter 8 inches, depth 127 feet, cased to 103. Land-surface datum is 830.79 feet above msl. Highest water level 0.7 below lsd, Apr. 26-27, 1950; lowest 12.75 below lsd, Aug. 5, 1955. Records available: 1939-55. Measurement made by Water Dept.

ChPf 1--Continued.

Day	Tape measurements											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.04	5.80	5.93	5.85	5.50	7.84	10.24	11.90	10.08	....	....	....
2	4.95	6.62	6.53	6.00	7.50	8.03	9.18	9.65	8.67	....	....	....
3	6.20	6.65	5.85	5.10	6.60	8.15	7.65	12.55	9.50	....	....	....
4	5.75	6.87	6.12	6.80	7.10	8.50	8.70	12.53	....	....	....	....
5	6.12	6.50	6.72	6.42	7.28	8.00	8.10	12.75	....	....	....	....
6	5.68	6.62	5.85	5.93	7.70	9.63	9.90	9.51	....	....	....	....
7	5.12	6.41	5.62	5.80	8.10	8.80	9.10	8.26	....	....	....	....
8	5.51	5.91	6.51	5.78	5.65	8.61	8.50	8.54	....	....	....	....
9	5.56	6.31	7.33	6.20	7.57	7.40	6.98	8.85	....	....	....	....
10	4.94	6.83	5.61	4.85	7.35	6.60	8.19	9.53	....	....	....	....
11	5.70	6.53	5.85	5.60	6.90	6.78	9.16	9.37	....	....	....	....
12	5.48	6.01	5.62	6.69	....	6.73	8.44	10.30	....	....	....	....
13	5.88	6.04	6.30	5.83	7.90	7.24	10.19	9.32	....	....	....	....
14	5.63	5.93	5.35	6.58	8.02	6.40	10.20	9.23	....	....	....	7.53
15	5.45	7.02	5.36	6.15	7.00	8.38	8.87	9.87	....	....	....	....
16	5.80	6.12	5.30	7.04	....	6.90	8.45	8.96	....	....	....	....
17	5.21	6.42	5.75	5.55	7.56	9.26	9.40	10.60	....	....	....	....
18	5.57	6.03	5.31	6.82	9.83	7.65	9.85	10.40	....	....	....	....
19	5.50	7.07	5.70	7.20	7.53	7.65	10.80	11.73	11.84	....	....	....
20	5.14	6.26	5.37	5.52	10.33	9.40	11.07	8.80	....	....	....	....
21	6.00	5.83	5.32	7.00	10.25	8.56	....	11.63	....	....	....	....
22	5.33	6.05	5.00	6.25	7.75	8.40	11.30	10.25	....	....	....	....
23	6.75	6.48	5.47	6.25	8.85	8.31	10.20	10.80	....	....	....	....
24	5.60	6.87	5.39	5.37	8.30	9.55	8.45	10.93	....	....	....	....
25	6.00	6.28	5.50	6.45	8.15	8.14	11.42	9.54	....	....	....	....
26	5.22	6.35	5.04	6.03	7.45	9.00	10.95	10.85	....	....	....	....
27	5.89	5.46	6.12	6.17	7.65	9.08	10.41	10.35	....	....	....	....
28	5.56	6.25	6.23	6.15	7.75	10.92	10.41	8.95	....	....	....	....
29	5.67	....	6.00	5.31	6.47	11.11	10.38	9.45	....	....	....	....
30	5.97	....	5.60	6.10	5.37	9.25	9.10	9.24	....	....	....	....
31	6.00	....	4.93	....	7.65	....	10.85	8.15	....	....	....	....

ChPf 58. City of Battle Creek. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 1 S., R. 7 W. Drilled unused artesian well in Marshall formation, diameter 2 inches, depth 140 feet, cased to 83. Land-surface datum is 838.92 feet above msl. Highest water level 0.08 above lsd, May 23, 1950; lowest 4.65 below lsd, Sept. 19, 1955. Records available: 1945-55. Apr. 19, 2.27; June 15, 2.95; Sept. 19, 4.65; Dec. 14, 3.85.

ChPf 102. Kenneth N. Sabin. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 1 S., R. 7 W. Dug stock water-table well in deposits of Pleistocene age, diameter 15 inches, depth 8 feet. Land-surface datum is 907.99 feet above msl. Highest water level 0.89 below lsd, Mar. 28, 1950; lowest 5.90 below lsd, Jan. 27, 1954. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	4.98	Apr. 6	4.39	July 6	4.26	Oct. 5	5.09
12	4.43	13	3.81	13	4.37	12	4.89
19	4.37	20	3.80	20	4.36	19	4.87
26	4.37	27	3.76	27	4.45	26	5.03
Feb. 1	4.38	May 4	3.81	Aug. 2	4.52	Nov. 2	5.03
9	4.35	9	3.88	10	4.59	9	5.05
16	4.33	18	3.96	17	4.67	16	5.06
23	3.65	25	3.98	24	4.70	23	5.07
Mar. 2	3.41	June 1	4.04	31	4.77	30	5.10
9	3.45	8	4.01	Sept. 7	4.81	Dec. 7	5.05
16	3.85	15	4.02	14	4.90	14	5.04
23	3.86	22	4.03	21	4.92	21	5.05
30	4.39	29	4.21	28	5.02	28	5.24

Cass County

City of Dowagiac

CsDW 1. City of Dowagiac. Chestnut St. and Pennsylvania Ave. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 10 inches, depth 150 feet, screen 147. Land-surface datum is 750.19 feet above msl. Highest water level 4.20 above lsd, Nov. 30, 1951; lowest 5.97 below lsd, July 24, 1953. Records available: 1949-55.

CsDW 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	-1.78	Apr. 8	-1.07	July 8	-0.63	Oct. 7	-0.78
14	-1.86	15	2.03	15	.37	14	+3.37
21	-2.03	22	1.95	22	2.88	21	-.22
28	+1.86	29	1.11	29	.76	28	+4.11
Feb. 4	-2.11	May 6	.53	Aug. 5	2.55	Nov. 4	-3.86
11	1.95	13	1.95	12	1.64	11	-.30
18	2.03	20	-1.35	19	2.30	18	+.62
25	2.53	27	+1.37	26	2.14	25	-.20
Mar. 4	2.61	June 3	-.95	Sept. 2	.88	Dec. 2	.03
11	2.45	10	+2.20	9	1.22	9	1.78
18	2.70	17	-.62	16	-1.97	16	.95
25	2.53	24	.03	23	+1.36	23	3.53
Apr. 1	2.11	July 1	.12	30	-3.45	30	1.78

Mason Township

CsMa 1. Ted Little. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T. 8 S., R. 14 W. Dug unused water-table well in deposits of Pleistocene age, diameter 28 inches, depth 55 feet, cribbed with brick to open bottom. Highest water level 46.20 below lsd, July 16, 1950; lowest 55.03 below lsd, Mar. 10, 1947. Records available: 1945-55.

Jan. 2	49.70	Apr. 3	48.87	July 3	48.90	Oct. 2	49.61
9	49.45	10	48.80	10	48.90	9	49.66
16	49.46	17	48.85	17	48.96	16	49.68
23	49.43	24	48.59	24	49.00	23	49.64
30	49.34	May 1	48.67	31	49.10	30	49.78
Feb. 6	49.22	8	48.74	Aug. 7	49.15	Nov. 6	49.85
13	49.27	15	48.60	14	49.27	13	49.92
20	49.14	22	48.54	21	49.24	20	49.96
27	49.06	29	48.56	28	49.31	27	49.91
Mar. 6	49.05	June 5	48.59	Sept. 4	49.34	Dec. 4	50.03
13	49.12	12	48.70	11	49.44	11	50.13
20	48.94	19	48.72	18	49.46	18	50.21
27	48.86	26	48.80	25	49.56	26	50.27

Charlevoix County

Chandler Township

CvCh 1. State Dept. of Conservation. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T. 33 N., R. 4 W. Drilled unused artesian well in deposits of Pleistocene(?) age, diameter 6 inches, depth 94 feet. Highest water level 70.85 below lsd, July 19, 1952; lowest 75.10 below lsd, Apr. 26, 1954. Records available: 1948-55. Jan. 11, 74.20; Apr. 13, 74.62; July 13, 73.17; Oct. 13, 73.78.

Hudson Township

CvHu 33. State Dept. of Conservation. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 32 N., R. 4 W. Jetted water-table well in deposits of Pleistocene age, diameter 2 inches, depth 19 feet, open bottom. Highest water level 1.19 below lsd, Mar. 30, 1938; lowest 5.22 below lsd, Oct. 13, 1955. Records available: 1934-41, 1948-55. Jan. 11, 4.43; Apr. 13, 2.59; July 13, 4.15; Oct. 13, 5.22.

Cheboygan County

Forest Township

CbFr 5. State Dept. of Conservation. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 33 N., R. 1 E. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 15 feet, open bottom. Highest water level 1.72 below lsd, Apr. 28, 1954; lowest 5.21 below lsd, Oct. 18, 1949. Records available: 1939-44, 1948-55. Jan. 11, 2.48; Apr. 15, 1.76; July 13, 3.55; Oct. 13, 3.98.

Nunda Township

CbNd 2. State Dept. of Conservation. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 33 N., R. 1 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 16 feet, open bottom. Highest water level 3.99 below lsd, Aug. 12, 1942; lowest 7.44 below lsd, Oct. 18, 1949. Records available: 1935-44, 1948-55. Jan. 11, 5.72; Apr. 13, 5.09; July 13, 5.43; Oct. 13, 6.22.

Walker Township

CbWk 33. State Dept. of Conservation. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 34 N., R. 1 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 17 feet, open bottom. Highest water level 3.90 below lsd, Mar. 28, 1938; lowest 7.45 below lsd, Oct. 13, 1955. Records available: 1935-44, 1948-55. Jan. 11, 5.74; Apr. 13, 5.01; July 13, 6.29; Oct. 13, 7.45.

Chippewa County

Superior Township

CpSp 59. U. S. Forest Service. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 46 N., R. 4 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 54 feet. Land-surface datum is about 850 feet above msl. Highest water level 22.63 below lsd, May 23, 1955; lowest 26.96 below lsd, Apr. 13-15, 1954. Records available: 1952-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.49	23.95	24.34	24.81	23.06	22.75	23.21	23.84	24.45	25.03	25.59	e26.08
2	23.49	23.99	24.35	24.82	23.02	22.76	23.26	23.85	24.47	25.06	25.61	e26.09
3	23.57	24.01	24.40	24.84	22.98	22.76	23.28	23.87	24.49	25.07	25.63	e26.10
4	23.57	24.03	24.40	24.86	22.93	22.75	23.30	23.89	24.50	25.08	25.65	e26.11
5	23.54	23.98	24.42	24.87	22.89	22.75	23.31	23.91	24.51	25.10	25.67	h26.14
6	23.55	24.00	24.43	24.85	22.87	22.77	23.32	23.93	24.53	25.11	25.68	e26.14
7	23.61	24.04	24.44	24.88	22.82	22.77	23.34	23.95	24.56	25.13	25.70	e26.15
8	23.58	24.06	24.46	24.88	22.82	22.80	23.36	23.98	24.58	25.16	25.71	26.16
9	23.61	24.06	24.46	24.86	22.80	22.83	23.39	24.00	24.60	25.18	25.73	e26.17
10	23.64	24.09	24.49	24.86	22.77	22.85	23.42	24.01	24.61	25.20	25.74	e26.19
11	23.66	24.10	24.49	24.85	22.74	22.85	23.44	24.03	24.64	25.21	25.76	e26.20
12	23.66	24.12	24.53	24.83	22.73	22.85	23.46	24.06	24.66	25.22	25.78	26.21
13	23.66	24.15	24.55	24.76	22.71	22.87	23.48	24.08	24.68	25.24	25.80	26.23
14	23.69	24.13	24.57	24.65	22.70	22.91	23.47	24.09	24.69	25.27	25.82	26.23
15	23.61	24.16	24.55	24.54	22.69	22.94	23.48	24.11	24.72	25.29	25.83	26.25
16	23.71	24.16	24.58	24.42	22.67	22.95	23.51	24.13	24.74	25.30	25.85	26.26
17	23.75	24.20	24.61	24.28	22.68	22.97	23.54	24.15	24.76	25.32	25.85	26.26
18	23.78	24.21	24.60	24.14	22.66	23.00	23.56	24.17	24.78	25.34	25.90	26.28
19	23.78	24.22	24.63	24.00	22.65	23.00	23.59	24.19	24.79	25.36	25.90	26.30
20	23.80	24.23	24.64	23.89	22.66	23.01	23.61	24.20	24.81	25.38	e25.91	26.31
21	23.77	24.24	24.65	23.77	22.66	23.02	23.62	24.22	24.84	25.40	e25.93	26.32
22	23.73	24.26	24.64	23.68	22.65	23.04	23.63	24.25	24.86	25.42	e25.95	26.33
23	23.80	24.27	24.69	23.57	22.63	23.07	23.64	24.27	24.88	25.44	e25.96	26.34
24	23.83	24.30	.....	23.51	22.64	23.10	23.68	24.28	24.89	25.45	e25.98	26.35
25	23.85	24.32	24.72	23.44	22.66	23.13	23.69	24.30	24.92	25.47	e26.00	26.37
26	23.86	24.30	24.73	23.37	22.68	23.15	23.71	24.33	24.93	25.49	e26.01	26.38
27	23.90	24.33	24.75	23.31	22.67	23.17	23.75	24.35	24.95	25.50	e26.02	26.40
28	23.89	24.34	24.77	23.25	22.67	23.20	23.77	24.37	24.96	25.52	e26.02	26.40
29	23.90		24.78	23.19	22.65	23.20	23.78	24.38	24.98	25.53	e26.04	26.41
30	23.93		24.80	23.14	22.71	23.20	23.79	24.39	25.00	25.55	e26.06	26.43
31	23.95		24.81		22.74		23.81	24.42		25.57		26.44

e Estimated.

h Tape measurement.

Clinton County

Village of Elsie

CtES 1. Village of Elsie. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 8 N., R. 1 W. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 298 feet. Highest water level 3.78 above lsd, June 3, 1950; lowest 35.97 below lsd, Sept. 16, 1947. Records available: 1947-55. Apr. 7, 29.00; June 13, 34.50; Sept. 15, 21.56; Dec. 13, 13.06.

CtES 3. Village of Elsie. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 8 N., R. 1 W. Drilled unused artesian well in gravel of Pleistocene age, diameter 12 inches, depth 45 feet. Highest water level 8.3 below lsd, Apr. 5, 1950; lowest 26.4 below lsd, Oct. 11, 1949. Records available: 1947-55. Apr. 7, 18.53; June 13, 19.43; Sept. 15, 14.98; Dec. 13, 18.18.

De Witt Township

CtDw 159. State Dept. of Health. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 5 N., R. 2 W. Drilled unused artesian well in Saginaw formation, diameter 6 to 4 inches, depth 135 feet. Land-surface datum is 849.21 feet above msl. Highest water level 42.02 below lsd, Sept. 14, 1944; lowest 74.02 below lsd, Dec. 12, 1955. Records available: 1944-55. Mar. 28, 72.37; June 17, 73.11; Sept. 2, 73.94; Dec. 12, 74.02.

Olive Township

CtOe 1. State Highway Dept. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 6 N., R. 2 W. Drilled unused water-table well in gravel of Pleistocene age, diameter 14 inches, depth 23 feet, open bottom. Highest water level 14.59 below lsd, Apr. 19, 1952; lowest 18.53 below lsd, Dec. 29, 1953. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	17.13	May 27	16.44	Aug. 26	17.34	Nov. 28	17.71
Feb. 28	17.14	June 14	16.43	Sept. 30	17.64	Dec. 13	17.80
Mar. 29	16.68	July 29	17.11	Oct. 31	17.80	30	17.87
Apr. 29	16.40						

Crawford County

City of Grayling

CrGR 3. State Fish Hatchery. Grayling. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 26 N., R. 3 W. Driven observation water-table well in sand of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 8 feet, screen 5-8. Highest water level 2.62 below lsd, Apr. 18, 1952; lowest 3.44 below lsd, Oct. 13, 1949. Records available: 1949-55. Jan. 21, 3.18; Apr. 28, 2.98; July 18, 3.14; Oct. 13, 3.28.

Beaver Creek Township

CrBc 1. State Dept. of Conservation. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 25 N., R. 3 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 13 feet, screen 11-13. Land-surface datum is 1,175.14 feet above msl. Highest water level 8.70 below lsd, June 15, 1943; lowest 10.85 below lsd, Nov. 11, 1949, Feb. 15, 1951. Records available: 1934-37, 1939-55. Jan. 10, 9.86; Apr. 11, 9.46; July 12, 10.05; Oct. 10, 10.51.

Frederic Township

CrFr 1. State Dept. of Conservation. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 27 N., R. 4 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 13 feet, screen 10-13. Land-surface datum is 1,194.18 feet above msl. Highest water level 3.84 below lsd, Apr. 17, 1947; lowest 7.08 below lsd, Mar. 14, 1951. Records available: 1934-55. Jan. 11, 5.69; Apr. 12, 4.75; July 12, 5.92; Oct. 13, 6.35.

Grayling Township

CrGr 3. State Dept. of Conservation. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 26 N., R. 3 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 16 feet, screen 14-16. Highest water level 4.04 below lsd, Mar. 21, 1938; lowest 9.39 below lsd, Feb. 15, 1951. Records available: 1935-55. Jan. 12, 7.97; Apr. 12, 7.41; July 14, 8.23; Oct. 12, 8.85.

CrGr 6. State Dept. of Conservation. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 26 N., R. 4 W. Dug unused water-table well in deposits of Pleistocene age, diameter 15 inches, depth 12 feet, open bottom. Land-surface datum is 1,144.09 feet above msl. Highest water level 4.03 below lsd, June 1, 1943; lowest 9.83 below lsd, Oct. 4-6, 1955. Records available: 1942-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.01	8.26	8.19	6.95	6.71	7.32	8.04	9.12	9.61	....	9.45	8.62
2	8.02	8.26	8.21	6.70	6.74	7.35	8.09	9.14	9.61	....	9.44	8.62
3	8.03	8.27	8.24	6.45	6.74	7.37	8.13	9.17	9.61	....	9.43	8.62
4	8.03	8.28	8.25	6.38	6.76	7.39	8.18	9.19	9.62	9.83	9.42	8.62
5	8.04	8.30	8.27	6.27	6.78	7.41	8.23	9.21	9.63	9.83	9.40	8.60
6	8.05	8.31	8.29	6.24	6.82	7.43	8.28	9.24	9.64	9.83	9.39	8.58
7	8.06	8.33	8.30	6.25	6.84	7.42	8.33	9.26	9.65	9.82	9.37	8.56
8	8.07	8.34	8.32	6.28	6.87	7.32	8.38	9.28	9.66	9.80	9.34	8.56
9	8.07	8.34	8.33	6.29	6.90	7.26	8.42	9.29	9.67	9.78	9.31	8.56
10	8.08	8.36	8.28	6.32	6.92	7.27	8.48	9.31	9.68	9.77	9.27	8.56
11	8.08	8.36	8.18	6.36	6.94	7.30	8.53	9.33	9.69	9.76	9.24	8.56
12	8.09	8.37	7.91	6.39	6.97	7.34	8.57	9.35	9.69	9.76	9.21	8.56
13	e8.10	8.38	7.80	6.43	6.99	7.38	8.62	9.37	9.69	9.76	9.18	8.57
14	e8.11	8.38	7.75	6.46	7.02	7.42	8.67	9.38	9.70	9.76	9.15	8.57
15	8.11	8.39	7.70	6.37	7.05	7.45	8.72	9.40	9.70	9.77	9.13	8.58
16	8.12	8.39	7.69	6.37	7.07	7.48	8.75	9.42	9.71	9.77	9.10	8.59
17	8.13	8.40	7.48	6.39	7.10	7.51	8.78	9.44	9.72	9.76	9.08	8.59
18	8.14	8.41	7.42	6.44	7.12	7.54	8.79	9.46	9.73	9.73	9.06	8.62
19	8.15	8.43	7.40	6.45	7.14	7.58	8.81	9.48	9.74	9.71	9.03	8.63
20	8.15	8.44	7.39	6.50	7.18	7.61	8.83	9.50	9.74	9.71	9.01	8.65

CrGr 6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	8.16	8.23	7.39	6.43	7.22	7.65	8.86	9.52	9.75	9.70	9.00	8.65
22	8.18	8.15	7.37	6.42	7.25	7.69	8.89	9.53	9.76	9.70	8.99	8.65
23	8.19	8.14	7.25	6.45	7.27	7.72	8.91	9.55	9.77	9.69	8.98	8.65
24	8.20	8.13	7.10	6.48	7.30	7.75	8.93	9.57	9.78	9.66	8.92	8.67
25	8.21	8.14	7.05	6.51	7.29	7.78	8.95	9.58	9.79	9.60	8.80	8.69
26	8.21	8.15	7.04	6.55	7.20	7.82	8.97	9.60	9.80	9.55	8.70	8.68
27	8.22	8.17	7.04	6.58	7.20	7.86	9.00	9.62	9.81	9.52	8.65	8.68
28	8.23	8.18	7.06	6.61	7.23	7.90	9.02	9.62	....	9.50	8.62	8.68
29	8.24	7.08	6.65	7.24	7.94	9.05	9.63	....	9.48	8.61	8.67	8.67
30	8.25	7.09	6.69	7.27	7.99	9.07	9.63	....	9.47	8.61	8.69	8.69
31	8.26	7.06	7.30	7.30	7.30	9.10	9.62	....	9.46	8.61	8.69	8.69

e Estimated.

CrGr 11. State of Michigan. National Guard Camp. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 26 N., R. 4 W. Drilled unused water-table well in deposits of Pleistocene age, diameter 3 inches, depth 31 feet. Highest water level 19.42 below lsd, July 1, 1954; lowest 22.39 below lsd, July 23, 1949. Records available: 1949-55. Jan. 10, 20.92; Apr. 12, 20.51; July 12, 20.92; Oct. 11, 21.78.

Lovells Township

CrLv 2. State Dept. of Conservation. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 27 N., R. 1 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 13 feet, screen 10-13. Highest water level 3.51 below lsd, Apr. 18, 1952; lowest 6.19 below lsd, Mar. 12, 1947. Records available: 1934-55. Jan. 12, 5.59; Apr. 12, 4.75; July 14, 5.36; Oct. 12, 6.03.

South Branch Township

CrSb 1. State Dept. of Conservation. Huron National Forest. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 25 N., R. 1 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 56 feet. Highest water level 29.44 below lsd, Aug. 4, 1953; lowest 35.97 below lsd, Apr. 4-6, 1951. Records available: 1948-55.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.74	.....	31.14	.....	30.83	30.31	30.21	30.58	30.93	31.31	31.68	32.09
2	30.70	.....	31.19	.....	30.78	30.29	30.23	30.59	30.95	31.32	31.70	32.05
3	30.80	.....	31.26	.....	30.27	30.27	30.27	30.59	30.95	31.34	31.68	32.08
4	30.76	.....	31.19	.....	30.25	30.28	30.59	30.95	31.30	31.73	32.06	32.06
5	30.76	.....	31.26	.....	30.23	30.27	30.62	30.96	31.33	31.74	32.08	32.08
6	30.73	.....	31.23	.....	30.68	30.22	30.27	30.63	30.97	31.29	31.70	32.12
7	30.81	.....	31.24	.....	30.64	30.20	30.27	30.60	30.99	31.33	31.74	32.11
8	30.77	.....	31.19	.....	30.64	30.20	30.27	30.67	31.01	31.37	31.77	32.13
9	30.75	.....	31.18	.....	30.66	30.22	30.28	30.67	31.02	31.40	31.77	32.15
10	30.82	.....	31.23	.....	30.61	30.22	30.33	30.66	30.96	31.40	31.77	32.18
11	30.83	31.07	31.13	31.36	30.60	30.19	30.36	30.69	31.05	31.41	31.75	32.19
12	30.81	31.08	31.26	31.35	30.58	30.18	30.38	30.70	31.06	31.39	31.81	32.20
13	30.78	31.13	31.27	.....	30.55	30.19	30.38	30.71	31.09	31.41	31.84	32.21
14	30.85	31.08	31.30	.....	30.54	30.20	30.35	30.69	31.05	31.44	31.81	32.20
15	30.76	31.07	31.21	.....	30.52	30.23	30.32	30.72	31.09	31.44	31.86	32.21
16	30.83	31.08	31.27	.....	30.49	30.22	30.34	30.73	31.10	31.46	31.79	32.23
17	30.87	31.15	31.32	.....	30.48	30.22	30.38	30.74	31.11	31.46	31.83	32.20
18	30.90	31.16	31.25	.....	30.45	30.22	30.41	30.75	31.13	31.48	31.82	32.26
19	30.89	31.13	31.32	.....	30.41	30.20	30.44	30.77	31.12	31.52	31.91	32.29
20	30.91	31.12	31.30	.....	30.42	30.18	30.45	30.77	31.13	31.53	31.94	32.32
21	30.88	31.13	31.30	.....	30.41	30.17	30.44	30.76	31.17	31.54	31.88	32.31
22	30.76	31.17	31.22	31.03	30.38	30.17	30.44	30.79	31.18	31.58	31.95	32.27
23	30.83	31.17	31.26	31.02	30.35	30.19	30.43	30.82	31.19	31.55	31.90	32.29
24	30.88	31.20	31.32	30.99	.....	30.20	30.46	30.84	31.18	31.49	31.98	32.29
25	30.91	31.21	31.36	30.94	.....	30.21	30.48	30.84	31.23	31.60	32.00	32.35
26	30.92	31.16	31.34	30.97	30.36	30.22	30.49	30.85	31.25	31.54	31.99	32.39
27	30.91	31.19	31.35	30.94	30.32	30.23	30.50	30.85	31.23	31.61	31.97	32.40
28	.....	31.18	31.38	30.90	30.30	30.25	30.55	30.87	31.20	31.61	31.96	32.40
29	.....	.....	31.37	30.88	30.27	30.23	30.55	30.87	31.27	31.61	32.01	32.38
30	.....	.....	.....	30.88	30.29	30.21	30.54	30.83	31.31	31.63	32.06	32.42
31	.....	.....	.....	.....	30.31	.....	30.56	30.90	.....	31.65	.....	32.39

Dickinson County

Breen Township

DkBe 1. W. M. P. No. 10. E. W. LaFreniere. Near Foster City. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 42 N., R. 27 W. Dug domestic water-table well in sand and gravel, diameter 36 inches, depth 12 feet. Highest water level 3.08 below lsd, Apr. 29, 1954; lowest 10.75 below lsd, Oct. 3, 1955. Records available: 1945-46, 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	7.83	Apr. 29	4.25	Aug. 2	9.78	Nov. 1	10.05
Feb. 1	8.14	May 31	6.54	Sept. 2	10.41	Dec. 2	9.31
28	8.60	July 6	8.54	Oct. 3	10.75	30	9.16
Mar. 30	8.26						

Breitung Township

DkBg 1. W. M. P. No. 1. Dickinson County Road Commission. Merriman. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T. 41 N., R. 30 W. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{4}$ inches, depth 20 feet, screen 17-20. Highest water level 3.51 below lsd, Oct. 30, 1951; lowest dry, Oct. 3, Nov. 1, Dec. 2, 30, 1955. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	10.20	Apr. 29	4.75	Aug. 2	10.86	Nov. 1	(f)
Feb. 1	10.94	May 31	8.43	Sept. 2	11.87	Dec. 2	(f)
28	11.02	July 6	9.66	Oct. 3	(f)	30	(f)
Mar. 30	10.96						

f Dry.

DkBg 2. W. M. P. No. 2. William Carrolo. Merriman. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 41 N., R. 30 W. Dug domestic and stock water-table well in glacial till, diameter 36 inches, depth 16 feet, cribbed with wood. Highest water level 2.61 below lsd, Oct. 30, 1951; lowest 14.33 below lsd, Dec. 30, 1955. Records available: 1945-46, 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	6.54	Apr. 29	3.17	Aug. 2	9.26	Nov. 1	12.34
Feb. 1	7.69	May 31	5.41	Sept. 2	10.80	Dec. 2	13.17
28	8.13	July 6	7.91	Oct. 3	12.20	30	14.33
Mar. 30	6.88						

DkBg 3. W. M. P. No. 3. Oscar Martinson. Merriman. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 41 N., R. 30 W. Dug domestic and stock water-table well in glacial till, size 4 by 4 feet, depth 13 feet, lined with concrete. Highest water level 1.73 below lsd, July 6, 1953; lowest dry, November 1948-April 1949. Records available: 1945-46, 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	6.56	Apr. 29	2.45	Aug. 2	7.82	Nov. 1	10.18
Feb. 1	7.50	May 31	4.51	Sept. 2	9.00	Dec. 2	11.15
28	7.60	July 6	6.58	Oct. 3	10.00	30	11.89
Mar. 30	6.65						

Felch Township

DkFe 1. W. M. P. No. 11. Dickinson County Road Commission. Near Sagola. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 43 N., R. 29 E. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{4}$ inches, depth 13 feet, screen 10-13. Highest water level 5.12 below lsd, Apr. 18, 1951; lowest dry, Oct. 12, 1948, Oct. 3, Nov. 1, Dec. 2, 1955. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.27	Apr. 29	6.55	Aug. 2	10.54	Nov. 1	(f)
Feb. 1	9.52	May 31	8.18	Sept. 2	10.93	Dec. 2	(f)
28	9.74	July 6	9.26	Oct. 3	(f)	30	10.47
Mar. 30	9.40						

f Dry.

Eaton County

City of Charlotte

Each 1. City of Charlotte. U. S. Highway 27 and Territorial Rd. Dug unused water-table well in deposits of Pleistocene age, diameter 20 feet, depth 25 feet, cribbed with brick to open bottom. Land-surface datum is 889.44 feet above msl. Highest water level 8.04 below lsd, Apr. 7, 1947; lowest 15.77 below lsd, Jan. 2, 1948. Records available: 1947-55. Apr. 19, 13.24; June 15, 14.15; Sept. 19, 15.02; Dec. 14, 14.77.

City of Grand Ledge

EaGL 1. Layne-Northern Co., Inc. Perry and Jefferson Sts. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 376 feet, cased to 22. Land-surface datum is 846.59 feet above msl. Highest water level 21.34 below lsd, May 5, 14, 1950; lowest 28.79 below lsd, Dec. 3, 1949. Records available: 1948-55. Measurement made by city of Grand Ledge Water Dept.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	26.99	Apr. 11	25.93	July 6	25.36	Oct. 10	26.68
17	26.79	18	25.98	11	25.63	17	26.51
24	26.48	25	25.66	18	25.71	24	26.80
31	26.55	29	25.91	25	25.88	31	26.91
Feb. 7	26.44	May 2	25.83	Aug. 1	26.21	Nov. 7	26.92
14	26.57	9	25.90	8	26.40	14	26.93
21	26.67	16	25.74	15	26.42	21	26.85
28	26.51	23	25.61	29	26.57	28	26.78
Mar. 7	26.51	31	25.67	Sept. 6	26.57	Dec. 5	26.98
14	26.61	June 6	25.57	12	26.72	12	27.03
21	26.25	13	25.37	19	26.58	19	27.15
28	26.31	20	25.31	26	26.84	27	27.16
Apr. 4	26.16	27	25.39	Oct. 3	26.79		

Delta Township

EaDt 214. John Schneeberger. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 4 N., R. 3 W. Drilled unused artesian well in Saginaw formation, diameter 3 inches, depth 121 feet. Land-surface datum is 855.99 feet above msl. Highest water level 31.28 below lsd, May 27, 1948; lowest 37.55 below lsd, Dec. 12, 30, 1955. Records available: 1944-55.

Jan. 31	36.70	May 27	36.24	Aug. 26	37.06	Nov. 28	37.15
Feb. 28	36.57	June 17	36.49	Sept. 30	37.15	Dec. 12	37.55
Mar. 28	36.60	July 29	36.81	Oct. 31	37.28	30	37.55
Apr. 29	36.47						

EaDt 215. Bernard B. Bosworth. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 4 N., R. 3 W. Dug unused water-table well in deposits of Pleistocene age, diameter 4 feet, depth 18 feet, cribbed with brick to open bottom. Land-surface datum is 851.71 feet above msl. Highest water level 5.55 below lsd, Apr. 26, 1952; lowest dry, Feb. 23, 1954. Records available: 1944-55. Mar. 29, 8.43; Apr. 29, 6.17; June 17, 9.06; Sept. 2, 13.00; Dec. 12, 14.9.

Genesee County

City of Flint

GeFL 353. City of Flint. Brandon St. and Barney Ave. Drilled unused artesian well in deposits of Pleistocene age, diameter 3 inches, depth 74 feet. Highest water level 52.95 below lsd, June 9, 1947; lowest 58.81 below lsd, Sept. 15, 1955. Records available: 1946-55. Apr. 7, 55.80; June 13, 57.05; Sept. 15, 58.81; Dec. 13, 57.58.

GeFL 354. City of Flint. Atherton Rd. and Day St. Drilled unused artesian well in deposits of Pleistocene age, diameter 2 inches, depth 169 feet. Land-surface datum is 751.43 feet above msl. Highest water level 1.09 below lsd, Apr. 26, 1950; lowest 9.07 below lsd, Sept. 15, 1955. Records available: 1947-55. Apr. 7, 4.53; June 13, 7.00; Sept. 15, 9.07; Dec. 13, 6.32.

GeFL 491. Consumers Power Co. Franklin and Sunnyside Aves. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 222 feet. Highest water level 24.23 below lsd, Feb. 12, 1950; lowest 37.99 below lsd, Aug. 24, 1955. Records available: 1946-55.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.85	29.34	28.65	29.06	29.06	31.21	35.14	37.43	37.04	.....	31.90	.....
2	29.77	29.48	28.97	29.07	29.00	31.23	35.40	37.51	36.99	.....	31.84	.....
3	29.87	29.64	29.15	29.13	28.96	31.24	35.56	37.61	36.85	h33.96	31.52	.....
4	29.71	29.74	28.77	29.21	29.03	31.29	35.68	37.72	36.74	33.83	31.64	.....
5	29.20	29.53	29.09	29.05	29.18	31.41	35.72	37.86	.....	33.82	31.57	.....
6	29.38	29.42	29.12	28.79	29.42	31.62	35.75	e37.89	h35.91	33.68	31.40	h30.00
7	e29.64	29.42	29.10	28.77	29.43	31.60	35.95	37.84	35.99	33.72	31.42	29.94
8	29.60	29.46	29.15	28.85	29.54	31.79	36.12	37.87	36.08	33.81	31.40	29.85
9	29.52	29.39	28.97	28.86	29.77	32.04	36.30	37.79	35.98	33.78	31.39	29.88
10	e29.67	29.36	29.02	28.87	29.73	32.25	36.59	37.67	35.77	33.62	e31.28	30.00

GeFL 491--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	e29.59	29.40	28.82	28.93	29.75	e32.44	36.72	37.67	35.90	33.41	h31.22	29.96
12	h29.44	29.42	29.08	28.92	30.12	e32.57	36.79	37.81	35.81	33.32	31.33	29.91
13	29.40	29.60	29.15	28.98	30.14	32.59	36.72	37.74	35.45	33.22	31.36	29.85
14	29.57	29.45	29.20	28.96	30.35	32.36	36.71	37.58	35.37	33.19	31.22	29.75
15	29.40	29.32	28.99	29.02	e30.65	32.39	38.78	37.48	35.26	33.09	31.18	29.69
18	29.59	29.28	29.00	29.13	e30.73	32.34	36.81	37.31	35.30	33.02	30.85	29.75
17	29.66	29.41	29.18	29.09	30.87	32.48	.....	37.47	35.21	32.80	30.94	29.69
18	29.71	29.49	29.06	29.10	e30.55	32.78	.....	37.61	35.40	32.75	31.11	29.81
19	29.84	29.42	29.19	28.75	30.59	33.17	.....	37.78	35.31	32.77	30.99	29.89
20	29.70	29.40	29.18	28.78	30.75	33.42	.....	37.89	35.25	32.72	30.98	29.96
21	29.81	28.71	29.08	28.71	31.02	33.64	.....	37.88	35.59	32.58	30.77	29.91
22	29.39	29.22	28.83	28.73	e31.23	33.85	h37.45	37.85	35.59	32.68	30.77	29.76
23	29.50	29.25	29.00	28.82	.....	34.00	37.52	37.90	35.54	32.52	30.58	29.73
24	29.50	29.33	29.08	28.76	.....	34.16	37.39	37.99	35.42	32.29	.....	29.70
25	29.42	29.31	29.17	28.63	.....	.....	.....	37.88	35.50	32.36	.....	29.85
26	29.50	29.22	29.01	28.77	h31.42	h34.47	.....	37.83	35.39	32.15	.....	29.94
27	29.50	29.12	29.05	28.83	31.38	34.54	.....	37.77	34.87	32.15	.....	29.82
28	29.55	29.05	29.12	28.83	31.43	34.64	.....	37.87	34.50	32.04	.....	29.82
29	29.51	.....	29.04	29.02	31.49	34.72	.....	37.45	e35.41	31.89	.....	29.64
30	29.54	.....	29.09	29.07	31.40	34.93	h37.31	37.00	.....	31.90	.....	29.68
31	29.60	.....	29.05	.....	31.25	.....	37.33	.....	.....	31.92	.....	29.56

e Estimated.

h Tape measurement.

GeFL 500. Consumers Power Co. East Court St. and Dort Highway. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 288 feet. Highest water level 17.50 below lsd, Apr. 11, 1948; lowest 33.54 below lsd, Sept. 15, 1955. Records available: 1946-55. Apr. 7, 26.43; June 13, 29.73; Sept. 15, 33.54; Dec. 13, 27.69.

Burton Township

GeBu 303. Fred Kreft. 2287 East Bristol Rd. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 7 N., R. 7 E. Dug unused water-table well in deposits of Pleistocene age, diameter 18 inches, depth 8 feet, open bottom. Land-surface datum is about 785 feet above msl. Highest water level 0.20 above lsd, June 29, 1948; lowest 5.37 below lsd, Oct. 17, 1946. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	2.55	Apr. 27	1.75	July 27	4.30	Oct. 23	3.63
Feb. 27	.90	May 27	2.75	Aug. 30	3.90	Dec. 13	2.27
Mar. 27	1.39	June 13	2.89	Sept. 15	4.47	27	2.45
Apr. 7	1.78	27	3.82	27	4.56		

Grand Blanc Township

GeGb 25. Grand Blanc Tank Plant, Fisher Body Division, General Motors Corp. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 6 N., R. 7 E. Drilled unused artesian well in Saginaw formation, diameter 6 inches, depth 375 feet, cased to about 150. Land-surface datum is 841.71 feet above msl. Highest water level 37.79 below lsd, Nov. 24, 1952; lowest 52.9 below lsd, Aug. 3, 1955. Records available: 1952-55. Measurement made by Tank Plant Water Dept. personnel.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.8	43.6	44.3	46.5	43.7	45.8	49.3	50.3	47.5	48.8	45.7	44.5
2	42.9	44.3	45.1	46.7	43.3	46.0	49.6	e50.6	47.6	46.5	45.4	44.4
3	42.7	44.5	45.3	44.1	44.1	46.5	49.1	52.9	47.2	45.2	45.0	44.3
4	43.7	44.3	45.7	43.8	44.7	47.6	48.9	52.0	46.7	48.3	46.2	43.9
5	44.4	44.6	45.8	44.8	45.3	46.1	48.2	51.8	46.6	49.4	46.9	43.5
8	43.9	43.5	44.0	44.4	44.9	46.7	49.1	51.8	46.7	48.4	45.2	43.8
7	44.4	42.7	43.8	45.1	46.2	47.2	47.9	50.3	47.2	47.2	44.6	43.6
8	44.6	43.9	44.5	45.2	45.0	46.4	48.8	49.9	47.7	47.1	45.6	44.1
9	43.1	44.3	44.3	44.8	44.0	46.8	49.6	49.7	47.3	45.8	48.3	43.9
10	42.2	44.1	45.1	43.7	44.8	47.0	48.6	50.0	48.2	45.2	48.3	44.1
11	43.4	44.5	45.4	43.3	45.2	46.6	48.2	49.9	48.8	45.5	48.7	43.7
12	44.6	44.7	45.5	44.1	45.0	45.6	49.2	50.1	46.4	45.9	46.5	43.8
13	44.7	43.7	44.2	45.5	45.7	45.0	48.3	50.9	46.8	45.7	45.2	43.9
14	44.3	43.8	43.3	46.9	46.3	45.2	50.4	49.6	48.7	45.5	44.4	43.7
15	44.7	45.2	44.3	46.3	44.4	....	e51.7	48.8	46.9	45.6	45.2	44.0

GeGb 25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	43.4	45.1	44.7	46.5	44.5	....	e51.1	48.9	46.7	44.9	44.9	44.1
17	42.4	45.6	45.2	44.7	45.8	48.5	49.1	49.3	46.9	44.2	44.8	43.8
18	43.9	46.3	44.8	43.6	45.6	49.1	48.3	49.0	46.9	44.7	44.5	43.4
19	44.8	45.3	45.5	44.5	45.9	47.8	49.1	49.9	47.1	45.5	44.9	43.5
20	44.2	44.4	43.9	44.8	46.5	46.8	49.2	49.9	47.6	45.8	44.4	43.9
21	44.5	43.3	43.2	44.5	46.6	48.5	e50.9	49.5	48.0	45.5	44.1	44.1
22	44.3	44.1	44.0	45.1	46.4	49.8	....	49.2	47.9	46.5	44.5	44.3
23	43.0	45.0	43.7	44.8	46.6	48.7	e51.5	49.4	47.5	45.1	44.1	44.0
24	42.3	45.7	44.4	43.7	46.6	49.3	50.3	48.8	47.4	44.2	44.5	44.2
25	43.8	45.3	44.6	43.1	47.1	48.8	49.8	48.3	47.0	45.7	43.7	43.6
26	44.5	45.4	45.2	43.7	46.7	47.7	e50.6	48.8	46.2	45.9	43.7	43.3
27	44.7	44.2	46.6	44.4	46.3	47.0	50.3	48.9	46.5	46.0	43.7	43.4
28	44.5	43.1	46.4	44.7	47.0	48.4	e50.7	47.6	46.4	46.1	43.4	44.0
29	44.2	....	45.5	44.4	45.7	48.6	50.5	47.5	46.2	45.3	43.8	43.5
30	43.4	....	47.4	45.2	44.5	49.3	50.3	47.9	46.7	45.1	44.1	43.8
31	42.9	....	46.5	....	44.6	....	50.2	47.6	....	44.2	....	44.3

e Estimated.

Gladwin County

City of Beaverton

GwBV 1. City of Beaverton. Third and Main Sts. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 93 feet. Highest water level 29.13 below lsd, Dec. 18, 1952; lowest 49.35 below lsd, June 26, 1950. Records available: 1950-55. Measurement made by City Engineer.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.41	32.37	32.63	31.13	....	44.48	32.55	42.35	32.74	32.37	32.61	32.70
2	....	42.39	32.46	31.11	31.84	31.99	32.60	42.40	43.65	....	43.59	32.68
3	32.66	32.60	32.48	....	32.44	32.01	....	42.52	33.47	32.68	32.78	32.72
4	42.35	42.55	35.76	31.17	31.58	32.32	36.11	42.53	....	32.84	32.90	....
5	31.87	32.79	32.63	31.63	31.79	....	32.26	42.55	43.58	34.13	43.60	32.69
6	32.07	....	....	31.27	31.84	32.16	32.38	42.61	32.64	32.52	....	43.79
7	31.96	32.44	32.50	31.36	41.55	32.25	32.78	....	32.70	43.98	32.79	33.10
8	32.03	32.59	32.32	45.18	....	32.18	32.54	42.57	32.68	32.63	32.81	46.69
9	....	42.37	32.40	45.02	41.62	31.86	32.58	42.07	32.62	....	32.88	32.72
10	42.28	40.47	32.35	....	41.38	31.77	....	42.22	32.59	32.70	32.85	32.74
11	32.04	32.29	41.85	31.49	39.83	32.95	32.60	42.43	....	32.57	43.99	....
12	32.05	41.38	41.53	32.35	32.43	....	43.40	42.44	42.02	32.65	32.86	32.70
13	31.98	....	....	31.99	32.03	32.54	32.57	42.40	41.78	43.58	....	32.75
14	42.24	32.48	40.55	32.29	32.14	31.97	42.00	....	32.82	32.59	32.79	32.70
15	42.40	32.32	30.38	31.35	....	32.08	32.60	42.44	32.90	32.62	32.57	32.79
16	....	41.74	30.59	32.55	32.06	41.59	32.64	33.90	32.72	....	32.58	32.66
17	32.03	42.26	30.66	....	41.79	41.46	....	32.94	32.81	42.78	33.57	32.77
18	33.14	32.56	31.06	32.65	41.89	32.52	42.60	42.37	....	32.55	32.68	....
19	32.15	32.38	40.35	31.85	32.44	....	41.46	42.53	43.11	32.58	32.73	32.99
20	32.43	....	....	32.44	32.56	32.79	32.32	42.47	42.27	32.47	....	32.90
21	32.49	32.33	31.10	31.78	42.91	32.28	32.73	....	32.70	42.79	32.70	32.94
22	....	42.20	30.64	32.17	....	32.32	32.90	32.95	32.73	32.50	32.80	32.57
23	35.16	40.46	32.50	31.61	32.35	32.43	32.54	32.72	32.62	....	32.54	32.77
24	42.48	42.15	30.64	....	32.86	32.29	....	32.97	32.70	32.53	32.76	32.79
25	42.51	32.65	30.04	31.17	32.10	32.32	32.52	47.69	....	41.78	32.28	....
26	42.55	32.41	42.80	32.28	32.22	....	34.68	33.16	43.02	32.71	33.56	32.73
27	32.46	....	....	31.06	32.20	32.62	32.55	47.18	33.15	43.66	....	32.76
28	36.08	32.64	30.44	31.11	32.60	32.59	32.57	....	32.90	43.50	32.74	32.77
29	32.43	....	31.69	31.16	....	32.37	32.54	32.78	43.99	43.52	32.72	32.57
30	....	....	31.10	31.21	32.55	32.46	43.68	32.87	43.59	....	32.72	32.39
31	42.30	....	31.09	....	32.36	....	....	32.55	....	43.64	....	32.58

Grand Traverse County

Blair Township

GvBr 2. State Dept. of Conservation. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 26 N., R. 11 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 15 feet, open bottom. Land-surface datum is 914.25 feet above msl. Highest water level 1.32 below lsd, Oct. 30, 1951; lowest 4.02 below lsd, Aug. 18, 1936. Records available: 1935-37, 1941-44, 1948-55. Apr. 14, 1.75; July 14, 2.77; Oct. 14, 3.56.

Fife Lake Township

GvFf 27. State Dept. of Conservation. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 25 N., R. 9 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 18 feet, open bottom. Land-surface datum is 1,025.34 feet above msl. Highest water level 10.86 below lsd, Aug. 6, 1943; lowest 14.38 below lsd, Feb. 22, 1949. Records available: 1934-37, 1941-44, 1948-55. Jan. 13, 12.80; Apr. 14, 13.10; July 14, 12.66; Oct. 18, 13.23.

Mayfield Township

GvMy 19. State Dept. of Conservation. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 25 N., R. 11 W. Jetted observation water-table well in sand and gravel of Pleistocene age, diameter 2 inches, depth 14 feet, cased to open bottom. Land-surface datum is 1,058.81 feet above msl. Highest water level 1.51 below lsd, Apr. 22, 1954; lowest 6.40 below lsd, Nov. 14, 1935. Records available: 1935-37, 1943-44, 1948-55. Jan. 13, 4.06; Apr. 14, 1.57; July 14, 4.64; Oct. 14, 6.32.

Paradise Township

GvPr 25. State Dept. of Conservation. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 25 N., R. 10 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 20 feet, cased to open bottom. Land-surface datum is 945.27 feet above msl. Highest water level 0.29 below lsd, Sept. 3, 1942; lowest 1.68 below lsd, July 1, 1937. Records available: 1936-37, 1941-44, 1948-55. Jan. 13, 1.29; Apr. 14, 1.07; July 14, 1.65; Oct. 14, 1.62.

Union Township

GvUn 2. State Dept. of Conservation. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 26 N., R. 9 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 14 feet, cased to open bottom. Land-surface datum is 961.78 feet above msl. Highest water level 4.83 below lsd, Apr. 14, 1955; lowest 7.87 below lsd, Oct. 11, 1949. Records available: 1934-37, 1941-44, 1948-55. Jan. 13, 5.57; Apr. 14, 4.83; July 14, 6.56; Oct. 14, 7.29.

Whitewater Township

GvWw 1. State Dept. of Conservation. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, T. 27 N., R. 9 W. Jetted observation water-table well in sand and gravel of Pleistocene age, diameter 2 inches, depth 17 feet, cased to open bottom. Land-surface datum is 906.11 feet above msl. Highest water level 11.76 below lsd, Oct. 7, 1953; lowest 15.62 below lsd, Sept. 10, 1937. Records available: 1934-37, 1941-44, 1948-55. Apr. 14, 13.06; July 14, 13.23; Oct. 14, 13.53.

Gratiot County

City of Alma

GrAL 45. Layne Water Co. Formerly Layne-Northern Co., Inc. On Leonard Refineries property. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T. 11 N., R. 3 W. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 84 feet. Land-surface datum is 742.62 feet above msl. Highest water level 25.62 below lsd, Apr. 26, 1948; lowest 69.34 below lsd, Jan. 26, 1950. Records available: 1947-54. Measurement discontinued.

GrAL 135. Thomas Thompson. 118 Wheeler Ave. Drilled unused artesian well in gravel of Pleistocene age, diameter 2 inches, depth 59 feet. Land-surface datum is 743.27 feet above msl. Highest water level 24.35 below lsd, Apr. 26, 1948; lowest 47.13 below lsd, July 26, 1951. Records available: 1947-55. Apr. 6, 43.60; June 14, 43.09; Sept. 14, 45.79; Dec. 16, 44.72.

GrAL 240. C. V. Peet. 335 Pleasant Ave. Driven unused water-table well in lake sand of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 15 feet. Land-surface datum is 750.24 feet above msl. Highest water level 7.69 below lsd, June 10, 1947; lowest 11.37 below lsd, Nov. 28, 1949. Records available: 1947-55. Apr. 6, 9.11; June 14, 8.65; Sept. 14, 10.27.

GrAL 258. E. H. Waber. 219 Prospect Ave. Drilled unused artesian well in deposits of Pleistocene age, diameter 2 inches, depth 49 feet. Land-surface datum is 733.20 feet above msl. Highest water level 7.64 below lsd, Feb. 27, 1951; lowest 32.98 below lsd, Dec. 16, 1955. Records available: 1946-55. Apr. 6, 25.88; June 14, 27.64; Dec. 16, 32.98.

GrAL 360. Reed Excavating Co. Bridge Ave. and Washington St. Dug unused water-table well in deposits of Pleistocene age, diameter 36 inches, depth 20 feet, open bottom. Land-surface datum is 738.78 feet above msl. Highest water level 13.74 below lsd, Apr. 7, 1950; lowest 17.91 below lsd, Nov. 12, 1953. Records available: 1950-55. Apr. 6, 15.45; June 14, 14.85; Sept. 14, 16.94; Dec. 16, 17.16. Measurement made by Alma Water Dept.

Village of Ithaca

GrIH 1. Village of Ithaca. Center and Maple Sts. Drilled unused artesian well in Saginaw formation, Parma sandstone, and Bayport limestone, diameter 10 to 8 inches, reported depth 785 feet, cased to 379. Land-surface datum is about 803 feet above msl. Highest water level 78.25 below lsd, Jan. 22, 1952; lowest 83.96 below lsd, Sept. 4, 1949. Records available: 1947-55. Apr. 6, 79.45; June 14, 79.65; Sept. 14, 80.84; Dec. 16, 80.84.

Village of Perrinton

GrPE 1. Glenn Corson. South and Robinson Sts. Dug unused water-table well in deposits of Pleistocene age, diameter 30 inches, depth 31 feet, open bottom. Highest water level 1.82 below lsd, Jan. 17, 1952; lowest 21.23 below lsd, Dec. 16-17, 1949. Records available: 1947-55. Apr. 6, 5.79; June 14, 11.18; Sept. 14, 18.54; Dec. 16, 16.13.

City of St. Louis

GrST 1. City of St. Louis. North and Mill Sts. Drilled unused artesian well in deposits of Pleistocene age, diameter 8 inches, depth 196 feet. Highest water level 21.2 below lsd, Dec. 20, 1948, Jan. 24, 1949; lowest 58.81 below lsd, Aug. 14, 1953. Records available: 1947-53. Measurement discontinued.

Hillsdale County

City of Hillsdale

HdHD 1. City of Hillsdale. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 23, T. 6 S., R. 3 W. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 5 inches, depth 70 feet. Highest water level 3.25 below lsd, Apr. 21, 1952; lowest 22.85 below lsd, Sept. 21, 1953. Records available: 1952-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	5.00	Mar. 21	4.64	June 6	4.93	Aug. 22	7.37
10	4.99	28	4.69	13	4.42	29	7.56
17	5.00	Apr. 4	4.99	20	5.01	Sept. 6	7.77
24	4.99	11	4.74	27	5.66	12	8.03
31	4.89	18	4.78	July 5	5.32	19	8.23
Feb. 7	4.99	26	4.70	11	6.27	26	8.11
14	4.87	May 2	4.73	18	6.32	Oct. 10	6.35
21	4.67	9	4.86	25	6.62	17	5.55
28	4.61	16	4.79	Aug. 1	6.94	24	5.47
Mar. 7	4.67	23	4.89	15	7.15	31	5.47
14	4.69	31	4.86				

Ingham County

City of Lansing

IgLS 6. City of Lansing. Lapeer and Logan Sts. Drilled unused artesian well in Saginaw formation, diameter 20 inches, depth 424 feet. Land-surface datum is 858.72 feet above msl. Highest water level 34.34 below lsd, December 1929; lowest 148.08 below lsd, Dec. 12, 1955. Records available: 1929, 1931, 1933-55. Mar. 29, 142.14; June 17, 145.62; Sept. 2, 147.43; Dec. 12, 148.08.

IgLS 7. City of Lansing. North Grand River Ave. and Josephine St. Drilled unused artesian well in Saginaw formation, diameter 14 inches, depth 395 feet, cased to 49. Land-surface datum is 828.81 feet above msl. Highest water level 15.63 below lsd, Mar. 26, 1931; lowest 154.42 below lsd, Dec. 12, 1955. Records available: 1919, 1929-55. Mar. 28, 151.39; June 17, 151.87; Sept. 2, 153.46; Dec. 12, 154.42.

IgLS 8. City of Lansing. Townsend St. and Olds Ave. Drilled unused artesian well in Saginaw formation, diameter 14 inches, depth 423 feet, cased to 37. Land-surface datum is 834.10 feet above msl. Highest water level 12.12 below lsd, January 1919; lowest 53.40 below lsd, Sept. 2, 1955. Records available: 1919, 1929-55. Mar. 29, 49.56; June 17, 51.84; Sept. 2, 53.40; Dec. 12, 50.95.

IgLS 9. City of Lansing. South Cedar and Jay Sts. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 417 feet. Land-surface datum is 829.11 feet above msl. Highest water level 42.01 below lsd, Mar. 11, 1946; lowest 67.0 below lsd, Aug. 22, 1949. Records available: 1945-55. Mar. 29, 53.57; June 17, 53.15; Sept. 2, 52.52; Dec. 12, 53.08.

IgLS 33. Chesapeake & Ohio RR. Filley and Taylor Sts. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 12 inches, depth 38 feet, screen at 33. Land-surface datum is 842.11 feet above msl. Highest water level 25.98 below lsd, Mar. 3, 1953; lowest 30.85 below lsd, Dec. 25, 1955. Records available: 1953-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.68	29.61	29.66	29.76	29.70	29.73	29.79	30.09	30.35	e30.54	30.40	30.38
2	29.68	29.97	29.98	29.73	29.55	29.68	29.92	30.07	30.32	e30.31	30.40	30.09
3	29.79	30.14	30.06	29.77	29.56	29.64	29.91	30.07	30.28	e30.22	30.18	30.33
4	29.63	30.12	29.78	29.84	29.62	e29.59	29.82	30.10	30.20	e30.08	30.55	30.07
5	29.56	29.62	30.13	29.72	29.65	e29.59	29.76	30.14	30.15	30.12	30.33	30.38
6	29.65	29.73	29.93	29.61	29.75	e29.66	29.72	30.13	30.14	30.12	30.09	30.38
7	29.96	29.84	29.80	29.78	29.57	e29.66	29.79	29.99	30.19	30.20	30.30	30.26
8	29.68	29.94	29.93	29.93	29.63	e29.68	29.82	30.20	30.22	30.47	e30.25	30.34
9	29.55	29.85	29.72	29.86	29.81	e29.87	29.87	30.12	30.17	30.34	e30.16	30.48
10	29.87	.....	29.93	29.76	29.57	h29.85	29.98	30.09	30.13	30.20	29.96	30.62
11	29.75	.....	29.63	29.65	29.70	29.73	29.94	30.17	30.32	30.22	30.01	30.51
12	29.64	.....	30.13	29.60	29.66	29.71	29.97	30.18	30.23	30.15	30.35	30.47
13	29.57	.....	30.09	29.71	29.62	29.82	29.94	30.17	30.24	30.27	30.30	30.45
14	29.88	.....	29.97	29.65	29.71	29.79	29.86	30.01	30.10	30.31	30.25	30.37
15	29.50	h29.87	29.57	29.77	29.70	29.82	29.81	30.16	30.21	30.33	30.26	30.41
16	29.83	29.79	29.86	29.92	29.56	29.77	29.96	30.11	30.27	30.32	30.02	30.56
17	29.82	30.10	30.08	29.74	29.70	29.78	30.00	30.10	30.27	30.15	30.50	30.40
18	29.88	30.05	29.69	29.74	29.62	29.81	29.93	30.13	30.24	30.29	30.66	30.57
19	29.73	29.88	30.01	29.47	29.51	29.75	29.96	30.20	30.18	30.42	30.32	30.57
20	29.90	29.85	29.84	29.75	29.73	29.77	29.93	30.18	30.21	30.42	30.48	30.64
21	29.63	29.85	29.53	29.71	29.80	29.81	29.88	30.16	30.40	30.34	30.23	30.52
22	29.63	29.93	29.41	29.69	29.69	29.84	29.89	30.20	30.31	30.52	30.41	30.32
23	29.84	29.94	30.14	29.75	29.59	29.91	29.89	30.31	30.33	30.20	30.18	30.50
24	29.76	30.06	29.94	29.60	29.67	29.93	30.01	30.32	30.35	30.06	30.64	30.50
25	29.63	30.05	30.01	29.54	29.70	29.96	30.01	30.24	30.41	30.44	30.41	30.76
26	29.93	29.87	29.75	29.93	29.86	e29.90	30.01	30.25	30.33	30.14	30.27	30.73
27	29.95	.....	29.91	29.81	29.72	e29.88	30.00	30.26	30.13	30.38	30.06	30.57
28	29.80	h29.74	29.89	29.70	29.80	.....	30.09	30.22	30.26	30.33	30.15	e30.50
29	29.85		29.75	29.76	29.69	29.76	30.02	30.16	30.31	30.21	30.08	30.35
30	29.85		29.85	29.84	29.74	29.73	30.03	29.97	30.22	30.38	30.46	30.62
31	29.96		29.78		29.78		30.07	30.35		30.37		30.34

e Estimated.

h Tape measurement.

City of Mason

IgMS 30. City of Mason. Jefferson Ave. and Okemos St. Drilled unused artesian well in Saginaw formation, diameter 6 inches, depth 150 feet. Highest water level 0.08 below lsd, June 29, 1949; lowest 7.37 below lsd, Sept. 17, 1955. Records available: 1948-55. Measurement made by Water Dept.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	2.42	Apr. 2	1.88	July 11	3.79	Oct. 8	5.12
8	2.26	9	2.79	16	4.32	15	4.86
15	2.16	16	3.52	23	4.47	22	3.73
22	2.69	23	3.71	30	3.59	29	3.41
29	2.84	30	3.89	Aug. 6	4.44	Nov. 5	3.49
Feb. 5	2.66	May 7	4.66	13	5.24	12	3.57
12	2.79	14	4.98	20	6.28	19	2.07
19	2.63	21	5.78	27	6.89	26	2.79
26	2.54	28	6.88	Sept. 3	6.19	Dec. 3	3.53
Mar. 5	2.87	June 4	6.84	10	6.69	10	3.56
12	2.39	11	4.99	17	7.37	17	3.48
19	1.97	18	6.17	24	4.83	24	3.20
26	1.93	25	6.42	Oct. 1	6.29	31	2.97
30	2.12	July 5	3.89				

Lansing Township

IgLS 35. Tank Bros. Dairy. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 4 N., R. 2 W. Drilled unused artesian well in Saginaw formation, diameter 3 inches, depth 107 feet. Land-surface datum is 865.97 feet above msl. Highest water level 53.94 below lsd, Nov. 2, 1944; lowest 77.88 below lsd, Dec. 12, 1955. Records available: 1944-55.

IgLS 35--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	74.54	May 27	75.65	Aug. 26	76.16	Nov. 28	77.72
Feb. 28	74.73	June 17	75.99	Sept. 30	76.80	Dec. 12	77.88
Mar. 28	75.57	July 29	75.89	Oct. 31	77.79	30	77.86
Apr. 29	76.14						

IgLS 265. John Deere Plow Co. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 4 N., R. 2 W. Drilled unused artesian well in Saginaw formation, diameter 10 inches, depth 453 feet. Land-surface datum is 853.45 feet above msl. Highest water level 25.47 below lsd, Mar. 25, 1946; lowest 64.4 below lsd, Aug. 5, 1955. Records available: 1945-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.15	49.69	51.89	51.56	e55.10	e58.5	61.1	61.1	61.7	60.2	55.6	.....
2	45.89	50.06	52.37	51.57	e55.65	e57.8	e60.5	60.9	61.1	58.9	55.9	.....
3	45.77	50.70	53.00	51.22	e56.15	h56.80	e59.7	63.0	60.3	58.0	56.1	.....
4	45.65	51.22	53.15	50.38	e56.65	57.25	e58.9	64.2	59.3	57.3	56.8	.....
5	46.07	51.19	53.50	50.21	e57.15	58.69	e58.1	64.4	57.6	56.8	57.0	.....
6	46.42	50.80	53.16	50.82	h57.52	58.64	e57.3	63.8	57.0	56.3	56.5	.....
7	47.27	50.45	52.66	51.55	57.95	59.70	56.4	62.1	57.2	56.1	56.1	.....
8	47.49	50.27	52.41	52.21	58.03	59.69	57.0	59.9	58.2	56.1	56.7	.....
9	47.55	50.63	52.39	52.15	56.70	60.37	58.1	59.5	57.5	55.8	57.5	.....
10	47.74	51.86	52.67	52.45	55.40	61.55	58.1	59.3	57.5	55.5	58.0	.....
11	47.69	52.40	52.86	51.73	55.65	62.1	56.2	59.2	56.6	e55.6	57.1	.....
12	47.70	51.40	53.70	51.30	56.40	61.8	55.7	59.7	55.7	e55.8	57.7	.....
13	48.01	51.92	53.64	51.85	57.40	59.8	56.9	60.4	55.5	e56.0	58.3	h57.61
14	48.53	51.17	53.09	52.50	58.55	58.5	58.4	59.5	56.6	e56.3	58.2	57.5
15	48.45	50.62	52.47	53.20	58.55	58.1	59.6	58.0	56.5	56.2	58.1	57.4
16	48.59	50.67	53.26	53.93	58.33	58.2	59.8	57.0	57.9	55.9	57.1	57.4
17	48.65	51.39	54.06	53.79	58.09	58.8	58.8	58.3	58.9	55.5	57.2	56.9
18	48.61	52.65	53.94	53.30	57.90	59.5	56.8	59.8	59.2	55.5	58.1	56.1
19	48.99	53.34	54.27	52.32	58.85	59.7	56.0	61.0	58.9	56.2	58.5	55.4
20	49.55	53.41	53.76	53.04	59.76	58.8	57.6	62.1	60.3	56.9	58.3	55.0
21	49.87	53.08	53.02	53.68	60.65	58.0	59.3	62.9	61.3	57.4	57.6	....
22	50.38	.....	52.27	53.78	61.21	58.0	e60.2	62.7	61.1	57.9	57.9	....
23	51.04	.....	52.72	54.50	61.00	58.1	e60.9	61.7	60.6	57.5	58.5	e55.5
24	51.05	.....	52.94	54.00	e59.3	58.3	61.1	60.8	60.3	57.0	57.1	55.4
25	50.67	.....	53.24	52.73	e60.1	58.4	60.4	60.1	59.5	56.8	55.1	54.8
26	50.54	.....	52.81	52.75	e61.9	58.0	59.5	60.1	58.4	56.4	52.2	52.9
27	50.56	.....	52.15	52.91	e63.2	57.0	e60.2	61.0	59.2	55.9	52.9	51.8
28	50.65	h52.52	50.47	53.45	64.25	56.4	e61.3	60.9	60.2	56.1	....	51.6
29	50.73		50.13	e54.15	62.65	57.1	h62.47	59.9	61.0	56.4	....	52.7
30	50.45		50.78	e54.60	e60.6	59.0	63.1	60.0	59.6	56.5	....	53.3
31	50.14		51.31		e59.6		62.6	61.3		56.0		52.6

e Estimated.

h Tape measurement.

IgLS 271. Carlos A. Weber. Formerly Harry DeLaere. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 4 N., R. 2 W. Drilled unused artesian well in Saginaw formation, diameter 3 inches, depth 204 feet. Land-surface datum is 880.15 feet above msl. Highest water level 18.92 below lsd, Apr. 26, 1952; lowest 24.77 below lsd, Feb. 2, 1954. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	23.41	May 27	22.86	Sept. 2	23.63	Nov. 28	23.77
Feb. 28	23.23	June 17	23.18	30	23.83	Dec. 12	23.96
Mar. 28	22.74	July 29	23.23	Oct. 31	24.08	30	23.95
Apr. 29	22.66	Aug. 26	23.51				

Iosco County

Wilbur Township

IcWr 1. U. S. Forest Service. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 23 N., R. 7 E. Drilled unused artesian well, diameter 6 inches, depth 341 feet. Highest water level 25.13 below lsd, Aug. 3, 1952; lowest 27.94 below lsd, Jan. 3, 10, 1950. Records available: 1948-55. Jan. 18, 25.50; Apr. 11, 25.57; July 12, 25.56; Oct. 10, 25.61.

Iron County

Hematite Township

IrHm 1. W. M. P. No. 20. Basilio Prandi. Near Amasa. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 45 N., R. 33 W. Dug domestic and stock water-table well in glacial till, diameter 36 inches, depth 33 feet, cribbed with wood. Highest water level 23.39 below lsd, Oct. 30, 1951; lowest 32.16 below lsd, Mar. 15, 1949. Records available: 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	26.61	Apr. 29	26.47	Aug. 2	25.73	Nov. 1	27.15
28	26.82	May 31	26.31	Sept. 2	26.56	Dec. 2	27.37
Mar. 30	27.20	July 6	25.22	Oct. 3	26.64	30	27.65

IrHm 2. W. M. P. No. 19. William Bonifas Lumber Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 45 N., R. 33 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 7 feet, screen 4-7. Highest water level 2.01 below lsd, Sept. 28, 1951; lowest 4.23 below lsd, Mar. 12, 1949. Records available: 1948-55. Apr. 29, 2.39; May 31, 2.81; July 6, 2.99; Aug. 2, 3.21; Sept. 2, 3.41; Oct. 3, 3.52; Nov. 1, 3.30.

IrHm 3. W. M. P. No. 21. Iron County Road Commission. Near Amasa. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 44 N., R. 33 W. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{2}$ inches, depth 8 feet, screen 3-8. Highest water level 1.95 below lsd, Apr. 29, 1954; lowest 7.94 below lsd, Jan. 12, 1951, Dec. 29, 1952. Records available: 1948-55.

Jan. 3	4.73	Apr. 29	3.01	Aug. 2	6.68	Nov. 1	7.56
Feb. 1	5.50	May 31	3.61	Sept. 2	7.08	Dec. 2	7.04
28	5.34	July 6	5.77	Oct. 3	7.78	30	7.06
Mar. 30	2.91						

IrHm 4. W. M. P. No. 17. Michigan State Highway Dept. Park Siding Rd. and U. S. Highway 141. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 46 N., R. 33 W. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{2}$ inches, depth 12 feet, screen 9-12. Highest water level 2.80 below lsd, Apr. 18, 1949; lowest 8.90 below lsd, Feb. 15, 1949. Records available: 1948-55.

Jan. 3	6.39	Apr. 29	4.91	Aug. 2	6.83	Nov. 1	7.06
Feb. 1	6.71	May 31	5.49	Sept. 2	8.17	Dec. 2	6.93
28	6.59	July 6	6.42	Oct. 3	7.45	30	6.98
Mar. 30	6.29						

IrHm 5. W. M. P. No. 18. Luke and Carlson Logging Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 46 N., R. 34 W. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{2}$ inches, depth 12 feet, screen 9-12. Highest water level 3.65 below lsd, June 2, 1954; lowest 8.60 below lsd, Mar. 15, 1949. Records available: 1945-55.

Feb. 1	6.99	Apr. 29	5.36	Aug. 2	6.71	Nov. 3	7.04
28	7.06	May 31	5.31	Sept. 2	7.08	Dec. 2	7.20
Mar. 30	7.22	July 6	6.44	Oct. 3	7.40	30	7.37

Iron River Township

IrIr 1. W. M. P. No. 23. Joseph J. Javoroski. Near Mineral Hills. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 43 N., R. 35 W. Dug domestic and stock water-table well in glacial till, diameter 36 inches, depth 47 feet. Highest water level 39.33 below lsd, Jan. 14, 1952; lowest 47.08 below lsd, Aug. 15, 1949. Records available: 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	40.97	Apr. 26	g41.72	July 28	g40.82	Oct. 25	g41.00
14	g40.97	29	41.72	Aug. 2	40.78	Nov. 1	41.10
Feb. 1	41.11	May 12	g41.60	26	40.74	23	g40.94
22	g41.36	30	g41.47	Sept. 2	40.80	Dec. 2	41.32
28	41.32	31	41.40	27	g40.74	22	g41.68
Mar. 25	g41.55	June 29	g41.06	Oct. 3	40.88	30	41.57
30	41.58	July 6	41.00				

g By State Geological Survey.

IrIr 2. W. M. P. No. 25. Mrs. Bernard Henriksen. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 43 N., R. 35 W. Dug unused water-table well in glacial till, diameter 36 inches, depth 48 feet. Highest water level 41.66 below lsd, June 20, 1953; lowest 48.29 below lsd, Aug. 15, 1949. Records available: 1945-55. Recording gage removed.

IrIr 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	44.01	Mar. 25	g44.80	May 31	43.98	Sept. 2	44.26
14	g44.45	30	44.86	June 29	g43.95	27	g44.37
Feb. 1	44.51	Apr. 26	g43.87	July 6	43.99	Oct. 3	44.61
4	g44.57	29	44.08	28	g44.06	25	g44.62
22	g44.70	May 12	g43.93	Aug. 2	44.04	Nov. 23	g44.80
28	44.70	30	g44.01	26	g44.22		

g By State Geological Survey.

IrIr 3. W. M. P. No. 27. Iron County Road Commission. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 43 N., R. 36 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 9 feet, screen 6-9. Highest water level 6.67 below lsd, Apr. 29, 1954; lowest 9.02 below lsd, June 30, 1952. Records available: 1948-55.

Jan. 3	8.27	Apr. 29	7.81	Aug. 2	8.14	Nov. 1	8.01
Feb. 1	8.24	May 31	8.02	Sept. 2	8.25	Dec. 2	8.06
28	8.20	July 6	8.14	Oct. 3	8.24	30	8.26
Mar. 30	8.14						

IrIr 4. W. M. P. No. 29. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 45 N., R. 36 W. Dug unused water-table well in glacial till, size 4 by 4 feet, depth 22 feet, cribbed with wood. Highest water level 11.57 below lsd, Apr. 29, 1954; lowest 23.21 below lsd, May 16, 1949. Records available: 1945-46, 1948-55.

Jan. 3	15.47	Apr. 29	15.14	Aug. 2	16.29	Nov. 1	17.25
Feb. 1	16.11	May 31	14.49	Sept. 2	17.06	Dec. 2	17.14
28	16.57	July 6	15.61	Oct. 3	17.14	30	18.60
Mar. 30	16.97						

IrIr 5. W. M. P. Paint River Profile well 1. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 6 feet, screen 3-6. Land-surface datum is 1,468.15 feet above msl. Highest water level 0.10 above lsd, May 2, 1951; lowest 2.26 below lsd, Nov. 15, 1948. Records available: 1948-55.

Jan. 3	1.81	Apr. 29	1.07	Aug. 2	1.82	Nov. 1	1.74
31	1.77	May 31	1.30	Sept. 2	2.11	Dec. 2	1.71
Feb. 28	1.69	July 6	1.84	Oct. 3	2.09	30	1.70
Mar. 30	1.52						

IrIr 6. W. M. P. Paint River Profile well 2. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 13 feet, screen 10-13. Land-surface datum is 1,475.14 feet above msl. Highest water level 5.08 below lsd, July 6, 1953; lowest 8.92 below lsd, Nov. 15, 1948. Records available: 1948-55.

Jan. 3	8.10	Apr. 29	6.82	Aug. 2	8.45	Nov. 1	8.41
31	8.28	May 31	7.63	Sept. 2	8.68	Dec. 2	8.34
Feb. 28	8.24	July 6	8.29	Oct. 3	8.63	30	8.26
Mar. 30	8.10						

IrIr 7. W. M. P. Paint River Profile well 3. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 12 feet, screen 9-12. Land-surface datum is 1,476.35 feet above msl. Highest water level 4.03 below lsd, July 6, 1953; lowest 9.20 below lsd, Nov. 15, 1948. Records available: 1948-55.

Jan. 3	8.44	Apr. 29	6.23	Aug. 2	8.61	Nov. 1	8.73
31	8.41	May 31	7.37	Sept. 2	8.85	Dec. 2	8.62
Feb. 28	8.46	July 6	8.28	Oct. 3	8.88	30	8.64
Mar. 30	8.38						

IrIr 8. W. M. P. Paint River Profile well 4. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 4 feet, screen 1-4. Land-surface datum is 1,472.63 feet above msl. Highest water level 1.12 below lsd, May 2, 1951; lowest 3.51 below lsd, Sept. 14, 1949. Records available: 1948-55.

Jan. 3	3.12	Apr. 29	2.39	Aug. 2	3.43	Nov. 1	2.90
31	3.08	May 31	2.58	Sept. 2	3.45	Dec. 2	2.85
Feb. 28	2.96	July 6	3.16	Oct. 3	3.29	30	2.82
Mar. 30	2.74						

IrIr 9. W. M. P. Paint River Profile well 5. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 13 feet, screen 10-13. Land-surface datum is 1,471.25 feet above msl. Highest water level 2.50 below lsd, July 6, 1953; lowest 9.44 below lsd, Oct. 26, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.94	Apr. 29	3.87	Aug. 2	5.05	Nov. 1	5.00
31	4.91	May 31	4.45	Sept. 2	5.32	Dec. 2	4.93
Feb. 28	4.78	July 6	4.92	Oct. 3	5.26	30	4.96
Mar. 30	4.64						

IrIr 10. W. M. P. Paint River Profile well 6. U. S. Forest Service, Ottawa National Forest. Near Gibbs City. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 17 feet, screen 14-17. Land-surface datum is 1,479.30 feet above msl. Highest water level 8.48 below lsd, May 2, 1951; lowest 13.40 below lsd, Oct. 26, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	12.31	Apr. 29	10.79	Aug. 2	12.06	Nov. 1	12.61
31	12.38	May 31	11.90	Sept. 2	12.75	Dec. 2	12.52
Feb. 28	12.24	July 6	12.21	Oct. 3	12.80	30	12.40
Mar. 30	12.16						

Mastodon Township

IrMt 1. W. M. P. No. 7. Iron County Road Commission. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 42 N., R. 31 W. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{4}$ inches, depth 10 feet, screen 6-10. Highest water level 0.17 below lsd, Mar. 30, 1955; lowest 6.28 below lsd, Oct. 13, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	1.41	Apr. 29	0.34	Aug. 2	1.68	Nov. 1	2.07
Feb. 1	2.23	May 31	.54	Sept. 2	3.44	Dec. 2	3.39
28	1.59	July 6	.81	Oct. 3	3.68	30	4.02
Mar. 30	.17						

IrMt 2. W. M. P. No. 8. Joseph Giachino. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 42 N., R. 31 W. Dug domestic water-table well in glacial till, diameter 15 inches, depth 12 feet, cased with tile. Highest water level 1.89 below lsd, Oct. 30, 1951; lowest 12.22 below lsd, Feb. 25, 1953. Records available: 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	7.61	Apr. 29	3.01	Aug. 2	8.33	Nov. 1	10.50
Feb. 1	8.38	May 31	4.82	Sept. 2	9.52	Dec. 2	10.83
28	8.96	July 6	5.64	Oct. 3	10.13	30	11.04
Mar. 30	7.18						

IrMt 3. W. M. P. No. 5. Iron County Road Commission. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 41 N., R. 31 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 17 feet, screen 14-17. Highest water level 8.47 below lsd, Jan. 3, 1952; lowest dry several times, 1949-52. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.83	Apr. 29	11.00	Aug. 2	11.49	Nov. 1	14.00
Feb. 1	12.50	May 31	10.41	Sept. 2	12.52	Dec. 2	14.34
28	13.09	July 6	10.70	Oct. 3	13.47	30	14.74
Mar. 30	13.44						

Stambaugh Township

IrSt 1. W. M. P. No. 28. U. S. Forest Service, Ottawa National Forest. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 45 N., R. 37 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 8 feet, screen 5-8. Highest water level 0.75 below lsd, Aug. 31, 1951; lowest 4.72 below lsd, Sept. 11, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	2.19	Apr. 29	1.53	Aug. 2	2.55	Nov. 1	1.99
Feb. 1	2.33	May 31	1.61	Sept. 2	3.37	Dec. 2	2.31
28	2.23	July 6	2.68	Oct. 3	2.93	30	2.34
Mar. 30	2.09						

IrSt 2. W. M. P. Brule River Profile well 1. State Highway Dept. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 6 feet, screen 3-6. Land-surface datum is 1,543.92 feet above msl. Highest water level 0.81 below lsd, Apr. 29, 1954; lowest 3.17 below lsd, Oct. 26, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	2.12	Apr. 29	1.80	Aug. 2	1.67	Nov. 1	2.03
Feb. 1	2.12	May 31	1.94	Sept. 2	2.92	Dec. 2	2.27
Mar. 30	1.69	July 6	2.32	Oct. 3	2.81	30	2.00

IrSt 3. W. M. P. Brule River Profile well 2. State Highway Dept. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 7 feet, screen 4-7. Land-surface datum is 1,545.60 feet above msl. Highest water level 0.46 below lsd, July 6, 1953; lowest 3.10 below lsd, Oct. 26, 1948. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	1.92	Apr. 29	1.02	Aug. 2	0.82	Nov. 1	1.84
Feb. 1	2.05	May 31	1.36	Sept. 2	2.56	Dec. 2	2.16
28	1.80	July 6	1.80	Oct. 3	2.60	30	2.02
Mar. 30	1.45						

IrSt 4. W. M. P. Brule River Profile well 3. William Young Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 14 feet, screen 9-12. Land-surface datum is 1,554.36 feet above msl. Highest water level 3.67 below lsd, Apr. 29, 1954; lowest 8.29 below lsd, Oct. 26, 1948. Records available: 1948-55.

Jan. 3	6.58	Apr. 29	5.46	Aug. 2	6.21	Nov. 1	6.99
Feb. 1	6.88	May 31	5.87	Sept. 2	7.33	Dec. 2	7.08
28	6.93	July 6	6.72	Oct. 3	7.47	30	7.12
Mar. 30	6.50						

IrSt 5. W. M. P. No. 34. State Highway Dept. Near Iron River. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 45 N., R. 35 W. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 14 feet, screen 9-12. Highest water level 1.93 below lsd, July 6, 1953; lowest 8.44 below lsd, Mar. 15, 1949. Records available: 1948-55.

Jan. 1	4.58	Apr. 29	3.61	Aug. 2	4.09	Nov. 1	5.03
Feb. 1	4.90	May 31	3.16	Sept. 2	4.61	Dec. 2	5.29
28	4.80	July 6	3.76	Oct. 3	4.97	30	5.49
Mar. 30	5.30						

Kalamazoo County

City of Kalamazoo

KoKO 114. City of Kalamazoo. Burdick and Wall Sts. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 115 feet. Land-surface datum is 777.45 feet above msl. Highest water level 11.22 below lsd, Mar. 11, 1952; lowest 29.36 below lsd, Aug. 9, 1946. Records available: 1946-55. Measurement made by City Light and Water Utilities.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.21	17.72	17.81	17.43	16.80	.....	19.19	20.34	21.88	20.28	18.62	17.58
2	18.18	e17.80	17.77	17.37	16.74	.....	19.00	21.08	21.63	e20.3	16.59	17.51
3	18.15	e17.82	.....	17.35	16.75	.....	18.75	21.44	21.48	20.18	18.55	17.52
4	18.06	e17.84	.....	17.30	17.70	17.88	18.61	21.73	21.31	20.12	18.51	17.44
5	18.02	e17.86	e17.76	17.26	17.70	17.94	18.51	21.96	21.14	20.34	18.49	17.40
6	17.99	.....	17.76	17.22	.....	17.72	19.33	22.08	21.02	20.34	18.45	17.39
7	17.98	.....	17.74	17.22	17.39	17.63	19.73	21.12	20.91	20.17	18.39	17.35
8	17.96	.....	17.69	17.22	17.35	17.56	19.37	20.73	20.87	19.92	18.37	17.34
9	17.88	.....	17.64	17.23	17.32	17.54	19.04	20.50	20.79	19.93	18.37	17.39
10	17.85	.....	17.69	17.18	17.28	17.50	18.88	20.37	20.77	19.70	18.35	17.38
11	.....	.....	18.12	17.11	17.25	17.42	18.71	20.66	20.77	19.58	18.30	17.36
12	.....	.....	18.01	18.28	17.08	17.24	17.30	18.83	e20.75	20.70	19.72	18.34
13	.....	e18.04	18.12	17.10	17.22	17.22	18.70	20.95	20.64	19.58	18.30	.....
14	.....	17.97	18.04	17.07	17.23	17.18	18.78	20.60	20.61	19.53	18.22	17.29
15	17.90	17.96	17.91	17.10	17.26	17.15	19.21	20.38	20.55	19.47	18.17	17.30
16	17.89	17.99	17.91	17.05	17.26	17.14	18.97	21.23	20.53	19.42	18.12	17.35
17	17.84	18.07	17.86	17.08	17.65	17.13	18.88	21.68	20.56	19.30	18.09	17.33
18	17.86	18.07	17.78	17.02	17.80	17.61	18.78	22.00	20.56	19.26	18.09	17.33
19	.....	18.08	17.73	16.96	18.05	17.76	19.36	22.25	20.49	19.21	17.96	17.29
20	.....	18.06	17.64	16.98	18.67	17.51	19.51	22.45	21.01	19.16	17.95	17.33
21	.....	17.94	17.52	16.93	19.21	17.72	19.96	22.63	21.04	19.11	17.84	17.36
22	e17.84	17.87	17.45	16.94	19.53	17.98	20.44	22.41	20.84	19.11	17.82	17.37
23	17.84	17.89	17.75	16.96	18.60	18.14	20.74	22.19	20.77	e19.00	17.77	17.37
24	17.80	18.16	17.57	16.90	18.50	18.23	19.98	22.11	20.73	e18.95	17.82	17.38
25	17.79	18.03	17.91	16.82	18.23	18.28	19.66	22.68	20.67	e18.90	17.72	17.33
26	17.86	17.94	17.94	16.81	18.07	18.63	19.96	22.87	e20.58	18.86	17.66	17.25
27	17.90	17.86	17.79	16.76	17.95	18.24	20.68	22.76	e20.63	18.86	17.58	17.20
28	17.88	17.75	17.63	16.77	17.89	19.11	21.05	22.48	e20.55	18.85	17.50	17.18
29	17.86	.....	17.53	16.78	.....	19.53	20.62	22.01	e20.48	18.74	17.48	17.19
30	17.83	.....	17.49	16.82	.....	19.91	20.63	22.71	e20.37	18.72	17.58	17.49
31	e17.79	.....	17.46	.....	.....	.....	20.47	22.33	.....	18.65	.....	17.38

e Estimated.

KoKO 227. Hanselman Bldg. Corp. North Burdick St. and West Michigan Ave. Drilled unused artesian well in deposits of Pleistocene age, diameter 4 inches, depth 80 feet. Land-surface datum is 781.27 feet above msl. Highest water level 20.15 below lsd, June 4, 1948; lowest 27.04 below lsd, Oct. 17, 1946. Records available: 1946-54. No measurement made in 1955.

KoKO 240. Reed Land Co. Factory St. and Lane Blvd. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 41 feet. Land-surface datum is 773.71 feet above msl. Highest water level 3.63 below lsd, Apr. 26, 1950; lowest 11.14 below lsd, Nov. 6, 1953. Records available: 1947-55. Apr. 15, 7.09; June 16, 8.02; Sept. 20, 9.34; Dec. 14, 8.34.

KoKO 242. Kalamazoo Creamery. Portage and Lake Sts. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 61 feet. Land-surface datum is 773.19 feet above msl. Highest water level 13.98 below lsd, May 3-4, 1950; lowest 27.42 below lsd, Dec. 5-6, 1946. Records available: 1946-55. Apr. 15, 19.14; June 15, 20.10; Sept. 20, 22.81.

KoKO 284. Bryant Paper Co. Alcott and Portage Sts. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 12 inches, depth 113 feet, screen 83-113. Land-surface datum is 802.59 feet above msl. Highest water level 34.46 below lsd, May 5, 1950; lowest 64.37 below lsd, Sept. 1, 1946. Records available: 1946-55. Measurement made by City Light and Water Utilities.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.34	39.05	39.05	38.87	38.53	39.49	40.14	40.18	41.70	41.84	41.13	40.56
2	39.34	39.10	39.11	38.86	38.51	39.52	39.94	40.49	41.68	41.65	41.16	40.41
3	39.32	39.18	39.07	38.74	38.70	39.53	39.74	40.40	41.68	41.41	41.18	40.41
4	39.30	39.16	39.05	38.66	38.76	39.54	39.62	40.63	41.60	41.56	41.18	40.10
5	39.35	38.94	39.04	38.78	38.82	39.30	39.54	40.67	41.27	41.61	41.05	40.00
6	39.40	.....	38.98	38.87	38.85	39.17	39.74	40.57	41.15	41.68	40.80	40.31
7	39.45	.....	38.84	38.86	38.76	39.54	39.89	40.39	41.52	41.72	40.74	40.34
8	39.29	39.07	38.97	38.91	38.81	39.60	40.05	40.33	41.55	41.64	40.83	40.37
9	39.22	39.10	38.94	38.85	38.64	39.64	39.98	40.70	41.56	41.47	40.91	40.39
10	39.17	39.19	38.95	38.72	38.84	39.65	39.71	40.79	41.61	41.32	40.84	40.38
11	39.33	39.11	38.97	38.54	39.14	39.51	39.64	40.86	41.64	41.48	40.81	40.04
12	39.28	39.04	38.98	38.77	39.09	39.35	39.89	40.92	41.37	41.50	40.86	39.87
13	39.26	39.16	38.92	38.82	39.14	39.18	40.00	40.87	41.57	41.54	40.73	40.13
14	39.30	38.94	38.85	38.77	39.11	39.31	40.00	40.65	42.18	41.50	40.54	40.26
15	39.16	39.10	38.95	38.89	39.17	39.46	39.99	40.55	41.59	41.42	40.63	40.25
16	39.09	39.15	39.08	38.84	38.86	39.41	40.00	40.85	41.67	41.36	40.70	40.38
17	.....	39.27	39.14	38.64	39.31	39.50	39.79	41.02	41.69	41.36	40.82	40.19
18	.....	39.24	38.97	38.51	39.28	39.50	39.70	41.10	41.72	41.42	40.81	40.06
19	.....	39.14	38.98	38.66	39.34	39.35	40.06	41.45	41.42	41.46	40.77	39.97
20	.....	39.03	38.84	38.72	39.41	39.21	40.08	41.34	41.67	41.45	40.81	40.28
21	.....	38.98	38.73	38.73	39.41	39.49	40.07	41.33	41.73	41.43	40.43	40.35
22	39.31	39.10	38.89	38.71	39.22	39.62	40.10	41.01	41.73	41.50	40.82	40.36
23	39.08	39.14	39.13	38.63	38.98	39.66	40.14	41.33	41.83	41.37	40.64	40.43
24	38.99	39.20	39.11	38.45	39.35	39.70	40.10	41.40	41.82	41.14	40.74	40.43
25	39.15	39.21	39.02	38.46	39.42	39.68	39.92	41.38	41.83	41.25	40.47	40.49
26	39.28	39.01	38.85	38.77	39.53	39.50	40.20	41.43	41.64	41.24	40.54	40.36
27	39.32	38.95	38.86	38.81	39.49	39.36	40.38	41.48	41.73	41.28	40.30	40.18
28	39.29	38.87	38.72	38.77	39.54	39.73	40.30	41.44	41.81	41.24	40.09	41.81
29	39.26	.....	38.87	38.80	39.34	40.90	40.34	41.24	41.73	41.19	40.41	40.95
30	39.00	.....	38.93	38.75	39.17	41.18	40.44	41.49	41.84	41.28	40.59	40.95
31	38.98	.....	38.84	.....	39.12	.....	40.36	41.69	.....	41.00	.....	40.82

h Tape measurement.

City of Parchment

KoPT 50. Kalamazoo Vegetable Parchment Co. Riverview Ave. and Robert Lane. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 12 inches, depth 36 feet. Land-surface datum is 774.05 feet above msl. Highest water level 18.85 below lsd, Mar. 7, 1955; lowest 24.60 below lsd, July 27, 1953. Records available: 1951-55. Measurement made by Maintenance Dept.

KoPT 50--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	19.33	Apr. 4	19.10	July 5	20.83	Oct. 10	22.28
10	18.94	11	22.80	18	20.33	17	22.60
17	19.25	18	23.41	25	20.35	24	22.68
24	19.50	25	23.44	Aug. 1	20.34	31	22.96
31	19.75	May 2	23.58	8	20.30	Nov. 7	22.81
Feb. 7	19.75	9	21.17	15	20.40	14	22.71
14	19.70	16	20.88	22	20.05	21	22.54
21	19.55	23	20.57	29	20.53	28	22.67
28	18.98	31	20.25	Sept. 6	20.49	Dec. 6	22.81
Mar. 7	18.85	June 6	20.26	12	20.55	12	22.07
14	19.05	13	19.95	19	20.62	19	22.34
21	19.10	20	20.20	26	21.65	27	21.83
28	18.85	27	20.28	Oct. 3	22.48		

Village of Vicksburg

KoVB 6. Lee Paper Co. Washington St. and Mill Pond. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 144 feet. Highest water level 2.08 above lsd, Apr. 7, 1947; lowest 10.15 below lsd, Sept. 9, 1946. Records available: 1946-55. Measurement made by Lee Paper Co.

Jan. 7	0.75	June 25	0.91	Sept. 17	2.70	Nov. 5	1.62
Apr. 28	.60	July 2	.37	24	1.71	12	1.70
May 7	.80	16	1.55	Oct. 1	1.89	19	.52
27	1.44	30	1.04	8	.99	26	.47
June 3	.46	Aug. 13	1.49	22	1.91	Dec. 3	.93
11	.35	20	1.61	31	1.72	10	.96
18	.57						

KoVB 7. Lee Paper Co. Washington St. and Mill Pond. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 48 feet. Highest water level 0.55 above lsd, July 8, 1950; lowest 9.72 below lsd, Sept. 14, 1946. Records available: 1946-55. Measurement made by Lee Paper Co.

Jan. 7	4.43	June 25	8.60	Sept. 17	7.95	Nov. 5	4.95
Apr. 28	4.60	July 2	2.72	24	9.35	12	3.42
May 7	4.78	16	6.68	Oct. 1	7.57	19	6.63
27	3.99	30	5.28	8	8.77	26	4.21
June 3	3.86	Aug. 13	6.51	22	6.33	Dec. 3	4.39
11	4.32	20	9.48	31	4.35	10	4.11
18	6.30						

Kalamazoo Township

KoKo 42. Western Michigan College of Education. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 2 S., R. 11 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 8 inches, depth 78 feet. Land-surface datum is 868.68 feet above msl. Highest water level 33.44 below lsd, June 19, 1950; lowest 36.43 below lsd, Dec. 5, 1946. Records available: 1946-55. Apr. 14, 35.44; June 15, 35.42; Sept. 20, 36.16; Dec. 14, 35.98.

Schoolcraft Township

KoSc 5. H. H. Chamberlain. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 4 S., R. 11 W. Driven unused water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 19 feet. Highest water level 13.48 below lsd, May 4, 1954; lowest 15.22 below lsd, Jan. 20, 1954. Records available: 1953-55.

Jan. 6	14.15	Apr. 14	13.84	July 13	14.21	Oct. 12	14.46
13	13.84	22	13.80	20	14.29	20	14.42
20	13.91	27	13.82	27	14.40	27	14.42
26	14.02	May 5	13.71	Aug. 3	14.47	Nov. 3	14.47
Feb. 9	14.16	11	13.90	10	14.49	10	14.37
16	14.20	18	13.97	17	14.56	18	14.34
23	13.78	25	14.06	26	14.65	25	14.34
Mar. 3	13.78	June 2	14.03	31	14.62	30	14.34
9	13.84	8	14.00	Sept. 7	14.69	Dec. 8	14.30
17	13.91	15	14.05	14	14.73	14	14.31
23	13.88	23	14.17	23	14.78	22	14.34
30	13.73	30	14.25	29	14.80	28	14.36
Apr. 6	13.78	July 6	14.28	Oct. 6	14.71		

Kalkaska County

Blue Lake Township

KaBk 22. State Dept. of Conservation. $SE\frac{1}{4}SE\frac{1}{4}$ sec. 35, T. 28 N., R. 5 W. Driven observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Highest water level 8.62 below lsd, Apr. 16, 1953; lowest 11.77 below lsd, Dec. 14, 1949. Records available: 1949-55. Jan. 10, 10.09; Apr. 12, 9.36; July 12, 10.14; Oct. 11, 11.26.

Clearwater Township

KaCw 100. State Dept. of Conservation. $SE\frac{1}{4}NW\frac{1}{4}$ sec. 36, T. 27 N., R. 5 W. Jetted observation water-table well in deposits of Pleistocene age, diameter $1\frac{1}{2}$ inches, depth 16 feet, screen 14-16. Highest water level 11.12 below lsd, July 11, 1943; lowest 14.69 below lsd, Mar. 12, 1940. Records available: 1939-55. Jan. 10, 12.93; Apr. 12, 12.43; July 12, 13.03; Oct. 11, 13.92.

Kent County

City of Grandville

KeGV 13. Jervis Corp. Wallace and 30th Sts. Drilled observation water-table well in gravel of Pleistocene age, diameter $1\frac{1}{2}$ inches, depth 20 feet, screen 17-20. Land-surface datum is 608.26 feet above msl. Highest water level 9.09 below lsd, May 5, 1950; lowest 16.81 below lsd, Feb. 12, 1954. Records available: 1950-55. Measurement made by Jervis Corp.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	12.19	Apr. 8	10.67	July 1	12.39	Oct. 6	13.94
14	11.75	15	10.64	15	12.62	13	13.93
21	11.45	22	10.84	22	12.70	27	14.18
28	11.40	29	10.95	29	12.81	Nov. 4	14.29
Feb. 11	11.42	May 6	11.08	Aug. 12	12.83	10	14.42
25	11.53	13	11.28	19	12.58	25	14.35
Mar. 4	11.36	20	11.40	31	13.42	Dec. 2	14.40
11	11.13	27	11.57	Sept. 8	13.38	9	14.17
18	10.99	June 10	11.84	15	13.53	16	14.13
25	10.89	17	11.94	22	13.77	23	14.13
Apr. 1	10.78	24	12.15	29	13.90	30	13.95

Manistee County

Norman Township

MsNr 1. State of Michigan. $NE\frac{1}{4}NE\frac{1}{4}$ sec. 13, T. 21 N., R. 14 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 62 feet. Highest water level 12.54 below lsd, May 8, 1951; lowest 16.12 below lsd, Dec. 19, 1949. Records available: 1949-54. No measurement made in 1955.

Marquette County

Michigamme Township

MqMc 1. W. M. P. No. 13. Marquette County Road Commission. Near Champion. $SW\frac{1}{4}NE\frac{1}{4}$ sec. 22, T. 49 N., R. 30 W. Driven observation water-table well in sand and gravel, diameter $1\frac{1}{2}$ inches, depth 17 feet, screen 14-17. Highest water level 0.64 below lsd, May 3, 1951; lowest 13.32 below lsd, Sept. 2, 1948. Records available: 1948-55.

Jan. 3	10.36	Apr. 29	8.54	Aug. 2	10.61	Nov. 1	9.73
Feb. 1	10.43	May 31	9.22	Sept. 2	10.81	Dec. 2	10.06
28	10.18	July 6	10.73	Oct. 3	10.61	30	10.00
Mar. 30	9.95						

Republic Township

MqRe 1. W. M. P. No. 4. Arnold Janofski. Near Republic. $SW\frac{1}{4}NW\frac{1}{4}$ sec. 1, T. 45 N., R. 30 W. Dug unused water-table well in glacial till, diameter 36 inches, depth 30 feet, cased with corrugated metal pipe. Highest water level 24.38 below lsd, Dec. 13, 1951; lowest 29.28 below lsd, Mar. 15, 1949. Records available: 1945-55.

MqRe 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	25.58	Apr. 26	g25.56	July 6	25.02	Sept. 27	g25.65
Feb. 1	g25.77	29	25.49	28	g25.22	Oct. 3	25.70
22	g25.89	May 12	g25.25	Aug. 2	25.26	Nov. 1	25.88
28	25.92	30	g25.12	26	g25.43	Dec. 2	26.07
Mar. 25	g26.08	31	25.11	Sept. 2	25.45	30	26.30
30	25.55	June 29	g25.02				

g By State Geological Survey.

Mason County

Logan Township

MaLo 1. State Dept. of Conservation. U. S. Forest Service, Manistee National Forest. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 17 N., R. 15 W. Drilled unused water-table well in deposits of Pleistocene age, diameter 6 inches, depth 32 feet. Land-surface datum is 737.37 feet above msl. Highest water level 14.44 below lsd, May 15, 1952; lowest 18.50 below lsd, Mar. 1, 1951. Records available: 1948-55. Jan. 13, 16.89; Apr. 26, 15.85; July 18, 15.21; Oct. 20, 17.47.

Montcalm County

City of Greenville

MmGV 9. City of Greenville. Fairplain St. and Pere Marquette RR. Drilled unused artesian well in gravel of Pleistocene age, diameter 12 inches, depth 65 feet, screen 45-65. Highest water level 11.40 below lsd, Apr. 1, 1950; lowest 17.36 below lsd, Aug. 3, 1955. Records available: 1950-55. Measurement made by City Waterworks.

Jan. 5	14.67	Apr. 6	14.51	July 6	15.88	Oct. 5	15.63
12	14.76	13	14.71	13	16.07	12	15.82
19	14.99	20	15.31	20	15.74	19	15.96
26	15.23	27	14.36	27	16.57	26	15.66
Feb. 2	15.11	May 4	14.31	Aug. 3	17.36	Nov. 2	15.91
9	15.34	11	14.81	10	16.28	9	15.55
16	15.04	18	15.11	17	16.34	16	14.96
23	15.71	25	14.98	24	16.45	24	15.07
Mar. 2	14.86	June 1	14.42	Sept. 1	15.89	30	15.61
9	15.01	8	15.05	7	15.42	Dec. 7	15.98
16	14.17	15	14.64	14	16.09	14	15.53
23	14.19	22	15.62	21	15.48	21	15.73
30	14.17	29	16.96	28	15.75	28	14.77

Montmorency County

Albert Township

MyAb 1. State Dept. of Conservation. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T. 29 N., R. 2 E. Drilled unused artesian well in deposits of Pleistocene age, diameter 6 inches, depth 64 feet. Highest water level 10.29 above lsd, May 13, 1953; lowest 4.95 below lsd, Jan. 29, 1949. Records available: 1948-53. No measurement made in 1955.

Briley Township

MyBr 6. State Dept. of Conservation. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 31 N., R. 2 E. Jetted observation water-table well in sand and gravel of Pleistocene age, diameter 2 inches, depth 13 feet, open bottom. Highest water level 7.40 below lsd, Mar. 29, 1938, Apr. 21, 1952; lowest dry, Oct. 27, 1939. Records available: 1934-55. Jan. 11, 10.37; Apr. 15, 8.99; July 13, 10.26; Oct. 12, 11.95.

Hillman Township

MyHm 22. State Dept. of Conservation. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 31 N., R. 3 E. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Highest water level 2.85 below lsd, Apr. 21, 1952; lowest 7.76 below lsd, Dec. 15, 1949. Records available: 1936-44, 1948-55. Jan. 11, 6.01; Apr. 15, 4.87; July 13, 5.97; Oct. 12, 7.50.

Loud Township

MyLd 6. State Dept. of Conservation. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 29 N., R. 3 E. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Highest water level 2.63 below lsd, May 15, 1952; lowest 5.86 below lsd, Dec. 15, 1949. Records available: 1945-55. Jan. 12, 4.60; Apr. 15, 3.91; July 13, 4.46; Oct. 12, 5.61.

Montmorency Township

MyMy 1. State Dept. of Conservation. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 32 N., R. 2 E. Drilled unused water-table well in deposits of Pleistocene age, diameter 2 inches, depth 24 feet. Highest water level 17.41 below lsd, May 15, 1952; lowest 20.97 below lsd, Aug. 17, 1949. Records available: 1948-55. Jan. 11, 19.64; Apr. 15, 19.28; July 13, 19.13; Oct. 13, 20.07.

Rust Township

MyRs 18. State Dept. of Conservation. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 30 N., R. 4 E. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 10 feet, open bottom. Highest water level 0.78 above lsd, July 2, 1945; lowest 2.33 below lsd, Sept. 23, 1948. Records available: 1935-37, 1945-55. Jan. 12, -0.03; Apr. 15, +0.14; July 13, -1.97; Oct. 12, -1.12.

Oakland County

City of Bloomfield Hills

OaBH 2. Cranbrook School. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 2 N., R. 10 E. Drilled unused artesian well in sand and gravel, diameter 6 inches, depth 65 feet, screen 58-65. Highest water level 11.48 below lsd, Mar. 21, 1955; lowest 17.60 below lsd, Sept. 26, 1955. Records available: 1950-55. Measurement made by Water Dept.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	13.44	Apr. 11	11.65	June 27	14.72	Oct. 3	17.25
17	13.55	18	11.88	July 5	15.10	17	e17.00
24	13.80	25	11.84	11	15.75	24	e17.00
31	14.05	May 9	12.65	18	15.83	Nov. 1	e16.90
Feb. 7	14.40	16	13.89	26	16.33	7	e17.00
14	14.42	23	14.44	Aug. 1	16.45	28	e17.00
21	14.40	June 2	14.03	Sept. 6	17.50	Dec. 6	e16.00
Mar. 7	11.98	6	14.30	12	17.30	12	e16.00
14	11.80	13	14.09	21	17.50	20	16.02
21	11.48	20	14.30	26	17.60	27	16.10

e Estimated.

City of Pontiac

OaPT 1. City of Pontiac. Walnut and Wessen Sts. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 8 inches, depth 160 feet. Land-surface datum is 919.15 feet above msl. Highest water level 59.55 below lsd, Apr. 22, 1940; lowest 129.5 below lsd, Aug. 5, 1955. Records available: 1939-55. Measurement made by Dept. of Water Supply.

Daily 2 a.m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	119.3	118.9	120.2	122.7	121.9	123.4	e124.9	126.8	h126.92	124.5	122.0	122.2
2	117.5	120.2	120.9	122.8	119.9	124.4	125.6	128.4	126.1	124.0	121.9	122.6
3	117.2	120.5	121.1	121.5	120.6	124.8	124.9	128.4	126.1	123.0	122.4	122.5
4	118.8	121.2	121.5	120.9	121.6	124.8	123.9	128.3	125.5	122.8	122.9	121.2
5	119.3	121.0	121.1	121.5	122.6	125.6	124.3	129.5	e124.8	123.7	122.9	120.7
6	119.2	120.3	119.8	121.8	122.7	125.0	125.6	128.5	125.1	123.1	122.3	122.2
7	120.0	118.7	117.9	122.4	122.2	124.3	126.2	127.6	126.2	124.5	121.1	122.3
8	.....	120.3	119.6	122.4	122.3	124.3	126.3	126.3	125.9	124.5	122.2	121.8
9	.....	120.1	120.0	123.0	121.2	124.6	125.7	127.4	126.5	.....	122.5	122.1
10	.....	120.4	121.4	122.0	122.1	124.6	126.0	127.7	126.5	.....	122.4	122.3
11	h119.62	120.1	121.2	120.3	122.7	124.5	125.7	128.4	126.5	.....	122.1	122.2
12	119.6	120.5	122.0	121.9	122.7	123.4	.....	128.0	124.5	h123.77	122.3	120.8
13	.....	120.6	122.2	122.5	123.8	121.8	h127.43	128.0	126.2	123.3	122.7	122.1
14	.....	118.3	120.2	122.1	123.0	122.8	127.9	127.0	125.9	123.0	121.5	122.0
15	.....	119.2	121.9	122.4	123.2	123.5	127.9	126.4	125.7	123.3	121.6	121.7
16	.....	120.0	121.7	122.3	121.9	124.0	126.2	126.8	126.4	122.7	121.2	122.2
17	.....	120.4	123.0	121.1	123.8	124.4	125.9	127.3	126.3	121.4	121.9	121.6
18	h120.24	121.0	123.0	120.3	123.8	125.6	125.9	127.6	126.0	121.6	123.3	120.7
19	.....	120.9	122.8	120.2	124.1	124.2	126.2	128.2	125.3	122.1	123.0	120.4
20	.....	121.2	121.3	120.9	124.2	122.9	126.6	128.5	125.3	122.5	122.6	121.7

OaPT 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	.....	119.3	119.7	120.8	124.8	123.9	127.2	128.3	125.3	122.6	121.2	122.1
22	.....	120.4	121.1	121.5	125.1	124.3	127.7	128.4	125.0	123.2	122.4	121.3
23	.....	120.5	121.0	121.3	122.4	124.3	127.8	127.7	125.8	122.3	121.9	120.8
24	.....	121.0	121.7	119.8	123.7	124.6	126.3	127.8	125.2	120.6	122.4	120.8
25	.....	121.7	122.0	119.0	123.5	124.4	125.7	127.2	124.5	122.2	121.2	119.9
26	h120.44	121.9	122.0	120.8	124.0	123.5	126.6	127.7	124.1	121.5	122.0	119.7
27	119.9	120.4	122.7	121.5	124.8	.....	127.0	128.3	124.3	122.5	122.2	119.2
28	120.6	e119.5	120.8	121.6	124.5	.....	127.3	126.8	124.3	122.6	120.3	120.3
29	120.5		122.3	121.8	122.6	h125.65	127.1	125.1	124.3	122.3	121.0	120.8
30	119.4		123.2	122.2	121.6	126.0	127.3	126.4	123.8	121.9	121.7	120.5
31	118.7		123.5		122.1		127.1	126.5		122.0		119.9

e Estimated.

h Tape measurement.

Ogemaw CountyKlacking Township

OgKa 1. Charles Hudson. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 23 N., R. 2 E. Dug unused water-table well in deposits of Pleistocene age, size 36 by 48 inches, depth 6 feet, planked to open bottom. Highest water level 0.37 below lsd, May 5, 1952; lowest 3.29 below lsd, Nov. 13, 1952. Records available: 1951-55. Apr. 11, 1.58; July 12, 2.08; Oct. 10, 3.24.

Otsego CountyOtsego Lake Township

OsOk 106. State Dept. of Conservation. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 29 N., R. 3 W. Jetted observation water-table well in gravel of Pleistocene age, diameter 2 inches, depth 14 feet, screen 12-14. Highest water level 5.56 below lsd, May 14, 1947; lowest 9.68 below lsd, Sept. 16, 1941. Records available: 1933-55. Jan. 11, 8.03; Apr. 14, 6.97; July 13, 8.02; Oct. 13, 8.58.

Ottawa CountyCity of Holland

OtHO 12. City of Holland. Cleveland Ave. and 26th St. Drilled unused artesian well in gravel of Pleistocene age, diameter 18 inches, depth 29 feet. Highest water level 2.20 below lsd, Apr. 25, 1950; lowest 5.35 below lsd, Nov. 17-18, 1949. Records available: 1949-55. Measurement made by Board of Public Works. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	3.61	Feb. 8	4.18	Mar. 16	3.74	Apr. 12	3.91
11	3.60	15	4.27	23	3.47	19	4.00
18	3.87	22	3.65	29	3.61	26	3.87
25	4.02	Mar. 1	3.35	Apr. 5	3.74	May 3	4.05
Feb. 1	4.12	8	3.45				

Holland Township

OtHo 9. City of Holland. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 5 N., R. 15 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 108 feet. Highest water level 56.44 below lsd, Aug. 8, 1946; lowest dry, Sept. 14-Oct. 5, 1954. Records available: 1946-55. Measurement made by Board of Public Works. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	100.78	Feb. 8	101.36	Mar. 16	104.28	Apr. 12	102.78
11	101.30	15	100.26	23	102.84	19	104.28
18	100.13	22	100.06	29	103.82	26	104.10
25	101.36	Mar. 1	100.64	Apr. 5	102.92	May 5	105.54
Feb. 1	100.91	8	101.43				

OtHo 22. City of Holland. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 5 N., R. 15 W. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 1 inch, depth 70 feet. Land-surface datum is 640.58 feet above msl. Highest water level 5.72 above lsd, May 11, 1948; lowest 1.25 below lsd, Oct. 4, 1949. Records available: 1946-55. Measurement made by Board of Public Works. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	-1.37	Mar. 16	-1.58	Apr. 5	-1.56	Apr. 26	-2.01
Feb. 22	-.97	23	+1.57	12	-1.77	May 3	-1.99
Mar. 1	-1.17	29	-1.26	19	-1.90		

Presque Isle County

Allis Township

PrAs 18. State Dept. of Conservation. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T. 33 N., R. 2 E. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Highest water level 1.80 below lsd, May 23, 1938; lowest 5.62 below lsd, Oct. 18, 1949. Records available: 1934-44, 1948-55. Jan. 11, 3.43; Apr. 15, 3.15; July 13, 3.27; Oct. 13, 5.01.

Roscommon County

Au Sable Township

RoAs 30. State Dept. of Conservation. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 24 N., R. 1 W. Jetted observation water-table well in sand and gravel of Pleistocene age, diameter 2 inches, depth 19 feet, screen 16-19. Highest water level 14.40 below lsd, June 15, 1943; lowest dry, Nov. 6, 1939-May 2, 1940. Records available: 1934-55. Jan. 10, 15.82; Apr. 11, 15.43; July 12, 15.67; Oct. 10, 16.93.

Backus Township

RoBk 15. State Dept. of Conservation. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T. 22 N., R. 2 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 12 feet, screen 9-12. Land-surface datum is 1,165.46 feet above msl. Highest water level 1.34 below lsd, Apr. 1, 1938; lowest 5.38 below lsd, Nov. 9, 1949. Records available: 1934-55. Jan. 10, 3.09; Apr. 12, 2.08; July 12, 3.62; Oct. 10, 5.33.

Denton Township

RoDt 7. State Dept. of Conservation. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 22 N., R. 3 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 13 feet, screen 11-13. Land-surface datum is 1,170.58 feet above msl. Highest water level 3.25 below lsd, Apr. 17, 1952; lowest 8.25 below lsd, Dec. 13, 1949. Records available: 1934-55. Jan. 10, 5.22; Apr. 12, 4.10; July 12, 5.10; Oct. 11, 7.14.

Gerrish Township

RoGr 1. State Dept. of Conservation. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 24 N., R. 3 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 15 feet, screen 12-15. Land-surface datum is 1,162.42 feet above msl. Highest water level 5.95 below lsd, July 9, 1943; lowest 11.62 below lsd, Dec. 13, 1949. Records available: 1934-55. Jan. 10, 8.16; Apr. 12, 7.08; July 12, 8.11; Oct. 11, 9.92.

Higgins Township

RoHg 1. State Dept. of Conservation. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 24 N., R. 2 W. Jetted observation water-table well in sand of Pleistocene age, diameter 8 inches, depth 14 feet, open bottom. Land-surface datum is 1,145.30 feet above msl. Highest water level 2.78 below lsd, May 3, 1951; lowest 6.23 below lsd, Dec. 6-11, 1949. Records available: 1934-55.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.68	4.85	4.95	4.29	3.87	4.30	4.77	5.52	5.78	6.01	6.02	5.87
2	4.68	4.86	4.96	4.20	3.88	4.32	4.79	5.55	5.80	6.02	6.02	5.87
3	4.70	4.87	4.97	4.08	3.88	4.33	4.82	5.57	5.82	6.02	6.02	5.87
4	4.70	4.88	4.97	4.02	3.90	4.33	4.85	5.58	5.84	6.02	6.02	5.88
5	4.70	4.88	4.97	3.97	3.91	4.35	4.88	5.59	5.86	6.03	6.01	5.87
6	4.70	4.87	4.98	3.94	3.93	4.36	4.90	5.55	5.87	6.02	6.00	5.87
7	4.71	4.89	4.98	3.92	3.93	4.37	4.95	5.55	5.88	6.02	6.00	5.86
8	4.71	4.90	4.99	3.91	3.96	4.36	4.95	5.58	5.89	6.01	5.99	5.86
9	4.72	4.90	4.99	3.89	4.00	4.38	4.98	5.60	5.89	6.02	5.99	5.87
10	4.73	4.90	4.95	3.89	4.01	4.39	5.01	5.61	5.90	6.02	5.99	5.87
11	4.73	4.91	4.74	3.88	4.02	4.40	5.04	5.62	5.90	6.03	5.98	5.88
12	4.74	4.91	4.66	3.87	4.04	4.40	5.07	5.64	5.91	6.04	5.98	5.88
13	4.74	4.93	4.67	3.87	4.06	4.41	5.10	5.65	5.91	6.04	5.99	5.89
14	4.75	4.93	4.66	3.85	4.09	4.43	5.13	5.67	5.92	6.04	5.99	5.89
15	4.73	4.93	4.61	3.85	4.11	4.45	5.16	5.67	5.92	6.04	6.00	5.90
16	4.76	4.94	4.67	3.85	4.13	4.46	5.17	5.68	5.93	6.05	5.99	5.90
17	4.77	4.95	4.53	3.86	4.14	4.47	5.18	5.70	5.94	6.05	5.98	5.90
18	4.77	4.95	4.52	3.87	4.15	4.49	5.19	5.73	5.95	6.04	5.98	5.91
19	4.78	4.95	4.51	3.85	4.16	4.51	5.21	5.74	5.96	6.03	e5.99	5.91
20	4.79	4.95	4.50	3.86	4.19	4.53	5.23	5.75	5.96	6.04	e5.99	5.92

RoHg 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	4.79	4.91	4.49	3.83	4.21	4.55	5.26	5.77	5.97	6.05	e5.98	5.92
22	4.78	4.90	4.47	3.82	4.23	4.57	5.28	5.79	5.97	6.04	e5.97	5.92
23	4.80	4.91	4.43	3.81	4.24	4.58	5.30	5.81	5.98	6.03	e5.94	5.92
24	4.81	4.93	4.40	3.81	4.25	4.60	5.32	5.82	5.99	6.02	e5.91	5.92
25	4.81	4.94	4.39	3.80	4.24	4.62	5.35	5.83	5.99	6.00	5.90	5.92
26	4.82	4.94	4.37	3.82	4.23	4.65	5.37	5.85	6.00	5.99	5.89	5.92
27	4.82	4.95	4.36	3.83	4.24	4.67	5.40	5.85	6.01	5.99	5.87	5.92
28	4.83	4.95	4.36	3.84	4.24	4.70	5.42	5.85	6.01	6.00	5.87	5.92
29	4.83		4.35	3.84	4.24	4.72	5.44	5.84	6.01	6.01	5.86	5.92
30	4.84		4.35	3.86	4.26	4.75	5.47	5.85	6.01	6.01	5.86	5.92
31	4.85		4.33		4.28		5.50	5.78		6.01		5.93

e Estimated.

Markey Township

RoMk 5. State Dept. of Conservation. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 23 N., R. 3 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Land-surface datum is 1,154.29 feet above msl. Highest water level 3.44 below lsd, Apr. 17, 1952; lowest 6.76 below lsd, Aug. 14, 1936. Records available: 1934-55. Jan. 10, 4.90; Apr. 12, 4.00; July 12, 5.65; Oct. 11, 6.50.

Richfield Township

RoRf 50. State Dept. of Conservation. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 23 N., R. 1 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 12 feet, screen 10-12. Highest water level 0.93 below lsd, Jan. 12, 1942; lowest 7.31 below lsd, Dec. 14, 1949. Records available: 1939-55. Jan. 10, 3.74; Apr. 11, 2.61; July 12, 4.13; Oct. 10, 6.02.

Roscommon Township

RoRo 15. State Dept. of Conservation. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 21 N., R. 3 W. Jetted observation water-table well in sand and gravel of Pleistocene age, diameter 2 inches, depth 15 feet, open bottom. Land-surface datum is 1,147.86 feet above msl. Highest water level 9.61 below lsd, June 15, 1943; lowest 11.81 below lsd, Nov. 11, 1949. Records available: 1934-55. Jan. 10, 10.80; Apr. 12, 10.25; July 12, 10.69; Oct. 11, 11.03.

Saginaw County

City of Chesaning

SgCH 9. August Bauer. Clark and West Broad Sts. Drilled unused artesian well in Saginaw formation, diameter 2 inches, depth 72 feet. Highest water level 39.66 below lsd, Nov. 23, 1951; lowest dry several times, 1953-55. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	57.35	Apr. 12	63.33	July 11	(f)	Oct. 9	67.15
9	61.66	18	64.56	17	(f)	16	70.05
16	48.64	24	68.07	24	(f)	23	62.55
28	59.28	May 1	62.45	31	(f)	30	63.10
Feb. 5	58.48	8	68.35	Aug. 7	(f)	Nov. 6	62.00
11	63.61	15	62.45	14	(f)	13	60.85
18	65.01	22	58.60	21	(f)	20	61.75
Mar. 1	60.36	30	64.70	28	70.00	27	61.25
7	61.82	June 5	53.70	Sept. 4	70.35	Dec. 4	62.30
16	64.36	12	(f)	14	68.35	11	60.23
21	57.35	19	(f)	26	65.50	21	65.01
27	63.33	26	70.18	Oct. 2	68.50	26	64.00
Apr. 3	59.25	July 3	(f)				

f Dry.

St. Joseph County

City of Three Rivers

SpTR 1. City of Three Rivers. Spring and West Michigan Sts. Driven unused artesian well in sand and gravel of Pleistocene age, diameter 6 inches, depth 59 feet, screen 39-59. Land-surface datum is 790.92 feet above msl. Highest water level 2.90 above lsd, May 22, 29, June 12, 1953; lowest 5.50 below lsd, Sept. 27, 1947. Records available: 1939-55. Measurements made by city of Three Rivers.

SpTR 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	-1.87	May 6	+0.01	July 22	-1.52	Oct. 7	-1.13
Feb. 18	-2.62	13	+.43	29	1.68	14	1.03
25	-.22	20	-1.04	Aug. 5	1.61	21	1.02
Mar. 4	+.20	27	+.24	12	1.96	28	.94
11	-2.14	June 3	-1.26	19	2.24	Nov. 4	1.32
18	-1.57	10	+.32	26	1.36	11	1.22
25	+.69	17	-1.18	Sept. 2	2.21	18	.95
Apr. 1	-.58	24	.96	9	.48	Dec. 2	1.70
8	.57	July 1	1.35	16	2.56	9	1.02
15	.84	8	.81	23	1.10	23	.20
22	.69	15	2.22	30	1.27	30	2.01
29	2.57						

Sanilac County

Moore Township

SaMr 1. State Highway Dept. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 12 N., R. 13 E. Driven unused artesian well in lower Marshall formation, diameter 3 inches, depth 150 feet, cased to 53. Highest water level 15.45 below lsd, Apr. 25, 1951; lowest 23.26 below lsd, Dec. 28, 1955. Records available: 1948-55.

Jan. 5	16.25	Apr. 6	16.08	July 6	18.48	Oct. 12	22.15
12	16.19	13	16.55	13	18.55	19	22.38
19	16.51	20	16.55	20	18.75	26	22.53
26	16.89	27	16.40	27	19.20	Nov. 2	22.70
Feb. 2	17.34	May 4	16.38	Aug. 3	19.24	9	22.77
9	17.59	11	16.90	10	19.48	16	22.79
16	17.66	18	17.23	17	19.70	23	22.85
23	17.58	25	17.33	24	20.15	30	23.08
Mar. 2	16.95	June 1	17.52	31	20.50	Dec. 7	23.02
9	16.60	8	17.64	Sept. 7	20.80	14	23.00
16	16.38	15	17.87	14	21.17	21	23.15
24	16.21	22	18.07	21	21.55	28	23.26
30	16.17	29	18.28	26	21.70		

Schoolcraft County

Germfask Township

SoGe 112. U. S. Fish and Wildlife Service. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 45 N., R. 13 W. Drilled unused artesian well in Richmond group, diameter 4 inches, depth 151 feet, cased to about 65. Highest water level 5.09 below lsd, Apr. 12, 1954; lowest 6.28 below lsd, Sept. 26, 1955. Records available: 1952-55. Measurement made by Fish and Wildlife Service.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.65	5.57	5.47	5.38	5.61	5.74	5.73	6.04	6.08	6.24	6.02	5.94
2	5.64	5.62	5.47	5.39	5.59	5.76	5.75	6.06	6.10	6.23	6.03	5.89
3	5.69	5.65	5.54	5.42	5.59	5.74	5.78	6.08	6.10	6.24	6.03	5.87
4	5.69	5.67	5.50	5.45	5.58	5.72	5.79	5.95	6.10	6.16	6.04	5.84
5	5.66	5.60	5.53	5.46	5.55	5.72	5.79	5.92	6.11	6.16	6.04	5.83
6	5.65	5.56	5.51	5.43	5.59	5.72	5.80	5.94	6.12	6.10	5.99	5.85
7	5.68	5.57	5.51	5.46	5.54	5.69	5.81	5.90	6.14	6.10	5.98	5.80
8	5.66	5.57	5.50	5.47	5.58	5.69	5.82	5.95	6.16	6.06	6.01	5.81
9	5.65	5.53	5.46	5.43	5.63	5.73	5.82	5.95	6.16	6.08	6.00	5.85
10	5.66	5.54	5.47	5.42	5.62	5.75	5.87	5.94	6.11	6.07	5.96	5.86
11	5.67	5.54	5.43	5.41	5.62	5.74	5.90	5.96	6.15	6.08	5.93	5.86
12	5.66	5.55	5.48	5.46	5.63	5.74	5.91	5.98	6.17	6.06	5.98	5.87
13	5.63	5.58	5.47	5.53	5.63	5.75	5.93	5.99	6.19	6.06	6.02	5.86
14	5.64	5.55	5.48	5.52	....	5.77	5.90	5.99	6.16	6.09	6.00	5.81
15	5.58	5.54	5.40	5.55	....	5.80	5.89	6.00	6.16	6.09	6.02	5.81
16	5.61	5.53	5.42	5.61	....	5.81	5.87	6.02	6.16	6.10	5.92	5.82
17	5.65	5.57	5.45	....	h5.67	5.82	5.89	6.04	6.16	6.08	5.88	5.77
18	5.67	5.57	5.41	....	5.64	5.83	5.91	6.04	6.18	6.09	5.98	5.81
19	5.67	5.56	5.44	h5.64	5.63	5.83	5.96	6.06	6.16	6.11	5.96	5.83
20	5.68	5.54	5.42	5.62	5.66	5.79	5.95	6.07	6.17	6.12	5.97	5.84

SoGe 112--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.64	5.49	5.42	5.53	5.66	5.69	5.96	6.04	6.21	6.14	5.93	5.83
22	5.58	5.52	5.36	5.50	5.65	5.71	5.96	6.07	6.21	6.16	5.97	5.75
23	5.59	5.52	5.31	5.51	5.63	5.72	5.97	6.10	6.21	6.12	5.90	5.74
24	5.61	5.54	5.34	....	5.62	5.73	6.01	6.12	6.21	6.03	5.93	5.70
25	5.62	5.55	5.36	....	5.65	5.75	6.03	6.11	6.25	6.06	5.97	5.76
26	5.62	5.50	5.36	5.60	5.70	5.77	6.02	6.13	6.27	6.03	5.95	5.80
27	5.62	5.52	5.37	5.58	5.69	5.79	6.00	6.12	6.24	6.05	5.90	5.81
28	5.61	5.51	5.38	5.58	5.66	5.81	6.02	6.13	6.18	6.04	5.89	5.79
29	5.60		5.38	5.59	5.63	5.80	6.02	6.09	6.20	6.02	5.90	5.74
30	5.61		5.39	5.63	5.68	5.73	6.02	6.05	6.18	5.99	5.92	5.76
31	5.62		5.38		5.72		6.03	6.06		6.00		5.72

h Tape measurement.

Shiawassee County

Village of Perry

ShPR 8. Arthur B. Cobb. 115 West Second St. Driven unused water-table well in deposits of Pleistocene age, diameter $1\frac{1}{2}$ inches, depth 26 feet. Highest water level 17.28 below lsd, May 3, 1950; lowest 21.10 below lsd, Oct. 30, 1953. Records available: 1948-55. Apr. 7, 18.90; June 13, 19.59; Sept. 15, 20.86; Dec. 13, 20.86.

Washtenaw County

City of Ypsilanti

WaYP 44. City of Ypsilanti. Park St. and Michigan Ave. Drilled unused water-table well in gravel of Pleistocene age, diameter 6 inches, depth 97 feet, screen 90-95. Highest water level 29.12 below lsd, Nov. 5, 1945; lowest 42.17 below lsd, Sept. 13, 1952. Records available: 1944-46, 1948-53. No measurement made in 1955.

Pittsfield Township

WaPf 2. City of Ann Arbor. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 3 S., R. 6 E. Dug unused artesian well in gravel of Pleistocene age, diameter 16 feet, depth 23 feet, open bottom. Highest water level 2.00 above lsd, June 30, 1951; lowest 15.31 below lsd, Aug. 30, 1953. Records available: 1948-55. Measurement made by Board of Water.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	9.90	Apr. 30	2.23	July 22	8.72	Oct. 13	4.03
20	3.54	May 1	2.43	29	9.00	20	4.70
28	4.80	8	2.00	Aug. 7	8.60	27	4.76
Feb. 6	2.49	20	7.83	15	8.81	Nov. 8	4.43
15	2.00	29	7.90	20	9.61	15	4.40
26	1.94	June 1	8.2	27	4.92	22	4.63
Mar. 8	8.44	8	5.92	Sept. 7	4.48	29	5.13
16	1.80	20	8.60	14	4.30	Dec. 7	4.85
24	1.80	29	15.17	21	8.86	14	4.65
30	1.74	July 6	7.90	28	4.40	21	4.70
Apr. 10	1.85	12	8.0	Oct. 6	4.19	28	4.95
15	1.87						

York Township

WaYk 22. Ypsilanti State Hospital. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 4 S., R. 6 E. Drilled unused artesian well in gravel of Pleistocene age, diameter 6 inches, depth 173 feet. Highest water level 61.48 below lsd, June 12, 1953; lowest 88.27 below lsd, July 8, 1955. Records available: 1946-55. Measurement made by Ypsilanti State Hospital.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	84.28	Apr. 1	69.72	July 15	87.82	Oct. 6	84.08
14	87.14	8	69.36	22	84.95	14	84.76
21	70.33	15	83.20	29	87.51	21	69.85
28	85.24	22	69.12	Aug. 5	71.48	28	76.03
Feb. 11	70.13	29	70.22	12	83.36	Nov. 4	68.70
17	79.98	May 20	84.21	26	69.90	18	77.36
25	85.85	27	70.05	Sept. 2	79.80	Dec. 2	66.85
Mar. 4	68.75	June 10	69.35	9	85.29	9	76.83
11	68.60	17	70.20	16	69.70	16	80.74
18	84.62	July 1	85.78	23	80.45	23	79.08
25	85.78	8	88.27	30	85.05	30	81.86

Ypsilanti Township

WaYp 8. Ford Motor Co. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 3 S., R. 7 E. Drilled unused water-table well in sand of Pleistocene age, diameter 4 inches, depth 87 feet, screen 77-80. Land-surface datum is 665.56 feet above msl. Highest water level 5.79 below lsd, Jan. 5, 1950; lowest 14.80 below lsd, Nov. 13, 1952. Records available: 1949-55. Measurement made by Water Filtration Plant.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	12.60	Mar. 31	13.21	June 25	13.44	Sept. 30	14.14
13	12.80	Apr. 7	13.33	July 7	13.83	Oct. 11	13.97
20	13.04	May 4	13.09	14	14.05	19	14.01
Feb. 1	13.17	11	13.30	28	14.12	Nov. 6	14.26
10	13.23	18	13.37	Aug. 6	14.20	18	14.50
18	13.36	25	13.34	Sept. 2	14.26	Dec. 1	14.47
24	13.31	June 1	13.04	8	14.19	14	14.35
Mar. 9	13.06	10	13.17	21	14.34	29	14.55
16	13.05	16	13.03				

Wexford County

City of Cadillac

WeCD 1. City of Cadillac. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 21 N., R. 9 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 8 to 6 inches, reported depth 277 feet. Highest water level 19.99 below lsd, July 6, 1953; lowest 23.24 below lsd, Feb. 14, 1951. Records available: 1949-55. Jan. 13, 20.34; Apr. 27, 20.14; July 18, 20.55; Oct. 18, 20.97.

Greenwood Township

WeGw 3. State Dept. of Conservation. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 24 N., R. 10 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 18 feet, open bottom. Land-surface datum is 1,005.49 feet above msl. Highest water level 5.20 below lsd, Aug. 6, 1943; lowest 8.96 below lsd, Oct. 18, 1955. Records available: 1935-37, 1941-44, 1948-55. Jan. 13, 7.26; Apr. 14, 6.65; July 14, 7.59; Oct. 18, 8.96.

Henderson Township

WeHn 1. State Dept. of Conservation. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 21 N., R. 11 W. Drilled unused water-table well in deposits of Pleistocene age, diameter 6 inches, depth 62 feet. Highest water level 46.28 below lsd, June 5, 1952; lowest 49.65 below lsd, Mar. 25, 1951. Records available: 1948-55. Jan. 13, 47.73; Apr. 27, 47.79; July 18, 47.41; Oct. 18, 48.49.

Liberty Township

WeLb 38. State Dept. of Conservation. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 24 N., R. 9 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 11 feet, open bottom. Land-surface datum is 994.16 feet above msl. Highest water level 0.94 below lsd, Apr. 10, 1951; lowest 3.74 below lsd, Aug. 19, 1936. Records available: 1935-37, 1941-44, 1949-55. Jan. 13, 1.35; Apr. 14, 1.25; July 14, 2.62; Oct. 18, 3.05.

NEW HAMPSHIRE

By Edward Bradley

Scope of Water-Level Program

In 1955, the observation-well program in New Hampshire was continued and modified to obtain only the most useful water-level records. An investigation of the ground-water resources of the seacoast region of the State that was begun in 1953 in cooperation with the New Hampshire State Planning and Development Commission was continued in cooperation with the New Hampshire Water Resources Board. As a part of this investigation, about 40 wells were measured periodically, 2 of which are equipped with recording gages. Water-level measurements made in four of these wells are included in this report. Water-level measurements on a quarterly basis were begun in the latter part of the year in wells in Keene, Nashua, and Concord; thus far these measurements have been on a trial basis and hence are not included in this report. Weekly measurements were discontinued in the observation well at Hill; instead, measurements are being made about 2 or 3 times a year. Measurements in the New London well were reduced from weekly to 2 or 3 times a month. A continuous record of water-level fluctuations in the observation well at Auburn was obtained by means of a recording gage. Figure 15 shows the location of observation wells.

In August 1955 a preliminary report on the ground-water resources of part of the seacoast region of New Hampshire was released to the open file. This report is available for examination in the New Hampshire State Planning and Development Commission and the New Hampshire Water Resources Board offices in Concord, in the State Geologist's office, and in the U. S. Geological Survey office in Durham.

Precipitation

According to U. S. Weather Bureau records during 1955, precipitation for New Hampshire as a whole was 38.75 inches, 1.04 inches below normal and 15.60 inches less than in 1954. At Durham the total precipitation was 41.08 inches, 1.65 inches above normal. During February, March, June, August, October, and November precipitation for the State as a whole and at Durham was above normal; during the remainder of the months it was below normal. New Hampshire was affected only slightly by the severe storms which struck southern New England in the month of August; most of the effect was reflected in excessive rainfall in the southwestern and west-central parts of the State.

Pumpage

The largest withdrawals of ground water in New Hampshire are in the seacoast region. Large communities elsewhere in the State are for the most part supplied by surface water. During the investigation of the ground-water resources in the seacoast region, records of pumpage were obtained for cities and towns using ground water in that area. The 1955 average daily consumption in gallons is shown below; the figures were obtained from municipal water departments and are based on estimates from hours of pumping at constant rates, except the figure for Newfields, which is based on meter readings.

Dover	1,545,670
Exeter	380,035
Farmington	162,796
Hampton (July and August only)	1,498,740
Hampton (except July and August)	423,106
Newfields	1,856
Portsmouth	2,524,713
Salmon Falls	26,340
Somersworth	530,045

The large increase in average daily consumption in Hampton during July and August reflects the relatively large increase in population in coastal New Hampshire during the summer months.

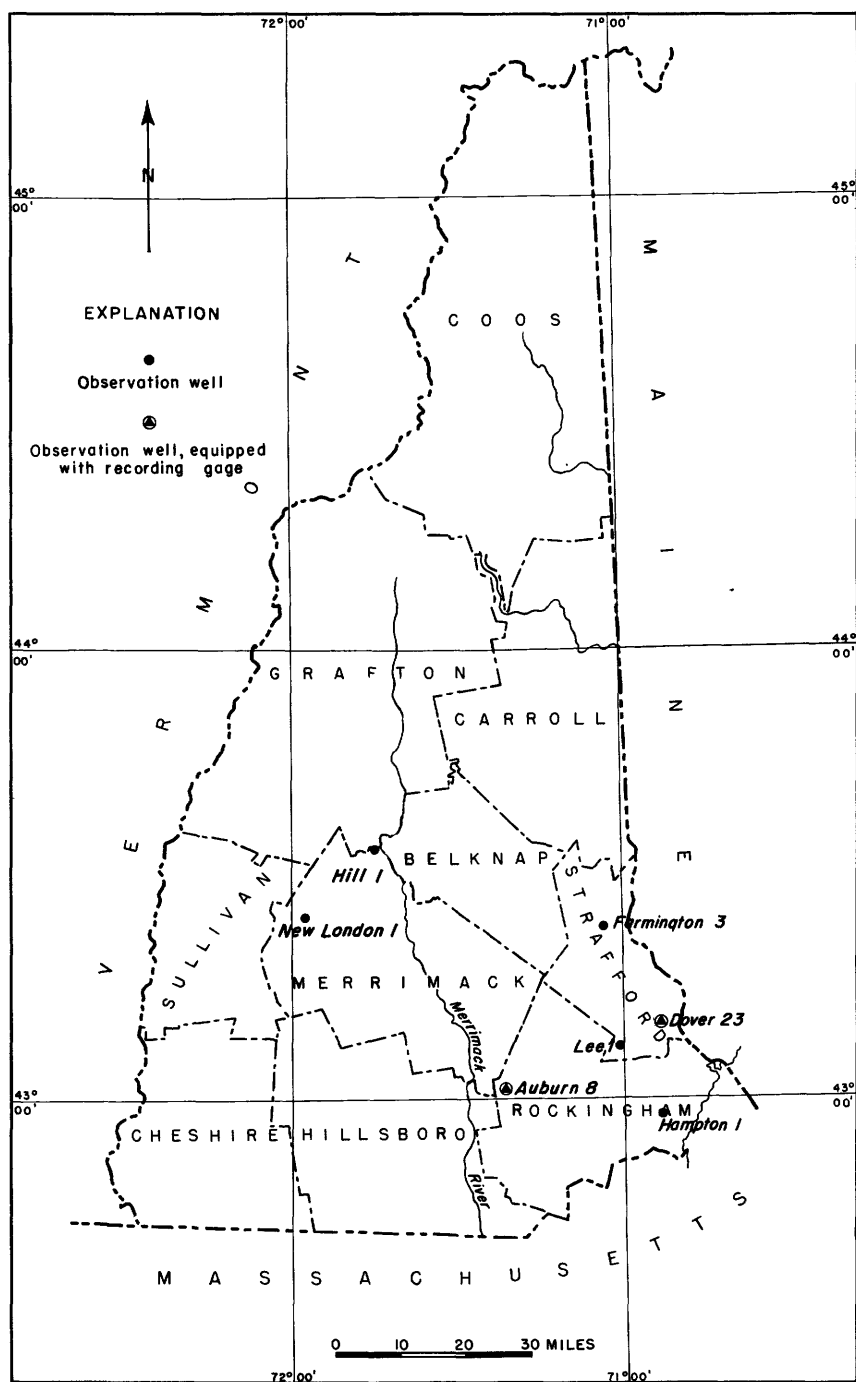


Figure 15. --Location of observation wells in New Hampshire, 1955.

Interpretation of Water-Level Fluctuations

Except in areas affected by pumping, water levels in New Hampshire fluctuate in response to natural recharge and discharge. Because recharge from rain and melting snow is normally greatest in the spring, water levels usually reach their peak in March or April and then decline when recharge is reduced in the summer and early fall. Natural discharge to surface-water bodies by springs and seepage continues. Minimum water levels usually occur in September, October, or November. Water levels in wells in glacial till usually fluctuate through a range from about 5 to 15 feet. In wells in stratified sand and gravel deposits, however, water levels rarely fluctuate more than 2 or 3 feet under natural conditions. This difference is primarily due to the relatively low specific yield of glacial till as compared with that of stratified sand and gravel.

The water-level fluctuations in observation wells in 1955 responded normally to natural conditions of recharge and discharge; they were generally above average during months of above-normal precipitation and below average during months of below-normal precipitation. A new maximum water level for the month of August was set in the New London observation well as a result of excessive rainfall accompanying storms and hurricanes which struck New England during the month.

Acknowledgments

The Manchester Waterworks maintained the recording gage on Auburn 8 and continued periodic measurements of water level in this well.

Well-Numbering System

Wells in New Hampshire are numbered serially within each town or city roughly in the order that the wells were inventoried. Each well is designated by the name of the town or city in which it is located.

Well Descriptions and Water-Level Measurements

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

Merrimack County

Hill 1. J. E. Norcross. Lat. 43°33'54", long. 71°44'50". Dug unused water-table well in sandy glacial till, diameter 18 inches, depth 11 feet. Land-surface datum is about 500 feet above msl. Highest water level 2.43 below lsd, Apr. 13, 1952; lowest dry several times, 1947-50. Records available: 1942-55. Jan. 18, 7.37; Oct. 19, 9.99. Weekly measurements discontinued.

New London 1. W. S. Mariner. Lat. 43°23'46", long. 71°57'09". Dug unused water-table well in sandy glacial till, diameter 36 inches, depth 21 feet. Land-surface datum is about 1,020 feet above msl. Highest water level 0.87 below lsd, Apr. 6, 1952; lowest 16.43 below lsd, Feb. 8, 1948. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	6.19	May 23	8.01	Aug. 1	11.27	Oct. 4	11.18
9	7.16	31	8.46	10	11.82	11	11.53
16	7.67	June 6	6.34	15	10.36	18	11.25
Feb. 9	9.35	13	7.34	23	7.73	Nov. 1	9.01
Mar. 18	6.97	20	7.93	30	8.30	8	4.96
30	7.99	July 11	9.81	Sept. 12	9.52	23	5.66
Apr. 14	6.17	19	10.40	19	10.24	Dec. 8	7.50
May 9	6.12	25	10.80	26	10.65	19	8.49

Rockingham County

Auburn 8. Manchester Waterworks. Lat. 43°00'21", long. 71°18'46". Dug unused water-table well, diameter 32 inches, depth 8 feet. Land-surface datum is about 300 feet above msl. Highest water level 0.50 below lsd, Mar. 22, 1948; lowest 7.84 below lsd, Oct. 26, 1953. Records available: 1942-55.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.66	....	1.78	1.67	1.78	1.87	2.95	5.56	5.12	6.15	2.87	1.65
2	1.57	....	1.73	1.70	1.81	1.98	3.04	5.63	5.17	6.13	2.80	1.65
3	1.59	....	1.80	1.73	1.86	2.12	3.05	5.71	5.22	6.11	2.86	1.64
4	1.62	....	1.84	1.73	1.88	2.10	3.18	5.77	5.28	6.11	2.88	1.63
5	1.63	....	1.86	1.72	1.88	2.07	3.31	5.83	5.33	6.15	2.05	1.60

Auburn 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	1.62	....	1.87	1.72	1.86	2.19	3.12	5.90	5.42	6.20	2.12	1.60
7	1.67	1.70	1.86	1.73	1.86	2.21	3.05	5.94	5.48	6.07	2.28	1.64
8	....	....	1.87	1.74	1.89	2.23	3.29	6.01	5.58	5.80	2.33	1.66
9	....	....	1.87	1.75	1.83	2.25	3.41	6.06	5.65	5.61	2.36	1.68
10	1.72	....	1.88	1.75	1.94	2.31	3.52	6.11	5.72	5.53	2.38	1.69
11	....	....	1.82	1.76	1.97	2.38	3.64	6.15	5.77	5.52	2.08	1.71
12	....	....	1.75	1.78	2.01	1.86	3.78	6.16	5.82	5.53	1.93	1.73
13	....	....	1.80	1.78	1.98	1.95	3.91	6.10	5.89	5.55	1.98	1.73
14	....	1.93	1.81	1.77	2.01	2.07	3.99	5.96	5.93	5.57	1.73	1.74
15	....	....	1.83	1.76	2.02	2.23	4.11	5.86	5.97	4.32	1.86	1.72
16	....	....	1.47	1.77	2.06	2.32	4.22	5.83	6.03	4.90	1.83	1.74
17	1.81	....	1.79	1.76	2.12	2.39	4.27	5.79	6.07	4.58	1.69	1.77
18	....	....	1.82	1.78	2.15	2.48	4.36	5.61	6.11	4.13	1.75	1.78
19	....	....	1.84	1.61	2.20	2.55	4.48	5.16	6.15	4.12	1.71	1.81
20	....	....	1.83	1.75	2.24	2.53	4.58	4.75	6.18	4.13	1.66	....
21	....	1.89	1.82	1.70	2.28	2.48	4.68	....	6.23	4.15	1.60	....
22	....	1.82	1.81	1.73	....	2.12	4.80	....	6.27	4.17	1.61	....
23	....	1.45	1.71	1.73	2.40	2.28	4.90	4.76	6.32	4.17	1.58	....
24	1.90	1.77	1.77	1.76	2.44	2.31	5.02	4.75	6.34	4.12	1.55	....
25	....	1.83	1.74	1.63	2.48	2.28	5.12	4.77	6.28	4.06	1.57	....
26	....	1.87	1.77	1.65	1.82	2.19	5.18	4.82	6.19	4.00	1.56	....
27	....	1.88	1.72	1.66	1.95	2.46	5.28	4.88	6.17	3.98	1.56	1.94
28	....	1.77	1.76	1.72	2.06	2.66	5.31	4.87	6.17	3.98	1.55	....
29	....	....	1.76	1.64	2.15	2.75	5.36	4.92	6.16	3.97	1.58	....
30	....	....	1.68	1.73	1.95	2.85	5.43	5.01	6.15	3.96	1.63	....
31	2.02	....	1.67	....	2.12	....	5.49	5.08	....	3.15	....	....

Hampton 1. Charles Mathews. Top of Bride Hill on State Highway 101-C. Lat. 42°57'58", long. 70°53'25". Dug unused water-table well in till of Pleistocene age, diameter 42 inches, depth 28 feet, lined with stone. Land-surface datum is about 142 feet above msl. Highest water level 6.88 below lsd, May 28, 1954; lowest 22.57 below lsd, Sept. 29, 1955. Records available: 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	8.03	May 2	10.40	Aug. 2	18.65	Oct. 31	21.49
Feb. 4	13.74	31	14.10	30	20.64	Nov. 30	11.99
Mar. 2	12.25	June 30	15.62	Sept. 29	22.57	Dec. 27	14.53
30	11.33	July 22	17.58				

Strafford County

Dover 23. Keith H. Torr. State Highway 108 and Mast Rd. intersection. Lat. 43°10'05", long. 70°53'32". Dug unused water-table well in sand and gravel of Pleistocene age, diameter 36 inches, depth 28 feet, lined with stone. Land-surface datum is about 120 feet above msl. Highest water level 20.39 below lsd, May 11, 1954; lowest 23.32 below lsd, Oct. 6-7, 1955. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.44	21.74	22.02	21.84	21.90	22.27	22.52	22.96	22.57	23.23	22.51	21.97
2	21.38	21.76	22.01	21.84	21.90	22.29	22.56	22.98	22.60	23.25	22.25	21.95
3	21.38	21.77	22.10	21.85	21.88	22.29	22.57	23.01	22.63	23.27	22.00	21.96
4	21.32	21.87	22.10	21.85	21.84	22.27	22.59	23.02	22.65	23.28	21.88	21.97
5	21.31	21.87	22.04	21.86	21.81	22.28	22.57	23.02	22.69	23.30	21.81	21.97
6	21.26	21.83	22.03	21.83	21.81	22.31	22.62	23.05	22.72	23.32	21.78	22.02
7	21.32	21.84	22.05	21.77	21.85	22.31	22.63	23.05	22.77	23.32	21.75	22.02
8	21.33	21.87	22.10	21.84	21.85	22.30	22.64	23.08	22.83	23.24	21.73	22.02
9	21.32	21.90	22.10	21.87	21.92	22.31	22.65	23.10	22.86	23.21	21.75	22.03
10	21.39	21.88	22.11	21.82	21.92	22.33	22.66	23.10	22.88	23.12	21.78	22.08
11	21.40	21.86	22.09	21.89	21.92	22.34	22.69	23.09	22.89	23.02	21.82	22.10
12	21.40	21.96	22.08	21.93	21.94	22.34	22.72	23.11	22.94	22.99	21.82	22.13
13	21.39	22.01	22.10	21.92	21.94	22.31	22.73	23.11	23.00	22.98	21.82	22.16
14	21.46	22.01	22.14	21.90	21.98	22.33	22.72	23.10	23.01	22.97	21.77	22.17
15	21.47	21.94	22.13	21.82	21.99	22.34	22.74	23.10	23.00	22.96	21.74	22.13
16	21.50	22.02	22.03	21.96	21.98	22.33	22.75	23.05	23.07	22.95	....	22.18
17	21.53	22.02	22.08	21.96	22.00	22.36	22.77	23.08	23.09	22.94	....	22.21
18	21.56	22.02	22.08	21.94	21.99	22.35	22.79	23.06	23.10	22.91	....	22.22
19	21.56	22.05	22.10	21.93	22.03	22.33	22.83	23.02	23.11	22.89	....	22.25
20	21.60	22.07	22.12	21.97	22.09	22.32	22.84	22.96	23.13	22.80	....	22.27

Dover 23--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	21.62	22.07	22.08	21.96	22.12	22.37	22.83	22.96	23.19	22.72	21.69	22.27
22	21.57	22.04	22.06	21.93	22.14	22.38	22.86	22.93	23.23	22.64	21.73	22.28
23	21.61	22.07	21.98	21.97	22.12	22.41	22.85	22.87	23.25	22.63	21.73	22.33
24	21.63	22.03	22.00	22.00	22.10	22.43	22.88	22.79	23.25	22.57	21.78	22.33
25	21.64	22.05	21.98	21.99	22.13	.....	22.91	22.76	23.23	22.57	21.79	22.36
26	21.66	22.07	21.98	21.98	22.23	.....	22.92	22.62	23.23	22.57	21.78	22.40
27	21.67	22.03	21.83	21.98	22.25	22.49	22.93	22.47	23.20	22.62	21.82	22.46
28	21.71	22.02	21.88	21.98	22.24	22.50	22.95	22.43	23.15	22.64	21.82	22.47
29	21.71		21.89	21.93	22.17	22.50	22.97	22.44	23.18	22.65	21.88	22.47
30	21.72		21.89	21.92	22.22	22.51	22.98	22.46	23.19	22.67	21.94	22.43
31	21.75		21.88		22.24		22.98	22.52		22.67		22.48

Farmington 3. Lefavour Estate. South Main and Paulson Rds. Lat. $43^{\circ}23'03''$, long. $71^{\circ}03'16''$. Dug unused water-table well in sand and gravel of Pleistocene age, diameter 42 inches, depth 14 feet, lined with stone. Land-surface datum is about 313 feet above msl. Highest water level 1.76 below lsd, May 10, 1954; lowest 9.65 below lsd, Sept. 30, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	3.19	Mar. 31	4.00	July 6	6.78	Sept. 30	9.65
Feb. 4	5.29	Apr. 22	4.35	Aug. 2	8.35	Oct. 31	8.82
Mar. 3	3.89	June 3	5.20	29	8.57	Nov. 30	5.43

Lee 1. Mrs. Mildred Carlson. About 200 feet west of center of town of Lee. Lat. $43^{\circ}07'15''$, long. $71^{\circ}00'47''$. Dug unused water-table well in sand and gravel of Pleistocene age, diameter 42 inches, depth 33 feet, lined with stone. Land-surface datum is about 190 feet above msl. Highest water level 30.10 below lsd, June 1, 1954; lowest 31.80 below lsd, Sept. 29, 1955. Records available: 1953-55.

Jan. 3	30.65	May 2	30.63	Aug. 2	31.59	Oct. 31	30.94
Feb. 4	31.16	June 3	31.07	29	31.43	Nov. 30	30.87
Mar. 3	30.72	July 1	31.27	Sept. 29	31.80	Dec. 27	31.27
30	30.73						

NEW JERSEY

By Charles R. Austin

Scope of Water-Level Program

The observation-well program in New Jersey was continued in 1955 in cooperation with the State Department of Conservation and Economic Development, Division of Water Policy and Supply. Measurements were made in 275 wells. Measurements were made monthly or less frequently in some wells, weekly in others, and several times a day in those which were being observed during pumping tests. At the end of 1955, continuous records from recording gages were being obtained from 86 wells. Figure 16 shows the location of the wells, the records of which are given in this report, except for those in Middlesex County and western Salem County. Figures 17 and 18 show the wells reported in these areas.

Precipitation

Precipitation for 1955 averaged 92 percent of normal for the State as a whole. During March, June, August, and October, precipitation was above normal; during the other months it was well below normal. The August average of 11.85 inches was the wettest of any month of any year since 1885; October was the fifth wettest month of record. January and December, each having less than one inch of precipitation, were almost the driest months of any year of record. The excessive precipitation in August was caused by hurricanes "Connie" on August 13 and "Diane" on August 18. Because of deficient rainfall, many wells showed record lows. Although the excessive rains during August restored the levels to some extent, the average throughout the State at the end of 1955 was lower than normal.

Interpretation of Water-Level Fluctuations

Atlantic County. --The artesian pressure in the Atlantic City Waterworks well (36.13.2.9.1) at Pleasantville, which taps the Atlantic City 800-foot sand unit of the Kirkwood formation, showed a seasonal trend similar to previous years. The level in this well was about 1 foot higher throughout 1955 than in 1954. This well reflected pumping from other nearby wells by the Atlantic City Water Department. After October 1955, a sharp rise was noted due to the cessation of pumping from these sands. In the Longport well (36.23.1.9.6), which also taps the Atlantic City 800-foot sand unit of the Kirkwood formation, the water levels followed the same general pattern as in previous years--seasonal decline during June, July, and August, and recovery which starts immediately after Labor Day, when most of the hotels close for the season. The level in this well was below that of 1954 during the first half of 1955; a record low of 73.4 feet was observed on August 8. This is 1 foot lower than the previous low recorded on August 1, 1954. Other wells in the Atlantic City area also showed record lows during 1955. In general, water levels in the Atlantic City area have declined during the past few years, owing to an increase in the rate of pumping.

Bergen County. --The level in the Wanke well (26.3.1.4.3) at East Paterson showed a rising trend from 1950 until 1953 when it started to decline. During most of 1954, the levels were about 10 feet below those of 1953. Immediately after hurricane "Carol" in September 1954, the levels began rising and in November and December 1954 were the same as those during the same period in 1953. From January to August 1955, the levels were slightly below those of 1954. After hurricane "Connie," they rose sharply and continued above the 1954 levels until December. They again started to decline and at the end of 1955 were slightly lower than at the same time in 1954. The Garfield well (26.3.1.7.3) showed generally lower water levels throughout 1955 until September. Then, the water levels began rising and, for the rest of 1955, were about the same as in 1954. Increased industrial use in this area is probably the reason for the decline in water levels.

Burlington County. --The Penn State Forest well (32.23.6.6.8), a drilled observation water-table well in the Cohansey sand, is a reliable index of trends in this area. Figure 19 is a composite hydrograph showing end-of-day water levels in this well from 1936 to 1954. The water levels for 1955 have been plotted on this composite hydrograph to show their relation to the highest, lowest, and average water levels that have been noted since this well has been maintained.

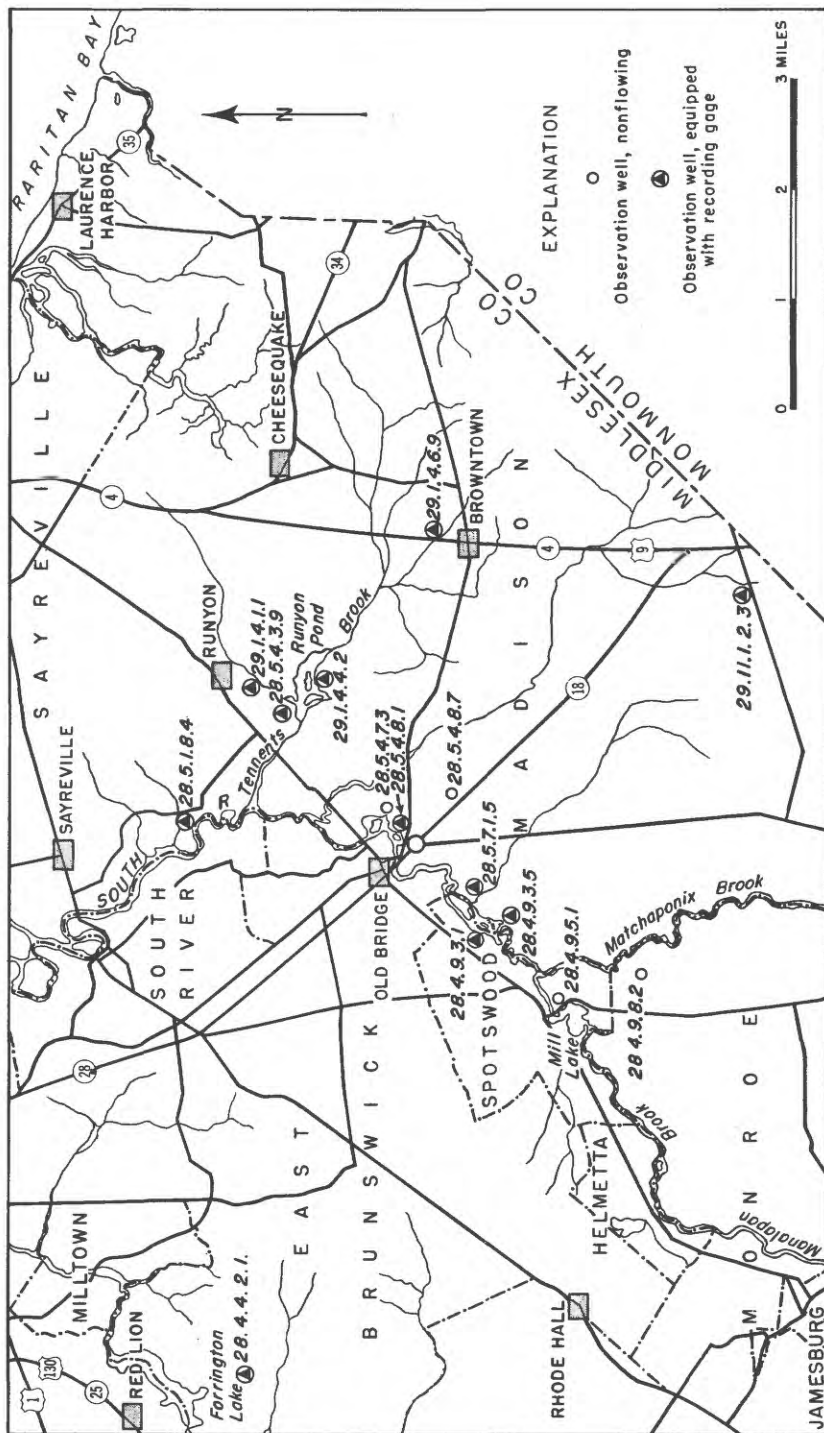


Figure 17. -- Location of observation wells in Middlesex County, N. J., 1955.

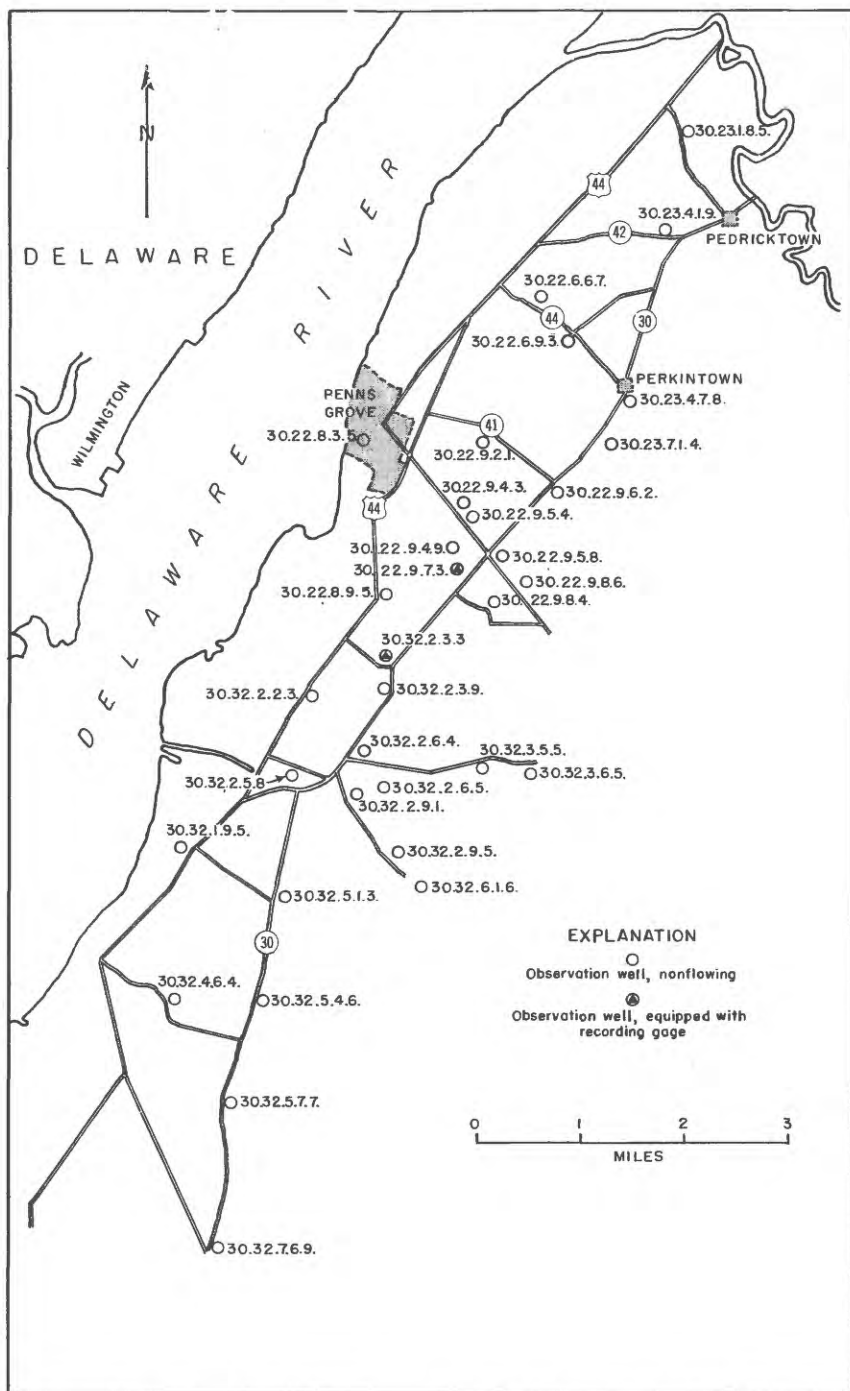
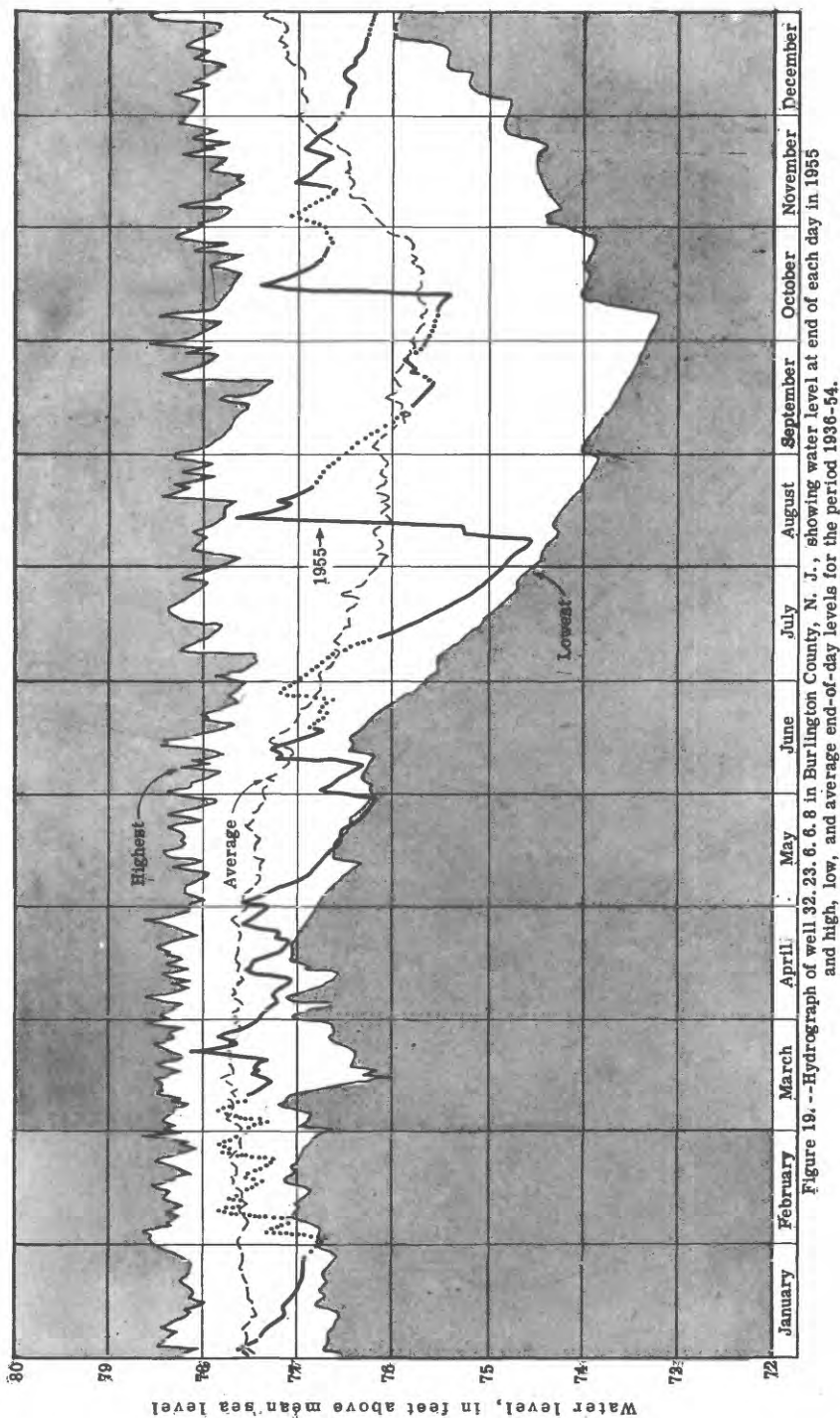


Figure 18. --Location of observation wells in Salem County, N. J., 1955.



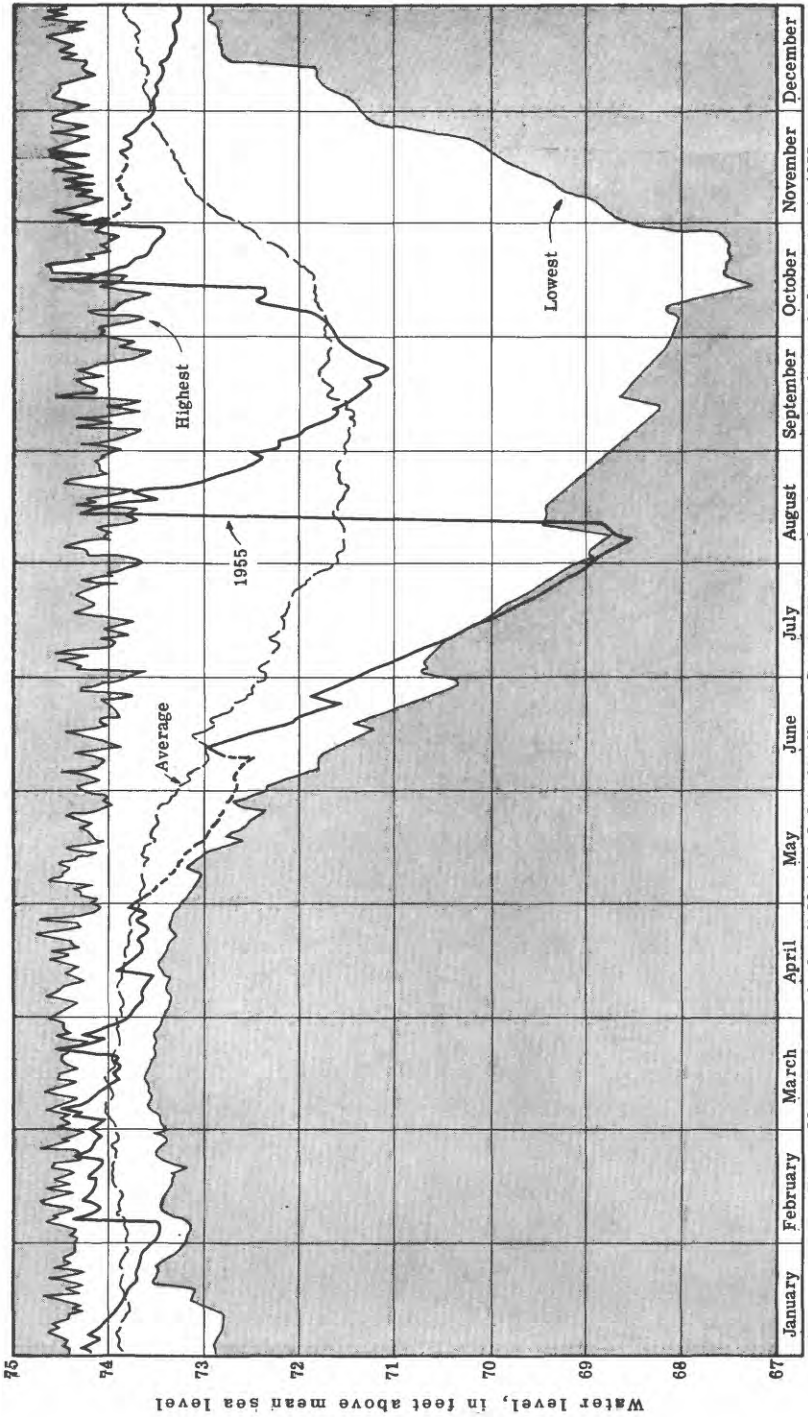


Figure 20. --Hydrograph of well 29.11.2.3 in Middlesex County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1923-54.

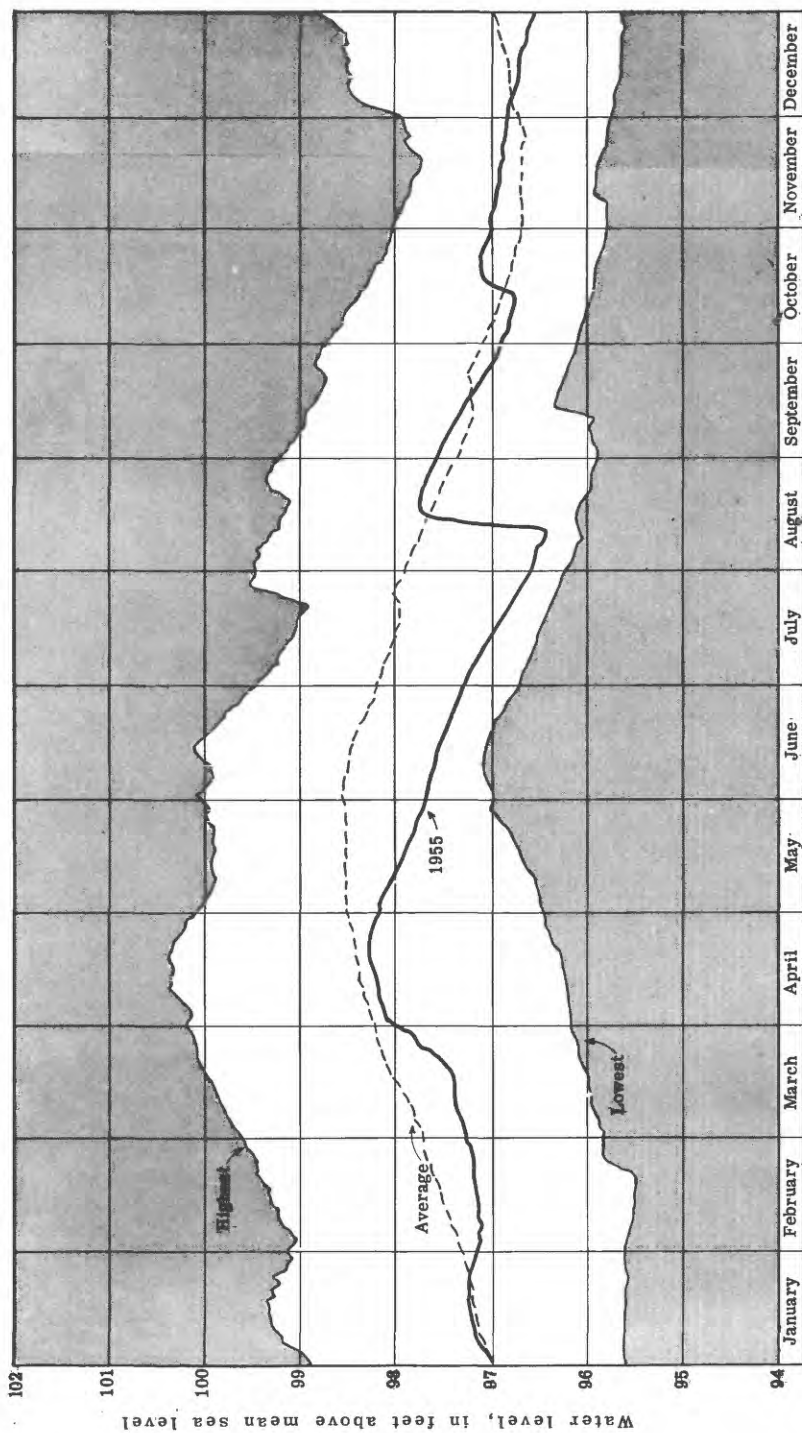


Figure 21. --Hydrograph of well 29.11.1.2.9 in Monmouth County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1936-54.

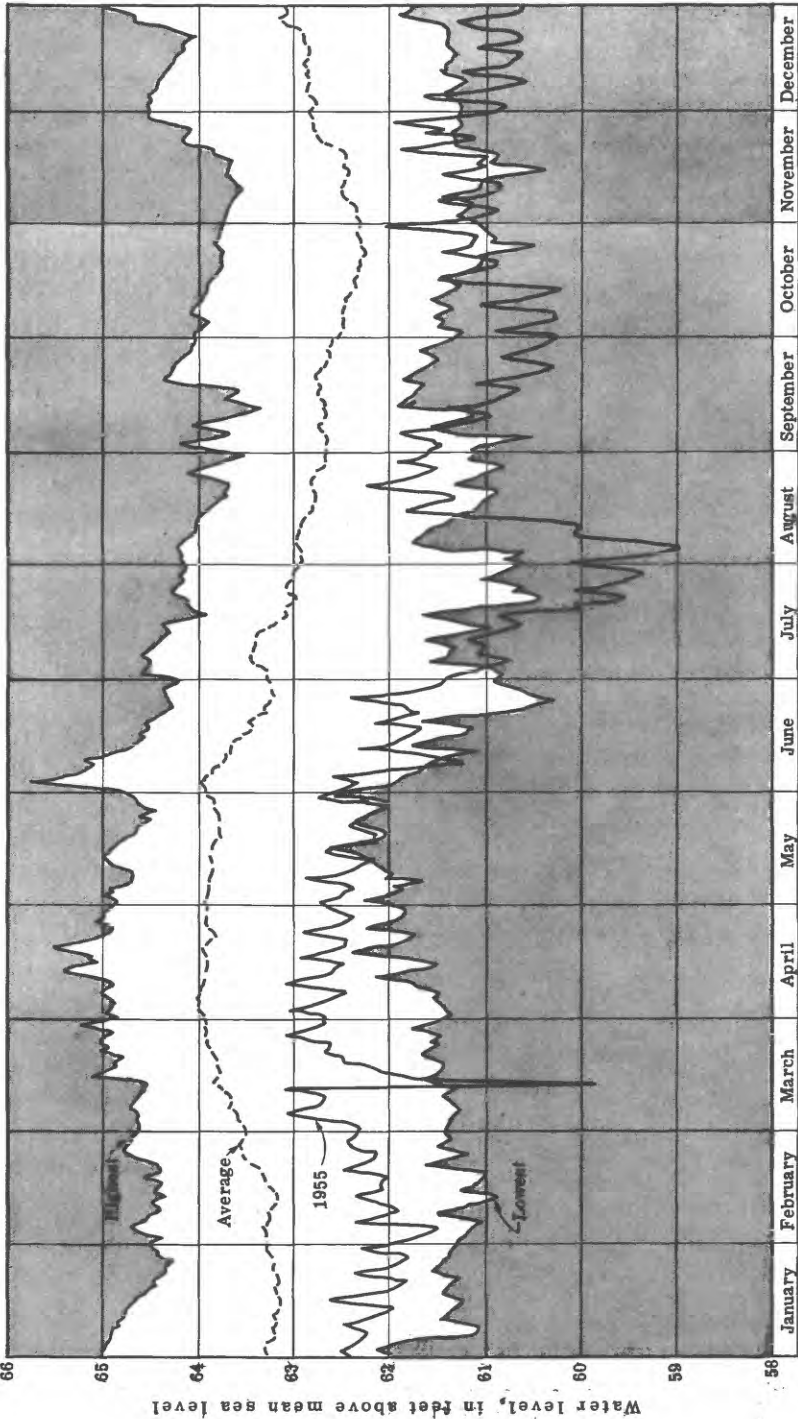


Figure 26. --Hydrograph of well 26.21.5.4.6 in Union County, N. J., showing water level at end of each day in 1955 and high, low, and average end-of-day levels for the period 1949-54.

Camden County. --In this area, water levels have been declining since 1951. A record low was observed in the Esterbrook Pen Co. well (31.1.6.4.8) on February 4, 1955. The previous record low was observed on October 2, 1954.

Cape May County. --Water levels in the American Ice Co. well (36.22.6.8.2) were about the same during the first 8 months of 1955 as those of the same period in 1954. At the end of 1955 the levels in this well were about 2 feet higher than in 1954. A record low of 73.5 feet was observed on August 6, 1955, the previous record low having been the same figure noted on July 24, 1953. A record low of 71.8 feet was observed on August 6, 1955, in the Normandie Hotel well (36.22.6.9.1). Water levels in this area were slightly lower during the first 8 months of 1955 than during the same period in 1954.

Essex County. --A record low of 100.2 feet above msl was observed in the Commonwealth Water Co. well 30 (25.15.7.5.4) on April 24, 1955, the previous record low having been 101.4 feet above msl on August 29, 1954. A record low of 131.10 feet above msl was observed in the East Orange Water Department well (25.15.7.5.9) on August 7, 1955. The previous low in this well had been recorded as 134.90 feet above msl on September 2, 1954. Water levels in these wells were about 4 to 5 feet lower in 1955 than during 1954. The lows in this area may be attributed to an increase in the rate of pumping.

Gloucester County. --A record low of 3.94 feet was observed in the E. I. du Pont de Nemours Co. well (30.14.8.2.4) on August 8, 1955, a previous record low of 3.70 feet having been observed on August 26, 1954. A record low of 52.2 feet was observed in the Texas Co. well 3 (31.11.2.7.2) on August 17, 1955, a previous record low of 46.8 feet having been recorded on July 29, 1954. Water levels throughout 1955 were generally lower in this area owing to increased industrial pumpage.

Middlesex County. --The Joseph Morrell well (29.11.1.2.3) near Old Bridge in Middlesex County is considered to be a reliable index of the amount of water stored in the ground, particularly during the growing season. This well responds quickly to precipitation and is so situated that it is not affected by pumping. Figure 20 is a composite hydrograph of the Joseph Morrell well showing the highest, lowest, and average water levels at the end of each day from 1923 to 1954. The 1955 record has been plotted as a separate line to show its relation to the average and record highs and lows. The hurricanes during the month of August caused a sharp rise in water levels in the wells in this area. At the end of 1955, the levels were slightly higher than in 1954 but still under the average.

Monmouth County. --The Walter Novak well (29.11.1.2.9) is a reliable index to ground-water levels in this area. Figure 21, a composite hydrograph showing the highest, lowest, and average end-of-day water levels for the years 1936 to 1954, indicates the seasonal trends. During most of 1955, water levels were higher than in 1954, and no record lows were noted throughout the year. Although the 1955 levels were slightly below average from February through July, they were about average for the remainder of the year after the hurricanes of August.

Morris County. --A record low of 174.86 feet above msl was recorded in the Whippany well (25.14.3.5.5) on October 14, 1955. Levels in this well were slightly lower during the last half of 1955 than during the same period in 1954. This may be attributed to increased pumpage.

Union County. --A record low of 58.99 feet above msl was observed in the Union County Park Commission well (26.21.5.4.6) on August 4, 1955, the previous record low of 60.26 feet above msl having been observed on June 25, 1954. Figure 22 is a composite hydrograph showing the highest, lowest, and average end-of-day water levels from 1943 to 1954. The 1955 record has been plotted as a separate line to show its relation to the average and to the record highs and lows. Record lows were observed throughout the last 7 months of 1955, and levels were about 2 feet below average. The lowering of water levels in this area may be attributed to deficiencies in rainfall and to increased industrial pumpage.

Well-Numbering System

The well-numbering system is based on the State topographic atlas sheets. The first segment of the number is that of the atlas sheet on which the well location may be found. The second refers to the 6-minute rectangle in which the well is situated. The third refers to the 2-minute rectangle into which the 6-minute rectangle is subdivided. Each of the 2-minute rectangles is divided into nine equal rectangles which are numbered from 1 to 9, beginning in the upper left corner and numbering to the right. These divisions are again divided into nine equal rectangles and numbered in the same way.

Well Descriptions and Water-Level Measurements

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

Atlantic County

36.13.2.9.1. (A. C. 600-foot) Atlantic City Water Dept. Pumping station between Absecon and Pleasantville. Drilled unused artesian well in Atlantic City 800-foot sand unit of Kirkwood formation, diameter 10 inches, depth 692 feet. Land-surface datum is 12.58 feet above msl. Highest water level 3.05 below msl, Mar. 28, 1925; lowest 30.0 below msl, Oct. 11, 1954. Records available: 1925-55.

Water level at end of day from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.3	26.2	25.2	24.3	23.7	24.0	23.8	25.0	26.6	27.4	26.2	e24.8
2	27.2	26.1	25.2	24.3	23.7	24.0	23.8	25.1	26.7	27.4	26.2	24.8
3	27.2	26.1	25.2	24.2	23.7	24.0	23.8	25.2	26.7	27.4	26.1	24.8
4	27.2	26.1	25.2	24.2	23.7	24.1	23.8	25.3	26.8	27.4	26.0	24.7
5	27.0	26.0	25.2	24.2	23.7	24.1	23.8	25.3	26.8	27.4	25.9	24.6
6	26.9	25.9	25.1	24.1	23.7	24.1	23.8	25.4	26.8	27.4	25.9	24.6
7	26.9	25.8	25.1	24.0	23.7	24.1	23.8	25.5	26.8	27.4	25.8	24.6
8	26.9	25.8	25.1	24.0	23.7	24.1	23.9	25.6	26.9	27.4	25.8	e24.5
9	26.9	25.7	25.0	24.0	23.7	23.9	23.9	25.6	26.9	27.3	25.6	e24.4
10	26.9	25.7	25.0	24.0	23.7	23.9	23.9	25.7	26.9	27.3	25.6	e24.4
11	26.8	25.6	25.0	24.0	23.7	23.9	23.9	25.7	27.0	27.3	25.6	e24.4
12	26.8	25.6	24.9	24.0	23.7	23.8	23.9	25.8	27.0	27.3	25.5	e24.3
13	26.7	25.6	24.9	24.0	23.7	23.8	24.0	25.8	27.0	27.3	25.5	e24.2
14	26.7	25.6	24.9	24.0	23.7	23.8	24.0	25.9	27.1	27.2	25.4	e24.1
15	26.7	25.6	24.9	23.9	23.7	23.8	24.0	25.9	27.1	26.7	25.3	e24.1
16	26.6	25.6	24.8	23.9	23.7	23.8	24.1	25.9	27.1	26.6	e25.3	e24.0
17	26.6	25.6	24.8	23.9	23.7	23.8	24.1	26.0	27.1	26.4	e25.3	e24.0
18	26.6	25.6	24.8	23.9	23.7	23.8	24.1	26.0	27.2	26.4	e25.3	e24.0
19	26.6	25.5	24.8	23.9	23.8	23.8	24.2	26.1	27.2	26.4	e25.2	e23.9
20	26.6	25.5	24.8	23.9	23.8	23.8	24.2	26.1	27.2	26.4	e25.2	e23.9
21	26.6	25.5	24.7	23.9	23.8	23.8	24.3	26.2	27.2	26.4	e25.2	e23.9
22	26.5	25.5	24.5	23.8	23.8	23.8	24.3	26.2	27.2	26.4	e25.1	e23.9
23	26.4	25.4	24.5	23.8	23.8	23.8	24.4	26.3	27.3	26.4	e25.1	e23.8
24	26.4	25.4	24.4	23.8	23.8	23.8	24.4	26.3	27.3	26.4	e25.0	e23.8
25	26.4	25.4	24.4	23.7	23.8	23.8	24.5	26.4	27.3	26.4	e25.0	e23.8
26	26.3	25.4	24.3	23.7	23.8	23.8	24.6	26.4	27.3	26.4	e25.0	e23.7
27	26.3	25.3	24.3	23.7	23.8	23.8	24.6	26.5	27.3	26.4	e25.0	e23.7
28	26.3	25.3	24.3	23.7	23.9	23.8	24.7	26.5	27.3	26.4	e24.9	e23.7
29	26.3		24.3	23.7	23.9	23.8	24.8	26.5	27.4	26.4	e24.9	e23.6
30	26.3		24.3	23.7	23.9	23.8	24.9	26.6	27.4	26.3	e24.8	e23.6
31	26.2		24.3		24.0		24.9	26.6		26.2		e23.5

e Estimated.

36.23.1.9.6. Borough of Longport. Northwest end of 14th Ave. Drilled unused artesian well in Atlantic City 800-foot sand unit of Kirkwood formation, diameter 6 inches, depth 803 feet, length of screen 50 feet. Land-surface datum is 5 feet above msl. Highest water level 19.0 above msl when drilled in 1895; lowest 73.4 below msl, Aug. 8, 1955. Records available: 1924-55. Affected by tidal fluctuations.

Daily average water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.9	46.5	44.5	43.8	44.5	55.4	60.1	68.9	68.2	59.9	53.5	49.7
2	48.5	45.6	44.9	43.7	44.7	55.5	60.0	69.6	67.5	...	52.8	49.4
3	48.6	46.1	45.2	43.6	44.8	54.7	61.0	70.0	67.1	...	52.6	49.2
4	47.9	46.2	44.4	43.5	45.2	53.7	62.4	70.9	67.1	...	52.5	48.9
5	47.8	46.2	44.1	43.6	45.6	54.3	63.6	71.5	67.7	58.5	52.2	48.8
6	47.6	46.2	44.1	44.1	45.5	54.0	64.2	72.1	68.0	58.2	51.7	48.8
7	48.1	46.5	44.7	43.8	46.3	54.3	63.6	72.6	67.5	57.9	51.9	48.4
8	47.9	46.4	45.1	44.1	46.9	54.0	64.1	72.3	67.0	58.1	52.1	48.3
9	47.7	46.4	44.8	44.4	46.7	52.0	65.1	70.1	66.7	57.8	52.1	48.0
10	47.7	46.5	44.6	45.1	46.8	51.8	65.9	69.1	66.6	57.6	51.7	48.2
11	47.3	46.2	44.4	45.5	46.5	51.9	66.3	68.2	66.7	57.2	50.9	48.5
12	47.1	46.7	44.3	45.3	46.9	51.4	66.8	67.6	66.0	57.0	51.6	48.6
13	46.9	47.2	44.1	44.5	47.9	51.5	67.3	66.4	65.7	56.7	51.4	...
14	47.1	46.3	44.3	44.3	47.5	51.5	68.3	...	65.4	55.5	51.1	...
15	46.8	46.0	44.2	44.3	47.8	51.5	68.6	67.6	65.4	55.1	50.8	...
16	47.2	45.7	43.8	44.3	48.7	52.3	68.9	67.8	65.4	e54.8	50.4	...
17	47.4	45.6	44.4	44.4	49.0	53.8	69.5	68.3	64.9	e54.8	51.0	...
18	47.4	45.7	44.2	44.7	48.9	55.1	69.9	67.4	65.2	54.9	51.5	47.9
19	46.7	45.5	44.0	44.7	50.0	55.7	70.0	67.3	65.1	54.8	50.7	47.8
20	46.5	45.6	44.0	44.6	50.9	55.3	70.3	67.2	63.8	e55.1	50.0	48.0

36.23.1.9.6--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	46.5	45.5	43.9	44.5	52.0	55.6	70.8	68.2	63.4	....	49.8	47.7
22	46.3	45.3	42.8	44.3	53.3	57.0	70.7	69.1	63.4	....	50.4	....
23	46.5	45.2	43.7	44.1	53.3	57.7	70.9	69.4	62.9	55.1	49.7	....
24	46.4	45.4	43.7	44.2	53.0	58.4	71.6	68.7	62.0	55.2	49.9	47.1
25	46.3	45.3	43.4	43.8	53.4	58.7	70.1	68.6	61.8	55.1	49.7	47.1
26	46.7	45.3	43.2	43.7	54.5	58.4	69.3	68.9	61.7	54.6	49.4	47.2
27	46.8	45.2	44.5	43.8	55.1	58.1	69.7	69.3	61.5	54.1	49.5	47.1
28	46.7	45.0	44.9	43.9	55.4	58.5	69.7	69.3	61.0	54.1	49.2	46.8
29	46.5		44.0	44.0	56.4	59.1	69.1	69.4	60.5	54.2	e49.4	46.8
30	46.4		43.7	44.1	56.9	59.8	68.8	69.1	60.1	54.3	....	46.7
31	46.5		43.7		55.4		68.3	69.0		54.4		46.8

e Estimated.

Bergen County

26.3.1.4.3. William Wanke. 77 Rosemont Ave., East Paterson. Drilled unused artesian well in Brunswick shale, diameter 6 inches, depth 110 feet, cased to rock. Land-surface datum is 70 feet above msl. Highest water level 58.81 above msl, Oct. 26, 1927; lowest 21.4 above msl, Aug. 8-9, 1955. Records available: 1926-55.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.2	36.1	34.7	37.2	38.0	32.0	26.8	23.8	34.0	31.7	36.7	37.3
2	37.8	35.8	34.7	37.3	37.0	32.0	....	23.2	33.7	31.7	36.7	37.4
3	37.2	35.2	34.3	37.4	36.7	32.3	....	22.8	33.5	31.5	36.8	37.4
4	36.8	35.1	34.8	36.8	36.4	32.1	....	22.5	33.5	31.2	36.9	37.4
5	36.4	35.4	35.2	36.5	35.9	31.4	....	22.2	33.6	30.9	37.0	37.5
6	36.6	35.4	35.4	36.4	....	31.4	....	21.8	32.6	30.6	36.9	37.3
7	36.4	....	34.6	36.5	....	....	....	21.6	32.5	....	37.1	37.2
8	36.2	....	34.2	36.3	....	....	26.0	21.4	33.1	....	37.1	37.2
9	36.2	....	34.0	36.3	35.8	31.6	25.6	21.4	33.6	....	37.1	37.1
10	36.3	....	33.9	36.2	35.8	31.0	25.5	21.5	33.2	....	37.2	36.8
11	37.4	....	33.8	36.4	35.8	31.0	26.0	22.0	33.2	....	37.4	36.7
12	37.6	....	33.4	37.5	34.4	31.5	25.8	23.0	34.0	30.4	37.1	36.6
13	37.9	....	33.3	37.8	33.7	31.7	25.6	23.1	33.9	30.3	37.2	36.5
14	37.8	35.4	33.1	38.1	33.7	31.0	25.2	23.5	33.6	30.4	37.4	36.4
15	37.8	35.6	32.9	38.2	....	30.0	24.8	23.4	33.5	31.4	37.3	36.6
16	37.9	35.7	33.3	38.0	31.6	....	24.8	23.9	....	31.6	37.3	36.3
17	37.1	35.8	33.9	38.0	31.3	....	24.7	24.0	....	32.1	37.2	36.1
18	36.7	35.8	34.2	37.2	31.4	....	24.3	24.0	....	33.3	37.0	36.1
19	36.6	35.7	34.4	36.9	31.7	....	24.3	25.2	....	33.9	37.1	35.9
20	36.4	35.7	34.4	36.7	31.3	28.4	24.3	26.7	....	34.2	37.3	35.8
21	36.1	35.4	34.6	36.6	31.0	27.9	24.1	28.2	32.7	34.7	37.7	35.7
22	36.2	....	34.5	36.4	30.9	27.9	23.7	30.3	32.6	34.9	37.5	35.8
23	36.2	....	34.8	36.2	29.9	27.9	23.2	32.0	32.8	35.3	37.5	35.5
24	36.2	....	34.9	36.2	29.7	27.9	23.2	32.3	33.1	35.8	37.6	35.4
25	37.2	33.9	34.9	36.6	29.6	....	23.3	33.3	33.6	35.9	37.7	35.3
26	37.4	33.7	34.9	37.6	....	....	23.6	33.8	33.4	36.1	37.9	35.3
27	37.4	33.7	35.1	37.8	....	28.2	23.5	33.8	33.6	36.3	37.8	35.2
28	37.3	33.8	35.3	37.9	....	27.8	23.4	33.9	33.0	36.3	37.8	35.2
29	37.4		36.3	37.9	....	27.3	23.4	33.8	32.4	36.3	37.6	34.8
30	37.3		36.6	37.9	....	26.8	24.1	34.4	31.8	36.5	37.5	....
31	36.4		36.8		32.2		24.1	34.0		36.8		....

26.3.1.7.3. City of Garfield. East Paterson. Drilled unused artesian well in Brunswick shale, casing 0-30 extends 3 feet into sandstone of Triassic system, 30-353 open rock hole, diameter 12 inches, depth 353 feet. Land-surface datum is 65 feet above msl. Highest water level 56.2 above msl, Mar. 8, 1926; lowest 14.2 below msl, Aug. 11-13, 1955. Records available: 1926-55.

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	+15.6	+15.2	-3.5	-0.1	....	-5.7	-9.4	....	....	-3.6	+9.2	+6.5
2	18.0	14.7	4.9	-1.5	....	6.3	....	....	....	+3.0	7.1	5.6
3	18.8	4.6	5.6	-1.6	....	6.1	....	....	....	+3.5	7.9	5.1
4	17.5	+5	6.0	+1.4	-1.3	4.9	....	....	....	+5	8.2	12.3
5	17.1	-1.4	6.2	-2	2.6	1.3	....	....	....	-1.8	8.8	10.6

26.3.1.7.3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	+16.8	-2.0	-2.0	-0.9	-3.5	-2.4	....	....	....	-3.0	+8.4	+7.4
7	16.6	....	.4	1.4	-3.9	5.4	-9.2	....	....	4.0	....	5.4
8	16.4	....	3.1	-1	+2.2	6.3	10.0	....	....	-4.4	....	4.0
9	16.4	4.1	4.5	+1.6	+1.9	6.4	10.8	....	....	+1.6	10.6	3.2
10	18.0	4.8	4.9	.5	+1.1	6.5	11.0	-13.9	....	+2.5	10.3	2.7
11	17.7	5.5	5.2	2.6	-1.4	-1.3	....	14.2	....	+8	11.7	8.4
12	17.3	5.9	5.2	+4	3.1	+5.4	10.5	14.2	....	-2.4	21.5	7.9
13	16.6	5.9	5.0	-5	3.9	+1.0	11.0	14.2	....	4.0	19.8	8.1
14	16.2	6.1	1.5	1.0	2.8	-1.5	11.5	....	-1.1	4.6	15.9	5.9
15	16.2	6.5	2.6	1.5	4.3	4.5	11.8	....	1.3	-4.8	15.4	6.2
16	16.2	6.6	3.4	-3	5.2	6.3	12.0	....	1.8	-2.0	14.7	5.5
17	17.7	6.9	3.8	+6.0	6.0	7.3	12.2	....	2.0	....	10.7	4.0
18	16.7	7.1	4.0	+4.5	6.3	7.9	12.2	....	2.2	.9	9.9	11.9
19	16.3	7.2	4.1	+1.5	6.6	5.4	11.9	....	2.5	+3	12.6	7.9
20	15.8	7.2	-4.1	-2	6.9	4.7	12.2	....	2.9	-1	24.5	5.9
21	15.6	4.3	+8	1.3	7.2	6.8	12.5	....	3.0	-8	12.1	6.5
22	15.6	5.4	+2	1.9	7.2	7.5	12.7	....	3.3	-9	11.3	5.0
23	15.6	3.8	-1.7	-2.2	7.3	8.0	13.0	....	3.5	+7.2	13.0	5.4
24	17.0	5.4	2.3	+2.2	7.6	8.6	13.0	....	3.6	7.6	....	6.6
25	16.3	6.2	2.6	+3.2	7.6	9.1	....	....	3.7	5.2	16.4	13.0
26	16.0	6.4	-2.8	+2	6.0	9.2	....	....	.4	6.5	12.3	20.8
27	15.4	3.3	+1.2	-1.4	5.3	5.9	....	....	2.2	4.9	11.1	10.9
28	15.2	.8	+6	2.2	5.4	6.1	....	....	3.3	5.2	10.5	9.8
29	14.9		-1.5	2.9	5.1	7.9	....	....	3.9	7.5	10.9	10.8
30	14.9		2.2	3.1	4.0	9.0	....	....	4.2	8.9	8.0	14.8
31	16.1		.7		4.3		....	....		10.8		11.2

Burlington County

32.23.6.6.8. U. S. Geol. Survey. Penn State Forest. Drilled observation water-table well in Cohansey sand, diameter 6 inches, depth 10 feet. Land-surface datum is 79 feet above msl. Highest water level 78.67 above msl, Feb. 3, 1939; lowest 73.18 above msl, Oct. 7, 1951. Records available: 1936-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e77.59	e76.73	e77.58	77.41	77.66	76.80	e76.96	74.80	e76.43	e75.60	e76.90	e76.54
2	e77.65	e77.39	e77.53	77.37	77.52	76.71	e76.91	74.73	e76.39	e75.57	e77.10	e76.49
3	e77.56	e77.35	e77.35	77.33	77.40	76.62	e76.88	74.66	e76.34	e75.55	e77.00	76.48
4	e77.48	e77.20	e77.68	77.25	77.30	76.57	e76.82	74.60	e76.30	e75.51	e76.95	76.48
5	77.41	e77.08	e77.79	77.22	77.22	76.46	e76.75	74.55	e76.24	e75.50	e76.90	76.46
6	77.40	e77.29	e77.90	77.31	77.12	76.37	e76.72	74.52	e76.16	e75.50	e76.85	76.43
7	77.34	e77.75	e77.75	77.28	77.05	76.29	e76.65	74.53	e76.10	75.50	e76.75	76.42
8	77.29	e77.90	e77.71	77.18	77.00	76.44	e76.56	74.92	e76.04	75.49	e76.65	76.40
9	77.27	e77.65	e77.62	77.14	76.88	77.25	e76.44	75.28	e75.96	75.49	e76.60	76.52
10	77.23	e77.57	77.57	77.10	76.87	77.17	e76.34	75.27	e75.91	75.46	76.63	76.55
11	77.19	e77.76	77.50	77.06	76.84	77.29	e76.26	75.27	e75.86	75.42	77.07	76.55
12	77.16	e77.65	77.44	77.52	76.78	77.32	e76.18	76.02	e75.81	75.37	76.98	76.50
13	77.17	e77.60	77.36	77.60	76.73	77.14	76.07	77.73	75.77	75.33	76.90	76.45
14	77.12	e77.53	77.30	77.53	76.70	77.00	75.95	77.47	75.73	76.93	76.85	76.41
15	77.11	e77.48	77.39	77.53	76.66	76.86	75.85	77.30	75.68	77.45	76.79	76.42
16	77.07	e77.42	77.53	77.36	76.63	76.74	75.77	77.18	75.61	77.33	76.77	76.38
17	77.04	e77.60	77.42	77.28	76.59	e76.90	75.65	77.09	75.57	77.18	76.68	76.36
18	77.01	e77.57	77.48	77.22	76.55	e76.86	75.56	77.23	75.52	77.07	76.63	76.35
19	77.01	e77.47	77.42	77.19	76.55	e76.81	75.48	77.12	75.52	76.95	76.82	76.33
20	76.97	e77.36	77.33	77.12	76.55	e76.75	75.42	76.98	e75.57	76.89	76.93	76.30
21	76.95	e77.31	77.76	77.11	76.43	e76.70	75.35	76.87	e75.65	76.81	76.93	76.29
22	76.96	e77.26	78.21	77.28	76.41	e76.80	75.27	e76.85	75.80	e76.75	76.85	e76.29
23	76.96	e77.72	77.92	77.20	76.39	e76.75	75.18	e76.83	75.73	76.72	76.86	e76.28
24	76.96	e77.86	77.76	77.37	76.35	e76.70	75.14	e76.79	75.82	76.72	76.73	e76.28
25	76.95	e77.77	77.67	77.53	76.31	e76.66	75.10	e76.76	75.86	76.70	76.70	e76.27
26	76.92	e77.88	77.93	77.64	76.25	e77.10	75.05	e76.73	75.79	e76.66	76.67	e76.25
27	76.92	e77.75	77.71	77.51	76.22	e77.23	74.97	e76.70	75.73	e76.68	76.62	e76.23
28	e76.85	e77.66	77.61	77.40	76.20	e77.16	74.94	e76.66	e75.70	e76.70	76.62	e76.22
29	e76.83		77.55	77.37	76.15	e77.10	74.92	e76.60	e75.65	e76.70	76.60	e76.20
30	e76.79		77.49	77.33	76.35	e77.04	74.87	e76.54	e75.63	e76.71	e76.56	e76.18
31	e76.77		77.45		76.73		74.85	e76.47		e76.80		e76.17

e Estimated.

Camden County

31.1.3.9.9. Cities Service Oil Co. Pettys Island. Drilled unused artesian well in sand of Raritan formation, diameter 8 inches, depth 143 feet. Land-surface datum is 12 feet above msl. Highest water level 5.6 above msl, Dec. 8, 1950, Mar. 11, 1952; lowest 4.8 below msl, Feb. 12, 1951. Records available: 1949-55. This well reflects tidal fluctuations.

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	....	-0.5	+0.1	-0.4	+0.5	....	....	....	-0.1	-0.1	....	-1.7
2	....	.7	+2	-3	.2	....	....	....	.0	-.2	+1.0	.7
3	0.0	.9	-.5	.0	.1	....	....	....	.0	+1	1.0	.4
4	+2	1.8	.0	.0	+1	....	....	....	+1	.2	.3	-.2
5	+3	1.1	+4	+3	.0	....	....	-0.5	.1	.2	.1	+1
6	+7	-.4	+7	+3	+1	....	....	.5	.1	.3	.4	-.2
7	-.1	+2	-.1	-3	+1	....	....	.2	+2	.5	....	-.3
8	-.4	.1	.8	.8	.0	....	....	.5	.0	+3	.5	+1
9	+7	.7	.3	....	-.4	....	....	.2	+1	.0	.1	+1
10	.1	.2	-.4	....	.1	....	....	.1	+2	+1	.1	-.7
11	.1	+2	+2	....	.3	....	....	.1	+4	.0	.5	.7
12	.5	-1.2	.1	-.2	.3	....	....	-.2	-.2	+2	.2	1.0
13	+3	-1.7	.3	+1	.1	....	....	....	-.1	.4	.1	1.0
14	-.4	-1.5	.3	+2	.1	....	....	....	.0	1.0	.4	.8
15	-.4	.0	.7	+2	-.1	....	....	+5	-.4	1.9	.3	.3
16	+2	-.1	+7	-.2	.0	....	....	.3	.0	....	+8	1.2
17	-.3	+3	-.3	+5	-.3	....	....	.4	.0	....	-.2	.9
18	1.1	-.3	.3	+2	.2	....	....	1.2	.0	....	.8	.8
19	.6	.4	.4	+2	.3	....	....	1.9	.0	1.3	.2	1.2
20	1.1	.2	.3	-.1	.4	....	....	2.0	+3	1.0	-.4	1.2
21	-1.0	.3	-.1	+2	.5	....	....	....	0.0	+6	+3	1.8
22	+2	.1	+2	.3	.4	....	....	1.4	-.1	-.1	-.1	1.0
23	.0	.2	.2	.3	.4	....	....	.9	-.1	+4	-.2	.8
24	-.1	.3	.1	.5	.3	....	....	.5	+5	....	.0	.5
25	+2	.2	.2	.7	....	....	....	.7	.0	....	-.2	.5
26	-.2	-.1	+5	.5	....	....	....	.5	-.3	....	+1	.9
27	1.2	+1	-1.3	.5	....	....	....	.4	+1	....	.1	1.2
28	.9	+1	1.7	.3	....	....	....	.3	-.2	....	+3	1.0
29	.5	....	1.9	.3	....	....	....	.2	-.2	....	-.7	.7
30	.6	....	.9	.4	....	....	....	+4	+3	....	1.4	.7
31	.8	....	.6	....	....	....	....	-.1	....	....	....	.7

31.1.6.4.8. Esterbrook Pen Co. Cooper St. and Delaware Ave., Camden. Drilled unused artesian well in sand of Raritan formation, diameter 6 inches, depth 300 feet. Land-surface datum is 8 feet above msl. Highest water level 3.48 above msl, Nov. 25, 1950; lowest 13.21 below msl, Feb. 4-5, 1955. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.98	12.12	11.82	....	9.42	10.88	11.94	....	10.85	10.05	....	9.87
2	10.33	12.32	12.21	....	9.83	11.11	11.85	....	10.95	9.63	....	9.89
3	10.28	12.70	12.54	....	....	11.13	11.30	....	10.90	9.26	....	9.36
4	10.62	13.21	12.48	....	....	11.02	10.87	....	10.32	9.25	....	8.95
5	10.92	13.21	12.33	....	....	10.44	10.54	11.55	9.90	9.26	....	8.74
6	11.15	12.39	11.65	....	....	10.48	10.51	11.55	9.92	9.26	....	....
7	11.59	....	11.17	....	....	10.70	10.47	11.14	....	9.38	7.99	....
8	11.59	12.00	....	....	....	10.70	10.40	10.92	10.28	....	8.26	....
9	11.17	12.16	11.86	....	10.23	10.60	10.32	10.95	10.34	....	8.59	....
10	10.91	12.20	12.26	....	10.40	10.59	10.22	10.97	10.35	....	8.78	....
11	11.27	12.32	12.27	....	10.56	10.60	10.15	11.12	9.89	9.04	8.94	....
12	11.28	12.47	11.86	....	10.68	10.01	10.24	11.30	9.97	9.10	8.83	....
13	11.36	12.14	11.49	....	10.74	10.01	10.30	11.30	10.44	9.24	8.57	....
14	12.00	11.82	11.37	....	10.68	10.55	10.22	11.23	10.56	9.23	8.49	....
15	12.06	12.08	11.41	....	10.19	11.02	10.17	9.93	10.50	9.20	....	....
16	11.46	12.22	11.52	....	10.13	11.19	10.10	10.33	10.65	8.37	....	....
17	11.21	12.35	....	....	....	11.26	10.13	10.60	10.67	7.63	....	....
18	11.79	12.64	....	10.11	....	11.15	10.42	10.48	10.33	7.69	9.75	....
19	11.98	12.62	....	10.26	....	10.60	10.78	10.39	9.93	....	9.76	9.65
20	12.28	11.94	....	10.46	....	10.29	....	10.39	10.00	....	9.14	10.05
21	12.48	11.60	....	10.44	....	10.74	....	9.54	10.15	....	8.89	10.23
22	12.44	11.60	....	10.39	....	11.06	....	9.24	10.35	....	9.16	10.25
23	11.85	11.61	....	9.92	....	11.40	....	9.55	10.49	....	9.19	10.24
24	11.19	12.03	11.59	9.65	....	11.51	....	9.80	10.51	....	9.15	9.85
25	11.78	12.30	11.59	9.64	....	11.50	....	10.08	9.76	....	8.90	9.50

31. 1. 6. 4. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	11.97	12.38	11.02	9.90	.....	10.91	.....	10.47	9.61	.....	.....	9.44
27	.....	11.89	10.35	10.11	.....	10.72	.....	10.37	9.62	.....	.....	9.84
28	.....	11.40	11.12	10.30	.....	.....	.....	9.92	.....	.....	8.39	10.13
29	.....	.....	11.52	10.23	.....	11.57	.....	9.88	.....	.....	8.88	10.13
30	.....	.....	11.65	9.75	.....	11.69	.....	10.25	10.06	.....	9.35	10.07
31	11.70	.....	11.72	.....	10.49	.....	.....	10.60	.....	.....	.....	10.08

e Estimated.

31. 2. 2. 5. 2. City of Camden. Morris Station. Drilled unused artesian well in sand of Raritan formation, diameter 6 inches, depth 103 feet. Land-surface datum is 6 feet above msl. Highest water level 0.3 below msl, Mar. 19, 1936; lowest 35.84 below msl, June 14, 1926. Records available: 1924-42, 1945-55. Affected by pumping in nearby well field.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.8	8.8	10.7	9.9	8.8	9.7	9.6	9.4	7.9	8.0	6.1	6.9
2	8.7	9.3	10.3	10.1	8.8	9.8	9.0	9.6	7.9	....	6.5	6.8
3	9.2	10.5	10.3	9.4	9.3	9.8	7.8	9.6	7.8	....	6.2	6.3
4	9.1	10.8	10.1	9.5	9.4	9.8	7.6	9.6	7.0	....	6.4	5.8
5	9.0	10.2	9.7	9.9	9.2	9.2	8.3	9.6	6.6	....	6.5	6.0
6	8.9	9.5	9.4	9.9	9.5	9.2	8.8	9.6	7.4	....	6.1	6.2
7	9.2	9.8	10.0	9.7	9.4	9.5	8.8	8.7	7.6	....	6.3	5.9
8	8.8	10.0	10.2	9.8	8.8	9.5	8.7	8.9	7.7	....	6.6	5.8
9	8.5	10.1	10.1	10.2	7.6	9.1	8.7	8.9	7.6	....	6.6	5.8
10	9.2	10.2	10.3	9.5	9.4	8.8	8.7	8.9	7.5	....	6.8	5.8
11	9.2	10.5	10.3	10.0	9.6	8.9	8.0	8.9	7.2	....	6.6	5.8
12	9.0	10.5	9.9	10.0	9.8	8.6	7.8	8.9	7.6	....	6.4	6.0
13	9.1	10.3	9.5	9.6	9.7	8.8	7.7	8.2	7.8	....	6.0	6.2
14	9.5	10.7	9.9	9.5	....	9.1	7.9	6.8	7.8	....	6.0	6.1
15	9.3	10.8	9.7	9.5	....	9.0	8.1	7.4	7.8	....	6.2	6.1
16	9.1	10.8	9.8	9.6	....	9.0	8.9	7.5	7.8	....	6.3	6.2
17	9.6	10.4	10.0	9.3	....	9.2	8.9	7.2	7.8	....	6.1	6.2
18	10.0	10.5	10.1	9.5	9.8	9.5	8.7	7.1	7.1	....	6.6	5.2
19	9.7	10.0	10.1	9.3	10.0	9.0	9.2	6.5	7.5	5.8	6.9	5.5
20	10.0	9.5	9.7	8.7	10.0	....	9.4	6.6	7.7	6.1	6.2	5.8
21	9.7	10.2	9.6	9.3	9.8	....	9.4	5.8	8.2	6.3	6.0	5.9
22	8.9	10.6	9.7	9.3	9.5	9.5	9.4	6.4	8.1	6.4	....	5.9
23	9.0	10.6	9.6	9.3	9.7	9.5	9.4	6.7	7.4	5.5	....	5.9
24	8.9	10.8	9.8	8.7	9.9	9.6	9.1	7.0	7.2	6.1	....	5.9
25	6.9	10.6	9.8	8.7	9.9	9.2	....	7.2	7.5	6.9	6.3	5.3
26	6.9	10.0	9.4	8.8	9.8	8.7	....	7.2	7.8	6.9	6.1	5.5
27	7.2	10.0	9.2	8.9	9.7	9.0	....	7.2	8.2	6.9	5.8	5.5
28	7.3	10.6	10.1	9.0	9.6	9.3	....	6.9	8.2	6.9	6.3	6.1
29	7.2	.....	10.3	9.3	8.9	9.4	9.5	7.3	8.2	6.8	6.9	....
30	6.5	.....	10.0	9.2	8.9	9.6	9.1	7.5	8.3	6.1	6.9	6.6
31	7.3	.....	8.6	.....	9.5	.....	8.6	7.6	.....	5.9	.....	6.8

31. 2. 4. 5. 1. New Jersey Water Co. well 10. Near pumping station on Cleveland Ave., Camden. Drilled unused artesian well in sand of Raritan formation, diameter 12 inches, depth about 185 feet. Land-surface datum is 11 feet above msl; measuring point is top of casing 11.90 feet above msl. Highest water level 1.26 above msl, Mar. 19, 1933; lowest 38.6 below msl, July 10, 1954. Records available: 1932-55.

Daily lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	32.7	Jan. 15	32.4	Feb. 18	36.5	Mar. 4	35.3
2	32.3	16	32.3	19	36.1	5	34.2
3	33.3	17	33.3	20	35.3	6	33.2
4	33.6	18	33.8	21	36.2	7	34.9
5	33.4	29	32.9	22	34.9	8	35.2
6	33.6	31	33.6	23	35.2	9	34.7
7	33.9	Feb. 1	34.1	24	35.5	10	34.8
8	32.3	10	35.9	25	35.3	11	34.7
9	30.9	11	35.8	26	34.4	12	33.6
10	33.1	13	35.7	27	33.5	13	33.4
11	30.9	14	36.4	28	35.3	19	33.3
12	33.3	15	36.1	Mar. 1	35.0	20	33.1
13	33.7	16	36.3	2	35.4	22	33.8
14	33.9	17	36.4	3	35.4	Nov. 23	34.0

31. 2. 4. 5. 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 24	34.1	Dec. 3	33.8	Dec. 12	34.8	Dec. 21	34.9
25	32.8	4	32.3	13	35.1	22	34.9
26	33.6	5	34.2	14	35.0	23	34.2
27	32.3	6	34.4	15	34.6	24	34.0
28	33.9	7	34.3	16	34.2	25	32.6
29	33.9	8	34.4	17	34.7	28	34.5
30	37.5	9	34.1	19	34.6	29	34.5
Dec. 1	34.6	10	34.5	20	34.5	30	33.8
2	34.4	11	34.5				

Cape May County

36. 22. 6. 8. 2. American Ice Co. Ocean City. Drilled unused artesian well in Atlantic City 800-foot sand unit of Kirkwood formation, diameter 6 inches, depth about 860 feet. Land-surface datum is 4.74 feet above msl. Highest water level 1.3 below msl, Dec. 29, 1945; lowest 73.5 below msl, July 24, 1953, Aug. 6, 1955. Records available: 1936-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.3	36.8	35.0	34.3	34.5	39.8	....	68.1	62.5	47.2	42.6	....
2	38.2	36.5	35.6	34.1	34.7	40.3	61.9	68.9	62.3	46.6	42.2	....
3	38.1	35.7	35.5	32.3	34.8	40.6	63.0	69.5	63.3	46.3	41.6	....
4	37.9	36.8	34.7	34.2	34.9	40.6	63.9	70.4	64.0	46.4	41.4	....
5	37.7	36.9	34.6	34.0	34.9	39.4	65.0	70.8	68.2	46.3	....	....
6	37.8	36.7	34.7	34.3	34.6	40.3	....	73.5	63.8	46.2	40.6	....
7	38.3	37.2	35.1	34.0	34.6	40.1	....	72.9	65.7	45.8	41.0	....
8	38.3	37.0	35.5	34.4	34.9	42.3	....	67.3	62.8	45.6	41.0	....
9	37.7	36.9	35.1	35.0	37.5	42.3	....	65.2	62.6	45.6	....	....
10	37.7	37.0	34.9	34.8	35.0	41.7	....	63.4	65.9	45.3	40.4	....
11	37.3	36.2	35.1	34.6	35.2	41.0	....	64.5	62.0	45.2	40.4	....
12	37.1	37.3	34.7	34.1	35.4	41.0	67.5	60.3	60.5	45.0	40.9	....
13	37.0	37.0	34.7	34.1	35.5	40.7	67.2	60.1	60.8	44.6	41.0	....
14	37.2	36.2	34.6	35.1	35.3	43.0	....	66.3	60.5	44.1	40.7	....
15	36.8	36.1	34.6	34.1	35.5	46.5	67.1	64.7	60.6	44.5	40.4	....
16	37.3	35.8	34.5	33.8	36.0	50.1	68.2	63.3	60.2	43.2	40.2	....
17	37.5	35.6	35.0	33.5	35.9	52.1	68.3	63.7	60.3	44.8	....	....
18	37.2	....	34.6	34.3	36.9	52.4	67.9	61.5	60.6	43.1	....	37.5
19	36.6	....	34.9	34.5	37.1	51.5	65.3	63.4	60.1	44.1	....	37.1
20	36.6	35.6	34.7	34.5	41.0	52.8	67.7	67.5	55.2	43.8	....	....
21	36.4	35.7	34.6	34.8	41.5	52.3	....	69.2	55.4	42.9	....	....
22	36.2	35.4	....	34.5	40.0	50.9	69.2	66.9	55.2	43.2	....	37.1
23	36.4	35.6	....	34.3	36.7	....	71.9	64.9	54.4	43.8	....	36.7
24	36.5	35.9	34.2	34.0	38.5	....	70.3	68.9	53.2	43.9	....	36.4
25	36.4	35.6	34.5	33.7	39.3	....	67.4	67.6	54.3	43.1	....	....
26	37.0	35.8	34.1	33.8	40.1	....	68.1	67.7	52.5	42.2	....	....
27	37.1	35.4	35.3	34.2	39.8	....	68.3	69.9	49.1	42.3	....	....
28	36.9	35.4	35.5	34.2	49.2	....	68.1	64.6	48.5	42.6	....	....
29	36.7	....	33.9	34.2	49.4	....	67.5	63.7	48.1	42.6	....	36.6
30	36.7	....	34.5	34.2	44.8	....	66.4	63.6	47.4	42.1	....	36.7
31	36.9	....	34.5	....	40.8	....	67.1	63.0	....	42.2	....	....

36. 22. 6. 9. 1. Mr. Schwartz. Ocean City. Drilled unused artesian well in Atlantic City 800-foot sand unit of Kirkwood formation, diameter 4 inches, depth 800+ feet. Land-surface datum is 9 feet above msl. Highest water level 19.0 below msl, Mar. 5, 1941; lowest 71.8 below msl, Aug. 6, 1955. Records available: 1928-55. Affected by tides and nearby pumping up to 7½ feet and by seasonal fluctuations due to pumping up to 30 feet.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.7	37.2	....	34.8	35.1	41.0	....	65.4	62.3	....	44.7	42.2
2	38.6	36.5	....	34.5	35.1	40.0	....	66.5	....	....	44.4	40.8
3	38.5	37.5	....	34.3	35.3	40.4	60.5	e67.1	....	....	43.6	40.8
4	37.8	37.4	....	34.3	35.4	41.9	61.4	e68.3	....	....	43.4	40.4
5	38.1	37.3	....	34.3	35.3	41.9	62.0	e68.7	....	48.4	43.0	40.3
6	38.3	37.2	....	....	35.1	40.2	61.8	e71.8	....	48.3	43.2	40.3
7	38.9	37.8	....	34.7	35.1	41.4	....	....	....	47.9	43.4	40.0
8	38.7	37.4	....	34.9	35.4	39.0	62.0	....	....	47.7	43.6	39.9
9	38.1	37.3	....	35.4	36.6	37.6	63.0	....	....	47.7	43.3	39.4
10	38.1	37.4	....	35.5	35.6	41.0	64.1	....	....	47.4	42.8	....

36. 22. 6. 9. 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	37.7	36.6	35.7	35.1	35.9	39.5	64.2	....	....	47.3	43.0	....
12	37.5	37.8	35.1	34.7	36.2	40.6	64.4	....	....	47.1	42.7	....
13	37.4	37.5	34.9	34.6	36.3	39.3	65.3	....	....	46.7	42.9	....
14	37.6	36.6	34.9	34.6	36.0	40.1	65.6	64.8	....	46.2	42.6	....
15	37.2	36.4	34.9	34.7	36.1	43.1	65.4	64.0	....	45.2	42.4	....
16	37.8	36.1	34.8	34.3	36.8	46.2	66.4	62.8	....	45.0	42.0	....
17	38.0	....	35.4	33.9	36.7	48.1	66.2	63.1	....	45.2	42.9	....
18	37.6	....	34.9	33.2	37.9	49.4	65.7	60.8	....	....	43.0	....
19	37.0	....	35.2	....	38.0	47.8	63.2	62.8	....	....	41.3	....
20	37.1	36.1	35.1	....	41.1	46.9	65.4	66.0	....	....	41.2	....
21	36.8	36.3	35.1	....	41.7	53.6	66.3	....	....	....	41.6	....
22	36.6	35.8	33.8	....	41.2	54.1	....	....	....	....	41.3	....
23	36.9	36.1	35.2	....	38.0	55.1	69.5	....	....	44.9	41.1	....
24	37.2	....	34.6	34.6	40.1	54.2	....	....	....	44.9	41.7	....
25	36.9	....	35.0	34.2	41.1	52.9	....	....	....	45.5	41.3	....
26	37.2	....	34.6	34.4	41.9	51.6	66.2	....	....	44.3	41.3	....
27	37.6	....	35.9	34.7	41.7	51.9	66.4	....	....	44.3	41.3	....
28	37.3	....	36.0	34.7	48.1	52.8	65.7	64.5	....	44.6	41.3	....
29	37.2	....	34.3	34.7	50.4	....	65.2	....	....	44.6	41.8	....
30	37.1	....	34.9	35.1	47.0	....	63.8	....	....	44.6	42.0	....
31	37.3	....	34.9	....	40.0	....	64.7	62.8	....	44.4	....	e37.8

e Estimated.

Essex County

25. 15. 7. 5. 4. Commonwealth Water Co. well 30. About 0.3 mile north of Canoe Brook pumping station, 0.8 mile west of White Oak Ridge pumping station of East Orange Water Dept. Drilled unused artesian well in Wisconsin terminal moraine, diameter 10 inches, depth about 130 feet. Land-surface datum is 170.0 feet above msl. Highest water level 162.8 above msl, Aug. 25, 1931; lowest 100.2 above msl, Apr. 24, 1955. Records available: 1925-55. Daily water-level fluctuations from less than 1 foot to as much as 17 feet are caused by pumping of nearby wells.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	106.4	e107.6	108.0	....	....	108.4	105.4	103.5	105.1	105.2	102.7	109.6
2	106.8	e107.8	108.4	....	....	108.4	105.5	105.7	105.4	103.6	102.4	108.3
3	107.7	e108.3	108.2	....	....	108.1	105.5	106.6	105.9	103.4	102.3	108.0
4	107.5	e108.3	108.3	....	....	108.1	105.7	104.8	106.7	105.3	102.7	107.6
5	107.2	108.3	108.4	107.4	....	108.3	106.1	103.5	107.2	106.9	102.3	107.4
6	106.6	108.3	108.9	107.0	....	108.2	105.6	103.1	106.7	105.4	102.3	106.7
7	106.0	108.2	108.8	106.9	....	107.5	104.8	102.4	105.2	104.2	102.5	106.6
8	106.0	108.0	108.7	105.6	....	107.6	104.2	102.5	103.4	102.8	102.6	106.5
9	106.2	107.9	111.5	105.3	....	108.6	103.7	103.0	102.9	102.4	102.5	106.5
10	106.6	108.0	112.1	105.3	....	108.5	103.5	103.3	102.8	102.3	102.5	106.1
11	106.8	107.8	110.6	106.1	....	108.5	103.6	104.0	103.0	102.5	102.9	106.1
12	107.4	106.5	109.5	104.9	....	109.0	104.1	104.0	102.3	102.4	102.5	106.0
13	107.5	106.3	109.0	....	....	108.4	104.2	106.2	102.2	102.4	102.3	....
14	107.2	106.3	108.9	....	....	108.4	104.0	113.8	102.2	102.5	102.8	....
15	107.2	106.5	109.0	....	....	107.5	103.8	126.8	102.4	103.3	102.8	105.8
16	107.3	106.3	110.1	....	....	104.8	103.6	126.8	102.8	104.8	102.7	105.6
17	107.5	106.2	109.7	....	....	103.6	103.4	....	103.0	104.7	102.6	105.6
18	107.6	106.1	109.7	....	103.3	103.2	103.5	....	103.3	104.6	102.9	105.6
19	107.8	106.0	109.4	....	103.2	103.2	103.4	....	103.7	105.7	102.9	105.6
20	107.7	106.0	109.3	....	103.2	103.7	103.3	107.1	104.5	104.8	102.9	105.6
21	107.7	106.0	109.6	....	103.4	103.9	103.3	106.6	105.7	104.0	102.9	....
22	108.1	106.3	110.3	101.4	105.6	104.1	103.3	106.6	107.0	102.9	102.5	....
23	108.0	107.3	109.9	100.5	104.8	105.7	103.3	108.6	107.3	102.9	102.5	....
24	108.0	108.9	110.0	100.2	104.1	106.4	103.0	106.6	....	103.1	102.2	....
25	108.0	107.8	110.7	....	104.0	107.2	103.0	106.4	109.4	103.6	102.2	....
26	107.9	107.2	....	101.9	104.2	108.7	103.1	108.4	109.4	102.9	103.4	106.2
27	107.8	107.2	....	102.5	104.1	108.4	103.2	107.3	109.6	102.4	104.9	106.3
28	e107.7	107.1	....	102.5	104.4	107.5	103.0	108.0	110.0	102.2	105.9	106.2
29	e107.6	....	....	103.0	104.6	106.5	102.9	107.7	108.6	102.3	106.1	106.3
30	e107.4	....	....	....	105.9	106.1	102.9	106.7	107.1	102.3	e108.1	106.7
31	e107.3	....	....	....	....	....	102.9	105.8	....	103.7	....	106.7

e Estimated.

25. 15. 7. 5. 9. East Orange Water Dept. Canoe Brook and Parsonage Hill Rd. Drilled unused artesian well in Wisconsin terminal moraine, diameter 6 inches, depth about 64 feet. Land-surface datum is 182 feet above msl. Highest water level 174.80 above msl, Oct. 25, 1927; lowest 131.10 above msl, Aug. 6-7, 1955. Records available: 1925-55.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	139.00	140.0	140.25	138.75	140.85	142.00	135.60	134.10	134.90	.....	135.20	.....
2	141.25	141.25	140.00	135.80	138.50	140.15	135.70	134.05	136.55	.....	134.95	.....
3	139.85	.....	140.60	135.60	137.75	140.20	136.05	133.90	136.80	.....	134.90	.....
4	139.75	.....	140.80	135.20	137.70	140.10	135.65	133.90	137.25	.....	135.75	.....
5	139.15	.....	139.75	134.00	137.75	141.55	135.40	131.85	138.15	.....	135.80	.....
6	138.55	.....	140.00	134.25	137.40	139.15	135.40	131.10	135.25	.....	136.30	140.65
7	137.95	.....	139.80	138.80	138.30	139.10	135.40	131.10	134.05	.....	135.65	140.90
8	138.65	.....	139.70	138.25	138.15	141.40	134.60	131.80	133.80	.....	135.30	141.00
9	138.60	141.90	139.75	138.20	143.95	143.20	134.10	132.60	133.40	.....	134.00	140.40
10	139.05	141.90	140.35	138.60	144.60	139.95	134.10	135.40	133.40	.....	135.40	140.55
11	139.85	140.55	142.55	138.10	144.50	140.45	134.75	135.15	133.80	.....	135.75	140.30
12	140.30	139.40	141.50	137.20	142.10	.....	134.80	135.45	132.95	.....	136.20	139.95
13	140.15	139.15	141.35	136.95	140.75	.....	135.25	136.90	132.90	.....	135.85	139.85
14	139.65	139.05	141.15	137.05	140.65	140.70	134.55	139.60	132.95	.....	136.25	139.80
15	139.75	139.20	141.15	136.90	141.25	137.90	134.40	139.85	.....	.....	135.50	139.50
16	140.00	138.80	142.40	136.55	140.85	136.15	134.45	139.10	.....	.....	135.40	139.10
17	140.40	138.75	141.70	136.40	143.90	135.45	134.65	139.65	.....	.....	135.80	139.00
18	140.35	138.60	140.45	136.75	139.30	135.30	134.25	138.30	.....	135.15	135.25	139.05
19	140.35	138.50	145.90	136.55	138.10	135.30	133.95	136.85	.....	135.15	135.45	139.55
20	140.15	138.35	149.50	137.30	137.95	136.75	133.85	136.45	.....	135.20	135.75	139.45
21	140.30	138.35	.....	137.40	137.85	136.05	133.85	136.70	.....	135.55	135.80	139.45
22	.....	137.40	.....	137.35	137.85	136.50	133.85	137.00	.....	134.80	135.30	139.50
23	.....	135.25	143.70	136.75	138.30	136.60	133.75	137.85	.....	134.80	135.40	139.60
24	140.65	137.60	144.10	136.55	137.85	137.50	133.70	137.30	.....	135.60	135.40	139.35
25	140.45	138.25	143.50	138.15	137.35	138.05	134.15	137.00	.....	.....	136.00	139.55
26	140.30	139.40	142.15	140.85	137.70	138.60	134.10	137.30	.....	.....	137.90	140.05
27	140.20	139.40	141.65	139.80	137.45	138.05	134.10	137.50	.....	.....	140.15	139.95
28	140.15	139.55	141.40	140.00	138.20	136.70	134.00	137.55	.....	.....	139.90	139.10
29	140.05	.....	140.75	139.80	138.15	136.40	133.95	136.70	.....	.....	140.10	139.05
30	140.00	.....	140.65	139.80	140.35	136.20	134.05	136.80	.....	.....	144.00	140.45
31	140.00	.....	139.45	.....	.....	.....	134.80	135.20	.....	135.75	.....	139.85

25. 15. 7. 6. 7. East Orange Water Dept. (downstream test well). Canoe Brook below Parsonage Hill Rd. Drilled unused water-table well in Wisconsin terminal moraine, diameter 8 inches, depth 62 feet. Land-surface datum is 180 feet above msl. Highest water level 179.59 above msl, May 12, 1947; lowest 169.45 above msl, Apr. 26, 1944. Records available: 1931-55. Jan. 25, +175.22; Feb. 21, +175.17; Mar. 28, +175.66; May 2, +174.97; June 1, +174.98; July 7, +173.61; Aug. 17, +172.63. Measurement discontinued.

Gloucester County

30. 14. 8. 2. 4. (Repauno 2) E. I. du Pont de Nemours Co. Gibbstown. Drilled unused artesian well in Magothy and Raritan formations, diameter 6 inches, depth 98 feet. Land-surface datum is 4.0 feet above msl. Highest water level 2.23 above msl, Apr. 10, 13, 1953; lowest 3.94 below msl, Aug. 8, 1955. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.04	2.82	1.39	1.04	0.64	2.30	2.88	3.63	1.51	2.13	1.32	1.48
2	1.98	2.96	1.42	1.00	1.28	2.32	....	3.73	1.44	1.67	1.22	1.45
3	2.29	2.67	1.49	.56	1.09	2.18	....	3.78	.66	2.01	.88	.99
4	2.37	2.99	1.69	.68	1.40	1.84	....	3.82	1.02	2.39	1.32	1.22
5	2.76	2.86	1.60	1.02	1.50	1.83	2.71	3.82	1.13	2.49	1.32	1.24
6	2.50	2.84	1.54	.93	1.62	2.09	2.78	3.40	....	2.51	.98	1.50
7	2.56	2.81	1.93	1.15	1.26	2.37	2.77	2.80	1.37	2.44	1.39	1.53
8	2.25	2.63	1.70	.79	1.31	2.03	2.93	3.94	1.92	2.04	1.36	1.64
9	2.15	2.24	2.11	.64	1.75	1.73	2.47	3.08	1.96	1.86	1.03	....
10	2.48	2.23	2.01	.69	1.70	1.67	2.49	3.08	1.55	2.33	1.31	....
11	2.30	2.15	1.98	.72	1.74	1.38	3.53	3.10	1.56	2.10	1.32	....
12	2.62	1.66	1.58	.88	1.94	1.26	3.18	3.34	2.00	2.09	.99	....
13	2.51	....	1.56	.87	1.98	1.24	3.23	2.61	1.97	2.04	.96	....
14	2.64	1.99	1.85	.84	1.74	1.28	3.21	1.96	2.03	1.99	1.41	....
15	2.19	1.91	1.96	.99	1.77	1.29	3.35	2.11	2.06	1.42	1.04	....

30. 14. 8. 2. 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	2.15	1.86	1.93	.96	2.01	1.78	3.29	2.06	2.13	1.37	1.33	2.44
17	2.27	1.84	1.85	.92	1.85	1.99	2.89	2.02	1.83	1.42	1.34	2.21
18	2.33	2.49	1.76	1.17	2.18	1.76	3.40	2.34	1.87	1.35	1.46	2.36
19	2.33	1.62	1.38	1.40	2.14	1.46	3.53	1.67	2.26	1.36	1.10	2.31
20	2.35	2.41	1.34	1.19	2.37	1.51	3.56	1.49	2.30	1.39	1.10	1.54
21	2.34	1.98	1.60	1.12	2.05	1.48	3.51	1.30	2.43	1.60	1.46	1.84
22	2.12	2.07	1.47	.92	2.06	1.80	3.65	1.31	2.55	1.48	1.48	1.84
23	2.16	2.09	1.53	.57	2.07	1.76	3.17	1.24	2.57	1.48	1.42	....
24	2.27	1.49	1.46	.45	2.40	1.53	3.17	1.18	1.96	1.80	1.08	....
25	2.49	1.87	1.47	.97	2.49	1.26	....	1.08	1.92	1.87	1.38	....
26	2.73	1.93	1.05	1.06	2.53	1.12	3.63	1.34	2.19	1.09	1.02	....
27	2.87	1.40	1.09	1.24	2.49	1.45	3.72	.67	2.15	....	1.00	....
28	2.29	1.45	1.63	1.21	2.29	1.87	3.72	.79	2.38	.85	1.41	1.60
29	2.28		1.62	1.19	2.32	2.08	3.34	1.42	2.13	.83	1.58	1.90
30	2.27		1.50	.61	2.33	2.12	2.82	1.11	2.26	.72	1.82	2.20
31	2.35		1.04		2.55		3.24	1.57		1.27		1.90

31. 11. 2. 7. 2. The Texas Co. well 3. Eagle Point, Westville. Drilled observation artesian well in Magothy and Raritan formations, diameter 8 inches 0-86, 6 inches 86-245, depth 298 feet, 6-inch screen 225-245, well cased to rock. Land-surface datum is 22 feet above msl. Highest water level 15.7 below msl, Nov. 25, 1950; lowest 52.2 below msl, Aug. 17, 1955. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.6	....	47.5	47.4	45.6	44.4	46.9	48.4	48.1	47.3	43.6	38.1
2	42.7	....	48.0	46.6	45.2	44.0	48.0	50.9	48.5	45.0	43.6	38.1
3	42.8	....	48.4	45.4	46.4	45.5	46.8	50.9	47.4	41.3	43.2	40.0
4	43.8	....	47.7	41.2	47.0	45.7	46.4	50.8	45.2	41.6	43.3	37.4
5	43.6	....	46.1	41.1	48.2	43.9	48.0	51.0	41.3	41.9	43.4	34.9
6	....	....	43.1	40.6	48.0	45.1	48.2	49.0	....	41.9	39.5	36.1
7	45.1	46.6	45.1	40.6	46.7	46.0	48.5	47.4	....	42.1	37.6	39.0
8	44.3	46.7	46.8	39.6	45.8	45.5	49.6	48.2	....	40.0	38.5	40.4
9	....	46.5	47.3	39.5	46.3	45.9	49.6	48.9	....	38.8	38.3	41.3
10	45.0	46.5	48.5	38.8	46.5	46.2	48.9	48.9	....	40.4	38.3	42.5
11	46.1	46.5	48.0	39.9	47.5	46.2	49.0	48.8	....	40.4	37.2	....
12	47.1	....	47.4	40.9	48.0	42.7	49.5	48.8	42.3	41.0	36.2	41.1
13	47.0	....	46.2	41.2	47.5	44.3	49.7	46.8	46.1	40.6	33.9	41.3
14	47.1	46.0	46.3	41.1	46.3	45.5	49.4	47.1	46.7	40.1	36.5	42.7
15	46.7	....	46.6	41.2	44.9	46.1	48.6	47.5	47.9	40.1	37.5	43.0
16	44.4	47.2	46.6	42.8	44.3	47.3	47.4	50.7	48.3	39.9	37.6	....
17	43.7	48.2	47.3	42.2	44.6	48.3	47.0	52.2	47.3	....	38.2	....
18	44.7	48.4	47.5	43.2	44.3	47.1	47.4	51.7	45.7	....	38.1	....
19	45.4	47.9	47.2	45.8	44.0	45.4	49.1	51.9	44.8	....	36.9	43.8
20	46.9	46.6	45.5	46.8	44.9	46.4	49.8	50.9	47.0	....	33.9	44.2
21	47.7	46.1	46.5	47.6	44.1	46.1	50.0	50.6	47.9	....	36.2	....
22	46.5	45.5	46.6	47.7	42.7	42.7	50.3	49.7	48.0	....	36.8	....
23	45.9	46.9	47.9	46.8	42.3	38.8	49.6	50.7	47.5	....	36.6	....
24	45.6	47.3	47.8	44.7	44.5	37.1	47.8	51.0	46.7	43.0	36.5	....
25	45.9	47.6	47.7	43.5	44.4	37.1	48.9	49.5	44.7	....	35.0	....
26	47.6	47.4	46.6	44.7	44.7	36.8	49.3	48.6	44.4	....	35.2	....
27	47.5	46.5	45.6	47.6	44.8	35.8	49.6	48.1	46.6	....	34.3	43.8
28	....	46.4	45.7	47.9	44.5	38.5	50.7	46.7	47.6	45.0	34.4	....
29	....		45.6	46.7	43.4	43.2	50.2	46.0	48.3	45.4	....	....
30	....		46.0	46.3	43.5	45.4	49.0	47.1	47.0	43.0	38.3	....
31	46.4		46.2		43.2		46.8	47.6		43.6		....

Middlesex County

28. 4. 4. 2. 1. Robert D. Fischer. Dug observation water-table well in Farrington sand member of Raritan formation, diameter $4\frac{1}{2}$ feet, depth 17 feet, cased with concrete well blocks. Land-surface datum is 73 feet above msl. Highest water level 64.12 above msl, Apr. 26-27, 1939; lowest 56.55 above msl, Jan. 28, 1950. Records available: 1936-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.69	57.94	57.80	....	....	58.39	57.98	57.40	58.43	58.16	58.56	58.42
2	57.70	57.93	57.78	....	....	58.38	57.97	57.38	58.45	58.15	58.56	58.43
3	....	57.91	57.77	....	....	58.36	57.95	57.36	58.46	58.13	58.57	58.42
4	....	57.89	57.79	....	....	58.36	....	57.34	58.47	58.12	58.58	58.43
5	....	57.90	57.78	....	....	58.35	....	57.32	58.48	58.10	58.58	58.41

28. 4. 4. 2. 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	57.94	57.81	.....	.....	58.34	.....	57.30	58.49	58.08	58.58	58.40
7	57.98	57.80	.....	.....	58.32	.....	57.29	58.49	58.07	58.58	58.39
8	57.95	57.80	.....	.....	58.32	.....	57.30	58.48	58.06	58.58	58.38
9	57.93	.....	.....	58.62	58.30	.....	57.27	58.48	58.04	58.58	58.38
10	57.93	.....	.....	58.63	58.29	.....	57.25	58.48	58.02	58.60	58.35
11	57.95	.....	.....	58.61	58.28	.....	57.24	58.49	58.01	58.60	58.34
12	57.90	.....	.....	58.60	58.27	.....	57.42	58.46	57.99	58.58	58.33
13	57.87	.....	.....	58.60	58.26	.....	57.87	58.44	57.97	58.58	58.32
14	57.89	.....	.....	58.59	58.24	57.76	57.98	58.44	58.26	58.58	58.32
15	57.88	.....	.....	58.57	58.22	57.74	58.00	58.44	58.15	58.57	58.31
16	57.88	.....	.....	58.58	58.20	57.72	58.01	58.41	58.28	58.60	58.30
17	57.86	.....	.....	58.56	58.18	57.70	58.01	58.40	58.29	58.56	58.29
18	57.85	.....	.....	58.56	58.17	57.68	58.03	58.39	58.35	58.54	58.28
19	57.85	.....	.....	58.54	58.16	57.66	58.09	58.38	58.37	58.56	58.26
20	57.84	.....	.....	58.53	58.15	57.64	58.10	58.36	58.40	58.54	58.25
21	57.83	.....	.....	58.51	58.14	57.62	58.13	58.33	58.42	58.53	58.24
22	57.83	.....	.....	58.50	58.12	57.60	58.18	58.31	58.42	58.51	58.24
23	57.81	.....	.....	58.50	58.11	57.58	58.22	58.30	58.45	58.53	58.22
24	57.81	.....	.....	58.49	58.09	57.56	58.25	58.29	58.48	58.49	58.22
25	57.80	.....	.....	58.48	58.08	57.54	58.29	58.26	58.48	58.49	58.20
26	57.79	.....	.....	58.46	58.06	57.52	58.32	58.24	58.50	58.49	58.18
27	57.81	.....	.....	58.44	58.04	57.50	58.35	58.23	58.51	58.49	58.16
28	57.80	.....	.....	58.43	58.03	57.48	58.37	58.22	58.53	58.48	58.14
29	58.43	58.01	57.46	58.40	58.20	58.54	58.46	58.14
30	58.42	58.00	57.44	58.42	58.19	58.58	58.44	58.13
31	58.40	.....	57.42	58.43	.....	58.58	.....	58.12

28. 4. 9. 3. 1. Duhernal Water System well 11. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 72 feet. Land-surface datum is 36.5 feet above msl. Highest water level 14.23 above msl, June 1, 1940; lowest 1.94 below msl, Aug. 10, Oct. 7, 1951. Records available: 1939-55.

Water level at end of day, above and below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+6.7	+6.0	+6.0	+6.6	+6.7	+6.1	+3.2	+5.6	+7.4	+6.9	.....	+1.5
2	6.6	6.0	6.0	6.6	6.7	4.0	3.1	5.6	7.4	6.9	+7.1	1.4
3	6.5	6.0	6.0	6.6	6.8	3.7	3.1	5.5	7.4	6.8	7.1	1.3
4	6.4	6.0	6.1	6.6	6.7	5.9	3.1	5.4	7.5	6.8	7.0	1.4
5	6.4	6.1	6.1	6.6	6.7	5.9	3.0	5.4	7.4	6.7	7.0	1.0
6	6.4	6.1	6.2	6.7	6.7	6.0	2.2	5.5	7.4	6.7	7.1	.9
7	6.4	6.2	6.1	6.7	6.7	6.0	2.0	5.6	7.3	6.8	5.8	.8
8	6.4	6.1	6.2	6.7	6.6	6.0	3.4	5.6	7.3	6.9	5.8	.6
9	6.4	6.0	6.0	6.6	6.6	6.0	3.6	5.7	7.2	6.9	6.9	.5
10	6.4	6.1	6.0	6.6	6.5	6.0	3.2	5.7	7.3	6.7	7.0	e.4
11	6.3	6.1	6.0	6.6	6.5	6.0	5.9	5.8	7.3	6.7	7.0	e.3
12	6.3	5.9	6.1	6.7	6.5	6.0	5.9	6.3	7.2	6.7	6.9	+1
13	6.3	5.9	6.1	6.8	6.4	6.0	6.2	7.0	7.1	6.7	7.0	.0
14	6.3	6.0	6.1	6.7	6.4	6.0	6.0	7.0	7.1	6.9	6.9	-.2
15	6.4	5.9	6.2	6.8	6.4	6.0	6.0	6.9	7.1	7.3	7.0	.3
16	6.3	5.8	6.1	6.9	6.4	5.9	6.1	6.9	7.0	7.4	7.0	.5
17	6.3	5.8	6.1	6.9	6.4	5.9	6.1	6.9	7.1	7.4	6.9	.6
18	6.2	5.8	6.2	6.8	6.4	5.9	6.2	7.1	7.1	7.2	6.8	.7
19	6.2	5.8	6.2	6.8	6.3	5.9	6.1	.....	7.1	7.2	6.9	e.5
20	6.1	5.8	6.3	6.9	6.3	5.9	5.9	.....	7.0	5.2	6.9	.....
21	6.1	5.8	6.3	6.9	6.3	5.9	5.9	.....	6.9	8.4	6.8	.7
22	6.1	5.8	6.4	6.9	6.4	5.9	5.9	.....	6.9	5.3	6.8	.7
23	6.2	5.9	6.6	6.9	6.3	5.9	5.9	.....	6.9	7.2	2.9	-.8
24	6.1	6.0	6.6	6.8	4.2	3.9	5.9	7.4	6.9	7.1	2.6	+2.2
25	6.0	5.9	6.5	6.7	6.2	3.7	5.8	7.4	7.0	7.1	2.4	.....
26	6.1	6.0	6.5	6.7	6.2	3.8	5.7	7.4	7.0	7.0	2.2	.....
27	6.0	6.1	6.5	6.7	.....	3.5	5.7	7.5	7.0	7.0	2.2	.....
28	6.0	6.1	6.5	6.7	.....	3.3	5.7	7.5	6.9	7.0	.....	-.1
29	5.9	.....	6.6	6.7	.....	3.3	5.7	7.5	6.9	7.0	.....	-.2
30	5.9	.....	6.6	6.7	.....	3.3	5.6	7.4	6.9	7.0	1.7	-.3
31	5.9	.....	6.6	.....	.....	.....	5.6	7.4	.....	.....	.....	+5.0

e Estimated.

28. 4. 9. 3. 5. Duhernal Water System well 4. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 75 feet. Land-surface datum is 23.0 feet above msl. Highest water level 11.75 above msl, Apr. 20, 1949; lowest 5.56 below msl, Nov. 10, 1953. Records available: 1938-55.

28.4.9.3.5--Continued.

Water level at end of day, above and below msl, from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	-3.00	-2.65	....	+0.20	+0.30	+0.60	-2.05	+0.80	-0.50	-0.35	-1.30
2	....	2.95	....	....	+1.15	.35	.85	2.25	.55	.30	.00	1.30
3	....	2.90	....	....	+1.10	.10	1.35	2.35	.60	.55	-.15	1.45
4	-2.45	2.85	....	....	.00	+1.15	....	2.40	1.35	.80	-.25	.90
5	2.50	2.80	....	....	-.15	-.30	.15	2.40	.65	.70	-.25	1.35
6	2.60	2.70	....	....	-.20	-.20	-.30	2.10	.65	.90	.00	.90
7	2.55	3.05	....	....	-.15	.00	.60	2.15	.40	.90	-.10	1.25
8	2.60	2.80	....	....	.00	+1.15	.75	2.20	.35	.90	-.05	-1.05
9	2.55	2.85	....	....	+1.25	+1.20	-.80	2.15	.40	.70	+1.10	.00
10	2.60	2.80	....	....	-.20	-.15	+1.25	2.15	.45	.65	-.15	+1.50
11	2.75	2.90	....	....	.35	.10	-.70	2.05	.60	.65	+1.10	+1.75
12	2.80	....	....	....	.45	.25	1.00	1.75	+1.10	.60	-.25	-.85
13	2.85	....	....	....	.55	.35	1.05	1.20	-.05	-.45	.10	1.40
14	2.50	....	....	....	.65	.05	1.10	.60	.10	+1.70	.35	1.40
15	2.40	....	1.70	....	.60	.30	1.10	-.05	.25	1.55	.20	1.75
16	2.50	3.10	1.75	....	.65	.50	1.15	+1.30	.40	2.20	.40	1.95
17	2.55	3.10	....	....	.45	.60	-.85	.55	.05	....	.60	1.80
18	2.70	....	....	....	.50	.55	+0.05	.80	.05	.55	.70	1.75
19	2.80	3.05	....	+0.15	.50	.50	-.55	2.65	.20	.20	.45	1.85
20	2.90	....	....	....	.50	.60	1.00	3.55	....	+0.05	.25	....
21	2.85	....	....	....	.60	.60	1.10	4.05	....	-.05	.65	2.30
22	2.95	3.20	1.25	.65	.20	.60	1.00	....	....	-.05	.75	....
23	2.70	3.00	....	.70	.40	.60	1.00	1.65	....	+1.40	.80	....
24	2.95	2.90	....	.70	.30	.15	1.00	1.45	....	+1.15	.85	....
25	2.90	3.00	....	.25	.45	-.30	1.35	1.35	....	-.05	.95	....
26	2.55	2.70	....	+1.20	.45	.00	1.55	1.30	....	.20	1.00	....
27	2.85	2.55	....	.00	.25	-.35	1.30	1.55	.15	.25	.75	2.45
28	2.95	2.70	....	-.10	-.05	.45	1.75	1.15	.55	.35	1.05	2.65
29	3.05	....	....	-.05	+1.15	.50	1.95	1.10	.60	.05	1.10	2.75
30	2.95	....	....	+1.25	+1.20	.40	2.10	.95	.10	.35	1.20	2.90
31	3.15	....	....	....	-.15	....	2.00	.90	....	.40	....	2.50

28.4.9.5.1. Duhernal Water System well 9. Spotswood. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 80 feet. Land-surface datum is 15 feet above msl. Highest water level 14.85 above msl, June 1, 1940; lowest 8.45 above msl, Sept. 29, Oct. 13-14, 1943. Records available: 1939-44, 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+11.20	Apr. 5	+11.15	July 5	+9.49	Oct. 4	+9.96
11	10.85	12	11.70	12	9.61	11	10.18
18	10.40	19	10.78	19	9.36	18	11.67
25	10.34	26	10.77	26	9.20	25	11.25
Feb. 1	10.10	May 3	10.67	Aug. 2	9.12	Nov. 1	11.33
8	11.01	10	10.30	9	9.46	8	10.90
15	10.67	17	10.04	16	12.00	15	10.95
22	10.48	24	9.92	23	11.55	22	10.73
Mar. 1	10.70	31	10.30	30	11.13	29	10.63
8	10.99	June 7	10.05	Sept. 6	10.97	Dec. 6	10.63
15	10.73	14	10.14	13	10.70	13	10.25
22	11.17	21	9.78	20	10.59	20	10.10
29	11.39	28	9.78	27	10.18	27	10.05

28.4.9.8.2. Duhernal Water System well 10. On upstream part of property acquired for water supply near Spotswood. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 93 feet. Land-surface datum is 20.0 feet above msl. Highest water level 21.98 above msl, Feb. 8, 1941; lowest 5.72 above msl, June 7, 1955. Records available: 1938-46, 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	+8.15	Mar. 22	+8.47	June 14	+7.41	Oct. 4	+7.19
11	7.84	Apr. 5	8.19	21	7.41	18	9.02
18	7.44	12	8.10	28	6.92	25	8.81
25	7.71	19	8.38	July 5	6.36	Nov. 1	10.86
Feb. 1	7.59	26	8.48	12	6.26	8	10.02
15	7.91	May 3	7.02	Sept. 6	8.45	15	9.14
20	7.46	10	7.24	13	8.08	22	8.75
Mar. 1	7.98	31	7.44	20	7.39	Dec. 13	5.92
8	8.25	June 7	5.72	27	7.44	27	7.16
15	8.12	....	....	....	....	....	....

28.5.1.8.4. Borough of Sayreville. Drilled unused artesian well in Farrington sand member of Raritan formation, diameter 6 inches, depth 160 feet, screen 148-160. Land-surface datum is 11.0 feet above msl. Highest water level 11.55 above msl, Mar. 27, 1944; lowest 32.9 below msl, Oct. 25, 1935. Records available: 1931-55. Fluctuations caused mainly by regional pumping.

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	.....	-6.85	-9.46	-2.76	.....	.....	.....	-16.80	-19.00	-16.90	-14.25	-12.04
2	.....	6.82	10.09	3.05	.....	.....	.....	17.73	19.08	16.76	14.75	12.95
3	.....	6.91	10.07	3.05	.....	.....	.....	17.81	19.18	17.15	14.19	13.49
4	-5.50	7.54	9.58	4.45	.....	.....	.....	18.12	18.52	16.91	14.13	16.98
5	5.53	7.43	9.61	5.89	.....	.....	-15.70	17.75	17.13	16.83	.....	15.20
6	4.25	6.88	9.59	4.04	.....	.....	15.75	17.68	15.57	16.67	.....	15.22
7	-1.41	7.20	9.71	3.17	.....	.....	15.85	17.20	16.76	16.53	.....	14.85
8	+1.7	7.32	9.78	4.40	.....	.....	16.42	19.77	17.06	16.19	.....	13.93
9	+1.27	7.13	9.22	5.83	.....	.....	16.61	19.88	17.60	16.59	.....	13.16
10	+2.7	7.08	10.57	6.54	.....	.....	20.45	19.18	17.64	16.35	.....	11.78
11	-2.27	7.67	9.52	7.55	-10.58	.....	.....	19.39	17.18	15.89	.....	10.85
12	3.10	7.53	9.42	.....	11.16	.....	18.19	18.58	17.02	16.42	.....	10.14
13	3.66	7.52	8.49	.....	11.84	.....	17.71	18.18	16.98	16.03	.....	11.14
14	4.28	8.36	6.76	.....	12.43	.....	17.63	18.09	16.95	16.14	.....	11.87
15	4.65	13.00	.....	.....	12.42	.....	17.63	18.80	16.96	16.10	10.20	11.75
16	5.03	11.74	.....	.....	12.79	.....	17.41	18.68	17.02	15.54	.....	11.57
17	5.94	10.35	.....	.....	12.92	.....	16.85	18.59	17.07	15.78	.....	11.83
18	6.17	.....	.....	.....	13.03	.....	16.72	18.30	19.97	15.10	.....	13.54
19	6.28	.....	.....	7.08	.....	.....	16.96	18.53	.....	14.42	.....	12.37
20	5.94	.....	.....	7.87	.....	.....	17.07	18.98	18.38	14.52	.....	12.28
21	6.01	.....	.....	9.60	.....	.....	17.41	18.42	17.93	14.93	.....	12.52
22	5.91	10.09	3.21	8.61	.....	.....	17.95	19.04	17.74	.....	.....	12.63
23	6.08	10.49	3.37	8.39	.....	.....	18.57	19.45	17.17	.....	14.08	12.78
24	6.90	10.58	3.56	8.50	14.16	.....	19.73	19.49	16.57	.....	14.14	12.63
25	.....	10.42	3.27	7.68	14.71	.....	18.44	19.55	16.35	.....	13.83	12.38
26	.....	10.48	2.50	.....	15.06	.....	18.32	19.41	17.01	.....	12.59	11.94
27	.....	10.05	2.61	.....	.....	.....	17.87	19.60	16.35	.....	11.20	12.62
28	.....	10.23	2.47	.....	.....	.....	18.00	18.90	16.40	.....	9.74	12.62
29	.....	.....	2.60	.....	.....	-13.76	17.64	18.33	16.41	.....	10.98	12.65
30	.....	.....	2.71	.....	.....	.....	17.23	18.79	16.53	.....	11.55	12.35
31	.....	.....	2.13	.....	.....	.....	16.55	18.35	.....	.....	.....	12.58

28.5.4.3.9. Perth Amboy Water Dept. Old Deep 1. Runyon. Drilled unused artesian well in Farrington sand member of Raritan formation, diameter 8 inches, depth 290 feet. Land-surface datum is 19 feet above msl. Highest water level 12.8 above msl, Mar. 1, 1943, Mar. 26, 1944; lowest 54.9 below msl, Sept. 26-27, 1947. Records available: 1930-55. Affected by pumping of nearby wells.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-26.0	-27.9	-29.4	-15.5	-17.1	-32.5	-34.1	-35.0	-47.4	-45.9	-43.9	-41.7
2	26.1	27.8	29.6	15.9	27.2	33.4	34.5	35.7	47.7	46.0	43.8	42.1
3	26.6	27.8	29.7	15.9	28.9	34.2	34.5	36.0	47.7	45.7	43.8	42.4
4	26.7	27.9	29.7	16.6	29.5	34.4	34.0	36.2	47.6	45.7	43.7	44.0
5	26.8	27.9	29.9	17.3	29.9	34.3	34.0	36.2	41.0	45.9	43.7	43.7
6	17.7	27.8	29.7	16.8	30.2	33.8	34.3	26.6	44.2	45.8	43.6	43.5
7	2.4	27.5	29.5	16.1	30.4	34.3	34.7	40.5	45.4	45.3	43.6	43.3
8	-1	27.5	29.4	24.8	30.4	34.4	35.1	47.1	45.8	45.5	43.5	43.1
9	+9	27.5	29.3	26.2	30.4	34.6	35.1	47.7	46.2	45.6	43.5	42.7
10	-21.0	27.8	29.7	26.8	30.4	34.9	.....	47.8	46.2	45.2	43.5	34.9
11	23.3	28.0	29.9	27.3	30.6	34.8	.....	48.0	46.1	45.0	43.3	33.5
12	24.6	28.3	30.1	27.5	30.8	34.5	.....	47.8	45.5	44.9	43.4	39.5
13	25.3	28.2	22.9	27.7	31.4	33.7	.....	47.4	45.6	44.9	43.2	40.3
14	25.9	28.6	10.8	27.9	32.0	33.1	36.0	47.0	45.1	44.9	32.9	40.6
15	26.3	28.7	5.6	28.2	32.0	32.9	36.0	47.0	45.2	45.0	32.9	40.7
16	26.6	28.9	4.3	29.0	32.0	32.9	35.9	47.2	45.2	45.0	32.5	40.7
17	26.9	29.0	15.6	29.0	32.7	33.1	35.7	47.3	45.3	44.8	32.4	40.7
18	27.2	29.5	16.8	29.0	33.0	33.3	35.1	47.2	47.0	44.8	40.3	41.1
19	27.3	29.4	17.4	28.8	33.3	33.3	35.5	47.4	46.8	42.2	41.6	41.0
20	27.4	31.2	17.4	29.2	33.7	32.8	35.8	47.6	46.2	42.9	42.0	41.0
21	27.4	30.8	17.4	30.1	34.1	32.9	36.0	47.5	46.2	43.0	42.3	41.1
22	27.2	30.1	16.6	30.1	34.2	33.2	36.3	47.2	46.2	43.1	42.7	41.3
23	27.1	30.1	16.3	29.8	33.9	33.5	36.4	47.7	45.8	43.0	43.0	41.4
24	27.3	30.2	16.2	.....	34.0	33.7	37.1	47.8	45.3	42.4	43.2	41.3
25	27.2	30.2	16.1	.....	34.5	33.8	36.5	47.9	44.8	42.2	43.2	41.2

28.5.4.3.9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	27.4	30.2	18.0	....	34.8	33.5	36.2	47.8	44.5	42.2	35.6	41.0
27	27.5	30.0	15.7	....	35.0	32.9	36.1	48.0	44.9	42.1	33.9	41.1
28	27.6	29.8	15.6	....	35.1	32.8	36.5	47.9	44.9	43.9	39.4	41.2
29	27.8		15.5	....	35.1	33.3	36.3	47.0	45.4	44.3	40.5	41.2
30	27.9		15.5	....	34.9	33.7	35.6	47.3	45.4	44.3	41.1	40.9
31	28.0		15.4		34.2		35.5	47.2		44.0		41.0

28.5.4.7.3. Perth Amboy Water Dept. Runyon 123. Drilled unused artesian well in Old Bridge sand member of Raritan formation, diameter 8 inches, depth about 60 feet. Land-surface datum is 3.5 feet above msl. Highest water level flooded at 6.14 above msl, Sept. 22, 1938; lowest 0.62 below msl, Nov. 1, 1954. Records available: 1938-47, 1949-55. Daily tidal fluctuation about 3 feet.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+1.33	May 1	+1.97	Sept. 1	+2.70	Nov. 1	+4.02
Feb. 1	1.13	July 14	1.14	29	+2.21	Dec. 1	+2.94
Mar. 1	2.58	Aug. 1	1.54				

28.5.4.8.1. Duernal Water System well 1. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 67 feet. Land-surface datum is 18.7 feet above msl. Highest water level 7.67 above msl, July 31, 1945; lowest 2.35 above msl, Sept. 11, 1954. Records available: 1938-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.72	4.62	4.57	5.32	5.30	....	....	....	5.88	5.12	5.74	5.09
2	4.71	4.63	4.51	5.36	5.26	....	....	4.18	....	5.07	5.72	5.09
3	4.72	4.60	4.49	5.40	5.24	....	....	4.17	....	5.07	5.73	5.08
4	4.75	4.58	4.54	5.43	5.24	....	....	4.14	5.81	5.05	5.73	5.08
5	4.79	4.63	4.60	5.47	5.22	....	4.52	4.12	5.79	5.02	5.73	5.08
6	4.82	4.70	4.64	5.51	5.20	....	4.51	4.12	5.76	5.02	5.73	5.05
7	4.82	4.74	4.62	5.50	5.19	....	4.50	....	5.72	5.02	5.68	5.04
8	4.85	4.77	4.62	5.46	5.16	....	4.49	....	5.67	5.02	5.63	5.03
9	4.88	4.77	4.64	5.46	5.11	....	4.48	4.16	5.64	4.97	5.59	5.03
10	4.89	4.77	4.66	5.44	5.07	4.95	4.45	4.17	5.62	4.96	5.59	5.02
11	4.91	4.75	4.65	5.42	5.04	4.94	4.43	4.25	5.59	4.93	5.59	....
12	4.94	4.64	4.67	5.40	5.01	4.94	4.49	4.65	5.55	....	5.52	....
13	4.94	4.57	4.64	5.41	4.99	4.93	4.49	5.18	5.50	....	5.49	4.88
14	4.92	4.57	4.64	5.41	4.97	....	4.49	5.48	5.48	5.10	5.49	4.88
15	4.95	4.58	4.67	5.37	4.95	4.88	4.43	5.74	5.48	5.23	5.46	4.86
16	4.91	4.57	4.67	5.31	4.93	4.87	4.42	5.86	5.47	5.39	5.48	4.83
17	4.88	4.57	4.64	5.32	....	4.85	4.41	5.99	....	....	5.48	4.81
18	4.85	4.55	4.64	5.30	....	4.84	4.40	6.03	5.40	5.65	5.37	4.81
19	4.86	4.55	4.63	5.31	....	4.83	....	6.18	5.40	5.65	....	....
20	4.83	4.55	4.67	5.32	....	4.83	....	....	5.38	5.65	....	4.70
21	4.87	4.56	4.73	5.35	....	4.83	....	....	....	5.66	....	4.69
22	4.90	4.59	4.90	5.39	....	4.84	....	....	....	5.66	5.20	4.69
23	4.89	4.58	4.97	5.41	....	4.83	....	6.18	....	5.66	5.20	4.64
24	4.90	4.59	5.02	5.47	....	4.82	....	6.15	....	5.66	5.18	4.64
25	4.90	4.58	5.07	....	4.92	4.80	....	6.14	....	5.65	5.18	4.61
26	4.88	4.59	5.14	5.44	4.91	4.80	4.29	6.14	....	5.65	5.15	4.59
27	4.79	4.62	5.14	5.43	4.89	4.79	4.28	6.03	5.13	5.63	5.15	4.60
28	4.76	4.60	5.16	5.40	4.89	4.73	4.27	5.99	5.12	5.62	5.15	4.62
29	4.73		5.21	5.37	4.87	4.71	....	5.96	5.12	5.62	5.14	4.66
30	4.69		5.25	5.34	4.85	4.70	....	5.92	5.12	....	5.09	4.64
31	4.67		5.29		4.92		....	5.90		....		4.63

28.5.4.8.7. Duernal Water System well 2. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 95 feet. Land-surface datum is 29 feet above msl. Highest water level 15.65 above msl, Apr. 11, 1939; lowest 6.48 above msl, Dec. 29, 1953. Records available: 1938-42, 1944, 1950-55.

Jan.	4	+9.69	Mar.	8	+9.48	May	10	+10.00	July	12	+9.04
	11	9.73		15	10.11		17	10.06		19	8.87
	18	9.62		22	9.97		24	9.85		26	8.70
	25	9.67		29	10.35		31	9.74	Aug.	2	8.56
Feb.	1	9.55	Apr.	5	10.48	June	7	9.71		9	8.30
	8	9.44		12	10.34		14	9.68		16	10.35
	15	9.41		19	10.58		21	9.55		23	10.91
	22	9.36		26	10.38		28	9.44		30	10.84
Mar.	1	9.44	May	3	10.31	July	5	9.12	Sept.	6	10.12

28. 5. 4. 8. 7--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 13	+10.46	Oct. 11	9.67	Nov. 8	10.66	Dec. 6	10.09
20	10.00	18	10.54	15	10.54	13	9.86
27	10.28	25	10.66	22	10.32	20	9.64
Oct. 4	10.84	Nov. 1	10.78	29	10.24	27	9.55

28. 5. 7. 1. 5. Duhernal Water System well 5. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 72 feet. Land-surface datum is 21 feet above msl. Highest water level 14.94 above msl, Apr. 7-8, 1939; lowest 0.04 above msl, Nov. 16, 1953. Records available: 1939-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.88	3.84	4.14	6.70	6.31	5.70	5.10	2.90	6.80	4.46	5.41	4.48
2	3.86	3.74	4.08	6.77	6.32	5.70	5.02	2.89	6.70	4.43	5.42	4.49
3	3.74	3.68	4.23	6.76	6.32	5.73	4.97	2.81	6.61	4.38	5.42	4.42
4	4.20	3.65	4.34	6.71	6.39	5.80	4.94	2.72	6.62	4.32	5.42	4.67
5	4.30	3.69	4.41	6.84	6.32	5.72	4.87	2.66	6.49	4.23	5.37	4.50
6	4.25	4.00	4.49	6.88	6.19	5.69	4.79	2.61	6.46	4.22	5.33	4.44
7	4.30	3.93	4.55	6.70	6.28	5.66	4.70	2.59	6.24	4.19	5.28	4.42
8	4.32	3.96	4.66	6.61	6.19	5.70	4.61	....	6.19	4.13	5.22	4.35
9	4.39	3.95	4.71	6.71	6.13	5.71	4.54	2.56	6.10	4.13	5.17	4.39
10	4.37	4.00	4.78	6.69	6.24	5.71	4.64	2.56	6.06	4.09	5.30	4.38
11	4.34	4.00	4.74	6.64	6.15	5.79	4.46	2.53	6.02	4.09	5.13	4.40
12	4.42	3.91	4.86	6.56	6.12	5.75	4.34	2.86	5.78	4.04	5.07	4.28
13	4.30	3.89	4.78	6.67	6.12	5.64	4.26	3.89	5.70	4.03	5.12	4.16
14	4.25	4.00	4.87	6.76	6.07	5.59	4.17	4.75	5.66	4.14	5.02	4.17
15	4.28	3.90	4.99	6.67	6.10	5.55	4.07	5.17	5.55	4.49	5.08	4.04
16	4.29	3.91	4.93	6.47	6.14	5.49	3.97	5.60	5.42	4.74	5.12	3.96
17	4.29	3.83	5.01	6.56	6.04	5.44	3.90	5.91	5.38	4.94	5.07	3.91
18	4.29	3.82	5.06	6.63	6.02	5.48	3.80	6.29	5.43	5.04	5.09	3.86
19	4.22	3.81	5.09	6.61	5.92	5.57	....	6.50	5.35	5.06	5.02	3.80
20	4.12	3.86	5.16	6.55	6.11	5.48	....	6.72	5.18	5.19	5.01	3.75
21	4.41	3.90	5.24	6.59	6.16	5.40	....	6.91	5.13	5.19	4.88	3.73
22	4.48	3.94	5.52	6.51	6.30	5.37	....	7.05	5.05	5.20	4.84	3.65
23	4.54	3.90	5.71	6.44	6.14	5.33	....	7.00	4.89	5.32	4.83	3.61
24	4.41	3.98	5.76	6.46	6.04	5.32	....	7.03	4.87	5.27	4.73	3.58
25	4.31	3.98	5.98	6.42	5.94	5.33	....	7.11	4.94	5.37	4.77	3.56
26	4.33	4.06	6.19	6.38	5.77	5.26	3.19	7.14	4.89	5.33	4.70	3.45
27	4.14	4.14	6.26	6.32	5.73	5.20	3.14	7.12	4.85	5.31	4.74	3.34
28	4.10	4.16	6.37	6.31	5.73	5.19	3.07	7.15	4.70	5.35	4.62	3.29
29	4.00	....	6.46	6.26	5.70	5.18	2.92	7.11	4.62	5.38	4.57	3.29
30	3.92	....	6.46	6.26	5.65	5.16	2.87	6.98	4.56	5.39	4.49	3.18
31	3.91	....	6.64	....	5.68	....	2.82	6.87	....	5.38	....	3.20

29. 1. 4. 1. 1. Perth Amboy Water Dept. Old Deep 8. Runyon. Drilled unused artesian well in Farrington sand member of Raritan formation, diameter 8 to 6 inches, depth 290 feet, screen 260-290. Land-surface datum is 18.5 feet above msl. Highest water level 12.2 above msl, Apr. 8, 1943; lowest 48.3 below msl, Sept. 15, 1947. Records available: 1929-55. Affected by pumping in nearby wells and by regional pumping from the Farrington sand member.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.9	18.7	20.9	6.8	11.8	23.9	25.1	27.1	32.3	30.4	28.3	....
2	17.0	18.7	20.9	7.1	18.4	24.8	25.4	27.6	32.3	30.4	28.3	....
3	17.4	....	21.0	7.1	20.2	25.8	25.5	27.9	32.2	30.4	28.2	25.9
4	17.6	....	21.0	8.4	20.8	25.8	25.3	28.0	32.2	30.3	28.2	28.6
5	17.6	18.8	21.2	9.2	21.5	25.5	25.1	28.0	26.5	30.3	28.2	28.0
6	9.3	....	21.2	8.6	21.5	25.1	25.5	25.4	28.6	30.3	28.2	27.6
7	3.5	18.3	21.0	7.6	21.7	25.5	25.8	27.9	....	30.1	28.2	27.5
8	1.4	18.4	20.9	15.6	21.7	25.5	26.2	31.7	....	29.8	28.1	27.1
9	.2	18.4	20.9	16.9	21.7	25.5	26.5	32.0	....	29.6	28.1	26.7
10	11.4	18.5	21.1	17.6	21.7	25.8	29.8	32.1	30.7	29.5	28.1	19.0
11	13.9	18.8	21.4	18.2	21.9	....	29.3	32.1	30.7	29.3	27.9	18.0
12	15.0	....	21.5	18.4	22.1	....	29.2	....	30.3	29.1	27.9	23.0
13	15.7	....	15.0	18.6	22.6	....	29.2	....	30.2	29.1	27.9	24.1
14	16.4	....	12.2	18.8	23.1	....	28.6	31.5	30.0	29.0	17.7	24.4
15	16.9	....	6.8	19.1	23.2	....	27.8	31.5	29.8	29.0	17.7	24.6

29.1.4.1.1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	17.3	....	5.4	19.8	23.2	....	27.8	31.7	29.9	29.0	17.3	24.6
17	17.6	....	6.7	19.9	24.2	....	27.7	31.9	30.0	29.0	17.0	....
18	17.9	....	7.9	20.0	24.4	24.5	27.3	31.9	32.9	....	25.6	....
19	18.1	....	8.1	19.9	24.6	24.5	27.2	31.9	32.8	....	25.8	....
20	18.1	....	8.1	20.3	24.9	24.5	27.9	32.0	31.3	28.0	26.3	....
21	18.1	....	8.1	21.2	25.3	24.4	....	32.0	31.0	28.0	26.7	....
22	18.1	....	7.5	21.3	25.3	24.4	....	32.0	31.0	28.0	27.0	....
23	18.0	....	7.1	21.2	25.1	24.6	28.1	32.0	30.9	28.0	27.3	....
24	18.1	....	7.1	21.3	25.2	24.7	29.5	....	30.4	27.8	27.7	25.2
25	18.1	....	7.0	21.2	25.6	24.8	28.9	....	29.7	27.4	....	25.2
26	18.2	21.3	7.0	20.8	25.9	24.8	28.1	....	29.4	27.3	....	25.2
27	18.4	21.3	7.0	21.0	26.1	24.4	28.0	32.6	30.1	27.0	18.4	25.0
28	....	21.0	6.9	21.1	26.2	24.2	28.1	32.6	30.1	27.5	23.9	25.1
29	18.7	....	6.9	21.2	26.2	24.4	28.0	32.2	30.1	27.8	25.0	....
30	e18.8	....	6.8	21.3	26.0	24.7	27.3	32.0	30.2	27.9	25.6	....
31	....	....	6.8	....	25.7	....	27.3	32.3	....	e27.7	....	25.4

e Estimated.

29.1.4.4.2. Perth Amboy Water Dept. Runyon 50. Drilled observation water-table well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 55 feet. Land-surface datum is 15 feet above msl. Highest water level 12.4 above msl, July 26, 1938; lowest 1.3 below msl, Sept. 26-27, 1929. Records available: 1923-55.

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	+10.1	+7.2	+8.9	+9.8	+7.5	+4.4	....	+0.2	+5.0	+3.2	+9.0	e+8.2
2	10.3	7.1	8.9	9.7	7.8	4.2	....	+1	5.0	3.2	9.0	e8.1
3	10.3	....	8.9	9.6	7.9	4.2	....	.0	4.9	3.2	9.2	e8.0
4	10.3	6.5	9.1	9.5	8.0	4.1	....	-1	4.5	3.1	9.2	e8.0
5	9.7	6.5	9.4	9.4	8.0	4.1	....	.2	4.2	3.1	9.3	e7.9
6	9.2	6.1	9.7	9.3	8.0	4.0	....	.4	4.1	3.1	9.1	e7.8
7	9.0	6.3	9.9	9.1	7.9	4.0	....	.5	4.4	3.0	9.0	e7.8
8	8.8	6.9	10.1	9.0	7.8	4.0	....	.1	4.4	3.0	8.9	e7.7
9	8.6	7.4	9.9	9.3	8.3	3.9	....	.2	4.3	3.1	8.8	e7.3
10	8.5	8.0	9.7	9.3	7.2	3.9	....	.2	4.3	3.1	8.8	e7.1
11	9.4	8.2	9.7	9.2	7.0	3.8	....	.1	4.3	3.1	8.8	e6.9
12	9.4	8.4	9.4	9.1	6.8	3.7	....	-1	4.2	3.0	8.9	e6.9
13	9.4	8.4	9.0	9.3	6.8	3.7	....	+1	4.1	3.0	8.7	e7.0
14	9.3	8.5	8.5	9.6	6.8	3.7	+1.7	5.5	4.1	3.0	8.6	e6.9
15	9.2	8.5	8.3	9.8	6.8	3.7	1.6	5.6	4.0	3.1	8.7	e6.9
16	9.1	8.5	8.0	9.7	6.7	3.6	1.6	5.5	4.0	3.9	8.7	e6.8
17	8.8	8.5	7.8	9.7	6.7	3.6	1.5	5.4	3.9	5.3	8.8	e6.7
18	8.9	8.5	7.9	9.7	6.3	3.5	1.4	5.4	3.7	7.4	8.8	e6.7
19	8.7	8.6	7.8	9.6	6.1	3.5	1.2	5.5	3.7	....	9.1	e6.9
20	8.6	8.5	7.7	9.5	5.9	....	1.1	5.7	3.6	....	9.2	e6.6
21	8.5	8.5	7.7	9.5	5.7	....	1.0	5.8	3.6	....	9.3	e6.3
22	8.4	8.4	7.7	9.4	5.5	....	.9	5.7	3.5	....	9.2	e6.1
23	8.2	8.4	8.8	9.3	5.3	....	.8	5.7	3.5	....	9.3	e6.0
24	8.1	8.5	9.3	9.3	5.2	....	.7	5.7	3.4	....	9.2	e5.9
25	8.0	8.7	9.3	9.2	5.0	....	.6	5.6	3.4	....	9.0	e5.8
26	7.9	8.8	9.4	9.1	4.9	....	.5	5.6	3.3	....	8.8	e5.7
27	7.7	8.8	9.4	9.1	4.8	....	.4	5.6	3.3	....	8.7	e5.6
28	7.6	8.8	9.3	9.1	4.7	....	.3	5.5	3.3	....	8.6	e5.5
29	7.5	....	9.2	9.1	4.6	....	.3	5.5	3.3	....	8.5	e5.3
30	7.3	....	9.1	8.5	4.5	....	....	5.4	3.3	....	8.3	e5.2
31	7.2	....	9.0	....	5.2	....	....	4.9	....	....	....	e5.0

e Estimated.

29.1.4.6.9. Clyde Bowne. Near Browntown. Drilled observation artesian well in Old Bridge sand member of Raritan formation, diameter 6 inches, depth 71 feet, gauze-covered perforated pipe 66-71. Land-surface datum is 31 feet above msl. Highest water level 28.14 above msl, Apr. 9-10, 1939; lowest 21.83 above msl, Nov. 18, 1932. Records available: 1932-55. Affected by pumping at Perth Amboy Waterworks.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.76	23.86	23.79	24.50	24.47	24.18	....	23.13	....	23.35	24.10	24.11
2	23.85	....	23.79	24.50	24.46	24.16	23.86	23.11	....	23.33	24.10	24.10
3	23.88	....	23.79	24.50	24.46	e24.15	23.85	23.09	23.89	23.31	24.10	24.10
4	23.90	....	23.79	24.50	24.46	24.14	23.83	23.07	23.87	23.30	24.11	24.10
5	23.91	23.83	23.78	24.50	24.46	24.13	23.81	23.04	23.86	23.28	24.12	24.10

29. 1. 4. 6. 9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	23.96	23.83	23.86	24.50	24.46	24.12	23.80	23.02	23.84	23.27	24.12	.....
7	23.96	23.83	23.91	24.50	24.45	24.11	23.78	23.00	23.82	23.25	24.12	.....
8	23.96	23.83	.....	24.50	24.45	24.10	23.75	22.98	23.78	23.25	24.12	.....
9	23.96	23.82	.....	24.49	24.45	24.09	23.74	22.96	23.74	23.24	24.12	.....
10	23.96	23.82	.....	24.49	24.44	24.08	23.71	22.94	23.72	23.23	24.12	.....
11	23.96	23.82	.....	24.49	24.44	24.08	23.69	22.93	23.70	23.22	24.12	.....
12	23.96	23.82	24.02	24.49	24.43	24.07	23.65	.....	23.68	23.22	24.11	.....
13	23.96	23.81	24.02	24.49	24.43	24.06	23.63	.....	23.65	23.21	24.11	.....
14	.....	23.81	24.02	24.49	24.42	24.06	23.60	23.49	23.62	23.21	24.11	.....
15	23.96	23.81	24.02	24.49	24.42	24.05	23.56	23.66	23.60	23.32	24.11	.....
16	23.96	23.81	24.02	24.48	24.41	24.04	23.55	23.76	23.58	23.63	24.12	.....
17	.....	23.81	24.02	24.48	24.40	24.03	23.53	23.81	23.56	23.90	24.12	24.01
18	.....	23.80	24.02	24.48	24.40	24.01	23.51	23.90	23.54	24.02	24.12	e24.00
19	.....	23.80	24.02	24.48	24.39	24.00	23.48	24.02	23.53	24.05	24.12	.....
20	.....	23.80	.....	24.48	24.38	24.00	23.45	24.04	23.52	24.05	24.12	.....
21	23.95	23.79	.....	24.48	24.37	23.99	23.42	24.04	23.50	24.06	24.12	.....
22	23.94	23.79	.....	24.48	24.35	.....	23.39	24.04	23.48	24.06	24.12	.....
23	23.94	23.79	.....	24.48	24.33	.....	23.37	24.05	23.46	24.06	24.12	.....
24	23.94	23.79	.....	24.48	24.32	.....	23.34	24.04	23.45	24.07	24.12	23.94
25	23.94	23.79	.....	24.48	24.31	23.94	23.31	24.03	23.43	24.07	24.12	23.94
26	23.93	23.79	24.44	24.48	24.29	23.93	e23.28	24.03	23.41	24.07	24.10	23.93
27	.....	23.79	24.50	24.48	24.27	23.92	e23.25	24.03	23.39	24.07	24.10	23.91
28	.....	23.79	24.50	24.48	24.25	23.91	e23.22	24.02	23.37	24.07	e24.10	.....
29	.....	.....	24.50	24.48	24.23	.....	e23.20	24.00	23.37	24.07	.....	.....
30	.....	.....	24.50	24.47	24.21	.....	23.17	23.98	23.36	24.08	.....	.....
31	.....	.....	24.50	.....	24.19	.....	23.14	23.97	.....	24.09	.....	23.85

e Estimated.

29. 11. 1. 2. 3. Joseph Morrell. Near Moeris Corner. Dug observation water-table well in Englishtown sand, diameter 17 inches, depth 9 feet, cased with precast concrete rings. Land-surface datum is 76 feet above msl. Highest water level 75.08 above msl, Mar. 28, 1932; lowest 67.25 above msl, Oct. 13, 1953. Records available: 1923-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	74.21	73.48	74.23	73.76	e73.73	e72.65	71.31	68.93	e72.20	71.64	e73.90	73.50
2	74.30	73.48	74.10	73.73	e73.70	e72.68	71.19	68.85	e72.22	71.67	e73.85	73.51
3	74.20	73.44	74.04	73.69	e73.66	e72.70	71.10	68.76	e72.19	e71.68	e73.80	73.51
4	74.13	73.44	74.41	73.65	e73.62	e72.68	70.99	68.68	e71.96	e71.70	e73.75	73.53
5	74.09	73.48	74.30	73.63	e73.58	e72.65	70.88	68.62	71.95	e71.75	e73.77	73.52
6	74.23	74.43	74.56	73.66	e73.50	e72.60	70.77	68.57	71.93	e71.85	e73.79	73.49
7	74.13	74.25	74.31	73.62	e73.45	e72.58	70.72	68.54	71.76	e72.01	e73.81	73.48
8	74.06	74.14	74.21	73.56	e73.41	e72.50	70.64	68.69	71.69	72.14	e73.83	73.47
9	74.03	74.11	74.15	73.54	e73.38	72.78	70.57	68.76	71.65	72.46	e73.85	73.48
10	73.97	74.13	74.13	73.53	e73.35	72.91	70.52	68.78	71.60	72.48	e73.87	73.44
11	73.92	74.32	74.05	73.52	e73.32	72.96	70.43	68.81	71.65	72.42	e73.90	73.43
12	73.91	74.26	74.01	73.92	e73.30	73.01	70.33	74.00	71.51	72.39	e73.91	73.41
13	73.88	74.22	73.94	73.88	e73.26	72.88	70.25	74.35	71.46	72.39	e73.88	73.38
14	73.83	74.17	73.89	73.83	e73.22	72.77	70.16	74.03	71.43	74.02	e73.85	73.39
15	73.83	74.17	73.95	73.80	e73.18	72.54	70.07	73.78	71.39	e74.68	e73.83	73.43
16	73.79	74.15	73.96	73.70	e73.10	72.33	70.01	73.68	71.30	e74.19	e73.81	73.37
17	73.76	74.28	73.89	73.67	e73.05	72.14	69.92	73.44	71.25	e74.00	e73.83	73.35
18	73.74	74.21	73.89	73.63	e73.02	72.02	69.82	73.63	71.25	73.93	e73.85	73.33
19	73.73	74.17	73.99	73.65	e72.99	72.04	69.73	73.76	71.30	73.82	e73.87	73.32
20	73.68	74.12	73.90	73.62	e72.97	71.90	69.67	73.45	71.25	73.73	e73.89	73.29
21	73.67	74.09	74.31	73.68	e72.94	71.80	69.58	73.17	71.10	73.67	e73.77	73.28
22	73.69	74.09	74.61	73.68	e72.91	71.68	69.49	73.08	71.08	73.58	e73.77	73.27
23	73.66	74.35	74.37	73.63	e72.88	71.55	69.42	72.99	71.06	73.57	73.85	73.25
24	73.65	74.27	74.16	73.61	e72.85	71.73	69.35	72.89	71.22	73.55	73.84	73.29
25	73.64	74.19	74.04	73.65	e72.83	71.88	69.28	72.75	71.25	73.51	73.77	73.29
26	73.63	74.15	74.33	73.72	e72.81	71.80	69.23	72.62	71.26	73.47	73.72	73.27
27	73.61	74.14	74.09	73.66	e72.78	71.69	69.15	72.55	71.31	73.42	73.68	73.24
28	73.59	74.10	73.96	73.62	e72.75	71.58	69.08	72.38	71.45	73.41	73.68	73.21
29	73.55	.....	73.88	73.79	e72.72	71.47	69.04	72.42	71.52	73.39	73.60	73.23
30	73.51	.....	73.82	73.75	e72.69	71.38	69.01	72.52	71.55	e74.28	73.53	73.25
31	73.47	.....	73.79	.....	e72.66	.....	68.96	72.19	.....	e74.11	.....	73.23

e Estimated.

Monmouth County

29. 11. 1. 2. 9. Walter Novak. Formerly Rulif Hulsart. Dug observation water-table well in Englishtown sand, diameter $4\frac{1}{2}$ feet, depth 21 feet, cased with concrete well blocks. Land-surface datum is 113 feet above msl. Highest water level 100.40 above msl, Apr. 19, 1939; lowest 95.47 above msl, Feb. 18, 1940. Records available: 1936-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	96.97	97.18	97.28	97.99	98.22	97.70	97.29	96.58	97.53	96.88	97.02	96.78
2	96.99	97.15	97.26	98.03	98.20	97.70	97.27	96.56	97.50	96.85	97.02	96.79
3	97.01	97.12	97.29	98.04	98.20	97.70	97.25	96.53	97.49	96.83	97.02	96.78
4	97.03	97.11	97.30	98.07	98.22	97.69	97.23	96.51	97.48	96.82	97.01	96.78
5	97.07	97.10	97.31	98.11	98.20	97.67	97.20	96.50	97.45	96.80	97.00	96.76
6	97.09	97.17	97.33	98.13	98.15	97.66	97.19	96.48	97.43	96.80	96.99	96.75
7	97.10	97.11	97.33	98.14	98.14	97.63	97.17	96.50	97.40	96.79	96.98	96.74
8	97.12	97.12	97.35	98.16	98.10	97.64	97.14	96.42	97.38	96.77	96.97	96.73
9	97.13	97.13	97.39	98.18	98.07	97.61	97.12	96.40	97.36	96.76	96.94	96.73
10	97.15	97.17	97.41	98.20	98.08	97.60	97.10	96.39	97.33	96.75	96.95	96.72
11	97.17	97.16	97.41	e98.21	98.03	97.61	97.06	96.38	97.32	96.74	96.93	96.70
12	97.19	97.14	97.42	e98.21	98.02	97.60	97.04	96.49	97.29	96.73	96.92	96.70
13	97.20	97.14	97.41	e98.22	98.01	97.58	97.02	96.90	97.27	96.72	96.91	96.69
14	97.20	97.18	e97.40	e98.23	97.99	97.57	97.00	97.48	97.24	96.76	96.91	96.68
15	97.22	97.18	97.44	e98.24	97.98	97.55	96.98	97.70	97.22	96.92	96.91	96.68
16	97.22	97.19	97.43	e98.25	97.98	97.53	96.96	97.72	97.19	97.00	96.92	96.67
17	97.23	97.18	97.43	98.26	97.96	97.51	96.93	97.75	97.17	97.07	96.90	96.64
18	97.23	97.18	97.45	98.28	97.94	97.50	96.90	97.78	97.14	97.10	96.88	96.63
19	97.24	97.19	97.45	98.30	97.92	97.50	96.88	97.78	97.13	97.10	96.89	96.62
20	97.24	97.18	97.46	98.30	97.90	97.48	96.85	97.76	97.09	97.12	96.88	96.61
21	97.26	97.19	97.50	98.31	97.87	97.46	96.83	97.75	97.06	97.11	96.88	96.60
22	97.26	97.20	97.53	98.32	97.86	97.43	96.81	97.75	97.03	97.10	96.86	96.60
23	97.26	97.18	97.55	98.30	97.84	97.41	96.79	97.72	97.02	97.11	96.87	96.59
24	97.26	97.20	97.61	98.30	97.83	97.40	96.76	97.70	97.00	97.10	96.84	96.58
25	97.26	97.20	97.64	98.30	97.81	97.40	96.74	97.69	96.98	97.08	96.85	96.57
26	97.27	97.21	97.73	98.29	97.79	97.38	96.70	97.68	96.96	97.06	96.83	96.54
27	97.25	97.22	97.76	98.29	97.77	97.35	96.68	97.64	96.95	97.03	96.83	96.53
28	97.25	97.22	e97.80	98.28	97.77	97.33	96.66	97.62	96.91	97.02	96.82	96.52
29	97.24		e97.81	98.26	97.75	97.32	96.63	97.60	96.91	97.01	96.81	96.52
30	97.22		e97.83	98.24	97.73	97.30	96.60	97.59	96.90	97.01	96.80	96.51
31	97.21		e97.85		97.71		96.59	97.55		97.01		96.50

e Estimated.

29. 24. 7. 1. 6. Borough of Avon by the Sea well 1. Drilled public-supply artesian well in Mount Laurel and Wenonah sands, diameter 18 inches, depth 506 feet. Land-surface datum is 28.0 feet above msl. Highest water level 4.46 below msl, Apr. 12, 1937; lowest 132.0 (pumping) below msl, Aug. 4, 1925. Records available: 1924-55. Jan. 18, 33.42; Feb. 17, 31.11; Mar. 28, 102.72; Aug. 23, 54.21; Nov. 22, 35.73.

Morris County

25. 14. 3. 5. 5. Jersey Central Power & Light Co. Whippany well. About 3 miles east of Whippany at power plant. Drilled observation artesian well in Wisconsin glacial outwash, diameter 6 inches, depth 170 feet. Highest water level 177.94 above msl, June 3, 1952; lowest 174.86 above msl, Oct. 14, 1955. Records available: 1951-55.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	176.36	176.06	.....	176.59	176.55	176.35	.....	.....	.....	.....	.....	175.31
2	176.37	176.01	176.34	176.62	176.53	176.34	.....	175.89	.....	.....	.....	175.30
3	176.33	176.00	176.35	176.59	176.60	176.33	.....	175.73	.....	.....	.....	175.31
4	175.98	176.48	176.50	176.58	176.32	.....	175.63	.....	.....	.....	175.23
5	176.02	176.50	176.53	176.51	176.29	.....	175.45	.....	.....	.....	.....
6	176.13	176.53	.....	176.48	176.29	.....	175.60	.....	.....	.....	175.50
7	176.13	176.43	.....	176.48	176.30	.....	175.73	.....	.....	.....	175.49
8	176.16	176.44	.....	176.48	176.30	.....	175.72	.....	.....	.....	175.47
9	176.18	176.48	.....	176.48	176.30	.....	175.70	.....	.....	.....	175.40
10	176.20	176.43	.....	176.56	176.29	.....	175.80	.....	.....	.....	175.51
11	176.23	176.37	176.70	176.57	176.29	.....	175.80	.....	.....	175.42	175.44
12	176.14	176.39	176.65	176.56	176.31	.....	175.84	.....	175.10	175.40	175.42
13	176.14	176.36	176.70	176.53	176.29	.....	.....	.....	174.87	175.50	175.42
14	176.20	176.35	176.77	176.56	.....	.....	.....	175.92	174.86	175.47	.....
15	176.78	176.55	176.33	.....	.....	175.91	175.14	175.48	.....

25. 14. 3. 5. 5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	176.37	.....	176.66	176.58	176.32	.....	.....	175.89	175.39	175.57	.....
17	176.28	176.34	176.34	176.68	176.47	176.31	.....	.....	175.89	175.42	175.48	.....
18	176.23	176.34	176.39	176.51	176.48	176.31	.....	.....	175.89	175.40	175.47	.....
19	176.30	176.38	.....	176.51	176.43	176.32	176.00	.....	.....	175.33	.....	.....
20	176.24	176.38	.....	176.46	176.43	176.34	175.95	.....	.....	.....	.....	.....
21	176.27	176.48	176.43	176.50	176.41	176.30	176.00	.....	.....	.....	.....	.....
22	176.32	176.49	176.50	176.52	176.42	176.39	176.00	.....	.....	.....	.....	.....
23	176.30	176.43	176.44	176.50	176.43	176.29	175.98	.....	.....	.....	.....	175.45
24	176.30	176.45	176.53	176.49	176.45	176.29	175.98	.....	.....	.....	.....	175.61
25	176.17	176.41	176.50	176.50	176.43	176.29	175.97	.....	.....	.....	.....	175.72
26	176.12	176.41	176.60	176.50	176.40	176.28	175.97	.....	.....	.....	.....	175.72
27	176.11	176.50	176.54	176.58	176.39	176.23	.....	.....	.....	.....	.....	175.76
28	176.16	176.47	176.50	176.54	176.40	176.26	.....	.....	.....	.....	175.21	175.77
29	176.16	.....	176.52	176.48	176.39	176.26	.....	.....	.....	.....	175.19	175.60
30	176.14	.....	176.55	176.51	176.38	176.27	.....	.....	.....	.....	175.23	175.55
31	176.06	.....	176.60	.....	176.37	.....	.....	.....	.....	.....	.....	175.65

Salem County

Penns Grove area

(The following wells are owned by the State of New Jersey.)

30. 22. 6. 6. 7. Penns Grove well 9. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 11 feet. Land-surface datum is 26.5 feet above msl. Highest water level 24.18 above msl, Feb. 5, 1952; lowest 19.80 above msl, Sept. 25, 1943. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+22.79	Apr. 15	+23.04	July 25	+21.69	Nov. 8	+21.90
Feb. 8	22.57	May 12	22.07	Aug. 30	22.56	Dec. 13	21.70
Mar. 14	22.91	June 16	22.89	Sept. 27	21.94		

30. 22. 6. 9. 3. Penns Grove well 10. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 25.5 feet above msl. Highest water level 24.30 above msl, Dec. 22, 1951; lowest 18.84 above msl, Oct. 24, 1943. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+21.67	Apr. 15	+22.08	July 25	(j)	Sept. 27	(j)
Feb. 8	(j)	May 12	22.14	Aug. 30	(j)	Nov. 8	(j)
Mar. 14	(j)	June 16	22.84				

j Water level below 21.47 above msl.

30. 22. 8. 3. 5. Penns Grove well 12. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 20 feet. Land-surface datum is 3.5 feet above msl. Highest water level 4.59 above msl, Feb. 5, 1952; lowest 0.70 above msl, Dec. 14, 1955. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+3.17	Apr. 15	+3.33	July 25	+1.68	Nov. 8	+0.84
Feb. 8	2.99	May 12	2.75	Aug. 30	3.05	Dec. 14	.70
Mar. 14	3.34	June 16	3.12	Sept. 27	1.10		

30. 22. 8. 9. 5. Penns Grove well 32. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 4 feet above msl. Highest water level 2.84 above msl, Feb. 5, 1952; lowest 1.06 below msl, Nov. 22, 1941. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+0.13	Apr. 15	+0.45	July 25	-0.38	Nov. 8	-0.02
Feb. 8	.08	May 12	.03	Aug. 30	+ .36	Dec. 14	-.47
Mar. 14	.47	June 16	.31	Sept. 27	-.15		

30. 22. 9. 2. 1. Penns Grove well 13. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 16 feet. Land-surface datum is 22 feet above msl. Highest water level 21.47 above msl, Mar. 26, 1953; lowest 15.01 above msl, Oct. 24, 1943. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+18.96	Apr. 15	+19.92	July 25	+17.20	Nov. 8	+17.81
Feb. 8	18.77	May 12	18.35	Aug. 30	18.79	Dec. 13	+17.34
Mar. 14	19.84	June 16	19.26	Sept. 27	17.80		

30.22.9.4.3. Penns Grove well E-14. Logwood Inn. Driven unused water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 20 feet. Land-surface datum is 21 feet above msl. Highest water level 16.69 above msl, May 24, 1940; lowest 8.90 above msl, Nov. 9, 1954. Records available: 1940-55. Affected by pumping of well 0.35 mile south.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+10.71	Apr. 15	+13.21	July 25	+10.79	Sept. 27	+10.92
Feb. 8	11.03	May 12	12.02	Aug. 30	+11.77	Dec. 14	+9.15
Mar. 14	12.86	June 16	11.60				

30.22.9.4.9. Penns Grove Water Co. well 22. Drilled observation water-table well in Cape May formation, diameter 4 inches, depth 20 feet. Land-surface datum is 20 feet above msl. Highest water level 14.42 above msl, Aug. 18, 1939; lowest dry many times, 1942-45, 1949, 1951-55. Records available: 1939-49, 1951-55. Affected by pumping from nearby well.

Jan. 7	(j)	Apr. 15	(j)	July 25	(j)	Nov. 8	(j)
Feb. 8	(j)	May 12	(j)	Aug. 30	(j)	Dec. 14	(j)
Mar. 14	(j)	June 16	(j)	Sept. 27	(j)		

j Water level below +0.40.

30.22.9.5.4. Penns Grove well E-15. George Schmid. Driven unused water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 18 feet. Land-surface datum is 20 feet above msl. Highest water level 15.12 above msl, Apr. 23, 1940; lowest 4.82 above msl, Dec. 22, 1949. Records available: 1940-55. Affected by pumping from well about 0.25 mile southwest. Jan. 7, +6.04; Feb. 8, +6.66; Mar. 14, +7.48; Apr. 15, +8.23; May 12, +7.59; June 16, +7.03.

30.22.9.5.8. Penns Grove well 15. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 27 feet. Land-surface datum is 23.5 feet above msl. Highest water level 12.00 above msl, June 10, 1947; lowest 1.33 above msl, Feb. 7, 1950. Records available: 1941-55. Affected by pumping from large-diameter wells, one about 0.5 mile west and another about 0.87 mile southwest.

Jan. 7	+2.57	Apr. 15	+4.12	July 25	+2.92	Nov. 8	+2.38
Feb. 8	3.27	May 12	3.83	Aug. 30	4.28	Dec. 13	+1.88
Mar. 14	3.33	June 16	3.30	Sept. 27	3.12		

30.22.9.6.2. Penns Grove well 14. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 17 feet. Land-surface datum is 25.5 feet above msl. Highest water level 23.24 above msl, Feb. 5, 1952; lowest 16.55 above msl, Oct. 24, 1943. Records available: 1940-55. Affected by pumping of two wells 1.25 miles distant.

Jan. 7	+20.55	Apr. 15	+21.02	July 25	+18.60	Nov. 8	+19.30
Feb. 8	20.29	May 12	19.76	Aug. 30	20.48	Dec. 13	+18.08
Mar. 14	21.27	June 16	20.64	Sept. 27	19.37		

30.22.9.7.3. Penns Grove well 24. Drilled observation water-table well in sands of Magothy and Raritan formations, diameter 6 inches, depth 51 feet, $5\frac{1}{2}$ -inch screen, 25/1,000 slot at 46-51. Land-surface datum is 18 feet above msl. Highest water level 7.83 above msl, June 14, 1947; lowest 6.48 below msl, Feb. 18, 1950. Records available: 1941-55.

Water level at end of day from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.38	4.88	4.94	4.08	....	4.13	4.53	4.85	4.19	4.39	4.77	5.34
2	5.36	4.88	4.97	4.05	....	4.13	4.55	4.85	4.18	4.40	4.78	5.35
3	5.35	4.88	4.98	4.03	....	4.12	4.57	4.86	4.17	4.41	4.80	5.37
4	5.33	4.88	5.00	4.03	....	4.12	4.57	4.87	4.17	4.42	4.81	5.38
5	5.30	4.86	5.00	4.00	....	4.13	4.58	4.88	4.16	4.43	4.83	5.40
6	5.28	4.80	....	3.95	....	4.15	4.59	4.90	4.16	4.45	4.85	5.42
7	5.27	4.83	....	3.95	....	4.16	4.60	4.90	4.16	4.46	4.86	5.43
8	5.25	4.83	....	3.95	3.82	4.17	4.62	4.91	4.18	4.48	4.93	5.45
9	5.22	4.82	....	3.93	3.83	4.19	4.62	4.92	4.19	4.49	....	5.49
10	5.21	4.79	4.86	3.89	3.84	4.21	....	4.92	4.18	4.50	....	5.49
11	5.20	4.78	4.83	3.88	3.85	4.21	....	4.92	4.17	4.51	....	5.51
12	5.16	4.81	4.78	3.88	....	4.22	....	....	4.21	4.51	....	5.52
13	5.15	4.83	....	3.88	....	4.24	....	....	4.22	4.52	4.98	5.55
14	5.13	4.80	4.70	3.84	....	4.26	....	4.83	4.21	4.53	5.00	5.56
15	5.11	4.83	4.63	3.83	3.88	4.28	....	4.76	4.20	4.54	5.02	5.57
16	5.10	4.81	4.60	3.85	3.85	4.30	....	4.70	4.22	4.54	5.04	5.59
17	5.09	4.83	4.57	3.82	3.89	4.32	4.75	4.65	4.23	4.55	5.06	5.60
18	5.07	4.84	4.53	3.79	3.89	4.34	4.76	4.59	4.22	4.56	5.08	5.62
19	5.05	4.86	4.50	3.78	3.91	4.35	4.77	4.57	....	4.59	5.09	5.63
20	5.04	4.87	4.46	3.77	3.94	4.37	4.78	4.53	....	4.60	5.11	5.64

30.22.9.7.3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.02	4.88	4.40	3.74	3.97	4.39	4.78	4.49	4.26	4.62	5.13	5.65
22	5.00	4.88	4.38	3.73	3.98	4.41	4.78	4.43	4.27	4.64	5.15	5.65
23	4.99	4.91	4.35	3.73	3.98	4.43	4.79	4.40	4.27	4.64	5.16	5.67
24	4.98	4.92	4.32	3.72	3.99	4.45	4.81	4.37	....	4.65	5.19	5.67
25	4.98	4.93	4.28	3.72	4.01	4.47	4.81	4.34	4.31	4.66	5.20	5.69
26	4.97	4.93	4.23	3.73	4.05	4.48	4.82	4.31	4.32	4.67	5.22	5.70
27	4.97	4.92	4.21	3.73	4.07	4.50	4.82	4.28	4.31	4.69	5.25	5.71
28	4.95	4.93	4.19	3.72	4.07	4.50	4.83	4.26	4.34	4.70	5.27	5.72
29	4.94		4.16	3.73	4.09	4.51	4.84	4.24	4.35	4.71	5.30	5.72
30	4.91		4.14	3.73	4.11	4.52	4.85	4.20	4.36	4.74	5.32	5.73
31	4.89		4.12		4.12		4.85	4.20		4.75		5.74

30.22.9.8.4. Penns Grove well 36. Driven observation water-table well in Magothy and Raritan formations, diameter $1\frac{1}{4}$ inches, depth 43 feet. Land-surface datum is 26.5 feet above msl. Highest water level 5.58 above msl, June 10, 1947; lowest 9.39 below msl, Dec. 4, 1942. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	7.67	Apr. 15	6.72	July 25	6.79	Nov. 8	6.67
Feb. 8	7.44	May 12	6.06	Aug. 30	6.42	Dec. 13	6.99
Mar. 14	7.33	June 16	6.44	Sept. 27	6.25		

30.22.9.8.6. Penns Grove well 35. Driven observation water-table well in Magothy and Raritan formations, diameter $1\frac{1}{4}$ inches, depth 31 feet. Land-surface datum is 20.5 feet above msl. Highest water level 18.66 above msl, Nov. 29, 1940; lowest 0.35 above msl, Oct. 9, 1942. Records available: 1940-55.

Jan. 7	+2.03	Apr. 15	+3.39	July 25	+2.22	Nov. 8	+2.26
Feb. 8	2.26	May 12	3.01	Aug. 30	3.43	Dec. 13	+1.75
Mar. 14	2.88	June 16	2.78	Sept. 27	2.79		

30.23.1.8.5. Penns Grove well 6. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 32 feet. Land-surface datum is 6 feet above msl. Highest water level 2.93 above msl, Dec. 22, 1951; lowest 0.19 above msl, Sept. 27, 1941. Records available: 1940-55. Jan. 7, +1.89; Feb. 8, +2.08; Mar. 14, +2.17; Apr. 15, +2.00; May 12, +1.78; June 16, +4.19; July 25, +1.46.

30.23.4.1.9. Penns Grove well 7. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 14 feet above msl. Highest water level 11.09 above msl, Aug. 14, 1942; lowest 6.84 above msl, Nov. 22, 1941. Records available: 1940-55.

Jan. 7	+9.90	Apr. 15	+9.88	July 25	+8.92	Nov. 8	+9.12
Feb. 8	9.82	May 12	9.49	Aug. 30	9.83	Dec. 13	+8.97
Mar. 14	9.97	June 16	9.83	Sept. 27	9.08		

30.23.4.7.8. Penns Grove well 11. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 20 feet. Land-surface datum is 29.5 feet above msl. Highest water level 25.10 above msl, Feb. 13, 1951; lowest 18.44 above msl, Feb. 7, 1950. Records available: 1940-55.

Jan. 7	+19.81	Apr. 15	+20.23	July 25	+20.52	Nov. 8	+20.80
Feb. 8	19.82	May 12	20.37	Aug. 30	20.72	Dec. 14	+20.68
Mar. 14	19.90	June 16	20.41	Sept. 27	20.78		

30.23.7.1.4. Penns Grove Water Supply Co. R-7. Drilled unused water-table well in Magothy and Raritan formations, diameter 2 inches, depth 50 feet. Highest water level 24.08 above msl, Feb. 5, 1952; lowest 18.82 above msl, Oct. 20, 1943. Records available: 1940-55. Jan. 7, +22.28; Feb. 8, +21.83; Mar. 14, +23.26; Apr. 15, +23.00; May 12, +22.59; June 16, +22.37.

30.32.1.9.5: Penns Grove well 71. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 16 feet. Land-surface datum is 12 feet above msl. Highest water level 8.94 above msl, Feb. 5, 1952; lowest 1.33 above msl, Dec. 6, 1941. Records available: 1940-55.

Jan. 7	+4.53	Apr. 15	+6.26	July 25	+4.28	Nov. 8	+3.46
Feb. 8	4.54	May 12	5.70	Aug. 30	4.61	Dec. 14	+3.33
Mar. 14	5.93	June 16	5.32	Sept. 27	3.87		

30.32.2.2.3. Penns Grove well 31. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 22 feet. Land-surface datum is 5.0 feet above msl. Highest water level 3.09 above msl, Feb. 8, 1949; lowest 4.23 below msl, Nov. 22, 1941, Oct. 24, 1943. Records available: 1940-55.

30.32.2.2.3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	-0.28	Apr. 15	+44	July 25	-2.37	Nov. 8	-2.14
Feb. 8	-.38	May 12	-.68	Aug. 30	.55	Dec. 14	-1.97
Mar. 14	+63	June 16	-.90	Sept. 27	2.09		

30.32.2.3.3: Penns Grove well 41. Drilled observation water-table well in Cape May formation, diameter 6 inches, depth 25 feet, 5½-inch screen, 25/1,000 slot at 20-25. Land-surface datum is 10 feet above msl. Highest water level 11.89 above msl, Feb. 4, 1952; lowest 4.66 above msl, Oct. 15, 1943. Records available: 1941-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.29	8.39	9.96	10.23	9.65	8.09	8.60	6.80	8.88	8.17	8.21	7.97
2	9.40	8.35	9.86	10.20	9.58	8.02	8.50	6.73	8.80	8.12	8.08	7.97
3	9.39	8.30	9.81	10.12	9.53	7.96	8.40	6.69	8.74	8.05	8.14	7.97
4	9.38	8.23	10.19	10.01	9.50	7.93	8.30	6.64	8.68	8.01	8.11	7.97
5	9.38	8.22	10.39	9.99	9.41	7.87	8.22	6.60	8.62	7.98	8.07	7.92
6	9.37	8.68	10.70	10.10	9.30	7.80	8.16	6.61	8.57	8.05	8.01	7.89
7	9.30	9.08	10.71	10.02	9.24	7.77	8.08	6.61	8.47	8.08	7.99	7.88
8	9.27	9.20	10.67	9.90	9.17	8.24	8.00	6.59	8.37	8.22	8.00	7.84
9	9.27	9.21	10.65	9.82	9.06	8.79	7.92	6.54	8.30	8.25	7.99	7.86
10	9.21	9.27	10.58	9.79	9.03	8.83	7.87	6.51	8.25	8.23	8.09	7.82
11	9.18	9.50	10.50	9.73	9.00	9.14	7.79	6.78	8.21	8.19	8.24	7.80
12	9.15	9.47	10.45	10.10	8.94	9.21	7.70	7.50	8.11	8.13	8.24	7.78
13	9.14	9.40	10.31	10.21	8.90	9.20	7.64	....	8.05	8.09	8.23	7.74
14	9.09	9.40	10.23	10.23	8.88	9.10	7.60	....	8.01	8.24	8.23	7.72
15	9.10	9.42	10.40	10.25	8.80	9.01	7.54	....	7.97	8.58	8.20	7.72
16	9.02	9.49	10.41	10.13	8.78	8.83	7.48	....	7.88	8.62	8.23	7.68
17	8.96	9.51	10.28	10.10	8.70	8.71	7.40	....	7.83	8.63	8.14	7.65
18	8.90	9.50	10.38	10.02	8.64	8.65	7.33	....	7.80	8.59	8.10	7.63
19	8.88	9.50	10.31	10.00	8.58	8.78	7.27	....	7.80	8.50	8.18	7.60
20	8.78	9.49	10.27	9.90	8.50	8.79	7.21	....	7.96	8.47	8.22	7.58
21	8.77	9.49	10.50	9.97	8.44	8.70	7.18	....	7.91	8.41	8.27	7.56
22	8.79	9.53	10.91	10.01	8.40	8.60	7.11	....	7.88	8.35	8.26	7.54
23	8.72	9.78	10.82	9.90	8.38	8.50	7.05	....	7.82	8.31	8.28	7.50
24	8.71	9.80	10.73	9.85	8.33	8.63	7.15	....	8.20	8.33	8.20	7.51
25	8.69	9.81	10.67	9.88	8.27	8.79	7.16	....	8.22	8.30	8.20	7.49
26	8.67	9.80	10.75	9.88	8.19	9.03	7.10	....	8.18	8.25	8.18	7.47
27	8.61	9.87	10.60	9.81	8.13	8.99	7.05	....	8.22	8.18	8.16	7.42
28	8.57	9.86	10.49	9.76	8.12	8.89	6.98	....	8.28	8.16	8.12	7.40
29	8.50		10.40	9.78	8.09	8.77	6.92	....	8.23	8.13	8.05	7.40
30	8.42		10.32	9.72	8.12	8.68	6.88	8.88	8.20	8.28	7.99	7.39
31	8.40		10.28		8.12		6.83	8.95		8.27		7.36

30.32.2.3.9: Penns Grove well 51. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 26 feet. Land-surface datum is 13.7 feet above msl. Highest water level 11.24 above msl, Feb. 5, 1952; lowest 3.94 above msl, Oct. 24, 1943. Records available: 1940-55.

Jan. 7	+9.57	Apr. 15	+10.08	July 25	+6.46	Nov. 8	+8.01
Feb. 8	9.31	May 12	8.41	Aug. 30	8.37	Dec. 13	+7.98
Mar. 14	9.82	June 16	8.53	Sept. 27	7.72		

30.32.2.5.8: Penns Grove well 62. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 30 feet. Land-surface datum is 10 feet above msl. Highest water level 3.56 above msl, Feb. 8, 1949; lowest 10.55 below msl, Feb. 13, 1942. Records available: 1940-55. Affected by pumping from well 0.25 mile northwest. Apr. 15, +0.76; May 12, -0.78; June 16, -2.13; July 25, -2.69; Aug. 30, -2.24; Sept. 27, -2.29; Nov. 8, -1.66.

30.32.2.6.4. Penns Grove well E-16. Seven Bros. Dug unused water-table well in Cape May formation, diameter 2 feet, depth 6 feet, curbed with brick. Land-surface datum is 15 feet above msl. Highest water level 14.85 above msl, Mar. 14, 1943; lowest 10.21 above msl, Oct. 24, 1943. Records available: 1940-55.

Jan. 7	+13.67	Apr. 15	+14.47	July 25	+11.60	Nov. 8	+11.83
Feb. 8	13.57	May 12	12.80	Aug. 30	13.20	Dec. 14	+12.18
Mar. 14	14.45	June 16	12.54	Sept. 27	12.17		

30.32.2.6.5 Penns Grove well 54. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 12 feet. Land-surface datum is 12.5 feet above msl. Highest water level flowing at 13.69 above msl, Mar. 13, 1941; lowest 5.63 above msl, Oct. 24, 1943. Records available: 1940-55.

30.32.2.6.5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+9.74	Apr. 15	+10.53	July 25	+8.25	Nov. 8	+8.56
Feb. 8	9.14	May 12	9.56	Aug. 30	9.57	Dec. 14	+8.24
Mar. 14	10.65	June 16	9.78	Sept. 27	8.62		

30.32.2.9.1. Penns Grove well 63. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 17 feet. Land-surface datum is 18 feet above msl. Highest water level 15.76 above msl, Feb. 5, 1952; lowest 8.09 above msl, Oct. 24, 1943. Records available: 1941-55.

Jan. 7	+12.37	Apr. 15	+14.19	July 25	+10.53	Nov. 8	+11.02
Feb. 8	12.26	May 12	12.71	Aug. 30	12.04	Dec. 14	+10.91
Mar. 14	13.96	June 16	12.56	Sept. 27	11.05		

30.32.2.9.5. Penns Grove well 64. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 17 feet. Land-surface datum is 5 feet above msl. Highest water level 2.89 above msl, Dec. 22, 1951; lowest 1.42 below msl, Sept. 25, 1943. Records available: 1940-55.

Jan. 7	+1.87	Apr. 15	+1.72	July 25	+0.97	Nov. 8	+1.63
Feb. 8	1.23	May 12	1.57	Aug. 30	1.50	Dec. 14	1.67
Mar. 14	1.77	June 16	1.46	Sept. 27	1.46		

30.32.3.5.5. Penns Grove well 55. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 8.0 feet above msl. Highest water level 7.28 above msl, Feb. 8, 1949, Feb. 5, 1952; lowest 1.93 above msl, Oct. 20, 24, 1943. Records available: 1940-55.

Jan. 7	+6.06	Apr. 15	+6.39	July 25	+3.57	Sept. 27	+4.93
Feb. 8	5.76	May 12	5.05	Aug. 30	+5.34	Nov. 8	+4.83
Mar. 14	6.18	June 16	5.72				

30.32.3.6.5. Penns Grove Water Supply Co. R-8. Drilled unused water-table well in Merchantville(?) clay, diameter 5 inches, depth 55 feet. Land-surface datum is 8.5 feet above msl. Highest water level 8.97 above msl, Mar. 26, 1953; lowest 2.09 above msl, Oct. 10, 1943. Records available: 1940-54. No measurement made in 1955.

30.32.4.6.4. Penns Grove well 73. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 3.5 feet above msl. Highest water level 2.82 above msl, Dec. 22, 1951, Feb. 5, 1952; lowest 2.01 below msl, Sept. 25, 1943. Records available: 1940-55.

Jan. 7	+1.68	Apr. 15	+2.18	July 25	-0.08	Sept. 27	+0.86
Feb. 8	1.95	May 12	1.39	Aug. 30	+1.23	Nov. 8	+0.97
Mar. 14	1.92	June 16	1.32				

30.32.5.1.3. Penns Grove well 72. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 17 feet. Land-surface datum is 8 feet above msl. Highest water level 6.53 above msl, Feb. 5, 1952; lowest 0.70 below msl, Oct. 24, 1943. Records available: 1940-55.

Jan. 7	+4.12	Apr. 15	+4.84	July 25	+1.76	Nov. 8	+2.06
Feb. 8	3.81	May 12	3.53	Aug. 30	2.86	Dec. 14	+2.08
Mar. 14	4.95	June 16	3.39	Sept. 27	2.19		

30.32.5.4.6. Penns Grove well 74. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 16 feet. Land-surface datum is 8 feet above msl. Highest water level 7.07 above msl, Dec. 3, 1940; lowest 0.37 above msl, Oct. 24, 1943. Records available: 1940-55.

Jan. 7	+2.54	Apr. 15	+2.80	July 25	+0.89	Nov. 8	+1.60
Feb. 8	1.93	May 12	2.05	Aug. 30	2.20	Dec. 14	+1.48
Mar. 14	3.01	June 16	2.04	Sept. 27	1.65		

30.32.5.7.7. Penns Grove well 84. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 11.5 feet above msl. Highest water level 11.62 above msl, Mar. 26, 1953; lowest 3.37 above msl, Oct. 4, 1954. Records available: 1940-55.

Jan. 7	+8.73	Apr. 15	+11.51	July 25	+7.07	Nov. 8	+7.04
Feb. 8	10.63	May 12	9.27	Aug. 30	8.76	Dec. 14	+5.95
Mar. 14	10.85	June 16	9.82	Sept. 27	7.46		

30.32.6.1.6. Penns Grove well 65. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 11 feet above msl. Highest water level 9.23 above msl, Feb. 8, 1949; lowest 1.88 above msl, Oct. 24, 1943. Records available: 1940-55.

30. 32. 6. 1. 6--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	+5.20	Apr. 15	+7.36	July 25	+5.20	Nov. 8	+4.92
Feb. 8	5.87	May 12	7.01	Aug. 30	5.03	Dec. 14	+4.56
Mar. 14	6.64	June 16	6.07	Sept. 27	4.21		

30. 32. 7. 6. 9. Penns Grove well 92. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 16 feet. Land-surface datum is 17.2 feet above msl. Highest water level 15.66 above msl, Feb. 5, 1952; lowest 4.91 above msl, Dec. 14, 1955. Records available: 1940-55.

Jan. 7	+5.95	Apr. 15	+9.67	July 25	+7.20	Nov. 8	+6.16
Feb. 8	6.42	May 12	8.87	Aug. 30	7.29	Dec. 14	+4.91
Mar. 14	8.40	June 16	8.13	Sept. 27	6.62		

Union County

26. 21. 5. 4. 6. Union County Park Commission. Drilled unused artesian well in Brunswick shale, diameter 6 inches, depth 290 feet. Land-surface datum is 69.0 feet above msl. Highest water level 65.94 above msl, June 2, 1952; lowest 58.99 above msl, Aug. 4, 1955. Records available: 1943-55.

Water level at end of day, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e62.41	61.75	62.32	62.63	e62.62	62.51	e61.40	59.70	61.40	60.58	61.21	60.80
2	e62.51	61.63	62.24	62.85	62.69	62.37	e61.20	59.35	61.53	60.98	61.01	60.86
3	e62.43	61.49	62.30	63.03	62.46	62.33	e61.00	59.06	61.48	60.61	60.90	61.40
4	e62.30	61.40	62.40	62.75	62.45	62.45	e61.00	58.99	61.75	60.41	60.91	61.73
5	e62.25	61.84	62.68	62.59	62.33	62.65	e60.75	59.00	61.88	60.26	61.33	61.20
6	e62.22	62.36	63.07	62.54	62.31	62.33	e60.90	59.43	61.56	60.32	60.59	60.93
7	e62.21	62.09	62.86	62.86	62.63	61.90	61.09	60.06	61.23	60.33	61.14	60.87
8	e62.34	62.00	62.74	62.43	62.87	61.27	61.00	60.09	61.07	60.78	60.93	60.57
9	e62.48	61.85	62.64	62.80	62.60	61.42	61.01	60.02	60.97	61.12	60.85	60.66
10	e62.26	61.96	62.62	63.10	62.45	61.58	61.19	60.04	61.12	60.63	60.88	61.13
11	62.16	62.03	62.58	62.83	62.30	61.92	61.18	60.04	61.47	60.44	60.90	61.33
12	62.10	62.15	62.86	62.60	62.20	62.33	61.08	60.57	61.10	60.29	61.25	60.86
13	61.98	62.36	63.10	62.53	62.18	62.08	60.86	61.40	60.90	60.20	61.55	60.73
14	61.91	62.24	59.81	62.55	62.45	61.91	60.64	61.80	60.85	60.41	61.20	60.68
15	62.36	62.03	61.34	62.42	62.71	61.85	60.67	61.56	60.81	61.12	61.02	60.68
16	62.62	62.06	61.85	62.62	62.47	61.70	60.80	61.35	60.66	61.58	61.15	60.62
17	62.29	62.05	61.96	62.90	62.16	61.62	60.92	61.23	60.77	61.30	61.08	61.02
18	62.04	62.00	62.04	62.67	62.17	61.82	60.44	61.28	61.17	61.08	61.00	61.14
19	61.90	62.19	62.20	62.51	62.19	62.19	60.00	61.62	60.88	60.88	61.65	60.70
20	61.78	62.49	62.43	62.41	62.15	61.90	60.09	61.98	60.69	60.90	61.89	60.65
21	61.74	62.37	62.41	62.42	62.20	61.65	59.60	62.23	60.42	60.90	61.38	60.61
22	62.08	62.23	62.62	62.39	62.43	61.78	59.53	61.96	60.29	61.20	61.19	60.73
23	62.36	62.12	62.61	62.61	62.43	61.84	59.75	61.69	60.44	61.55	61.14	60.74
24	e62.25	62.13	62.37	62.92	62.25	61.85	60.10	61.55	60.66	61.18	61.70	61.13
25	61.92	62.11	62.54	62.65	62.20	62.13	59.80	61.49	60.92	61.18	61.48	61.27
26	61.88	62.36	62.87	62.46	62.08	62.46	59.64	61.42	60.62	61.18	61.84	61.34
27	61.73	62.44	63.08	e62.40	62.01	62.05	59.48	61.70	60.53	61.14	61.98	60.88
28	61.74	62.44	62.90	e62.30	62.25	61.56	59.33	61.92	60.42	61.15	61.42	60.65
29	62.05		e62.75	e62.42	62.61	e61.50	59.33	61.62	60.30	61.57	61.14	60.64
30	62.30		62.63	e62.50	e62.80	e61.45	59.75	61.63	60.25	62.08	60.85	60.62
31	61.97		62.63		e62.60		60.14	61.47		61.65		61.00

e Estimated.

26. 21. 5. 8. 3. White Laboratories, Inc. well 3. Kenilworth. Drilled observation artesian well in Brunswick shale, diameter 6 inches, depth 400 feet. Land-surface datum is 81 feet above msl. Highest water level 72.5 above msl, Apr. 20, 1953; lowest 39.1 above msl, Mar. 7, 1952. Records available: 1952-55.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	63.4	....	61.7	62.7	63.1	60.4	57.7	....	58.3	60.5	62.9	65.0
2	63.5	....	61.9	63.1	61.7	59.8	57.7	....	58.3	61.0	62.6	65.1
3	63.1	....	62.8	63.7	61.4	60.3	57.8	....	59.0	60.5	62.4	65.2
4	63.2	....	62.7	63.8	61.6	60.8	57.9	56.4	60.2	59.3	62.9	65.4
5	62.9	....	63.1	63.0	61.4	59.8	57.9	56.3	61.0	58.6	63.4	65.4

26. 21. 5. 8. 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	63.0	....	63.5	63.3	61.3	59.9	57.7	56.3	60.0	59.1	63.5	65.1
7	62.8	....	63.5	63.1	61.9	60.1	57.5	56.4	59.6	59.5	62.8	65.2
8	62.9	....	63.6	63.3	62.4	61.0	57.4	56.7	60.2	60.1	63.1	65.2
9	63.2	....	62.4	63.8	62.6	61.4	57.4	57.0	60.1	61.3	63.4	65.2
10	63.2	62.4	62.6	63.7	61.9	60.3	57.6	57.7	59.6	59.5	63.5	65.3
11	63.1	62.4	62.4	62.6	61.3	59.7	57.6	57.4	59.0	59.0	62.6	65.3
12	63.1	....	62.4	63.1	61.0	59.1	57.5	57.4	60.3	60.0	63.0	65.4
13	63.1	....	62.7	63.7	60.9	59.6	57.4	....	60.3	60.6	63.5	65.1
14	63.1	....	62.8	62.6	60.7	60.4	....	....	60.2	60.5	62.5	65.2
15	63.1	....	63.0	63.1	60.9	60.0	....	....	58.9	61.4	62.7	65.4
16	63.5	....	63.0	63.3	60.8	59.6	....	....	58.8	62.4	63.1	....
17	63.1	62.6	63.0	63.5	60.5	59.0	....	55.3	59.4	63.0	63.7	....
18	63.2	62.4	62.9	63.6	60.6	59.2	....	55.5	60.7	62.0	64.0	....
19	63.0	62.5	62.7	62.9	60.0	59.1	....	55.9	59.8	62.4	64.3	....
20	63.1	62.7	62.7	63.5	59.8	58.9	....	56.3	59.3	62.5	64.5	....
21	....	62.7	62.7	62.7	59.8	58.4	....	57.1	58.9	62.8	64.6	....
22	....	62.9	62.9	63.1	59.9	58.3	....	57.7	59.4	62.8	64.7	....
23	....	62.4	63.5	63.3	59.9	58.1	....	57.3	59.0	62.9	64.7	....
24	....	62.7	63.4	63.5	59.1	58.0	....	57.2	59.0	62.1	64.8	....
25	62.6	62.5	63.2	62.2	58.6	58.0	....	57.6	60.4	62.5	65.0	....
26	62.7	62.7	63.8	63.0	58.3	58.1	....	58.5	60.4	62.3	65.1	....
27	62.7	63.1	63.8	63.4	58.6	58.0	....	59.1	59.8	62.7	65.1	....
28	....	62.7	63.7	63.4	59.9	58.3	....	60.1	59.5	62.4	64.2	....
29	....	....	63.7	63.3	60.0	58.2	....	59.9	59.2	62.9	64.7	64.9
30	....	....	63.8	63.2	60.0	57.9	....	59.1	59.7	63.5	64.8	64.9
31	....	....	64.0	....	60.3	....	....	58.5	....	63.7	....	64.9

NEW YORK

Long Island

By H. T. Hopkins

Scope of Water-Level Program

The observation-well program in Long Island was continued in 1955 in cooperation with the Nassau County Department of Public Works, the Suffolk County Board of Supervisors, the Suffolk County Water Authority, and the New York State Water Power and Control Commission. Measurements were made in about 400 observation wells, 47 of which were equipped with recording gages; 15 of the 47 recording gages were operated only for 1 week to 3 months. Water-level data for 180 wells, including daily mean readings at 15 recording gages, are included in this report. Figures 23-27 show the location of observation wells on Long Island. Water-level measurements for previous years, both published and unpublished, may be inspected at the Mineola office of the U. S. Geological Survey and also at the offices of the cooperating agencies.

Precipitation

Precipitation on Long Island during 1955 averaged 45.5 inches (at 26 stations operated by the U. S. Weather Bureau and other agencies), about 1.5 inches above normal. The annual totals ranged from 43.60 inches at the Orient station, Suffolk County, at the eastern end of Long Island, to 55.82 inches at the Lake Ronkonkoma station in the central part of the Island. The Battery station in New York City (longest continuous record near the western end of Long Island) recorded 42.76 inches of precipitation, 0.73 inch above average; the Setauket station, Suffolk County (longest continuous record in eastern Long Island), 48.75 inches, 3.81 inches above average; the Mineola station, in central Nassau County, 46.33 inches, 2.37 inches above average; and the Riverhead station, in eastern Suffolk County, 40.92 inches, 2.31 inches below average. Precipitation was below normal throughout 1955, except during August, October, and November. In August it averaged 11.03 inches, about 7 inches above normal (principally because of the heavy rains accompanying two hurricanes "Connie" and "Diane"); and in November, 6.14 inches, about 2 inches above normal.

Pumpage

The gross withdrawal of ground water for 1955 averaged 282 mgd (million gallons per day), according to information furnished by the New York State Water Power and Control Commission and the Nassau County Department of Public Works. Of this amount, private and public supply used about 181 mgd, industrial supply about 83 mgd, and agricultural supply 18 mgd. Pumpage during 1955 was about 33 mgd less than in 1954. This decrease reflects the cessation of pumping by the city of New York at all stations on Long Island, except the Douglaston pumping station in northeastern Queens County. The withdrawal from this station was 3.3 mgd for the 162-day period May through October 1955. By counties, the largest withdrawal was in Nassau County, about 45 percent of the total, 24 percent in Suffolk County, 22 percent in Queens County, and 9 percent in Kings County. By aquifers, about 55 percent was taken from the deposits of late Pleistocene age, 36 percent from the sands of the Magothy(?) formation, 6 percent from the Lloyd sand member of the Raritan formation, and 3 percent from the Jameco gravel. Recharge of used water to underground formations in 1955 averaged 144 mgd. As a result, net withdrawals in 1955 were about 137 mgd or about one-half the gross withdrawals.

Interpretation of Water-Level Fluctuations

There are four main aquifers that yield large supplies of ground water on Long Island. The upper and most productive of these consists of extensive outwash deposits of late Pleistocene age, which, in some places, are overlain by impervious material. The second aquifer, the Jameco gravel, an earlier outwash deposit of Pleistocene age, has been identified so far only in the western part of Long Island; it is covered in most places by the Gardiners clay, an interglacial deposit. The third aquifer, the Magothy(?) formation of Late Cretaceous age, consists of extensive lenticular beds of sand, gravel, and clay. This formation in central and eastern Long Island is in direct contact with the overlying beds of outwash of Pleistocene age; in the western part, it is covered by either the Jameco gravel or Gardiners clay. Except for a persistent coarse zone in the lower

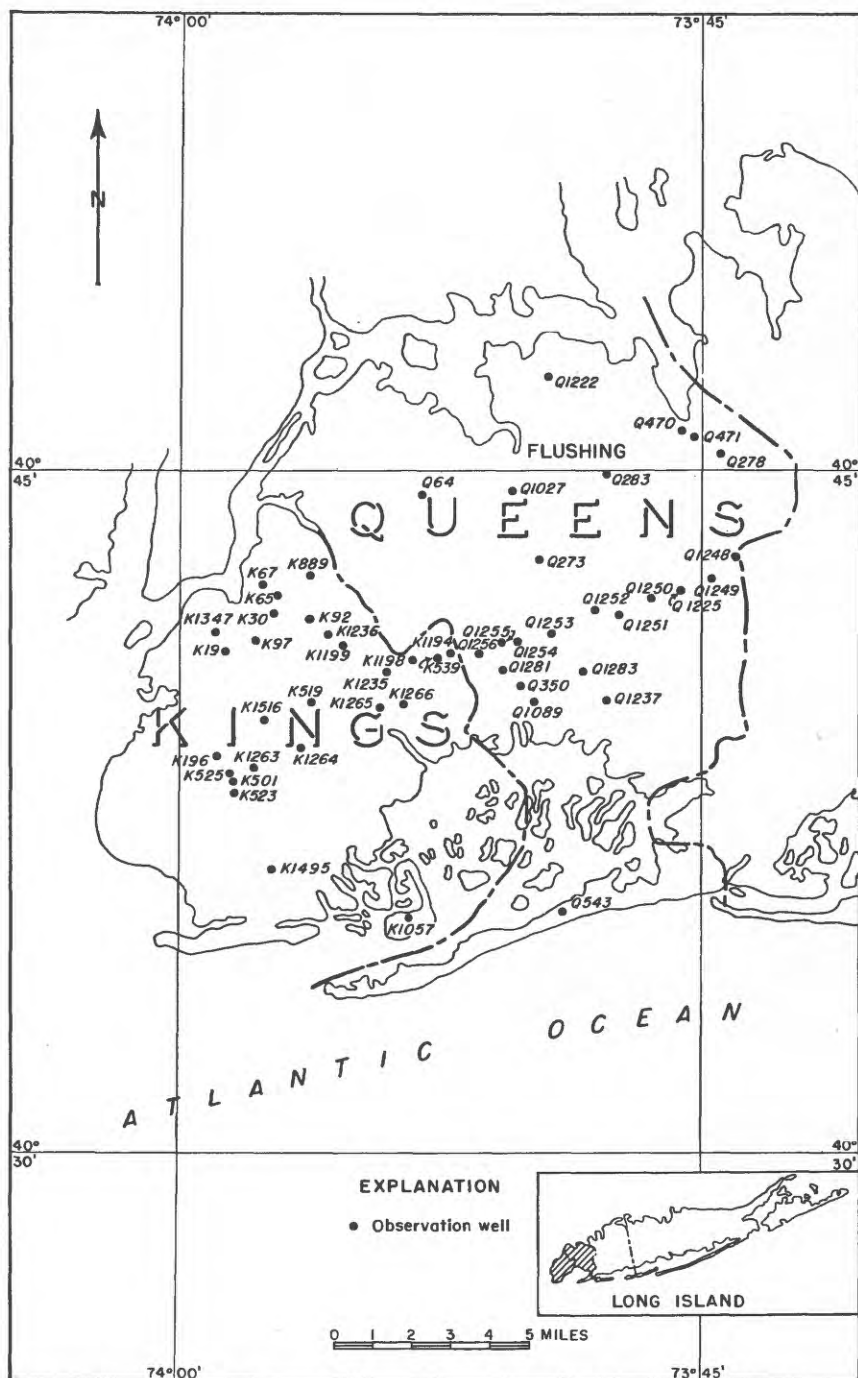


Figure 23. --Location of observation wells in Kings and Queens Counties, Long Island, N. Y., 1955.

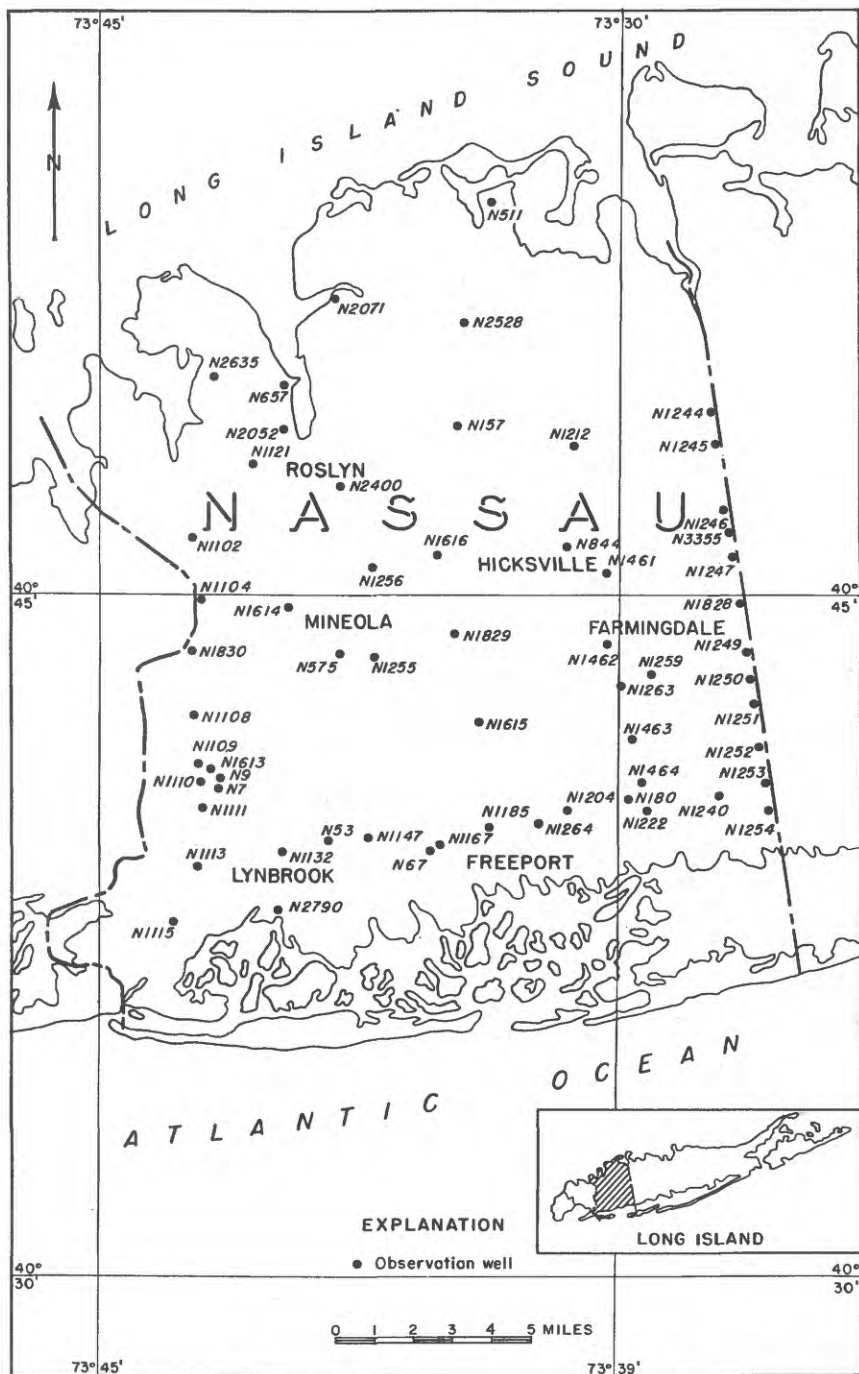


Figure 24. --Location of observation wells in Nassau County, Long Island, N. Y., 1955.

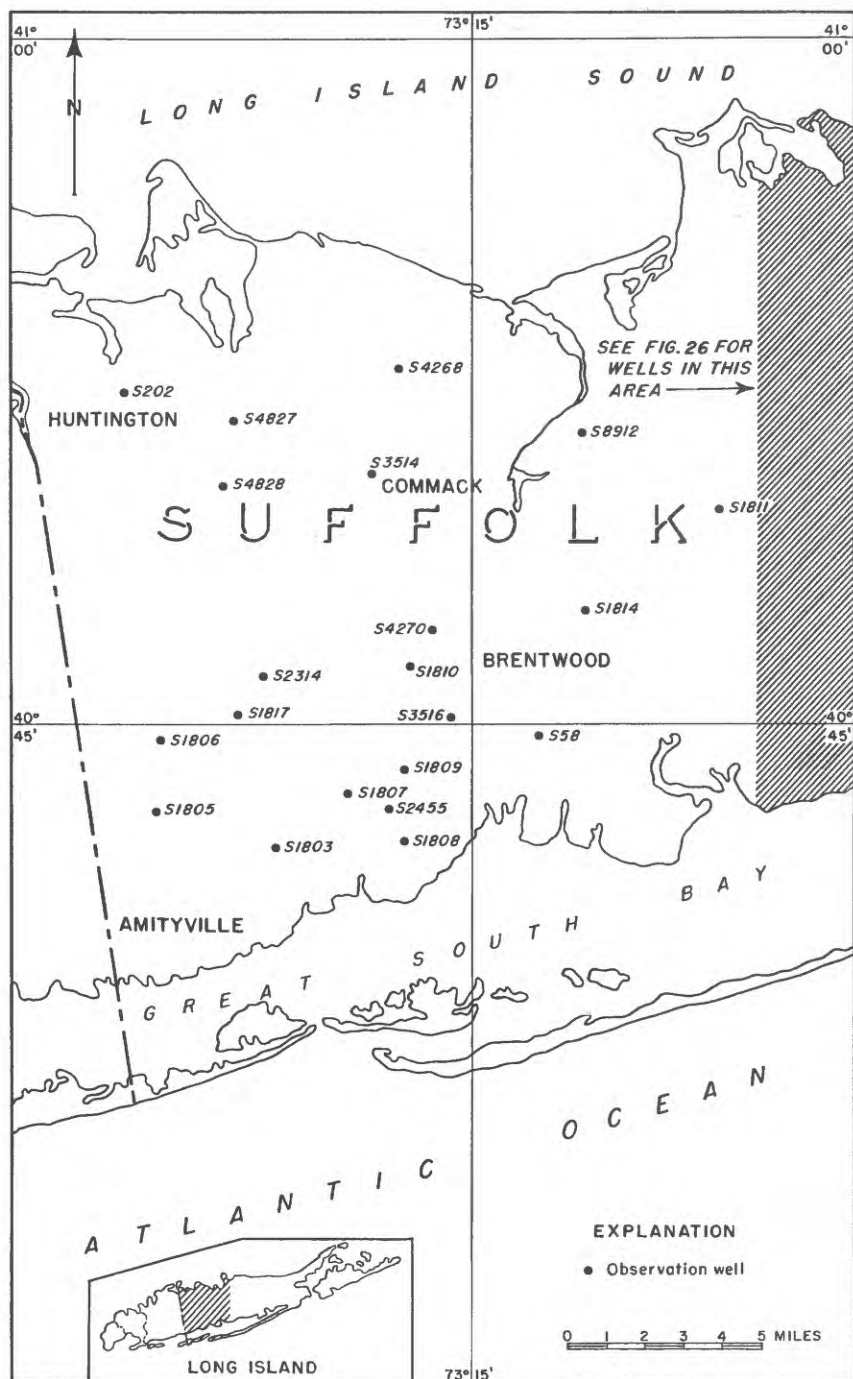


Figure 25. --Location of observation wells in western Suffolk County, Long Island, N. Y., 1955.

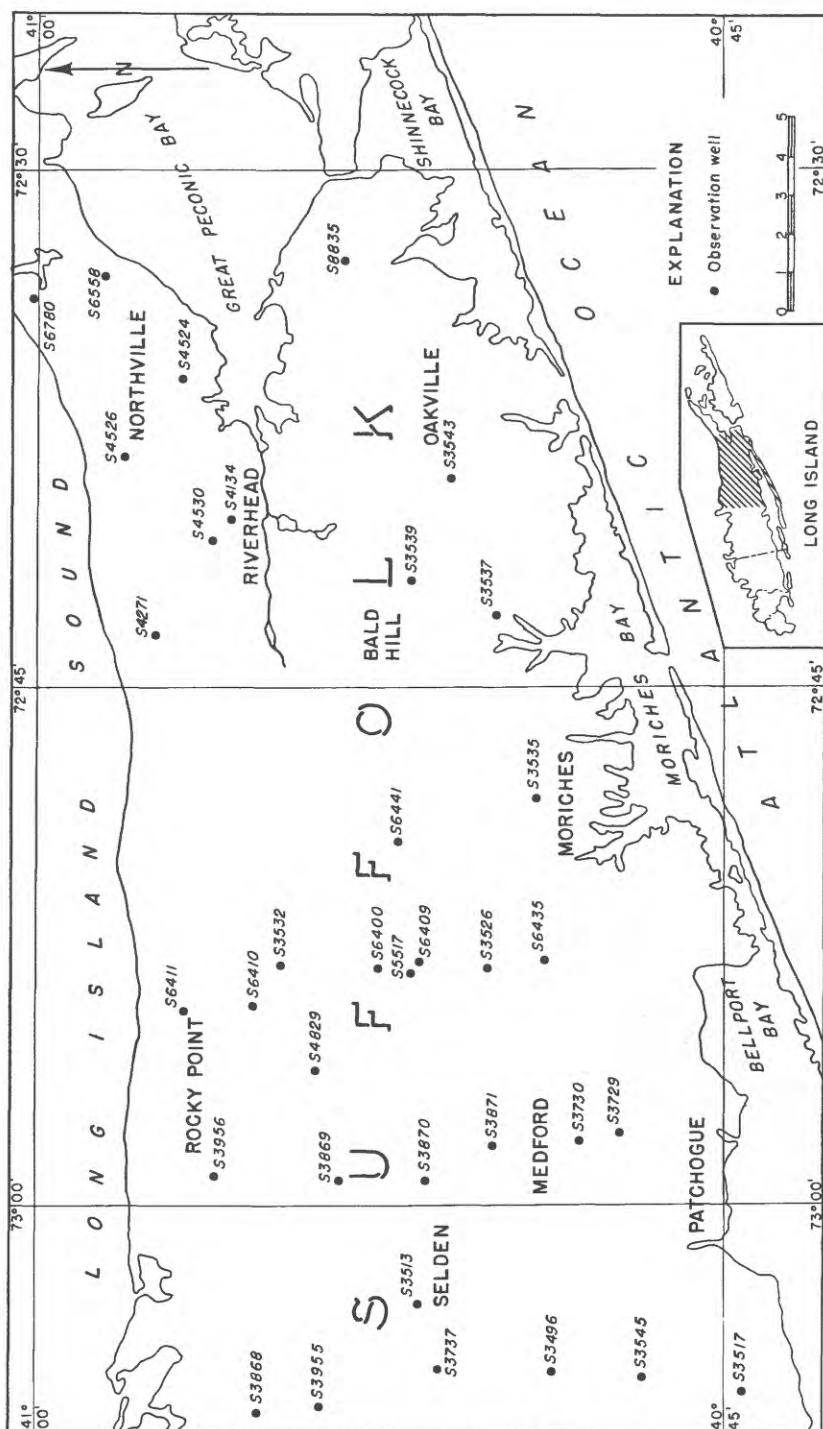


Figure 26. --Location of observation wells in central Suffolk County, Long Island, N. Y., 1955.

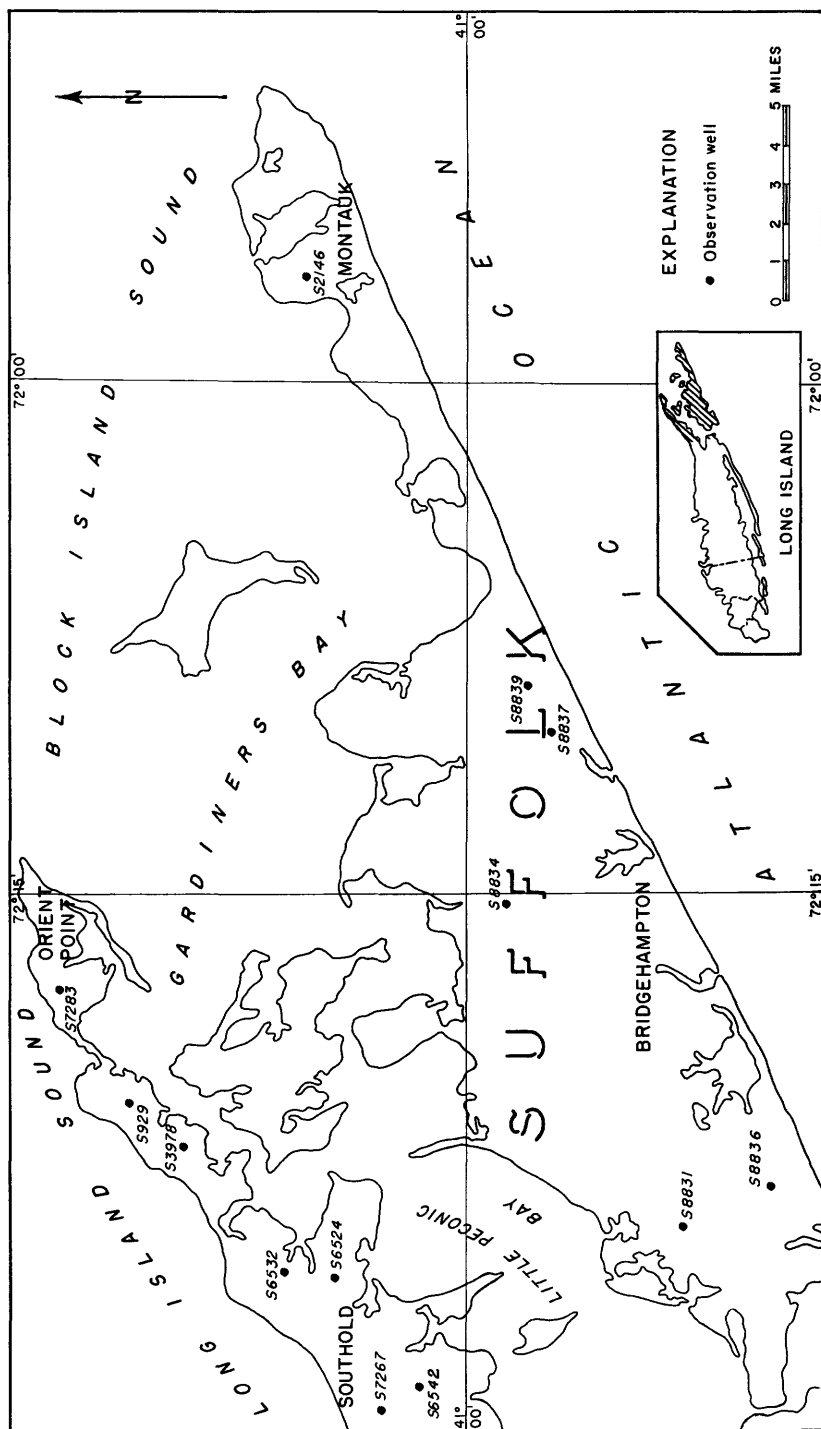


Figure 27. --Location of observation wells in eastern Suffolk County, Long Island, N. Y., 1955.

part of the Magothy(?) formation, no other widespread water-bearing zones are recognized; though productive wells have been screened at various depths. The fourth and lowermost aquifer, the Lloyd sand member of the Raritan formation, also of Late Cretaceous age, which lies above the bedrock floor of the island, is covered almost everywhere by the thick clay member of the Raritan formation. The Lloyd sand member consists of beds of sand, gravel, and clay.

The outwash deposits of late Pleistocene age constitute a vast reservoir into which precipitation may easily sink and from which water may readily and economically be withdrawn. The fluctuation of the water table in these deposits reflects chiefly the changes in precipitation. However, in localities where the safe withdrawal has been exceeded, water-level fluctuations are probably the result of changes in rates of pumping rather than of changes in precipitation. In contrast, the water in the deeper sands under artesian pressure is recharged (through relatively small intake areas) by water percolating down from the overlying formations. Fluctuations of water levels in the deeper sands, therefore, are controlled chiefly by changes in the rate of pumping. Thus, the safe withdrawal from the deposits of late Pleistocene age is governed primarily by the precipitation rate, whereas the safe withdrawal from the deeper beds is limited by the capacity of the beds to receive and transmit water from the recharge area to points of withdrawal. Fluctuations of water levels in the water-table and artesian formations on Long Island express changes in storage resulting from variations in the difference between replenishment and discharge, both natural and artificial. When recharge exceeds discharge, storage increases and water levels rise; conversely, when discharge exceeds recharge, storage decreases and water levels decline. The major fluctuations of the water table in western Long Island reflect changes in the amounts and distribution of pumpage as well as the overall rate of withdrawal; in other parts of the island, the major fluctuations are chiefly the result of variations in precipitation, evaporation, and transpiration.

In western Long Island, heavy pumping prior to the permanent shutdown of a private company's entire plant in 1947 lowered the water table below sea level in a large part of Kings County and adjacent Queens County. About 27 mgd was pumped by the private company before 1947; after this shutdown, the upward trend of water levels in Kings County was continuous through 1955. Before 1947 ground-water levels were above mean sea level only in the extreme southern sections of Kings County. During the period 1947-55, the recovery ranged from 20 to 36 feet in the northern sections, averaging more than 23 feet in central Kings County. In the industrialized northwestern section near well K30 (fig. 28), the water table recovered about 1 foot during 1955 and about 23 feet since June 1947. In 9 observation wells rises ranging from less than 1 foot to more than 3 feet were measured during 1955, the average rise being 1 foot during the year.

In eastern and central Long Island, perennial recharge exceeds current withdrawals; consequently, the water table lies above sea level at all but a few places along the shoreline, where local overdevelopment has occurred. The water table in the eastern section of Long Island was above average during 1955, except in the north and south forks of the extreme eastern end of Suffolk County, where water levels were about 0.5 foot below the December 1954 stages. The general trend of ground-water level in central Long Island is indicated by the average water level of 14 selected wells in Nassau and Suffolk Counties (fig. 28). These wells include N1255, N1256, N1259, N1263, N1614, N1615, N1616 in Nassau County and S1803, S1805, S1806, S1807, S1809, S1810 in Suffolk County. During 1955 the average water level of these wells rose 0.53 foot to a stage of 48.46 feet above mean sea level, which is roughly 1 foot above the average position for December. The net rise in the average water level for the 14 selected wells since 1947 has been about 1 foot.

About 42 of 140 artesian observation wells on Long Island are now used for periodic observation. The remainder are used for public water-supply, industrial, and agricultural purposes. Measurements are made when the wells are not in use. In well N7 (fig. 28), screened in the Lloyd sand member of the Raritan formation, a downward trend has been apparent since 1944. A similar trend has been noted in nearby well N1613, which is screened in the lower part of the Magothy(?) formation. In well N9, near wells N7 and N1613 and screened in the shallower sands of the Magothy(?) formation, water levels have shown no long-range rise or decline since observations were begun in 1936. However, during April and May 1955, when dewatering for sewer installations was carried on near the site of well N9, a new low of 14.68 feet above mean sea level was recorded, 4.90 feet below the previous low of record, July 30, 1954. The following table is a list of artesian wells which were either unused or constructed primarily for observation purposes.

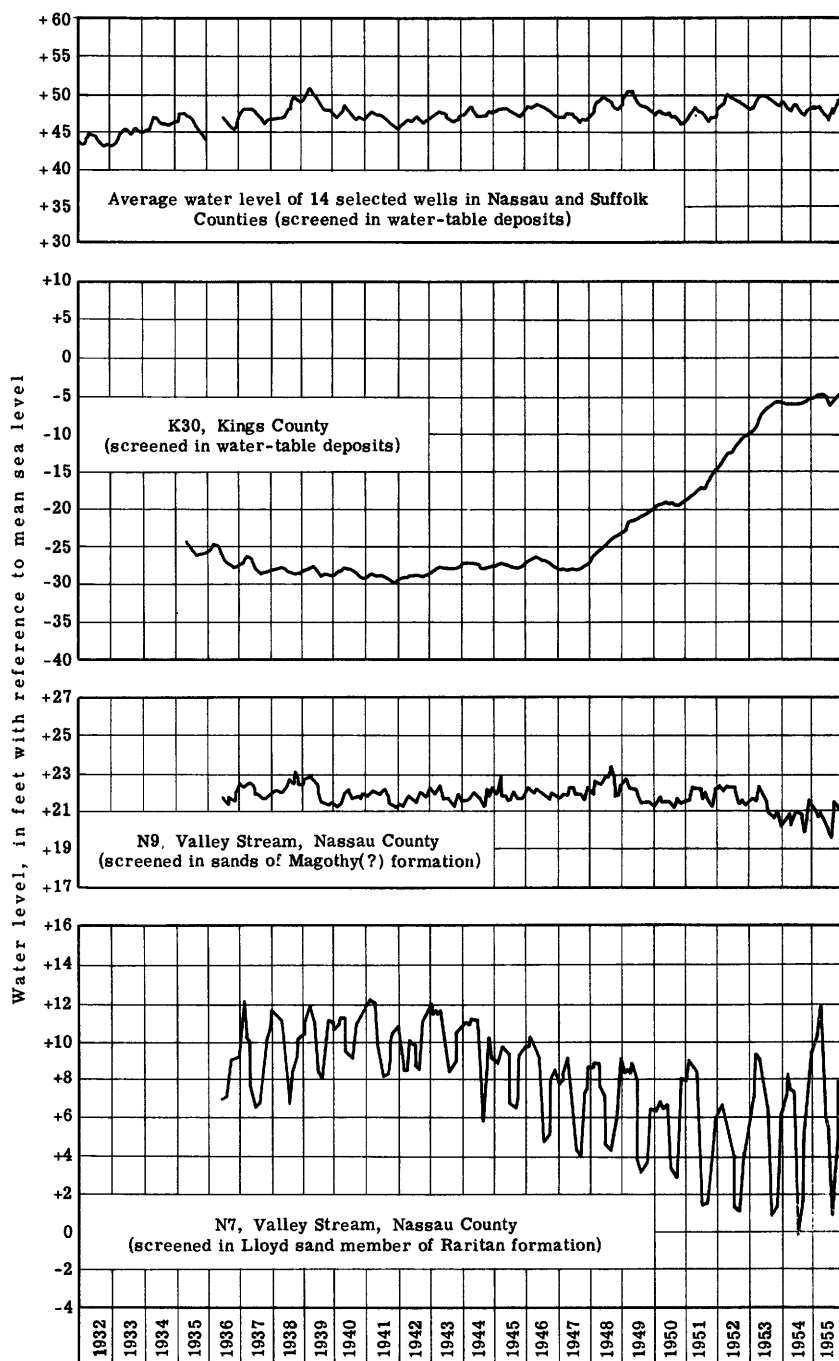


Figure 28. --Composite average water level of 14 selected wells in Nassau and Suffolk Counties and hydrographs of wells K30, N9, and N7, Kings and Nassau Counties, N. Y.

Jameco gravel	Sands of Magothy(?) formation			Lloyd sand member of Raritan formation	
K19	N9	N1245	*N2790	K1057	Q278
K519	N157	N1461	Q471	**N7	*Q283
K523	*N180	N1613	**S58	N67	Q470
K525	N575	N2052	S203	N511	*Q543
K1591	N844	N2400	S2314	*N657	Q1027
Q350	*N1212	N2528	S4134	*N3355	S202
Q1152	N1244	*N2635	S4828	*Q64	S6409
Q1237				Q273	

* Equipped with recording gage.

** Recording gage removed before end of the year.

Acknowledgments

Acknowledgment is made to the Superintendent of the Riverhead Water Supply for maintaining a recording gage at well S4134 and for taking periodic water-level readings at well S4271 and to the Superintendent of the Greenport Water Supply for water-level readings at several wells in the vicinity.

Well-Numbering System

Observation wells on Long Island are numbered by the New York State Water Power and Control Commission. The letter before the number is the initial letter of the county in which the well is situated; the number has no geographical significance in that the wells are numbered serially with respect to the order of drilling since about 1933.

The following tables include a summary of data pertaining to ground-water levels and net change during 1955. Data for net change is not given for a number of wells in Kings and Queens Counties, because water-level readings normally made in December 1955 were postponed to early 1956.

Summary of data on ground-water levels on Long Island, N. Y., 1955
(in feet with reference to mean sea level)

Well no.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level in December 1955
K19	Sept. 10, 1940	-1.11	Dec. 22, 1955	a-26.80	Sept. 26, 1941	-1.11
K30	June 14, 1935	-4.69	Dec. 22, 1955	a-29.75	Nov. 8, 1941	-4.69
K65	Nov. 8, 1937	-4.25	Dec. 22, 1955	-28.34	Aug. 25, 1939	-4.25
K67	Nov. 8, 1937	-1.36	Dec. 22, 1955	-20.91	Sept. 15, 1947	-1.36
K92	Dec. 11, 1937	-1.12	Nov. 15, 1955	-29.69	Dec. 11, 1937	-1.34
K97	Apr. 5, 1944	-2.23	May 24, 1955	-26.58	Oct. 27, 1944	c-2.46
K196	Sept. 12, 1942	+7.11	Dec. 28, 1954	-4.76	Mar. 5, 1944	(d)
K501	June 30, 1947	+5.66	May 26, 1953	-4.80	June 30, 1947	c+5.19
K519	June 24, 1947	+4.08	Dec. 22, 1955	-18.78	June 30, 1947	+4.08
K525	Dec. 13, 1945	+6.50	May 26, 1953	a+.46	Mar. 10-13, 1947	(d)
K539	May 3, 1932	+2.30	Nov. 7, 1955	-8.28	Feb. 21, 1942	+2.20
K889	June 4, 1945	-3.74	Dec. 22, 1955	-39.01	Jan. 25, 1947	-3.74
K1057	Mar. 29, 1939	(b)		(b)		c+9.30
K1194	Nov. 2, 1940	+1.45	Dec. 23, 1955	-8.36	Feb. 28, Mar. 7, 1942	+1.45
K1198	Nov. 2, 1940	+2.26	Aug. 27, 1953	-8.45	May 14, 1942	(d)
K1199	Nov. 16, 1940	+2.63	Dec. 22, 1955	-17.17	Jan. 1, 1944	+2.63
K1235	Jan. 25, 1941	+3.73	Dec. 22, 1955	-10.65	June 27, 1942	+3.73
K1236	Jan. 25, 1941	+1.56	Dec. 22, 1955	-19.42	Oct. 4, 1941	+1.56
K1263	Apr. 21, 1933	+5.56	Dec. 22, 1955	-11.97	July 21, 1936	+5.56
K1264	Apr. 21, 1933	+5.40	Dec. 2, 1955	-15.56	Apr. 3, May 7, 1947	+5.34
K1265	Apr. 21, 1933	+4.60	Dec. 22, 1955	-11.55	Aug. 22, 1942	+4.60
K1266	Apr. 21, 1933	+3.07	Apr. 29, 1953	-7.49	June 27, 1942	c+2.52
K1347	Oct. 15, 1942	-4.04	Mar. 30, 1954	-24.16	Sept. 10, 1945	(d)
K1495	Nov. 5, 1936	+4.39	May 26, 1953	+1.80	Aug. 13, Dec. 17, 1947	+3.90
K1516	June 30, 1947	+4.17	Jan. 3, 1955	-21.56	June 30, 1947	c+4.17

Summary of data on ground-water levels on Long Island, N. Y., 1955--Continued

Well no.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level in December 1955
N7	July 24, 1936	a+12.75	Mar. 9, 1941	a-0.56	Aug. 4, 1954	+8.10
N9	July 3, 1936	+23.57	Sept. 23, 1938	e+19.23	Aug. 1, 1955	+19.63
N53	Jan. 21, 1934	+16.49	Apr. 15, 1939	+12.05	Feb. 17, 1940	+13.59
N67	Mar. 16, 1932	+15.51	Dec. 5, 1946	+8.15	July 28, 1954	c+11.09
N157	Sept. 22, 1932	a+88.84	Oct. 31, 1939	+75.71	May 5, 1933	+83.76
N180	Oct. 30, 1945	a+21.08	June 6, 1952	a+16.93	July 31, 1954	a+18.77
N511	Jan. 9, 1947	+21.52	Dec. 31, 1948	+18.23	Aug. 1, 1950	+20.58
N575	Nov. 30, 1946	+60.52	June 1, 1953	+50.44	July 28, 1955	+57.42
N657	Feb. 12, 1945	a+15.67	May 2, 1953	a+12.78	Aug. 1, 1954	a+14.89
N844	Oct. 3, 1939	+85.94	June 29, 1953	a+78.87	Apr. 16, 1942	+85.39
N1102	Apr. 21, 1939	+59.12	May 25, 1953	+53.17	Aug. 23, 1955	+54.17
N1104	Apr. 21, 1939	+62.17	May 25, 1953	+55.27	May 1, 1942	+58.76
N1108	Apr. 21, 1939	+43.62	Apr. 28, 1939	+36.49	Aug. 1, 1955	+39.77
N1109	Apr. 21, 1939	+30.04	Apr. 21, 1939	+23.42	July 29, 1954	+26.69
N1110	Apr. 21, 1939	+21.05	Apr. 21, 1939	+16.56	Aug. 1, 1955	+18.13
N1111	Apr. 21, 1939	+14.79	June 6, 1946	+8.14	May 26, 1955	+14.75
N1113	Apr. 21, 1939	+7.99	Jan. 6, 1949	+1.12	June 24, 1952	c+3.84
N1115	Apr. 21, 1939	+13.05	July 14, 1948	+8.57	Dec. 1, 1941	+11.53
N1121	May 28, 1943	+76.22	May 25, 1955	+57.92	Nov. 3, 1955	+58.03
N1132	Apr. 2, 1938	+9.77	Sept. 23, 1938	+6.06	Feb. 24, 1940	+7.67
N1147	Jan. 6, 1939	+19.72	Apr. 8, 1939	+15.98	Aug. 2, 1955	+16.91
N1167	Mar. 12, 1938	+12.12	Mar. 25, 1948	+8.45	Aug. 2, 1955	+9.83
N1185	Apr. 2, 1938	+15.39	Apr. 8, 1939	+10.01	Dec. 28, 1949	c+14.02
N1204	Jan. 6, 1939	+12.56	Feb. 8, 1952	+5.07	Jan. 26, 1950	+10.86
N1212	Jan. 1, 1943	a+89.74	Oct. 6, 1953	a+83.72	Jan. 20, 1943	a+88.20
			Dec. 7, 1953			
N1222	Jan. 6, 1939	+9.80	Mar. 30, 1953	+1.27	Jan. 31, 1942	+9.15
N1240	Jan. 6, 1939	+11.45	Mar. 30, 1953	-1.08	Jan. 24, 1942	+10.46
N1244	May 31, 1940	+76.50	May 31, 1940	+71.07	June 4, 1951	+73.89
N1245	Feb. 2, 1940	+82.88	Feb. 2, 1940	+75.63	June 4, 1951	+78.53
N1246	May 31, 1940	+82.71	Oct. 29, 1953	+76.85	Apr. 24, 1951	+79.81
N1247	Apr. 21, 1939	+76.98	July 28, 1939	+70.52	July 31, 1942	+73.99
N1249	Apr. 21, 1939	+58.18	Apr. 21, 1939	+50.34	Jan. 30, 1942	+55.34
N1250	Apr. 21, 1939	+49.79	Apr. 28, 1953	+43.20	Jan. 30, 1942	+47.57
N1251	Apr. 21, 1939	+40.95	Apr. 28, 1953	+35.57	Jan. 30, 1942	+39.31
N1252	Apr. 21, 1939	+26.51	Mar. 30, 1953	+22.48	Jan. 30, 1942	c+23.91
N1253	Jan. 6, 1939	+16.93	Mar. 30, 1953	+11.31	Jan. 31, 1942	+15.56
N1254	Apr. 21, 1939	+4.70	Mar. 30, 1953	+2.35	Dec. 29, 1949	+3.53
N1255	May 12, 1913	+65.59	Apr. 15, 1939	+57.11	Aug. 2, 1955	+61.07
N1256	May 12, 1913	+80.97	May 20, 1939	+70.30	Feb. 27, 1933	+78.39
N1259	Feb. 5, 1909	+56.99	June 23, 1952	+47.83	Jan. 24, 1933	+54.92
N1263	Nov. 3, 1911	+55.24	June 23, 1952	+46.22	Oct. 31, 1932	+52.87
N1264	Mar. 7, 1932	+9.41	Apr. 8, 1939	+2.70	Feb. 17, 1940	c+8.07
N1461	Apr. 27, 1943	+81.06	May 2, 1953	a+74.34	Oct. 10, 1943	+80.13
N1462	May 6, 1943	a+67.78	May 18, 1953	+61.26	Nov. 1, 1947	+67.12
N1463	May 6, 1943	a+42.91	June 7, 1952	a+36.33	Aug. 5, 1955	c+39.51
N1464	May 13, 1943	a+17.59	Apr. 29, 1944	+12.22	Jan. 26, 1950	+15.61
N1613	June 8, 1940	+24.56	July 28, 1948	+14.76	Aug. 1, 1955	+19.76
N1614	Apr. 2, 1913	+72.48	May 31, 1949	+61.90	Feb. 27, 1933	+69.47
N1615	Mar. 17, 1913	+47.17	Mar. 28, 1939	+41.49	Oct. 27, 1932	+43.92
N1616	Mar. 17, 1913	+85.42	June 1, 1939	+74.05	Feb. 27, 1933	+83.25
N1828	Jan. 7, 1939	+64.52	Apr. 28, 1953	+57.80	Dec. 19, 1950	+62.24
N1829	Mar. 5, 1938	+69.43	Apr. 28, 1953	+66.00	Jan. 29, 1951	+68.95
N1830	Jan. 6, 1939	+54.23	May 31, 1949	a+47.94	Aug. 1, 1955	+49.62
N2052	Mar. 14, 1946	+34.95	Nov. 5, 1952	+29.71	Mar. 14, 1946	c+33.49
N2071	Feb. 12, 1946	+14.62	Mar. 15, 1946	+4.76	May 25, 1955	c+7.91
N2400	July 7, 1947	+74.10	Sept. 30, 1949	+70.04	Feb. 28, 1951	c+74.07
N2528	Dec. 4, 1947	+72.32	June 26, 1953	a+68.03	Jan. 22, 30, 1951	+71.18
N2635	July 16, 1948	a+27.67	May 23, 27, 31, June 1, 1953	a+23.77	Jan. 22-23, 1951	a+25.81
N2790	Feb. 11, 1950	a+5.98	Mar. 26, Apr. 13, 1953	a+2.61	Aug. 4, 1955	a+4.71
N3355	Aug. 14, 1951	+35.26	Apr. 25, 1955	a+31.17	Sept. 30, 1951	a+34.63

Summary of data on ground-water levels on Long Island, N. Y., 1955--Continued

Well no.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level in December 1955
Q64	Mar. 26, 1947	+3.07	May 5, 1955	a-68.90	Nov. 2, 1947	a+1.90
Q273	Mar. 15, 1935	a+8.47	Apr. 20, 1939	a-1.12	Mar. 21, 1942	+2.99
Q278	June 4, 1946	+8.79	Mar. 31, 1955	-8.10	July 27, 1954	c+6.43
Q283	June 10, 1946	a+5.48	Apr. 7, 1955	-10.26	Sept. 3, 1947	a-3.52
					Sept. 27, 1951	
Q350	Mar. 17, 1937	+3.51	Apr. 29, 1939	a-.74	Feb. 7, 10-11, 1948	+1.34
Q470	Sept. 21, 1933	+7.58	Mar. 30, 1955	a-12.75	July 15, 1937	+2.83
Q471	Mar. 31, 1939	+17.45	Sept. 30, 1946	+13.69	Mar. 31, 1939	+16.00
Q543	May 17, 1932	(b)		(b)		a+9.73
Q1027	Jan. 1, 1942	+8.53	Apr. 28, 1953	a+4.08	Mar. 20, 1942	c+7.54
Q1089	Oct. 10, 1911	+4.04	Sept. 23, 1938	-42	Oct. 17, 1932	+2.30
Q1222	Apr. 1, 1940	+5.02	Apr. 28, 1955	-9.19	Feb. 28, 1942	+2.13
Q1225	Apr. 20, 1933	+32.19	Apr. 4, 1939	+22.50	Dec. 29, 1954	(d)
Q1237	Feb. 10, 1939	a+5.03	Apr. 30, May 4, 1939	a-6.92	Mar. 26, 1950	a+3.18
Q1248	Oct. 12, 1940	+38.16	May 31, 1949	+33.10	Oct. 30, 1951	(d)
Q1249	Oct. 19, 1940	+33.41	Sept. 26, 1946	+25.51	June 28, 1954	(d)
Q1250	Oct. 19, 1940	+22.52	Aug. 31, 1948	+15.13	July 28, 1955	+15.74
Q1251	Oct. 19, 1940	+14.25	Feb. 24, 1949	+7.10	June 28, 1954	(d)
Q1252	Oct. 26, 1940	+13.92	Nov. 2, 1948	+6.64	July 28, 1955	+7.62
Q1253	Nov. 2, 1940	+4.58	Apr. 26, 1941	-2.44	Dec. 30, 1954	(d)
Q1254	Oct. 26, 1940	+29	Apr. 12, 1941	-6.81	Dec. 30, 1954	(d)
Q1255	Oct. 12, 1911	+12.03	May 12, 1914	-6.30	Nov. 3, 1947	-3.97
Q1256	Oct. 26, 1940	-60	Dec. 19, 1953	-6.98	Mar. 14, 1942	(d)
Q1281	Oct. 11, 1911	+8.59	June 4, 1913	-3.62	Mar. 7, 1942	(d)
Q1283	Oct. 12, 1911	+13.33	Nov. 10, 1911	+1.35	June 28, 1954	(d)
S58	Aug. 14, 1944	a+25.50	Apr. 20, 1953	a+22.32	Oct. 6, 1951	+23.85
S202	Nov. 25, 1936	a+47.17	Apr. 10, 1937	a+36.93	Feb. 1, 1939	+44.09
S929	Sept. 29, 1949	+4.05	May 4, 1953	+27	July 26, 1955	+2.26
S1803	Oct. 18, 1912	+18.19	Apr. 22, 1913	+14.93	Oct. 25, 1941	+16.42
S1805	Oct. 16, 1912	+47.17	Apr. 28, 1953	+37.90	Oct. 27, 1932	+44.01
S1806	Oct. 18, 1912	+61.69	Apr. 22, 1939	+50.61	Jan. 5, 1933	+58.49
S1807	Oct. 19, 1912	+23.48	Oct. 14, 1938	+20.45	Oct. 5, 1953	+21.00
S1808	Oct. 21, 1912	+12.94	Sept. 23, 1938	+9.45	Sept. 12, 1932	+10.85
S1809	Oct. 21, 1912	+32.56	Apr. 15, 1939	+25.00	Nov. 2, 1932	+30.54
S1810	Oct. 21, 1912	+56.19	Apr. 29, 1939	+45.24	Feb. 23, 1933	+53.32
S1811	Feb. 28, 1937	+55.66	May 5, 1953	+51.41	Aug. 28, 1941	+55.43
S1814	Nov. 4, 1939	+40.29	Nov. 29, 1955	+34.50	Jan. 25, 1951	+40.17
S1817	Dec. 2, 1939	+54.34	Apr. 28, 1953	+49.66	Oct. 30, 1951	+52.63
S2146	Aug. 31, 1950	+3.97	May 26, 1953	+2.50	Jan. 11, 1951	(d)
S2314	Mar. 27, 1943	+62.48	May 26, 1953	+57.63	Dec. 17, 1951	+61.27
S2455	June 23, 1933	a+24.85	Sept. 23, 1938	a+19.98	Nov. 6, 1937	+22.88
S3496	Nov. 2, 1942	+51.77	Aug. 4, 1953	+45.79	Feb. 21, Mar. 27, 1951	+50.69
					Feb. 15, 21, 23, 1948	
S3513	Apr. 24, 1942	+66.49	Dec. 22, 1955	a+59.86		+66.49
S3514	May 15, 1942	a+71.53	Dec. 31, 1955	a+64.23	Mar. 18, 26, 1951	a+71.53
S3516	Mar. 5, 1907	+41.38	Apr. 30, 1953	+35.29	Dec. 21, 1950	+40.67
S3517	Apr. 2, 1907	+14.57	Apr. 29, 1953	+11.60	Dec. 4, 1909	+13.81
S3526	Jan. 30, 1943	+30.52	Dec. 30, 1948	+25.73	Jan. 25, 1951	c+28.73
S3532	Apr. 21, 1907	+51.95	June 8, 1908	+45.23	Feb. 23, 1951	c+50.24
S3535	Aug. 13, 1907	+22.81	May 26, 1953	+17.51	Feb. 23, 1951	+21.20
S3537	Jan. 11, 1908	+17.46	Apr. 30, 1953	+14.09	Jan. 23, 1951	c+16.23
S3539	Apr. 12, 1907	+27.14	Aug. 5, 1953	+21.33	Mar. 28, 1951	c+24.73
S3543	Mar. 18, 1907	+20.87	June 24, 1953	+15.18	Feb. 27, 1951	+18.96
S3545	Mar. 12, 1907	+39.23	May 25, 1953	+33.51	Jan. 25, 1951	+38.79
S3729	Sept. 10, 1943	+31.58	May 25, 1953	+27.34	Apr. 4, 1947	+30.92
S3730	Sept. 21, 1943	+38.01	June 23, 1953	+33.04	Feb. 26, 1951	+37.22
S3737	Aug. 17, 1943	+60.23	Dec. 22, 1955	+54.33	Feb. 20, 1951	+60.23
S3868	June 26, 1944	+41.30	Oct. 4, 1953	+36.21	Jan. 22, 1951	(d)
S3869	June 22, 1944	+59.11	Dec. 22, 1955	+52.97	Jan. 22, 1951	+59.11
S3870	June 16, 1944	+58.23	Dec. 22, 1955	+52.84	Feb. 20, 1951	+58.23
S3871	June 15, 1944	+50.79	Aug. 27, 1953	+45.84	Feb. 26, 1951	+49.85
S3955	May 31, 1944	+57.73	Aug. 24, 1953	+51.40	Mar. 28, 1951	+57.18
S3956	May 31, 1944	+34.57	Aug. 27, 1953	+30.29	Mar. 28, 1951	+34.23
S3978	Sept. 29, 1949	+2.08	Apr. 2, 1953	-30	Dec. 29, 1949	+35

Summary of data on ground-water levels on Long Island, N. Y., 1955--Continued

Well no.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level in December 1955
S4134	Mar. 10, 1945	a+14.23	Apr. 27, May 8, 1953	a+11.33	Nov. 23, 1950	a+13.01
S4268	Aug. 2, 1945	+53.82	Dec. 22, 1955	+46.65	Mar. 27, 1951	+53.82
S4270	Aug. 1, 1945	+57.22	Dec. 27, 1955	+49.86	Feb. 19, 1951	+57.22
S4271	Aug. 2, 1945	+11.84	Apr. 26, 1955	a+9.12	Sept. 10-12, 1950	c+10.70
S4524	Aug. 2, 1945	+9.44	May 1, 1953	+5.52	Nov. 2, 1950	+7.26
S4526	Aug. 2, 1945	+11.42	Aug. 26, 1953	+7.47	Dec. 28, 1950	c+9.20
S4827	Dec. 4, 1946	+60.32	Nov. 23, 1953	+54.23	May 28, 1951	+58.89
S4828	Dec. 4, 1946	+71.07	Oct. 23, 1953	+65.17	Jan. 24, 1952	+69.78
S4829	Sept. 30, 1946	+41.31	Aug. 27, 1953	+36.74	Apr. 4, 1951	c+41.06
S5517	Apr. 28, 1948	a+45.49	June 9, 13-19, 1953	a+39.60	Feb. 4-6, 8-9, 1951	c+44.92
S6400	July 28, 1948	+47.36	May 28, 1953	+40.97	Jan. 26, 1951	c+46.40
S6409	Feb. 2, 1949	a+35.02	July 2, 1953	a+31.46	Feb. 15, 1951	c+34.84
S6410	Nov. 4, 1948	+48.36	Aug. 5, 1953	a+42.59	Feb. 25-26, 28, Mar. 1-7, 1951	c+47.33
S6411	Nov. 5, 1948	+32.14	Oct. 28, 1953	+28.39	Apr. 4, 1951	c+31.94
S6435	Jan. 24, 1949	+22.66	June 10, 1953	+19.05	Feb. 26, 1951	c+21.48
S6441	Jan. 26, 1949	+38.88	Apr. 25, 1953	+34.42	Nov. 24, 1950	c+38.22
S6524	July 13, 1949	+3.04	May 4, 1953	+6.66	Feb. 1, 1950	+1.61
S6532	Aug. 15, 1949	+5.52	May 27, 1953	+1.95	Feb. 27, 1950	+4.38
S6542	July 14, 1949	+7.89	May 27, 1953	+3.22	Nov. 2, 1950	+5.82
S6558	July 14, 1949	+6.23	May 1, 1953	+2.78	June 27, 1950	+4.37
S6780	Sept. 6, 1949	+5.69	May 27, 1953	+2.77	June 26, 1950	c+4.32
S7267	July 14, 1949	+7.78	May 27, 1953	+3.58	Aug. 30, 1950	(d)
S7283	Jan. 11, 1949	a+5.09	Apr. 26-27, 1953	a+1.28	Jan. 28-Feb. 2, 1950	a+3.56
S8831	Aug. 15, 1950	+8.41	Apr. 1, 1953	+6.23	Oct. 31, 1950	+7.18
S8834	Aug. 16, 1950	+14.36	Dec. 23, 1953	+9.58	Dec. 26, 1950	+12.42
S8835	Aug. 31, 1950	+11.09	May 26, 1953	+6.95	Jan. 23, 1951	+8.94
S8836	July 31, 1950	+8.88	Apr. 29, 1953	+5.61	Jan. 23, 1951	+7.04
S8837	Aug. 1, 1950	+9.71	May 26, 1953	+6.92	Dec. 26, 1950	+8.72
S8839	Aug. 16, 1950	+9.51	May 26, 1953	+6.29	Jan. 23, 1951	+8.29
S8912	Oct. 30, 1947	+37.11	Nov. 23, 1955	+32.90	Jan. 27, 1948	+36.21

a Based on recording-gage records.

b Water levels affected by tidal fluctuations; extremes not determined, as water levels were computed on different bases for period of record.

c No measurement made in December; indicated water level is the last one made in 1955.

d No measurement made in 1955.

e On April 25, 1955, the water level in feet with reference to mean sea level was 14.68.

At the time the reading was taken the area was being dewatered for the installation of sewers.

Net change in water levels in wells on Long Island, N. Y., 1955

Well no.	Net change (feet)	Well no.	Net change (feet)	Well no.	Net change (feet)	Well no.	Net change (feet)
K19	J +0.92	K1265	+1.27	N1111	+0.88	N1253	-0.32
K30	+91	K1266	....	N1113	-46	N1254	-40
K65	+1.78	K1347	....	N1115	-46	N1255	+1.48
K67	+3.24	K1495	+0.08	N1121	-1.20	N1256	+1.45
K92	+65	K1516	....	N1132	-43	N1259	+1.18
K97	....	N7	L -1.56	N1147	-58	N1263	+72
K196	....	N9	M -1.57	N1167	-44	N1264	-13
K501	....	N53	-53	N1185	-17	N1461	M +1.28
K519	J +.84	N67	L	N1204	-1.09	N1462	+1.76
K525	J	N157	M +.02	N1212	M -1.04	N1463	+58
K539	+1.91	N180	M -1.01	N1222	-24	N1464	-1.20
K889	+1.87	N511	L -0.06	N1240	-31	N1613	M -1.83
K1057	L	N575	M +1.62	N1244	M -43	N1614	+1.33
K1194	+86	N657	L +.05	N1245	M -73	N1615	....
K1198	....	N844	M +2.01	N1246	+02	N1616	+94
K1199	+99	N1102	-28	N1247	+93	N1828	+1.21
K1235	+2.31	N1104	+43	N1249	+80	N1829	+71
K1236	+1.19	N1108	+1.00	N1250	+24	N1830	-02
K1263	+62	N1109	-10	N1251	-02	N2052	M
K1264	+93	N1110	-1.63	N1252	....	N2071	L

Net change in water levels in wells on Long Island, N. Y., 1955--Continued

Well no.		Net change (feet)	Well no.		Net change (feet)	Well no.		Net change (feet)	Well no.		Net change (feet)
N2400	M	....	Q1255		+0.34	S3517		+0.06	S4827		+0.77
N2528	M	+1.43	Q1256		....	S3526		-.22	S4828	M	+ .48
N2635	M	+ .93	Q1281		....	S3532		+ .19	S4829		+ .45
N2790	M	- .33	Q1283		....	S3535		+ .43	S5517		+1.43
N3355	L	+ .54	S58	M	- .33	S3537		....	S6400		+1.09
Q64	L	+ .64	S202	L	+1.27	S3539		-1.14	S6409	L	....
Q273	L	-1.32	S929		-.07	S3543		-.19	S6410		+ .13
Q278	L	....	S1803		-.75	S3545		+1.84	S6411		+ .89
Q283	L	-2.18	S1805		+ .97	S3729		+1.54	S6435		+ .33
Q350	J	+ .35	S1806		+2.81	S3730		+1.45	S6441		-.38
Q470	L	-2.63	S1807		-.64	S3737		+1.75	S6524		-1.01
Q471	M	+ .26	S1808		-.85	S3868		....	S6532		+ .50
Q543	L	- .20	S1809		+1.06	S3869		+1.73	S6542		-.59
Q1027	L	....	S1810		+1.80	S3870		+1.56	S6558		-.52
Q1089		+ .17	S1811		-.71	S3871		+ .95	S6780		-.15
Q1222	L	-1.54	S1814		+3.00	S3955		+1.23	S7267		....
Q1225		....	S1817		+ .03	S3956		+ .54	S7283		-.13
Q1237	J	+2.55	S2146		....	S3978		-.74	S8831		-.95
Q1248		....	S2314	M	+ .94	S4134	M	-.75	S8834		-1.23
Q1249		....	S2455		-.19	S4268		+3.07	S8835		-.64
Q1250		- .13	S3496		+ .98	S4270		+4.03	S8836		-.48
Q1251		....	S3513		+1.95	S4271		-.68	S8837		-.20
Q1252		+ .04	S3514		+3.44	S4524		-1.06	S8839		+ .14
Q1253		....	S3516		+2.42	S4526		-1.24	S8912		+1.38
Q1254		....								

J Jameco gravel.

L Lloyd sand member of Raritan formation.

M Sands of Magothy(?) formation.

All other wells screened in deposits of late Pleistocene age.

Well Descriptions and Water-Level Measurements

All measurements in the following tables are referred to mean sea-level datum (Sandy Hook datum). Water levels below this datum are prefixed by a minus (-) sign. When some measurements in a table are above and others below the plane of reference, a plus (+) or minus (-) sign is placed before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference.

Kings County

K19. Comtone Co. 604 Pacific St. Lat. 40°41'00", long. 73°58'35". Drilled unused artesian well in Jameco gravel, diameter 8 to 6 inches, depth 186 feet, screen assumed at bottom. Land-surface datum is 45.3 feet above msl. Highest water level 1.11 below msl, Dec. 22, 1955; lowest 26.80 below msl, Sept. 26, 1941. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-1.77	Apr. 26	-1.34	July 26	-1.97	Nov. 4	-1.66
Feb. 21	-1.71	May 24	-1.47	Aug. 25	-2.01	Dec. 2	-1.43
Mar. 29	-1.54	June 23	-1.71	Oct. 7	-1.88	22	-1.11

K30. Detecto Scales, Inc. Park and Nostrand Aves. Lat. 40°41'50", long. 73°57'15". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 56 feet, screen assumed at bottom. Land-surface datum is 17.8 feet above msl. Highest water level 4.69 below msl, Dec. 22, 1955; lowest 29.75 below msl, Nov. 8, 1941. Records available: 1935-55.

Jan. 25	-5.21	May 25	-4.70	Aug. 25	-6.05	Nov. 4	-5.17
Feb. 21	-4.72	June 23	-4.71	Sept. 6	-6.10	Dec. 2	-4.87
Mar. 29	-4.85	July 26	-4.99	Oct. 7	-5.95	22	-4.69
Apr. 26	-4.71						

K65. A. Ludwig Co. 123 Middleton St. Lat. 40°42'15", long. 73°57'15". Drilled unused water-table well in deposits of late Pleistocene age, diameter 6 to 8 inches, depth 63 feet, screen assumed at bottom. Land-surface datum is 17.3 feet above msl. Highest water level 4.25 below msl, Dec. 22, 1955; lowest 28.34 below msl, Aug. 25, 1939. Records available: 1937-55.

Jan. 25	-5.77	Apr. 26	-5.09	July 26	-5.49	Nov. 15	-4.60
Feb. 21	-5.60	May 25	-5.22	Oct. 7	-5.48	Dec. 22	-4.25
Mar. 29	-5.63	June 23	-5.20				

K67. Young Mens Christian Association. 179 Marcy Ave. Lat. 40°42'30", long. 73°57'30". Drilled unused water-table well in deposits of late Pleistocene age, diameter 4 to 3 inches (1½-inch access pipe at top), depth 70 feet, screen assumed at bottom. Land-surface datum is 47.0 feet above msl. Highest water level 1.36 below msl, Dec. 22, 1955; lowest 20.91 below msl, Sept. 15, 1947. Records available: 1937-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-4.29	Apr. 26	-3.64	July 26	-3.37	Nov. 15	-1.89
Feb. 21	-4.20	May 25	-3.49	Aug. 25	-3.01	Dec. 22	-1.36
Mar. 28	-3.89	June 23	-3.46	Oct. 7	-2.36		

K92. St. Johns University. 75 Lewis Ave. Lat. 40°41'45", long. 73°56'15". Drilled unused water-table well in deposits of late Pleistocene age, diameter about 60 to 6 inches, depth estimated at 110 feet, screen assumed at bottom. Land-surface datum is 69.1 feet above msl. Highest water level 1.12 below msl, Nov. 15, 1955; lowest 29.69 below msl, Dec. 11, 1937. Records available: 1937-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-1.68	Apr. 26	-1.24	July 28	-1.62	Nov. 15	-1.12
Feb. 25	-1.43	May 25	-1.15	Aug. 25	-1.69	Dec. 22	-1.34
Mar. 29	-1.44	June 23	-1.56	Oct. 7	-1.27		

K97. Formerly The Borden Co. 32 Lexington Ave. Lat. 40°41'15", long. 73°57'50". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 124 feet, screen assumed at bottom. Land-surface datum is 64.2 feet above msl. Highest water level 2.23 below msl, May 24, 1955; lowest 26.58 below msl, Oct. 27, 1944. Records available: 1944-55. Jan. 25, -2.71; Feb. 25, -2.66; Apr. 28, -2.25; May 24, -2.23; June 23, -2.38; July 26, +2.45; Aug. 25, -2.46.

K196. Formerly Knickerbocker Ice Co. 12th Ave. and 37th St. Lat. 40°38'40", long. 73°59'20". Drilled unused water-table well in deposits of late Pleistocene age, diameter 10 inches (1½-inch access pipe at top), depth 128 feet, screen assumed at bottom. Land-surface datum is 79.7 feet above msl. Highest water level 7.11 above msl, Dec. 28, 1954; lowest 4.76 below msl, Mar. 5, 1944. Records available: 1942-52, 1954. No measurement made in 1955.

K501. Formerly New York Water Service Corp. 363 Dahill Rd. Lat. 40°38'20", long. 73°58'45". Drilled unused water-table well in deposits of late Pleistocene age, diameter 24 inches (1½-inch access pipe at top), depth 103 feet, screen 63-103. Land-surface datum is 46.0 feet above msl. Highest water level 5.66 above msl, May 26, 1953; lowest 4.80 below msl, June 30, 1947. Records available: 1947-55. Jan. 25, +5.11; Mar. 1, +5.17; Mar. 29, +5.04; Apr. 28, +5.17; May 24, +5.19.

K519. Formerly New York Water Service Corp. 543-45 Troy Ave. Lat. 40°39'40", long. 73°56'10". Drilled unused artesian well in Jameco gravel, diameter 28 to 18 inches, depth 239 feet, screen 196-239. Land-surface datum is 30.7 feet above msl. Highest water level 4.08 above msl, Dec. 22, 1955; lowest 18.78 below msl, June 30, 1947. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+3.31	Apr. 28	+3.53	July 26	+3.12	Nov. 15	+3.81
Feb. 25	+3.34	May 24	+3.61	Aug. 25	+3.44	Dec. 22	+4.08
Mar. 29	+3.47	June 23	+3.24	Oct. 7	+3.68		

K523. Formerly New York Water Service Corp. 267 Newkirk Ave. Lat. 40°38'00", long. 73°58'15". Drilled unused artesian well in Jameco gravel, diameter 28 to 18 inches, depth 268 feet, screen 202-268. Land-surface datum is 42.7 feet above msl. Highest water level 4.90 above msl, Aug. 26, 1952; lowest 1.91 below msl, Feb. 6, 1945. Records available: 1944-54. Measurement discontinued.

K525. Formerly New York Water Service Corp. 363 Dahill Rd. Lat. 40°38'20", long. 73°38'45". Drilled unused artesian well in Jameco gravel, diameter 28 to 18 inches, depth 300 feet, screen 260-300. Land-surface datum is 46.0 feet above msl. Highest water level 6.50 above msl, May 26, 1953; lowest 0.46 above msl, Mar. 10-13, 1947. Records available: 1945-54. No measurement made in 1955.

K539. City of New York, Department of Water Supply, Gas and Electricity. Atlantic Ave. and Logan St. Lat. 40°40'55", long. 73°52'30". Drilled unused water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 43 feet, screen assumed at bottom. Land-surface datum is 32.9 feet above msl. Highest water level 2.30 above msl, Nov. 7, 1955; lowest 8.28 below msl, Feb. 21, 1942. Records available: 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+1.52	Apr. 26	+1.94	July 26	+1.55	Nov. 7	+2.30
Feb. 21	+1.52	May 24	+1.88	Aug. 25	+2.02	Dec. 22	+2.20
Mar. 29	+1.70	June 23	+1.73	Oct. 5	+2.21		

K889. Finest Steam Laundry. 199 Bogart St. Lat. 40°42'45", long. 73°56'15". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 to 6 inches, depth 72 feet, screen 62-72. Land-surface datum is 20.8 feet above msl. Highest water level 3.74 below msl, Dec. 22, 1955; lowest 39.01 below msl, Jan. 25, 1947. Records available: 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-5.34	Apr. 26	-4.91	Aug. 25	-4.74	Nov. 15	-4.04
Feb. 25	-5.33	June 23	-4.43	Oct. 7	-4.61	Dec. 22	-3.74
Mar. 29	-5.07	July 27	-4.72				

K1057. U. S. Naval Air Station. Floyd Bennett Field. Lat. 40°35'05", long. 73°53'10". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 6 inches, depth 720 feet, screen assumed at bottom. Land-surface datum is 8.1 feet above msl. Records available: 1939-42, 1944-55. Water levels affected by tidal fluctuations; extremes not determined, as water levels were computed on different bases for period of record. May 3, +9.30.

K1194. City of New York, Department of Water Supply, Gas and Electricity. Atlantic Ave. and Nichols St. Lat. 40°41'00", long. 73°52'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 48 feet, screen 46-48. Land-surface datum is 31.8 feet above msl. Highest water level 1.45 above msl, Dec. 23, 1955; lowest 8.36 below msl, Feb. 28, Mar. 7, 1942. Records available: 1940-43, 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+0.43	Apr. 28	+0.66	July 28	+0.10	Nov. 7	+1.11
Feb. 21	+0.70	May 24	+0.48	Aug. 25	+0.80	Dec. 23	+1.45
Mar. 29	+0.61	June 23	+0.46	Oct. 5	+1.08		

K1198. City of New York, Department of Water Supply, Gas and Electricity. Cleveland and Fulton Sts. Lat. 40°40'50", long. 73°53'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 53 feet, screen 51-53. Land-surface datum is 36.8 feet above msl. Highest water level 2.26 above msl, Aug. 27, 1953; lowest 8.45 below msl, May 14, 1942. Records available: 1940-54. No measurement made in 1955.

K1199. City of New York, Department of Water Supply, Gas and Electricity. Jefferson and Howard Aves. Lat. 40°41'10", long. 73°55'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 76 feet, screen 74-76. Land-surface datum is 48.5 feet above msl. Highest water level 2.63 above msl, Dec. 22, 1955; lowest 17.17 below msl, Jan. 1, 1944. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+1.52	Apr. 26	+1.45	July 26	+1.73	Nov. 7	+1.99
Feb. 25	+1.77	May 24	+1.68	Aug. 25	+1.76	Dec. 22	+2.63
Mar. 29	+1.45	June 23	+1.76	Oct. 5	+1.87		

K1235. City of New York, Department of Water Supply, Gas and Electricity. Fulton and Pennsylvania Aves. Lat. 40°40'40", long. 73°54'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 80 feet, screen 78-80. Land-surface datum is 60.5 feet above msl. Highest water level 3.73 above msl, Dec. 22, 1955; lowest 10.65 below msl, June 27, 1942. Records available: 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+1.62	Apr. 26	+1.83	July 26	+1.67	Nov. 7	+2.59
Feb. 21	+1.68	May 24	+1.81	Aug. 25	+1.78	Dec. 22	+3.73
Mar. 29	+1.73	June 23	+1.81	Oct. 5	+2.26		

K1236. City of New York, Department of Water Supply, Gas and Electricity. Patchen and Lexington Aves. Lat. 40°41'25", long. 73°55'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 82 feet, screen 60-82. Land-surface datum is 50.9 feet above msl. Highest water level 1.56 above msl, Dec. 22, 1955; lowest 19.42 below msl, Oct. 4, 1941. Records available: 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+0.74	Apr. 26	+0.66	July 26	+0.72	Nov. 7	+1.03
Feb. 25	+0.96	May 24	+0.95	Aug. 25	+0.77	Dec. 22	+1.56
Mar. 29	+0.68	June 23	+0.90	Oct. 5	+0.95		

K1263. City of New York, Department of Water Supply, Gas and Electricity. East 16th St. and Cortelyou Rd. Lat. 40°38'30", long. 73°57'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 50 feet, screen 48-50. Land-surface datum is 35.9 feet above msl. Highest water level 5.56 above msl, Dec. 22, 1955; lowest 11.97 below msl, July 21, 1936. Records available: 1933-36, 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+5.01	Apr. 28	+5.08	July 28	+4.91	Nov. 15	+5.47
Feb. 25	+4.89	May 24	+5.14	Aug. 25	+5.33	Dec. 22	+5.56
Mar. 29	+4.94	June 23	+5.02	Oct. 7	+5.31		

K1264. City of New York, Department of Water Supply, Gas and Electricity. East 37th St. and Snyder Ave. Lat. 40°39'00", long. 73°56'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 67 feet, screen 65-67. Land-surface datum is 43.9 feet above msl. Highest water level 5.40 above msl, Dec. 2, 1955; lowest 15.56 below msl, Apr. 3, May 7, 1947. Records available: 1933-35, 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+4.61	Apr. 28	+4.75	July 26	+4.50	Nov. 4	+4.94
Feb. 25	+4.53	May 24	+4.81	Aug. 25	+4.83	Dec. 2	+5.40
Mar. 29	+4.59	June 23	+4.71	Oct. 7	+4.93	22	+5.34

K1265. City of New York, Department of Water Supply, Gas and Electricity. Riverdale Ave. and Thatford St. Lat. 40°39'40", long. 73°54'30". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 44 feet, screen 42-44. Land-surface datum is 23.2 feet above msl. Highest water level 4.60 above msl, Dec. 22, 1955; lowest 11.55 below msl, Aug. 22, 1942. Records available: 1933-35, 1941-49, 1951-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+3.51	Apr. 28	+3.75	Aug. 25	+3.81	Nov. 4	+4.07
Feb. 25	+3.49	June 23	+3.55	Oct. 7	+3.79	Dec. 22	+4.60
Mar. 29	+3.59	July 26	+3.36				

K1266. City of New York, Department of Water Supply, Gas and Electricity. Vermont and Livonia Sts. Lat. 40°39'55", long. 73°53'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 41 feet, screen 39-41. Land-surface datum is 27.7 feet above msl. Highest water level 3.07 above msl, Apr. 29, 1953; lowest 7.49 below msl, June 27, 1942. Records available: 1933-37, 1941-55. Jan. 26, +2.63; Feb. 25, +2.52.

K1347. Albee Theatre. DeKalb Ave. and Fulton St. Lat. 40°41'30", long. 73°58'55". Drilled unused water-table well in deposits of late Pleistocene age, diameter 36 inches (6-inch access pipe at top), depth 72 feet, screen assumed at bottom. Land-surface datum is 40.3 feet above msl. Highest water level 4.04 below msl, Mar. 30, 1954; lowest 24.16 below msl, Sept. 10, 1945. Records available: 1942-54. No measurement made in 1955.

K1495. City of New York, Department of Water Supply, Gas and Electricity. Avenue S and East 16th St. Lat. 40°36'20", long. 73°57'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 28 feet, screen 26-28. Land-surface datum is 18.3 feet above msl. Highest water level 4.39 above msl, May 26, 1953; lowest 1.80 above msl, Aug. 13, Dec. 17, 1947. Records available: 1936-43, 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+3.84	Apr. 28	+3.82	July 26	+3.50	Nov. 15	+4.13
Feb. 25	+3.73	May 24	+3.81	Aug. 25	+3.58	Dec. 22	+3.90
Mar. 29	+3.73	June 23	+3.81	Oct. 7	+3.75		

K1516. Formerly New York Water Service Corp. 311 Empire Blvd. Lat. 40°39'55", long. 73°57'15". Drilled unused water-table well in deposits of late Pleistocene age, diameter 12 inches (1½-inch access pipe at top), depth about 180 feet, screen assumed at bottom. Land-surface datum is 76.5 feet above msl. Highest water level 4.17 above msl, Jan. 3, 1955; lowest 21.56 below msl, June 30, 1947. Records available: 1947-55. Jan. 3, +4.17.

Nassau County

N7. Long Island State Park Commission. Remsen St. and Corona Ave., Valley Stream. Lat. 40°40'45", long. 73°41'25". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 10 to 6 inches, depth 911 feet, screen 851-911. Land-surface datum is 20.8 feet above msl. Highest water level 12.75 above msl, Mar. 9, 1941; lowest 0.56 below msl, Aug. 4, 1954. Records available: 1936-55. Recording gear removed Apr. 6.

Daily mean water level, above msl, from recorder graph

Jan.	1	+9.63	Jan.	16	+9.62	Feb.	6	+9.44	Feb.	21	+10.22
	2	9.63		17	9.62		7	9.74		22	10.31
	3	9.62		18	9.61		8	9.81		23	10.43
	4	9.63		19	9.61		9	9.79		24	10.40
	5	9.63		20	9.62		10	9.78		25	10.38
	6	9.67		21	9.60		11	9.91		26	10.32
	7	9.70		22	9.63		12	10.04		27	10.34
	8	9.65		23	9.67		13	9.89		28	10.41
	9	9.62		24	9.65		14	9.76	Mar.	1	10.50
	10	9.61		25	9.64		15	9.78		2	10.53
	11	9.60		26	9.62		16	9.82		3	10.40
	12	9.58		27	9.62		17	10.09		4	10.34
	13	9.60		28	9.60		18	10.17		5	10.35
	14	9.61	Feb.	4	9.38		19	10.19		6	10.40
	15	9.61		5	9.37		20	10.20		7	10.47

N7--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	+10.40	Mar. 18	+11.11	Mar. 28	+11.94	Apr. 25	h+11.98
9	10.41	19	11.12	29	11.87	May 31	h5.20
10	10.45	20	11.04	30	11.83	June 24	h5.15
11	10.61	21	11.06	31	11.82	Aug. 1	h.34
12	10.72	22	11.36	Apr. 1	11.89	23	h2.14
13	10.81	23	11.62	2	12.00	Oct. 3	h4.90
14	10.87	24	11.61	3	12.10	Nov. 2	h7.67
15	10.96	25	11.60	4	12.14	23	h7.63
16	11.04	26	11.73	5	12.11	Dec. 20	h8.10
17	11.08	27	11.93	6	12.22		

h Tape measurement.

N9. Long Island State Park Commission. Corona Ave. and Remsen St., Valley Stream. Lat. 40°40'50", long. 73°41'35". Drilled unused artesian well in sands of Magothy(?) formation, diameter 6 to 4 inches, depth 137 feet, screen assumed at bottom. Land-surface datum is 23.2 feet above msl. Highest water level 23.57 above msl, Sept. 23, 1938; lowest 19.23 above msl, Aug. 1, 1955. Records available: 1936-55.

Jan. 25	+20.88	Apr. 25	+14.68	Aug. 1	+19.23	Nov. 2	+20.98
Feb. 28	+20.30	May 31	+19.76	23	+21.36	23	+21.29
Mar. 29	+20.60	June 24	+19.56	Oct. 3	+20.68	Dec. 20	+19.63

j Dewatering 20 feet from the well site.

N53. Village of Rockville Center. Morris and Maple Aves. Lat. 40°39'35", long. 73°38'30". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 50 feet, screen assumed at bottom. Land-surface datum is 26.1 feet above msl. Highest water level 16.49 above msl, Apr. 15, 1939; lowest 12.05 above msl, Feb. 17, 1940. Records available: 1934-55.

Jan. 27	+14.01	Apr. 25	+14.04	Aug. 2	+12.12	Nov. 2	+13.62
Feb. 25	+13.69	May 27	+13.39	23	+13.79	23	+14.02
Mar. 29	+14.16	July 7	+12.62	Oct. 3	+13.29	Dec. 27	+13.59

N67. Village of Freeport. Sunrise Highway and Long Beach Rd. Lat. 40°39'25", long. 73°35'20". Drilled industrial artesian well in Lloyd sand member of Raritan formation, diameter 12 inches, depth 1,051 feet, screen assumed at bottom. Land-surface datum is 20.3 feet above msl. Highest water level 15.51 above msl, Dec. 5, 1946; lowest 8.15 above msl, July 28, 1954. Records available: 1932-44, 1946-50, 1952-55. Measurement made several hours after well was shut down. Jan. 4, +15.20; July 12, +9.96; Oct. 3, +11.09.

N157. Big Tree Farm. Post Rd., Wheatley. Lat. 40°48'45", long. 73°34'45". Drilled unused artesian well in sands of Magothy(?) formation, diameter 6 inches, depth 222 feet, screen assumed at bottom. Land-surface datum is 218.5 feet above msl. Highest water level 88.84 above msl, Oct. 31, 1939; lowest 75.71 above msl, May 5, 1933. Records available: 1932-55.

Jan. 24	+83.33	May 2	+83.31	Aug. 1	+82.54	Nov. 3	+83.56
Feb. 24	+83.59	24	+83.11	25	+82.66	Dec. 28	+83.76
Mar. 20	+83.23	July 1	+82.84	Oct. 4	+83.11		

N180. City of New York, Department of Water Supply, Gas and Electricity. Sunrise Highway and Seamans Neck Rd., Seaford. Lat. 40°40'20", long. 73°29'45". Drilled unused artesian well in sands of Magothy(?) formation, diameter 4 to 6 inches, depth 762 feet, screen assumed at bottom. Land-surface datum is 15.3 feet above msl. Highest water level 21.08 above msl, June 6, 1952; lowest 16.93 above msl, July 31, 1954. Records available: 1945-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+19.75	.....	.....	+19.46	+19.24	+18.76	+18.39	+17.95	+19.49	+19.38	+19.83	+18.89
2	19.88	.....	.....	19.48	19.10	18.83	18.35	17.82	19.47	19.25	19.78	18.96
3	19.82	.....	+19.18	19.40	19.08	18.92	18.17	17.68	19.51	19.20	19.83	19.12
4	19.89	.....	19.35	19.52	19.10	18.86	18.04	17.64	19.50	19.26	19.98	19.18
5	19.91	.....	19.38	19.48	19.11	18.91	17.99	17.66	19.35	19.28	19.98	19.14
6	20.04	+19.51	19.54	19.61	19.15	18.84	17.95	17.62	19.24	.....	19.94	19.09
7	19.95	19.55	19.48	19.67	19.14	18.70	18.13	17.66	19.44	.....	19.99	19.05
8	19.83	19.55	19.38	19.53	19.06	18.98	18.47	17.99	19.26	19.52	19.94	19.10
9	19.82	19.51	19.48	19.41	19.13	19.15	18.43	18.27	19.25	19.45	19.93	19.10
10	19.80	19.54	19.47	19.31	19.13	19.12	18.29	18.50	19.24	19.40	19.94	18.99
11	19.79	19.68	19.55	19.29	19.11	19.04	18.35	18.66	19.14	19.37	19.93	19.00
12	19.82	.....	19.46	19.29	18.86	19.18	18.24	18.89	19.18	19.35	19.81	18.89
13	19.93	.....	19.45	19.49	18.78	19.10	18.17	19.36	18.98	19.35	19.70	18.78
14	19.81	.....	19.36	19.53	18.79	19.02	18.20	19.49	18.92	19.64	19.81	18.80
15	19.77	19.35	19.42	19.55	18.63	18.94	18.21	19.78	19.05	19.82	19.83	19.00

N180--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	+19.77	+19.33	+19.58	+19.35	+18.57	+18.53	+18.17	+19.93	+19.03	.....	+20.01	+18.99
17	19.70	19.41	19.40	19.26	18.56	18.27	18.37	19.92	19.17	.....	19.95	18.83
18	19.56	19.38	19.42	19.27	18.65	18.18	18.27	20.00	19.08	.....	19.73	18.76
19	.....	19.31	19.37	19.36	18.52	18.16	18.14	20.12	19.15	.....	19.78	e18.73
20	.....	19.28	19.32	19.37	18.42	18.44	18.02	19.94	19.47	.....	19.82	.....
21	.....	19.31	19.40	19.34	18.36	18.50	18.04	19.80	19.34	.....	19.82	.....
22	.....	19.39	19.71	19.38	18.30	18.73	17.90	19.80	19.20e	+19.76	19.57	.....
23	.....	19.40	19.68	19.33	19.45	18.71	17.87	19.89	19.17	19.77	19.40	e18.71
24	.....	.....	19.60	19.33	19.49	18.67	17.86	19.93	19.33	19.91	19.29	18.77
25	.....	.....	19.58	19.55	18.36	18.84	18.16	19.98	19.35	19.75	19.21	18.73
26	.....	.....	19.78	19.57	18.30	18.92	18.11	19.96	19.20	19.76	19.28	18.58
27	19.58	.....	19.76	19.50	18.22	18.88	18.04	19.88	19.20	19.69	19.26	18.51
28	.....	.....	19.56	19.47	18.30	18.80	17.94	19.85	19.40	19.73	19.31	18.61
29	.....	.....	19.42	19.50	18.47	18.67	18.23	19.63	19.39	19.78	19.16	18.77
30	.....	.....	19.40	19.39	18.51	18.41	18.29	19.62	19.42	19.88	19.05	18.89
31	.....	.....	19.45	.....	18.71	.....	18.06	19.68	.....	19.89	.....	18.77

e Estimated.

N511. Irving Cox Estate. Clefts and Horseshoe Rds., Mill Neck. Lat. 40°53'35", long. 73°33'55". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 3 inches, depth 330 feet, screen 300-330. Land-surface datum is 7.0 feet above msl. Highest water level 21.52 above msl, Dec. 31, 1948; lowest 18.23 above msl, Aug. 1, 1950. Records available: 1947-55. Measurement made at or near high tide during day.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	+20.78	May 3	+21.28	Aug. 1	+18.78	Nov. 3	+21.48
Feb. 24	+21.38	25	+20.88	29	+20.08	Dec. 5	+21.18
Mar. 29	+20.98	June 23	+20.08	Oct. 4	+20.68	28	+20.58

N575. Abraham & Strauss Store. 833 Franklin Ave., Garden City. Lat. 40°43'45", long. 73°37'55". Drilled unused artesian well in sands of Magothy(?) formation, diameter 14 to 8 inches, depth 539 feet, screen 498-514, 534-539. Land-surface datum is 91.2 feet above msl. Highest water level 60.52 above msl, June 1, 1953; lowest 50.44 above msl, July 28, 1955. Records available: 1946-55.

Jan. 26	+56.10	Apr. 27	+54.22	July 28	+50.44	Nov. 3	+56.93
Feb. 23	+56.27	May 27	+51.72	Aug. 25	+54.45	29	+58.47
Apr. 4	+54.27	July 1	+51.62	Oct. 4	+57.17	Dec. 28	+57.42

N657. Town of North Hempstead. West Shore Rd., Bar Beach. Lat. 40°49'35", long. 73°39'30". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 8 inches, depth 327 feet, screen assumed at bottom. Land-surface datum is 9.0 feet above msl. Highest water level 15.67 above msl, May 2, 1953; lowest 12.78 above msl, Aug. 1, 1954. Records available: 1945-55. Water level affected by tidal fluctuations.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....e	+14.38	+14.76	+14.81	+14.74e	+14.12	+13.81	+13.15	+14.36	+14.48	+15.25	+14.55
2	.....	.....	14.30	14.98	14.63	14.11	13.79	13.12	14.37	14.48	15.28	14.84
3	+14.71	.....	14.18	15.27	14.59	14.25	13.77	13.04	14.41	14.43	15.43	14.84
4	14.74	.....	14.68	15.21	14.59	14.27	13.69	12.97	14.41	14.43	15.57	15.19
5	14.68	.....	14.70	15.04	14.63	14.34	13.64	12.90	14.39	14.49	15.54	14.96
6	14.83	14.73	14.70	15.14	14.80	14.34	13.55	12.93	14.43	14.68	15.44	14.85
7	14.24	14.82	14.31	15.12	14.70	14.42	13.63	12.95	14.45	14.58	15.37	14.89
8	14.57	14.75	14.30	14.79	14.75	14.60	13.60	12.94	14.41	14.49	15.21	14.93
9	14.58	14.73	14.57	14.79	14.73	14.58	13.56	13.04	14.37	14.48	15.23	15.01
10	14.55	14.68	14.58	14.89	14.64	e14.48	13.55	13.16	14.44	14.49	15.32	14.82
11	14.71	14.88	14.65	14.95	14.65	14.37	13.59	13.23	14.43	14.57	15.51	14.54
12	14.78	.....	14.60	15.01	14.73	e14.35	13.64	13.53	14.49	14.76	15.34	14.60
13	14.84	.....	14.75	15.04	14.70	e14.35	13.60	14.14	14.37	14.94	15.39	14.75
14	14.61	.....	14.60	14.92	14.63	14.36	13.51	14.03	14.41	15.68	15.50	14.78
15	14.84	14.61	14.68	14.93	14.63	14.34	13.55	14.11	14.43	15.65	15.47	14.93
16	14.53	14.69	14.77	15.01	14.48	14.25	13.58	14.14	14.41	15.63	15.13	14.65
17	14.44	14.86	14.28	15.00	14.43	14.17	13.53	14.21	14.38	15.08	15.10	14.68
18	14.51	14.63	14.50	14.83	14.45	14.02	13.52	14.31	14.34	15.15	14.56	14.75
19	14.84	14.68	14.54	14.96	14.38	14.00	13.45	14.50	14.48	15.13	15.31	14.91
20	e14.75	14.68	14.61	14.94	14.33	14.06	13.44	14.38	14.68	14.81	15.38	.....
21	.....	14.67	14.81	14.88	14.26	14.04	13.37	14.47	14.42	14.68	15.00	.....
22	14.83	14.73	15.41	15.00	14.09	14.07	13.36	14.41	14.30	14.76	14.96	.....
23	14.78	14.69	14.39	15.07	14.04	13.98	13.32	14.46	14.39	14.80	15.24	e14.73
24	14.76	14.54	14.81	15.20	14.08	13.90	13.23	14.57	14.54	14.72	15.03	14.93
25	14.78	14.53	14.73	15.25	14.07	13.90	13.30	14.56	14.40	14.38	15.03	14.89

N657--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+14.52	+14.52	+15.08	+14.97	+14.14	+14.00	+13.22	+14.46	+14.38	+14.68	+15.15	+14.66
27	14.50	14.59	14.18	14.87	14.04	13.97	13.17	14.54	14.38	14.74	15.15	14.87
28	14.36	14.53	14.16	14.83	13.95	13.92	13.24	14.53	14.48	14.78	15.33	e14.95
29	.....		14.70	14.87	13.97	13.94	13.29	.....	14.43	14.82	14.95	e15.02
30	14.62		14.74	14.87	13.98	13.86	13.26	e14.43	14.54	15.07	14.43	14.92
31	e14.48		14.73		.....		13.18	14.35		15.23		14.89

e Estimated.

N844. Long Island RR. Hicksville Station. Lat. 40°46'05", long. 73°31'30". Drilled unused artesian well in sands of Magothy(?) formation, diameter 10 inches, depth 258 feet, screen assumed at bottom. Land-surface datum is 149.2 feet above msl. Highest water level 85.94 above msl, June 29, 1953; lowest 78.87 above msl, Apr. 16, 1942. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+83.52	May 2	+83.67	July 28	+82.63	Nov. 9	+84.51
Feb. 24	+83.76	27	+83.68	Aug. 25	+83.31	Dec. 27	+85.39
Mar. 30	+83.82	July 5	+83.07	Sept. 29	+83.81		

N1102. Nassau County Department of Public Works. Willets Rd. near Valley Rd., Lake Success. Lat. 40°46'15", long. 73°42'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 2½ inches, depth 140 feet, screen 138-140. Land-surface datum is 185.8 feet above msl. Highest water level 59.12 above msl, May 25, 1953; lowest 53.17 above msl, Aug. 23, 1955. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+54.44	Apr. 27	+54.39	Aug. 1	+53.48	Nov. 2	+53.56
Feb. 25	+54.28	May 25	+54.49	23	+53.17	23	+53.79
Mar. 29	+54.40	June 24	+54.04	Oct. 3	+53.40	Dec. 20	+54.17

N1104. Nassau County Department of Public Works. 80th Ave. near Rhodes St., New Hyde Park. Lat. 40°45'00", long. 73°42'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 77 feet, screen 75-77. Land-surface datum is 125.4 feet above msl. Highest water level 62.17 above msl, May 25, 1953; lowest 55.27 below msl, May 1, 1942. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+58.18	Apr. 25	+57.92	Aug. 1	+56.83	Nov. 2	+58.89
Feb. 23	+58.35	May 25	+57.67	23	+57.52	23	+58.91
Mar. 29	+58.13	June 24	+57.32	Oct. 3	+58.69	Dec. 20	+58.76

N1108. Nassau County Department of Public Works. Jacob St. and Rosalind Ave., Elmont. Lat. 40°42'15", long. 73°42'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 47 feet, screen 45-47. Land-surface datum is 70.1 feet above msl. Highest water level 43.62 above msl, Apr. 28, 1939; lowest 36.49 above msl, Aug. 1, 1955. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+39.19	Apr. 25	+38.72	Aug. 1	+36.49	Nov. 2	+39.07
Feb. 28	+39.03	May 25	+38.34	23	+37.58	23	+39.49
Mar. 29	+38.70	June 24	+37.80	Oct. 3	+38.75	Dec. 20	+39.77

N1109. Nassau County Department of Public Works. Dutch Broadway and Henry St., Elmont. Lat. 40°41'15", long. 73°42'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 38 feet, screen 36-38. Land-surface datum is 42.3 feet above msl. Highest water level 30.04 above msl, Apr. 21, 1939; lowest 23.42 above msl, July 29, 1954. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+26.62	Apr. 25	+26.05	Aug. 1	+24.02	Nov. 2	+27.13
Feb. 28	+26.08	May 27	+24.73	23	+27.53	23	+27.29
Mar. 29	+26.23	June 24	+24.63	Oct. 3	+26.70	Dec. 20	+26.69

N1110. Nassau County Department of Public Works. Henry St. near Southern State Parkway, North Valley Stream. Lat. 40°40'45", long. 73°42'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 27 feet, screen 25-27. Land-surface datum is 30.9 feet above msl. Highest water level 21.05 above msl, Apr. 21, 1939, June 6, 1946; lowest 16.56 above msl, Aug. 1, 1955. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+19.55	Apr. 25	+18.19	Aug. 1	+16.56	Nov. 2	+17.45
Feb. 28	+19.05	May 26	+17.07	23	+19.70	23	+19.83
Mar. 29	+18.85	June 24	+16.71	Oct. 3	+18.97	Dec. 20	+18.13

N1111. Nassau County Department of Public Works. Fletcher and Teneyck Aves., Valley Stream. Lat. 40°40'20", long. 73°42'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 28 feet, screen 25-27. Land-surface datum is 20.4 feet above msl. Highest water level 14.79 above msl, June 6, 1946; lowest 8.14 above msl, May 26, 1955. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+13.46	Apr. 25	+13.21	Aug. 1	+12.90	Nov. 2	+14.20
Feb. 28	+14.67	May 26	+8.14	23	+14.77	23	+14.52
Mar. 29	+12.22	June 24	+12.64	Oct. 3	+13.97	Dec. 20	+14.75

j Dewatering for sewers nearby.

N1113. Nassau County Department of Public Works. DuBois Ave. and Drew St., Gibson. Lat. 40°39'00", long. 73°42'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 22 feet, screen 20-22. Land-surface datum is 10.5 feet above msl. Highest water level 7.99 above msl, Jan. 6, 1949; lowest 0.12 above msl, June 24, 1952. Records available: 1939-55. Measurements made after Apr. 30, 1952, affected by installation of storm sewers nearby.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+4.44	Mar. 29	+5.06	June 24	+3.76	Aug. 23	+5.12
Feb. 28	+4.61	May 26	+4.12	Aug. 1	+3.18	Oct. 3	+3.84

N1115. Nassau County Department of Public Works. Wood St. and Brower Ave., Woodmere. Lat. 40°37'50", long. 73°42'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 20 feet, screen 18-20. Land-surface datum is 22.8 feet above msl. Highest water level 13.05 above msl, July 14, 1948; lowest 8.57 above msl, Dec. 1, 1941. Records available: 1939-55.

Jan. 25	+11.70	Apr. 25	+11.71	Aug. 1	+10.33	Nov. 2	+11.94
Feb. 28	+11.20	May 26	+11.26	23	+12.99	23	+12.34
Mar. 29	+11.88	June 24	+10.88	Oct. 3	+11.95	Dec. 20	+11.53

N1121. Nassau County Department of Public Works. Northern Blvd. and Searingtown Rd., Strathmore Village. Lat. 40°47'50", long. 73°40'30". Drilled water-table well in deposits of late Pleistocene age, diameter 2½ inches, depth 178 feet, screen 176-178. Land-surface datum is 220.1 feet above msl. Highest water level 76.22 above msl, May 25, 1955; lowest 57.92 above msl, Nov. 3, 1955. Records available: 1943-55.

Jan. 26	+58.97	May 2	+59.95	Aug. 1	+64.54	Nov. 3	+57.92
Feb. 24	+58.95	25	+76.22	25	+64.63	Dec. 28	+58.03
Mar. 29	+59.20	July 1	+69.06	Sept. 30	+62.02		

N1132. Nassau County Department of Public Works. Sunrise Highway and Lakewood Blvd., Lynbrook. Lat. 40°39'25", long. 73°39'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 26-28. Land-surface datum is 20.9 feet above msl. Highest water level 9.77 above msl, Sept. 23, 1938; lowest 6.06 above msl, Feb. 24, 1940. Records available: 1938-55.

Jan. 25	+8.04	Apr. 25	+7.95	Aug. 2	+6.29	Nov. 2	+7.97
Feb. 25	+7.57	May 27	+7.93	23	+8.42	23	+8.34
Mar. 29	+7.93	July 7	+6.57	Oct. 3	+7.69	Dec. 20	+7.67

N1147. Nassau County Department of Public Works. Seaman Ave. near Knollwood Rd., Baldwin. Lat. 40°39'50", long. 73°37'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 23 feet, screen 21-23. Land-surface datum is 27.3 feet above msl. Highest water level 19.72 above msl, Apr. 8, 1939; lowest 15.98 above msl, Aug. 2, 1955. Records available: 1939-55.

Jan. 25	+17.35	Apr. 27	+17.25	Aug. 2	+15.98	Nov. 2	+17.05
Feb. 25	+17.02	May 27	+16.86	23	+17.54	23	+17.44
Mar. 29	+17.49	July 5	+16.32	Oct. 3	+16.83	Dec. 27	+16.91

N1167. Nassau County Department of Public Works. North Ocean and Brooklyn Aves., Freeport. Lat. 40°39'30", long. 73°35'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 28 feet, screen 26-28. Land-surface datum is 23.8 feet above msl. Highest water level 12.12 above msl, Mar. 25, 1948; lowest 8.45 above msl, Aug. 2, 1955. Records available: 1938-55.

Jan. 25	+10.06	Apr. 27	+9.71	Aug. 2	+8.45	Nov. 9	+10.10
Feb. 25	+9.55	May 27	+9.23	23	+10.11	23	+10.36
Mar. 28	+9.65	July 5	+8.98	Oct. 4	+9.48	Dec. 27	+9.83

N1185. Nassau County Department of Public Works. West Grand Ave. and Lindgren St., Merrick. Lat. 40°39'55", long. 73°33'45". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 17 feet, screen 15-17. Land-surface datum is 21.1 feet above msl. Highest water level 15.39 above msl, Apr. 8, 1939; lowest 10.01 above msl, Dec. 28, 1949. Records available: 1938-55.

Jan. 25	+14.04	Apr. 27	+13.86	Aug. 2	+11.36	Nov. 9	+13.92
Feb. 25	+13.70	June 10	+12.29	24	+13.88	23	+14.02
Mar. 28	+14.16	23	+12.10	Oct. 4	+12.69		

N1204. Nassau County Department of Public Works. Harris Ct. and John St., Bellmore. Lat. 40°40'20", long. 73°31'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 21.5 feet above msl. Highest water level 12.56 above msl, Feb. 8, 1952; lowest 5.07 above msl, Jan. 26, 1950. Records available: 1939-55.

Jan. 25	+11.76	Apr. 27	+11.52	July 28	+10.49	Nov. 9	+11.61
Feb. 25	+11.42	May 27	+11.32	Aug. 24	+11.70	29	+11.37
Mar. 28	+11.88	June 23	+11.39	Oct. 4	+10.92	Dec. 27	+10.86

N1212. Nassau County Department of Public Works. Jericho Turnpike, Locust Grove. Lat. 40°48'25", long. 73°31'20". Drilled observation artesian well in sands of Magothy(?) formation, diameter 4 inches, depth 185 feet, screen 181-185. Land-surface datum is 228.2 feet above msl. Highest water level 89.74 above msl, Oct. 6, Dec. 7, 1953; lowest 83.72 above msl, Jan. 20, 1943. Records available: 1943-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+87.22	+87.22	+87.17	+86.84	+86.65	+86.59	+86.41	+86.16	+86.48	+86.91	+87.26	+87.53
2	87.40	87.05	86.92	86.88	86.62	86.58	86.35	86.08	86.52	86.90	87.24	87.76
3	87.22	86.95	86.73	86.87	86.69	86.61	86.33	85.89	86.54	86.97	87.32	87.83
4	87.36	86.87	87.00	86.74	86.82	86.74	86.33	85.88	86.59	87.04	87.35	87.92
5	87.27	87.02	86.91	86.69	86.88	86.73	86.37	85.88	86.65	87.07	87.36	87.86
6	87.46	87.25	87.12	86.96	86.73	86.62	86.31	85.82	86.66	87.04	87.36	87.77
7	87.28	87.23	86.93	86.92	86.69	86.61	86.29	85.91	86.69	87.08	87.35	87.84
8	87.21	86.96	86.82	86.66	86.78	86.67	86.33	85.86	86.55	87.08	87.37	87.89
9	87.32	86.83	86.98	86.64	86.64	86.69	86.36	85.82	86.57	87.06	87.40	87.99
10	87.25	86.96	86.87	86.77	86.67	86.60	86.37	85.90	86.68	87.14	87.40	87.73
11	87.19	87.07	86.98	86.74	86.74	86.63	86.36	86.08	86.83	87.14	87.41	87.84
12	87.25	86.88	86.77	86.61	86.66	86.80	86.32	86.11	86.73	87.16	87.41	87.86
13	87.43	86.73	86.81	86.68	86.68	86.71	86.27	86.13	86.57	87.12	87.42	87.81
14	87.19	86.83	86.68	86.82	86.72	86.64	86.39	85.90	86.70	87.24	87.43	87.91
15	87.29	87.04	86.91	86.96	86.63	86.59	86.38	86.06	86.87	87.22	87.45	88.16
16	87.19	86.92	87.11	86.67	86.75	86.56	86.35	86.18	86.73	87.25	87.46	87.93
17	87.14	87.01	86.72	86.66	86.67	86.43	86.36	86.16	86.67	87.23	87.48	87.91
18	87.10	86.90	86.93	86.75	86.70	86.41	86.34	86.26	86.83	87.20	87.46	87.97
19	87.22	86.88	86.77	86.92	86.70	86.53	86.26	86.31	86.92	87.16	87.49	87.94
20	87.09	86.86	86.76	86.69	86.55	86.62	86.17	86.23	87.00	87.04	87.50	87.88
21	87.12	86.91	86.98	86.83	86.50	86.51	86.27	86.27	86.67	.....	87.50	87.99
22	87.36	87.07	87.16	86.87	86.53	86.47	86.22	86.33	86.70	87.28	87.51	88.15
23	87.16	87.02	86.90	86.79	86.72	86.38	86.21	86.36	86.74	87.08	87.52	88.00
24	87.13	86.83	86.87	86.74	86.74	86.43	86.16	86.27	86.92	87.14	87.54	88.18
25	87.16	86.85	86.78	86.87	86.71	86.44	86.12	86.31	86.82	87.37	87.54	88.11
26	87.08	86.87	87.07	86.76	86.56	86.49	86.04	86.42	86.74	.....	87.55	87.93
27	87.17	87.12	86.99	86.71	86.46	86.41	86.02	86.50	86.90	.....	87.55	87.87
28	87.07	87.05	86.83	86.75	86.60	86.39	86.03	86.43	87.04	.....	87.57	87.79
29	87.10	86.86	86.75	86.81	86.76	86.39	86.03	86.47	86.87	87.25	87.58	88.11
30	87.08	86.86	86.73	86.67	86.67	86.39	86.00	86.52	86.96	87.31	87.58	88.25
31	86.98	86.80	86.80	86.63	86.63	86.06	86.53	86.53	86.53	87.26	87.58	88.20

e Estimated.

N1222. Nassau County Department of Public Works. Cecelia Place and John St., Seaford. Lat. 40°40'25", long. 73°29'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 21.2 feet above msl. Highest water level 9.80 above msl, Mar. 30, 1953; lowest 1.27 above msl, Jan. 31, 1942. Records available: 1939-55. Water levels affected by nearby pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+9.20	Apr. 27	+9.15	July 28	+8.46	Nov. 9	+9.67
Feb. 25	+9.04	May 27	+8.94	Aug. 24	+9.64	22	+9.68
Mar. 28	+9.38	June 23	+8.99	Sept. 20	+9.08	Dec. 27	+9.15

N1240. Nassau County Department of Public Works. Manhattan Ave., Massapequa Park. Lat. 40°40'40", long. 73°27'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 28 feet, screen 26-28. Land-surface datum is 23.0 feet above msl. Highest water level 11.45 above msl, Mar. 30, 1953; lowest 1.08 below msl, Jan. 24, 1942. Records available: 1939-55. Water levels affected by nearby pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+10.51	Apr. 27	+10.57	July 28	+9.82	Nov. 9	+11.04
Feb. 25	+10.26	May 27	+10.25	Aug. 24	+11.23	29	+10.88
Mar. 28	+10.85	June 23	+9.97	Sept. 26	+10.48	Dec. 27	+10.46

N1244. Nassau County Department of Public Works. Jericho Turnpike and Avery Rd., Syosset. Lat. 40°49'15", long. 73°27'15". Drilled observation water-table well in sands of Magothy(?) formation, diameter 4 inches, depth 259 feet, screen 255-259. Land-surface datum is 248.9 feet above msl. Highest water level 76.50 above msl, May 31, 1940; lowest 71.07 above msl, June 4, 1951. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+74.18	May 2	+73.75	Aug. 2	+73.47	Nov. 9	+73.64
Feb. 24	+73.99	24	+73.70	24	+73.44	Dec. 28	+73.89
Mar. 30	+73.89	July 1	+73.57	Sept. 26	+73.44		

N1245. Nassau County Department of Public Works. Plainview Rd. and Northern State Parkway, Plainview. Lat. 40°48'25", long. 73°27'00". Drilled observation artesian well in sands of Magothy(?) formation, diameter 2½ inches, depth 202 feet, screen 198-202. Land-surface datum is 259.9 feet above msl. Highest water level 82.88 above msl, Feb. 2, 1940; lowest 75.63 above msl, June 4, 1951. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+79.14	May 2	+78.60	Aug. 2	+78.39	Nov. 9	+78.50
Feb. 24	+80.63	24	+78.61	24	+78.18	Dec. 29	+78.53
Mar. 30	+78.83	July 7	+78.41	Sept. 26	+78.10		

N1246. Nassau County Department of Public Works. Plainview and Melville Rds., Plainview. Lat. 40°47'00", long. 73°26'50". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 125 feet, screen 121-125. Land-surface datum is 185.1 feet above msl. Highest water level 82.71 above msl, Oct. 29, 1953; lowest 76.85 above msl, Apr. 24, 1951. Records available: 1940-55.

Jan. 24	+79.66	Apr. 27	+79.62	Aug. 2	+79.35	Nov. 9	+79.52
Feb. 24	+79.54	May 24	+79.70	24	+79.14	Dec. 28	+79.81
Mar. 30	+79.60	July 25	+79.55	Sept. 26	+79.11		

N1247. Nassau County Department of Public Works. Near Motor Parkway, Bethpage. Lat. 40°45'55", long. 73°26'30". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 110 feet, screen 108-110. Land-surface datum is 157.1 feet above msl. Highest water level 76.98 above msl, July 28, 1939; lowest 70.52 above msl, July 31, 1942. Records available: 1939-55.

Jan. 24	+73.19	Apr. 27	+73.36	Aug. 2	+72.89	Nov. 9	+73.37
Feb. 24	+73.17	May 24	+73.48	24	+72.83	29	+74.33
Mar. 28	+73.33	July 5	+73.13	Sept. 26	+72.89	Dec. 28	+73.99

N1249. Nassau County Department of Public Works. Secatogue Ave. and Wall St., Farmingdale. Lat. 40°43'50", long. 73°26'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 34 feet, screen 32-34. Land-surface datum is 67.8 feet above msl. Highest water level 58.18 above msl, Apr. 21, 1939; lowest 50.34 above msl, Jan. 30, 1942. Records available: 1939-55.

Jan. 24	+54.53	Apr. 27	+54.42	July 28	+52.75	Nov. 9	+56.22
Feb. 25	+53.99	May 24	+53.94	Aug. 24	+55.51	29	+56.29
Mar. 28	+54.54	July 5	+53.14	Sept. 26	+54.59	Dec. 27	+55.34

N1250. Nassau County Department of Public Works. Old Carmans Rd., Farmingdale. Lat. 40°43'15", long. 73°26'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 34 feet, screen 32-34. Land-surface datum is 62.2 feet above msl. Highest water level 49.79 above msl, Apr. 28, 1953; lowest 43.20 above msl, Jan. 30, 1942. Records available: 1939-55.

Jan. 24	+47.24	Apr. 27	+47.02	July 28	+45.14	Sept. 26	+46.99
Feb. 25	+46.58	May 24	+46.46	Aug. 24	+48.01	Dec. 27	+47.57
Mar. 28	+47.22	June 23	+45.79				

N1251. Nassau County Department of Public Works. County Line Rd. and Southern State Parkway, Farmingdale. Lat. 40°42'40", long. 73°25'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 48.9 feet above msl. Highest water level 40.95 above msl, Apr. 28, 1953; lowest 35.57 above msl, Jan. 30, 1942. Records available: 1939-55.

Jan. 24	+39.19	Apr. 27	+39.01	July 28	+37.25	Nov. 9	+40.33
Feb. 25	+38.67	May 24	+38.50	Aug. 24	+39.90	29	+40.15
Mar. 28	+39.39	June 23	+37.88	Sept. 26	+38.83	Dec. 27	+39.31

N1252. Nassau County Department of Public Works. County Line Rd. and Smith St., Amityville. Lat. 40°41'40", long. 73°25'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 26 feet, screen 24-26. Land-surface datum is 29.3 feet above msl. Highest water level 26.51 above msl, Mar. 30, 1953; lowest 22.48 above msl, Jan. 30, 1942. Records available: 1939-55. Jan. 24, +25.49; Feb. 25, +25.09; Mar. 28, +25.54; Apr. 27, +25.38; May 27, +24.84; July 5, +24.21; July 28, +23.91.

N1253. Nassau County Department of Public Works. Clocks Blvd. and Pine St., Amityville. Lat. 40°40'55", long. 73°25'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 28.5 feet above msl. Highest water level 16.93 above msl, Mar. 30, 1953; lowest 11.31 above msl, Jan. 31, 1942. Records available: 1939-55.

Jan. 24	+15.66	Apr. 27	+15.48	July 28	+13.96	Nov. 9	+15.99
Feb. 25	+15.18	May 27	+14.83	Aug. 24	+16.22	Dec. 27	+15.56
Mar. 28	+15.69	June 25	+14.48	Sept. 26	+15.11		

N1254. Nassau County Department of Public Works. County Line and Merrick Rds., Amityville. Lat. 40°40'20", long. 73°25'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 14.0 feet above msl. Highest water level 4.70 above msl, Mar. 30, 1953; lowest 2.35 above msl, Dec. 29, 1949. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+4.07	Apr. 27	+4.18	July 28	+3.44	Nov. 9	+4.28
Feb. 25	+3.66	May 27	+3.69	Aug. 24	+4.52	29	+4.12
Mar. 28	+3.45	June 23	+3.81	Sept. 26	+3.73	Dec. 27	+3.53

N1255. Nassau County Department of Public Works. Clinton Rd. near St. James St., Garden City. Lat. 40°43'45", long. 73°37'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 35 feet, screen 33-35. Land-surface datum is 79.4 feet above msl. Highest water level 65.59 above msl, Apr. 15, 1939; lowest 57.11 above msl, Aug. 2, 1955. Records available: 1913-18, 1934-55.

Jan. 25	+60.55	Apr. 26	+60.21	Aug. 2	+57.11	Nov. 4	+60.84
Feb. 23	+60.19	May 27	+59.08	25	+60.34	22	+61.64
Mar. 28	+60.44	June 30	+58.29	Oct. 4	+59.84	Dec. 27	+61.07

N1256. Nassau County Department of Public Works. Hillside Ave. and Bacon Rd., Westbury. Lat. 40°45'40", long. 73°37'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 51 feet, screen 49-51. Land-surface datum is 112.3 feet above msl. Highest water level 80.97 above msl, May 20, 1939; lowest 70.30 above msl, Feb. 27, 1933. Records available: 1913-18, 1932-55.

Jan. 24	+77.22	May 2	+77.31	July 28	+76.26	Nov. 1	+77.69
Feb. 24	+77.11	24	+76.76	Aug. 25	+77.01	29	+78.64
Mar. 28	+77.23	June 23	+76.67	Sept. 26	+77.34	Dec. 27	+78.39

N1259. U. S. Geol. Survey. Hicksville-Massapequa Rd., Plainedge. Lat. 40°43'15", long. 73°29'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 48 feet, screen 46-48. Land-surface datum is 78.4 feet above msl. Highest water level 56.99 above msl, June 23, 1952; lowest 47.83 above msl, Jan. 24, 1933. Records available: 1909-10, 1912-16, 1930-35, 1937-55.

Jan. 24	+53.93	Apr. 27	+53.64	July 28	+51.91	Oct. 28	+54.77
Feb. 24	+53.55	May 24	+53.18	Aug. 24	+53.89	Nov. 22	+55.50
Mar. 28	+53.62	June 27	+52.47	Sept. 26	+53.87	Dec. 27	+54.92

N1263. Nassau County Department of Public Works. Wantagh Ave. and Miller Place, Central Park. Lat. 40°43'00", long. 73°29'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 29 feet, screen 27-29. Land-surface datum is 66.0 feet above msl. Highest water level 55.24 above msl, June 23, 1952; lowest 46.22 above msl, Oct. 31, 1932. Records available: 1911-15, 1931-55.

Jan. 24	+52.15	Apr. 27	+51.84	July 28	+50.11	Nov. 4	+53.54
Feb. 24	+51.79	May 24	+51.29	Aug. 24	+52.66	22	+53.69
Mar. 28	+52.03	June 30	+50.80	Sept. 26	+52.31	Dec. 27	+52.87

N1264. City of New York, Department of Water Supply, Gas and Electricity. Newbridge Rd. near Sunrise Highway, Bellmore. Lat. 40°39'55", long. 73°32'20". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 26 feet, screen 24-26. Land-surface datum is 13.7 feet above msl. Highest water level 9.41 above msl, Apr. 8, 1939; lowest 2.70 above msl, Feb. 17, 1940. Records available: 1932-36, 1937-55.

Jan. 25	+8.48	June 10	+7.72	Aug. 24	+8.94	Nov. 9	+8.57
Feb. 25	+7.79	23	+8.02	Oct. 4	+7.95	29	+8.07
Mar. 28	+8.22	July 28	+7.42				

N1461. Nassau County Department of Public Works. New South Rd. and Long Island RR., Hicksville. Lat. 40°45'25", long. 73°30'20". Drilled observation artesian well in sands of Magogy(?) formation, diameter 6 inches, depth 73 feet, screen 63-73. Land-surface datum is 129.5 feet above msl. Highest water level 81.06 above msl, May 2, 1953; lowest 74.34 above msl, Oct. 10, 1943. Records available: 1943-55.

Jan. 5	+78.90	Feb. 2	+79.17	Apr. 27	+79.20	Sept. 8	+77.29
12	78.99	8	79.23	June 1	79.24	29	77.75
19	79.07	23	79.33	July 6	77.29	Nov. 22	79.80
26	79.14	Apr. 13	79.33	Aug. 5	77.13	Dec. 2	80.13

N1462. Nassau County Department of Public Works. Mallard Rd. and Neptune Lane, Levittown. Lat. 40°43'55", long. 73°30'20". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 52 feet, screen 42-52. Land-surface datum is 95.0 feet above msl. Highest water level 67.78 above msl, May 18, 1953; lowest 61.26 above msl, Nov. 1, 1947. Records available: 1943-55.

N1462--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+65.59	Feb. 2	+65.50	Apr. 27	+65.24	Sept. 8	+65.30
12	65.68	8	65.65	June 1	64.39	29	65.36
19	65.72	23	65.38	July 6	63.72	Nov. 22	67.06
26	65.60	Apr. 13	65.34	Aug. 5	63.07	Dec. 2	67.12

N1463. Nassau County Department of Public Works. Seamans Neck Rd. near Southern State Parkway, Jerusalem. Lat. 40°41'50", long. 73°29'35". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 31 feet, screen 21-31. Land-surface datum is 50.7 feet above msl. Highest water level 42.91 above msl, June 7, 1952; lowest 36.33 above msl, Aug. 5, 1955. Records available: 1943-55.

Jan. 5	+39.10	Feb. 8	+38.61	June 1	+37.47	Oct. 4	+38.30
12	39.05	23	38.38	July 6	36.89	Nov. 9	39.76
19	38.90	Apr. 13	38.60	Aug. 5	36.33	22	39.97
26	38.71	27	38.41	Sept. 8	38.77	Dec. 2	39.51
Feb. 2	38.65						

N1464. Nassau County Department of Public Works. Seaford Woods, Seaford. Lat. 40°40'50", long. 73°29'25". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches (1½-inch access pipe at top), depth 41 feet, perforations 31-41. Land-surface datum is 28.8 feet above msl. Highest water level 17.59 above msl, Apr. 29, 1944; lowest 12.22 above msl, Jan. 26, 1950. Records available: 1943-55. Water levels affected by nearby pumping.

Jan. 24	+16.50	Apr. 27	+16.18	July 28	+14.87	Nov. 9	+16.81
Feb. 25	+16.15	May 27	+15.53	Aug. 24	+16.79	22	+16.74
Mar. 28	+16.68	June 23	+15.68	Sept. 26	+15.68	Dec. 27	+15.61

N1613. Long Island State Park Commission. North Valley Stream State Park, Valley Stream. Lat. 40°41'00", long. 73°41'20". Drilled unused artesian well in sands of Magdohy(?) formation, diameter 6 inches (1½-inch access pipe at top), depth 496 feet, screen assumed at bottom. Land-surface datum is 24.4 feet above msl. Highest water level 24.56 above msl, July 28, 1948; lowest 14.76 above msl, Aug. 1, 1955. Records available: 1940-55.

Jan. 25	+21.39	Apr. 25	+19.36	Aug. 1	+14.76	Nov. 2	+21.46
Feb. 28	+20.90	May 31	+18.58	23	+21.02	23	+21.88
Mar. 29	+19.82	June 24	+17.09	Oct. 3	+20.68	Dec. 20	+19.76

N1614. Nassau County Department of Public Works. Herricks Rd. and Sally Place, Mineola. Lat. 40°44'45", long. 73°39'30". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 40 feet, screen 38-40. Land-surface datum is 100.7 feet above msl. Well replaced July 1953, formerly reported as diameter 2 inches, depth 35 feet, screen 33-35. Highest water level 72.48 above msl, May 31, 1949; lowest 61.90 above msl, Feb. 27, 1933. Records available: 1913-17, 1932-35, 1940-55.

Jan. 24	+68.30	Apr. 26	+67.94	Aug. 2	+65.56	Nov. 3	+69.45
Feb. 24	+68.06	May 27	+67.26	25	+69.74	29	+69.99
Mar. 30	+68.07	June 30	+66.48	Sept. 30	+69.01	Dec. 21	+69.47

N1615. Nassau County Department of Public Works. Merrick Ave. near Wilson Rd., East Meadow. Lat. 40°42'10", long. 73°34'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 24 feet, screen 22-24. Land-surface datum is 62.8 feet above msl. Well replaced June 1955, formerly reported as diameter 1½ inches, depth 26 feet, screen 24-26. Highest water level 47.17 above msl, Mar. 28, 1939; lowest 41.49 above msl, Oct. 27, 1932. Records available: 1913-15, 1932-55.

June 7	+43.12	July 28	+42.06	Oct. 4	+43.23	Nov. 29	+44.57
23	+42.83	Aug. 25	+44.15	Nov. 4	+44.58	Dec. 27	+43.92

N1616. Nassau County Department of Public Works. Post Ave. and Argyle Rd., Westbury. Lat. 40°45'55", long. 73°35'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 51 feet, screen 49-51. Land-surface datum is 122.8 feet above msl. Highest water level 85.42 above msl, June 1, 1939; lowest 74.05 above msl, Feb. 27, 1933. Records available: 1913-15, 1932-55.

Jan. 25	+82.30	May 2	+82.50	July 28	+81.35	Nov. 1	+83.00
Feb. 24	+82.47	24	+82.30	Aug. 25	+82.00	29	+82.97
Mar. 28	+82.42	June 23	+82.03	Sept. 26	+82.27	Dec. 27	+83.25

N1828. Nassau County Department of Public Works. Melville Rd. and Suffolk County Line, Farmingdale. Lat. 40°44'45", long. 73°26'20". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 35 feet, screen 25-35. Land-surface datum is 81.9 feet above msl. Highest water level 64.52 above msl, Apr. 28, 1953; lowest 57.80 above msl, Dec. 19, 1950. Records available: 1939-55.

Jan. 24	+61.18	Apr. 27	+61.22	July 28	+59.47	Nov. 9	+62.55
Feb. 25	+59.74	May 24	+60.79	Aug. 24	+61.49	Dec. 27	+62.24
Mar. 28	+61.17	July 5	+59.94	Sept. 26	+60.91		

N1829. Nassau County Department of Public Works. Stewart Ave. near Post Ave., Westbury. Lat. 40°44'10", long. 73°34'40". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 27 feet, screen 17-27. Land-surface datum is 76.7 feet above msl. Highest water level 69.43 above msl, Apr. 28, 1953; lowest 66.00 above msl, Jan. 29, 1951. Records available: 1938-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+68.57	Apr. 26	+68.12	July 28	+66.69	Nov. 9	+68.87
Feb. 23	+68.21	May 24	+67.75	Aug. 25	+68.37	22	+69.01
Mar. 28	+68.27	June 23	+67.68	Sept. 26	+68.02	Dec. 27	+68.95

N1830. Nassau County Department of Public Works. South Tyson Ave. near Long Island RR., Floral Park. Lat. 40°43'40", long. 73°42'20". Drilled observation water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 65 feet, screen 55-65. Land-surface datum is 95.0 feet above msl. Highest water level 54.23 above msl, May 31, 1949; lowest 47.94 above msl, Aug. 1, 1955. Records available: 1939-55.

Jan. 25	+49.77	Apr. 25	+49.26	Aug. 1	+47.94	Nov. 2	+49.57
Feb. 23	+49.72	May 25	+48.93	23	+49.23	23	+49.56
Mar. 29	+49.50	June 24	+48.48	Oct. 3	+49.67	Dec. 20	+49.62

N2052. Port Washington Water District. Hewlett Lane, Port Washington. Lat. 40°48'45", long. 73°39'40". Drilled municipal artesian well in sands of Magothy(?) formation, diameter 12 to 8 to 6 inches, depth 303 feet, screen 283-303. Land-surface datum is 157.9 feet above msl. Highest water level 34.95 above msl, Nov. 5, 1952; lowest 29.71 above msl, Mar. 14, 1946. Records available: 1946-55. Jan. 27, +33.39; Feb. 25, +33.23; Apr. 1, +33.30; Apr. 18, +33.49.

N2071. Appleby Estate. Herb Hill Rd. near site of Columbia Ribbon & Carbon Mfg. Co., Glen Cove. Lat. 40°51'30", long. 73°38'35". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 8 inches (2½-inch access pipe at top), depth 266 feet, screen assumed at bottom. Land-surface datum is 5.1 feet above msl. Highest water level 14.62 above msl, Mar. 15, 1946; lowest 4.76 above msl, May 25, 1955. Records available: 1946-51, 1954-55. Measurements made at or near high tide.

Feb. 8	+9.49	Mar. 29	+8.39	June 23	+4.89	Aug. 29	+8.48
8	+9.50	May 2	+9.74	27	+6.24	Oct. 4	+7.91
Mar. 7	+10.19	25	+4.76	Aug. 1	+6.31		

N2400. Roslyn Water District. Old Westbury Rd. and Locust Valley Lane, Roslyn. Lat. 40°47'10", long. 73°38'00". Drilled municipal artesian well in sands of Magothy(?) formation, diameter 18 inches, depth 439 feet, screen 399-439. Land-surface datum is 165.6 feet above msl. Highest water level 74.10 above msl, Sept. 30, 1949; lowest 70.04 above msl, Feb. 28, 1951. Records available: 1947-55. Apr. 26, +73.17; Oct. 26, +74.07.

N2528. Nassau County Department of Public Works. Southwest corner of Chicken Valley and Wolver Hollow Rds., Upper Brookville. Lat. 40°51'00", long. 73°34'40". Drilled observation artesian well in sands of Magothy(?) formation, diameter 6 to 4 inches, depth 282 feet, slotted 278-282. Land-surface datum is 92.5 feet above msl. Highest water level 72.32 above msl, June 26, 1953; lowest 68.03 above msl, Jan. 22, 30, 1951. Records available: 1947-55.

Jan. 27	+69.88	May 2	+70.28	Aug. 1	+69.71	Nov. 3	+70.83
Feb. 24	+69.96	25	+70.28	25	+71.18	29	+71.27
Mar. 29	+70.16	June 23	+70.01	Oct. 4	+70.61	Dec. 28	+71.18

N2635. Nassau County Department of Public Works. Washington St. and Webster Ave., Port Washington. Lat. 40°49'40", long. 73°41'55". Drilled observation artesian well in sands of Magothy(?) formation, diameter 6 to 4 inches, depth 154 feet, slotted 150-154. Land-surface datum is 40.3 feet above msl. Highest water level 27.87 above msl, May 23, 27, 31, June 1, 1953; lowest 23.77 above msl, Jan. 22-23, 1951. Records available: 1948-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+24.87	+24.83	+24.95	+25.15	+25.21	+25.21	+24.99	+24.82	+25.68	+25.63	+25.90	+25.88
2	24.89	24.82	24.93	25.17	25.19	25.20	24.98	24.81	25.66	25.60	25.89	25.88
3	24.88	24.80	24.89	25.18	25.19	25.19	24.96	24.77	25.66	25.59	25.88	25.91
4	24.89	24.76	24.95	25.19	25.21	25.20	24.94	24.75	25.66	25.59	25.95	25.92
5	24.80	24.77	24.89	25.17	25.26	25.21	24.93	24.74	25.67	25.59	25.98	25.92
6	24.93	24.83	25.00	25.20	25.26	25.18	24.94	24.72	25.67	25.62	25.98	25.90
7	24.92	24.90	24.99	25.22	25.24	25.15	25.05	24.72	25.68	25.65	25.97	25.88
8	24.90	24.86	25.94	25.19	25.26	25.16	25.05	24.76	25.63	25.66	25.98	25.85
9	24.90	24.85	24.99	25.16	25.24	25.17	25.07	24.75	25.61	25.64	25.98	25.83
10	24.90	24.85	24.98	25.17	25.23	25.15	25.09	24.74	25.62	25.64	25.99	25.81

N2635--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	+24.88	+24.90	+25.00	+25.17	+25.23	+25.15	+25.12	+24.77	+25.63	+25.64	+26.02	.....
12	24.88	24.88	24.98	25.14	25.21	25.19	25.10	25.21	25.64	25.63	25.99	.....
13	24.92	24.82	24.99	25.16	25.20	25.18	25.08	.....	25.59	25.62	25.97	.....
14	24.90	24.80	24.95	25.18	25.20	25.15	25.08	.....	25.59	25.67	25.99	.....
15	24.90	24.85	24.98	25.22	25.19	25.14	25.07	.....	25.62	25.77	25.98	.....
16	24.90	24.84	25.06	25.19	.....	25.11	25.06	.....	25.61	25.87	26.04	.....
17	24.87	24.86	25.02	25.17	.....	25.06	25.05	e25.80	25.60	25.93	25.99	.....
18	24.86	24.85	25.03	25.18	25.23	25.01	25.02	25.92	25.60	25.96	e25.98	.....
19	24.85	24.84	25.02	25.21	25.21	25.01	24.99	25.97	25.62	25.97	.....	.....
20	24.85	24.83	24.99	25.19	25.18	25.07	24.95	25.92	25.66	25.95	25.99	.....
21	24.83	24.83	25.02	25.20	25.15	25.07	24.95	25.90	25.63	25.95	e25.98	.....
22	24.87	24.85	25.13	25.22	25.14	25.06	24.93	25.88	25.59	25.91	.....	.....
23	24.86	24.88	25.14	25.22	25.18	25.04	24.92	25.86	25.58	25.91	.....	.....
24	24.85	24.87	25.13	25.21	25.23	25.05	24.91	25.81	25.63	25.95	.....	.....
25	24.85	24.86	25.11	25.24	25.25	25.08	24.90	25.81	25.64	25.93	.....	.....
26	24.83	24.86	25.18	25.25	25.22	25.12	24.86	25.80	25.59	25.92	.....	.....
27	24.84	24.88	25.20	25.23	25.17	25.09	24.85	25.79	25.58	25.89	.....	.....
28	24.82	24.91	25.17	25.21	25.15	25.00	24.84	25.77	25.65	25.87	.....	.....
29	24.82		25.14	25.24	25.18	25.01	24.84	25.75	25.63	25.87	.....	.....
30	24.82		25.13	25.23	25.19	24.99	24.83	25.72	25.63	25.93	25.91e	25.81
31	24.79		25.13		25.20		24.82	25.69		25.92		25.81

e Estimated.

N2790. U. S. Geol. Survey and Nassau County Department of Public Works. Second Ave. near Williamson Ave., Bay Park. Lat. 40°38'05", long. 73°39'50". Drilled observation artesian well in sands of Magothy(?) formation, diameter 8 to 4 inches, depth 560 feet, screen 538-560. Land-surface datum is 4.1 feet above msl. Highest water level 5.98 above msl, Mar. 26, Apr. 13, 1953; lowest 2.61 above msl, Aug. 4, 1955. Records available: 1950-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+5.01	....	+4.93	+4.93	+5.13	+3.96	+3.39	+3.17	+4.84	+4.76	+4.93	+4.57
2	5.19	....	4.74	5.01	5.03	4.10	3.49	2.95	4.75	4.76	5.05	4.79
3	5.10	....	4.51	5.07	4.97	4.25	3.38	2.69	4.74	4.74	5.19	4.83
4	5.30	....	4.83	5.15	4.98	4.27	3.14	2.61	4.74	4.72	5.24	4.94
5	5.29	....	4.99	5.22	5.01	4.25	3.88	2.77	4.69	4.70	5.31	4.98
6	5.46	+4.70	5.10	5.27	5.04	4.21	2.93	2.82	4.63	4.78	5.37	4.88
7	5.19	4.93	4.94	5.23	4.93	4.12	3.00	2.83	4.64	4.93	5.30	4.94
8	5.11	4.81	4.77	4.94	4.95	4.20	3.14	3.09	4.47	4.89	5.19	5.03
9	5.18	4.80	4.86	4.88	4.81	4.58	3.10	3.53	4.41	4.77	5.13	5.14
10	5.15	4.79	4.87	4.90	4.77	4.53	3.06	3.75	4.41	4.79	5.18	5.00
11	5.21	4.87	4.99	4.88	4.74	4.41	3.25	3.92	4.44	4.77	5.29	4.89
12	5.30	....	4.88	4.84	4.60	4.53	3.28	4.28	4.45	4.81	5.15	4.79
13	5.37	....	4.89	4.97	4.35	4.53	3.17	5.12	4.32	4.90	5.13	4.81
14	....	....	4.80	4.99	4.34	4.42	3.02	5.24	4.33	5.34	5.27	4.85
15	e5.16	....	4.85	5.04	4.19	4.32	2.92	5.33	4.38	5.62	5.24	5.00
16	5.01	4.60	5.04	4.97	4.10	4.04	2.94	5.35	4.26	5.81	5.41	4.81
17	e4.85	4.72	4.68	4.97	4.05	3.73	3.19	5.33	4.23	5.68	5.13	4.75
18	e4.71	4.65	4.70	4.94	4.08	3.44	3.35	5.46	4.20	5.57	4.82	4.75
19	e4.85	4.66	4.66	4.96	3.88	3.37	3.10	5.54	4.28	5.45	5.07	4.77
20	....	4.64	4.66	5.00	3.67	3.65	....	5.44	4.52	5.29	5.17	4.62
21	....	4.67	4.76	5.06	3.44	3.67	e2.89	5.37	4.43	5.16	5.22	....
22	4.97	4.78	5.29	5.17	3.33	3.58	2.74	5.31	4.27	5.02	4.95	....
23	4.91	4.81	5.10	5.20	3.56	3.49	2.67	5.26	4.23	5.03	5.12	e4.70
24	4.90	4.71	5.06	5.24	3.65	3.39	2.68	5.24	4.57	5.11	5.02	4.85
25	4.93	4.72	5.06	5.42	3.53	3.70	3.08	5.29	4.61	4.84	4.98	4.78
26	4.79	4.71	5.32	5.36	3.36	4.02	3.31	5.25	4.58	4.90	5.02	4.57
27	4.78	4.80	....	5.31	3.22	4.10	3.32	5.19	4.59	4.79	4.98	4.57
28	....	4.78	....	5.25	3.33	4.08	3.21	5.12	4.69	4.76	5.13	4.62
29	....	....	4.73	5.24	3.68	3.88	3.34	5.03	4.69	4.78	4.94	4.72
30	....	....	4.77	5.20	3.66	3.61	3.39	4.97	4.81	5.02	4.65	e4.73
31	....	....	4.86	....	3.78	....	3.32	4.93	....	5.02	....	e4.71

e Estimated.

N3355. Nassau County Department of Public Works. Old Country and Round Swamp Rds., Plainview. Lat. 40°46'25", long. 73°26'55". Drilled observation artesian well in Lloyd sand member of Raritan formation, diameter 8 to 4 inches, depth 1,090 feet, screen 1,070-1,090. Land-surface datum is 183.3 feet above msl. Highest water level 35.26 above msl, Apr. 25, 1955; lowest 31.17 above msl, Sept. 30, 1951. Records available: 1951-55.

Daily mean water level, above msl, from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+34.07	+34.17	+34.61	+34.89	+35.00	+34.27	+33.53	+32.38	+32.33	+32.56	+33.56	+34.04
2	34.22	34.13	34.49	34.96	34.90	34.20	33.48	32.41	32.32	32.49	33.52	34.10
3	34.13	34.03	34.31	35.00	34.91	34.16	33.41	32.31	32.29	32.50	33.57	34.19
4	34.23	33.89	34.48	34.94	35.01	34.22	33.36	32.25	32.30	32.56	33.78	34.27
5	34.17	33.91	34.45	34.86	35.13	34.22	33.40	32.24	32.36	32.63	33.95	34.34
6	34.37	34.14	34.63	35.07	35.07	34.11	33.40	32.20	32.38	32.67	33.96	34.29
7	34.32	34.38	34.58	35.19	34.99	34.05	33.39	32.22	32.43	32.81	33.93	34.28
8	34.23	34.23	34.47	35.04	35.03	34.07	33.32	32.18	32.25	32.86	33.93	34.35
9	34.28	34.19	34.61	34.93	34.89	34.09	33.27	32.01	32.17	32.83	33.97	34.43
10	34.25	34.25	34.63	35.02	34.82	34.01	33.27	32.00	32.17	32.89	34.00	34.31
11	34.14	34.52	34.75	35.02	34.84	33.99	33.22	32.06	32.28	32.94	34.16	.....
12	34.18	.....	34.61	34.91	34.76	34.11	33.07	32.31	32.28	33.01	34.04	34.24
13	34.38	.....	34.59	34.92	34.76	34.08	32.99	32.51	32.11	32.99	33.99	34.18
14	34.29	.....	34.42	35.05	34.77	33.99	33.04	32.37	32.12	33.14	34.14	34.18
15	34.32	.....	34.51	35.22	34.69	33.91	33.06	32.35	32.27	33.30	34.11	34.41
16	34.28	34.17	34.71	35.09	34.76	33.86	33.07	32.36	32.24	33.46	34.26	34.41
17	34.22	34.26	34.51	34.97	34.75	33.74	33.05	32.34	32.19	33.50	34.29	34.32
18	34.11	34.21	34.60	35.00	34.77	33.66	33.00	32.42	32.26	33.49	34.11	34.33
19	34.19	34.18	34.51	35.15	34.80	33.71	32.92	32.56	32.41	33.47	34.22	34.33
20	34.10	34.13	34.43	35.06	34.68	33.81	32.78	32.47	32.60	33.32	34.24	34.24
21	34.01	34.12	34.54	35.12	34.57	33.79	32.86	32.43	32.43	32.39	34.27	34.28
22	34.20	34.23	34.86	35.22	34.50	33.80	32.85	32.43	32.33	33.28	34.14	34.43
23	34.14	34.28	34.94	35.22	34.59	33.74	32.86	32.46	32.31	33.25	34.20	34.42
24	34.10	34.18	34.83	35.17	34.65	33.73	32.84	32.34	32.46	33.51	34.18	34.54
25	34.14	34.18	34.75	35.26	34.67	33.69	32.73	32.28	32.46	33.48	34.13	34.61
26	34.10	34.18	34.98	35.21	34.54	33.70	32.61	32.34	32.33	33.56	34.24	34.43
27	34.18	34.38	35.04	35.15	34.34	33.61	32.61	32.42	32.36	33.48	34.24	34.32
28	34.12	34.43	34.94	35.13	34.33	33.53	32.57	32.37	32.60	33.43	34.43	34.22
29	34.13		34.86	35.16	34.44	33.52	32.46	32.36	32.54	33.50	34.33	34.32
30	34.10		34.79	35.06	34.42	33.52	32.37	32.39	32.58	33.62	34.22	34.58
31	34.02		34.82		34.35		32.33	32.39		33.61		34.63

Queens County

Q64. American Ice Co. 83d St. and 45th Ave., Elmhurst. Lat. 40°44'30", long. 73°52'50". Drilled unused artesian well screened in Lloyd sand member of Raritan formation and in bedrock, diameter 10 to 8 inches, depth 560 feet. Land-surface datum is 34.3 feet above msl. Highest water level 3.07 above msl, May 5, 1955; lowest 68.90 below msl, Nov. 2, 1947. Records available: 1947-55.

Daily mean water level, above and below msl, from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+1.27	+1.55	+2.04	+2.58	+2.99	+1.75	+1.21	-3.01	....	-0.77	+0.52	+1.24
2	1.40	1.49	1.97	2.66	2.91	1.71	1.19	2.89	....	.78	.47	1.32
3	1.34	1.44	1.83	2.73	2.90	1.68	1.14	2.86	....	.71	.57	1.38
4	1.43	1.36	1.97	2.78	2.99	1.72	1.10	2.83	....	....	.68	1.47
5	1.39	1.39	1.95	2.71	3.07	1.73	1.12	3.33	....	....	.76	1.49
6	1.57	1.59	2.12	2.65	3.01	1.68	1.11	4.16	....	....	.77	1.45
7	1.52	1.75	2.08	2.84	2.94	1.63	1.06	4.68	....	e. 41	.77	1.44
8	1.45	1.63	2.00	2.93	2.96	1.64	1.01	4.92	....	.41	.82	1.50
9	1.51	1.59	2.09	2.81	2.84	1.65	.96	5.12	....	.40	.83	1.55
10	1.47	1.66	2.10	2.74	2.74	1.60	.95	5.06	....	.34	.96	1.43
11	1.43	1.88	2.23	2.81	2.74	1.58	.90	4.91	....	.28	.96	1.38
12	1.44	1.74	2.12	2.83	2.65	1.69	.76	4.70	....	.22	.93	1.37
13	1.60	1.51	2.10	2.76	2.63	1.65	.71	4.29	....	.22	.98	1.33
14	1.55	1.53	2.01	2.71	2.59	1.57	et. 72	4.33	....	-.06	.99	1.32
15	1.58	1.68	2.09	2.89	2.49	1.52	....	4.19	....	+0.01	1.03	1.52
16	1.55	1.63	....	....	2.52	1.46	....	4.03	....	.06	1.08	....
17	1.51	1.69	....	....	2.45	1.36	....	....	....	.08	....	....
18	1.47	1.65	....	....	2.43	1.32	....	....	....	.07	....	....
19	1.51	1.62	....	....	2.41	1.36	....	....	....	+0.01	....	....
20	1.42	1.61	....	....	2.25	1.46	....	....	....	-.03	....	1.40

Q64--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	+1.40	+1.62	....	....	+2.11	+1.44	....	....	....	+0.01	....	+1.43
22	1.57	1.71	....	....	2.04	1.44	....	....	....	-.07	....	1.59
23	1.50	1.75	....	....	2.10	1.42	....	....	....	+.06	....	1.60
24	1.48	1.66	....	....	2.15	1.40	....	....	....	.26	....	1.71
25	1.52	1.87	....	....	2.14	1.36	....	....	....	.23	....	1.78
26	1.48	1.67	....	....	2.02	1.36	-2.56	....	....	.31	....	1.64
27	1.56	1.64	....	....	1.85	....	2.68	....	....	.26	....	1.57
28	1.49	1.88	....	....	1.63	....	2.92	....	....	.32	....	1.51
29	1.49	....	e+3.12	....	1.92	....	3.00	....	....	.42	....	1.67
30	1.47	....	+3.06	....	1.90	....	3.17	....	-0.72	e+1.35	....	1.86
31	1.41	....	+2.53	....	1.82	....	3.13	....	....	....	....	1.90

e Estimated.

Q273. City of New York, Department of Water Supply, Gas and Electricity. Grand Central Parkway and Van Wyck Expressway, Forest Hills. Lat. 40°42'55", long. 73°49'45". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 24 to 12 inches, depth 438 feet, screen 308-374, 376-438. Land-surface datum is 25.6 feet above msl. Highest water level 6.47 above msl, Apr. 20, 1939; lowest 1.12 above msl, Mar. 21, 1942. Records available: 1935-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+4.66	Apr. 28	+4.25	July 26	+1.98	Nov. 7	+3.25
Mar. 1	+5.05	May 26	+3.53	Aug. 25	+2.26	Dec. 2	+2.73
30	+5.27	June 23	+2.65	Oct. 5	+2.73	24	+2.99

Q276. City of New York, Department of Water Supply, Gas and Electricity. Alley Pond Parkway and Horace Harding Blvd., Douglaston. Lat. 40°45'15", long. 73°44'30". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 26 to 16 inches, depth 512 feet, screen 380-411, 427-447, 461-512. Land-surface datum is 16.0 feet above msl. Highest water level 8.79 above msl, Mar. 31, 1955; lowest 6.10 below msl, July 27, 1954. Records available: 1946-55. Water levels affected by nearby pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+4.64	Mar. 31	+8.79	May 26	-0.29	July 29	-3.31
Feb. 23	+6.52	Apr. 28	+7.95	June 23	-.89	Aug. 26	+6.43
Mar. 30	+8.66						

Q283. City of New York, Department of Water Supply, Gas and Electricity. Underhill Ave. and 171st St., Flushing. Lat. 40°44'55", long. 73°47'45". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 26 to 12 inches, depth 409 feet, screen 309-352, 367-409. Land-surface datum is 27.0 feet above msl. Highest water level 5.48 above msl, Apr. 7, 1955; lowest 10.26 below msl, Sept. 3, 1947, Sept. 27, 1951. Records available: 1946-55.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.62	+1.29	+2.08	+5.06	+0.76	-4.73	-6.07	-9.11	-7.27	-5.16	-2.10	-4.12
2	1.79	1.30	2.01	5.16	.56	4.74	6.24	9.00	7.35	5.10	2.21	4.24
3	1.93	1.28	1.69	5.23	.47	4.73	6.38	9.13	7.45	5.06	2.28	4.29
4	1.95	1.21	2.05	5.22	.32	4.63	6.55	9.33	7.42	4.95	2.23	4.25
5	1.72	1.24	2.06	5.25	+.06	4.62	6.66	9.52	7.33	4.87	2.16	4.26
6	1.41	1.39	2.17	5.42	-.39	4.62	6.89	9.75	7.22	4.79	2.20	4.37
7	1.69	1.62	2.10	5.46	.84	4.59	7.13	9.82	7.14	4.67	2.30	4.41
8	1.72	1.58	2.05	5.41	1.07	4.55	7.37	10.02	7.25	4.60	2.27	4.41
9	1.27	1.59	2.21	5.39	1.37	4.41	7.55	10.11	7.35	4.66	2.24	4.39
10	.87	1.62	2.38	5.42	1.47	4.32	7.73	10.01	7.37	4.66	2.32	4.48
11	.56	1.78	2.73	5.35	1.52	4.23	7.91	9.76	7.32	4.64	2.29	4.51
12	.25	1.63	2.88	5.25	1.66	4.03	8.09	9.31	7.34	4.60	2.41	4.53
13	+.07	1.37	3.11	5.20	1.90	3.90	8.22	8.91	7.38	4.51	2.55	4.53
14	.15	1.35	3.23	5.22	2.08	3.86	8.29	8.76	7.27	4.22	2.54	4.47
15	.30	1.49	3.55	5.25	2.30	3.61	6.39	8.60	7.06	3.93	2.61	4.23
16	.41	1.51	3.90	5.26	2.42	3.82	8.52	8.39	7.02	3.66	2.56	4.16
17	.48	1.66	3.80	4.83	2.68	4.06	6.63	8.24	7.11	3.52	2.67	4.11
18	.55	1.71	4.05	4.73	2.86	4.38	8.64	8.07	7.13	3.46	2.91	4.01
19	.68	1.76	4.06	4.73	3.00	4.67	8.67	7.62	7.06	3.40	2.93	3.95
20	.70	1.76	4.29	4.62	3.26	4.90	8.79	7.66	6.87	3.37	2.85	3.99
21	.74	1.77	4.25	4.26	3.48	5.09	8.66	7.59	6.83	3.21	2.81	3.96
22	.96	1.66	4.57	3.48	3.78	5.32	8.98	7.51	6.77	3.25	2.97	3.66
23	.96	1.94	4.66	2.85	3.91	5.61	9.18	7.44	6.67	3.18	3.03	3.87
24	.98	1.90	4.67	2.40	3.61	5.82	9.25	7.46	6.40	2.96	3.14	3.73
25	1.05	1.92	4.69	1.99	3.14	6.00	9.39	7.41	6.32	2.97	3.28	3.64

Q283--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+1.03	+1.91	+4.93	+1.72	-3.06	-6.02	-9.36	-7.25	-6.29	-2.49	-3.27	-3.69
27	1.06	1.97	4.97	1.46	3.56	6.02	9.32	7.13	6.11	2.28	3.36	3.74
28	1.02	1.95	4.89	e1.17	4.02	5.96	9.40	7.10	5.73	2.18	3.36	3.79
29	1.11		4.87	1.07	4.27	5.89	9.45	7.09	5.56	2.12	3.54	3.71
30	1.16		4.89	.92	4.49	5.95	9.36	7.09	5.35	2.00	3.83	3.57
31	1.16		4.96		4.66		9.24	7.15		2.04		3.52

e Estimated.

Q350. Formerly New York Water Service Corp. Rockaway Blvd. and Centerville St., Aqueduct. Lat. 40°40'15", long. 73°50'00". Drilled unused artesian well in Jameco gravel, diameter 8 to 4 inches, depth 222 feet, screen assumed at bottom. Land-surface datum is 31.7 feet above msl. Highest water level 3.51 above msl, Apr. 29, 1939; lowest 0.74 below msl, Feb. 7, 10-11, 1948. Records available: 1937-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+1.01	Apr. 26	+0.81	July 28	+0.27	Nov. 7	+1.71
Feb. 25	+ .79	May 24	+ .88	Aug. 26	+2.15	Dec. 23	+1.34
Mar. 29	+ .65	June 23	+ .68	Oct. 5	+1.54		

Q470. City of New York, Department of Water Supply, Gas and Electricity. Northern Blvd. and Cross Island Parkway, Bayside. Lat. 40°45'40", long. 73°45'20". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 6 inches, depth 375 feet, screen 349-375. Land-surface datum is 12.8 feet above msl. Highest water level 7.58 above msl, Mar. 30, 1955; lowest 12.75 below msl, July 15, 1937. Records available: 1933-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+4.98	Apr. 28	+6.82	July 29	-4.18	Nov. 7	+3.23
Feb. 23	+6.13	May 26	+1.37	Aug. 26	-1.59	Dec. 2	+1.58
Mar. 30	+7.58	June 23	+ .87	Oct. 5	+ .65	24	+2.83

Q471. City of New York, Department of Water Supply, Gas and Electricity. Northern Blvd. and Cross Island Parkway, Bayside. Lat. 40°45'40", long. 73°45'20". Drilled unused artesian well in sands of Magothy(?) formation, diameter 6 inches, depth 117 feet, screen assumed at bottom. Land-surface datum is 12.8 feet above msl. Highest water level 17.45 above msl, Sept. 30, 1946; lowest 13.69 above msl, Mar. 31, 1939. Records available: 1939-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+16.00	Apr. 28	+15.99	July 29	+15.09	Nov. 7	+16.00
Feb. 23	+15.86	May 26	+15.54	Aug. 26	+15.33	Dec. 2	+16.00
Mar. 30	+15.99	June 23	+15.37	Oct. 5	+15.73	24	+16.00

Q543. City of New York, Department of Water Supply, Gas and Electricity. Rockaway Beach Blvd. and Beach 110th St., Rockaway Park. Lat. 40°34'55", long. 73°50'05". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 8 inches, depth 840 feet, screen assumed at bottom. Land-surface datum is 7.4 feet above msl. Records available: 1932, 1936-55. Water levels affected by tidal fluctuation; extremes were not determined as water levels were computed on different bases for period of record.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+9.73	+9.99	+11.04	.....	+11.68	+9.56	+8.39	+6.11	+6.23	+7.13	+8.92	+8.75
2	10.12	10.41	10.55	.....	11.48	9.59	8.19	6.20	6.22	7.18	9.73	9.18
3	9.89	9.89	10.18	.....	11.45	9.21	8.15	6.18	6.23	7.13	9.35	9.23
4	10.32	9.87	10.88	.....	11.58	9.38	8.11	6.03	6.28	7.25	9.29	9.52
5	10.27	10.04	11.00	.....	11.68	9.32	8.09	5.89	6.23	7.35	9.37	9.59
6	10.52	10.43	10.98e+12.00	11.88	9.19	8.02	5.83	6.25	6.25	7.70	9.39	9.39
7	9.87	10.50	10.38	11.93	11.62	9.25	8.03	5.90	6.41	7.69	9.15	9.45
8	10.07	10.38	10.32	11.33	11.78	10.05	7.86	5.79	6.23	7.48	9.00	9.54
9	10.10	10.32	.....	11.90	11.27	10.18	7.71	5.76	6.11	7.33	8.99	9.77
10	10.18	10.29	.....	11.41	11.21	9.62	7.62	5.76	6.13	7.46	9.22	9.30
11	10.24	10.62	.....	11.53	11.23	9.58	7.53	5.72	6.19	7.68	9.55	9.01
12	10.49	9.89	.....	11.67	11.19	9.78	7.41	5.93	6.35	8.01	9.18	8.86
13	10.55	9.29	.....	11.71	11.18	9.58	7.28	6.32	6.12	8.25	9.16	9.12
14	10.20	10.07	.....	11.68	11.21	9.36	7.15	5.73	6.22	9.00	9.49	9.19
15	10.55	10.41	.....	11.76	11.08	9.28	7.15	5.71	6.37	9.07	9.42	9.50
16	10.02	10.41	.....	11.78	11.01	9.21	7.33	5.88	6.32	9.24	9.79	9.17
17	9.81	10.69	.....	11.75	11.09	9.10	7.21	5.96	6.32	8.72	9.00	9.16
18	9.77	10.30	.....	11.53	11.09	8.93	7.13	6.21	6.25	8.61	8.47	9.22
19	10.37	10.35	.....	11.79	11.01	8.93	7.07	6.21	6.53	8.52	9.45	9.27
20	10.11	10.37	.....	11.80	10.89	9.12	6.99	6.13	6.79	8.20	9.70	9.01
21	10.34	10.41	.....	11.80	10.71	9.08	6.88	6.21	6.48	8.04	9.66	9.06
22	10.51	10.51	.....	12.01	10.49	9.08	6.86	6.27	6.38	8.16	9.03	9.34
23	10.35	10.56	.....	12.08	10.50	8.84	6.95	6.29	6.48	8.35	9.55	9.56
24	10.36	10.29	.....	12.18	10.58	8.74	6.75	6.28	7.00	8.39	9.22	9.68
25	10.39	10.32	.....	12.47	10.62	8.61	6.78	6.32	6.59	8.05	9.29	9.54

Q543--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+9.95	+10.31	.....	+12.28	+10.52	+8.62	+6.58	+6.22	+6.60	+8.53	+9.37	+9.21
27	9.91	10.51	.....	12.05	10.31	8.48	6.43	6.32	6.79	8.59	9.39	9.28
28	9.78	10.55	.....	11.99	10.09	8.31	6.43	6.31	6.89	8.63	9.62	9.51
29	9.95		.....	12.05	10.09	8.29	6.45	6.27	6.93	8.84	9.22	9.58
30	10.08		.....	11.90	10.07	8.30	6.24	6.31	7.24	9.40	8.54	9.61
31	9.88		.....		9.86		6.11	6.31		9.10		9.73

e Estimated.

Q1027. City of New York, Department of Parks. Rodman Ave. and 58th Ave., Extended, Flushing Meadow Park. Lat. 40°44'40", long. 73°50'15". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 8 inches, depth 274 feet, screen 247-274. Land-surface datum is 8.6 feet above msl. Highest water level 8.53 above msl, Apr. 28, 1953; lowest 4.08 above msl, Mar. 20, 1942. Records available: 1942-43, 1946-55. May 11, +7.54.

Q1089. City of New York, Department of Water Supply, Gas and Electricity. North Conduit Ave. near Long Island RR., Aqueduct. Lat. 40°40'00", long. 73°49'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 32 feet, screen 30-32. Land-surface datum is 20.5 feet above msl. Highest water level 4.04 above msl, Sept. 23, 1938; lowest 0.42 below msl, Oct. 17, 1932. Records available: 1911-17, 1932-39, 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+2.39	Apr. 28	+1.92	July 28	+1.64	Nov. 7	+2.69
Feb. 21	+2.36	May 24	+1.88	Aug. 26	+3.43	Dec. 2	+2.96
Mar. 29	+2.00	June 23	+1.84	Oct. 5	+3.47	22	+2.30

Q1222. City of New York, Department of Water Supply, Gas and Electricity. 142d St. and 20th Ave., Whitestone. Lat. 40°47'05", long. 73°49'25". Drilled unused artesian well in Lloyd sand member of Raritan formation, diameter 12 to 6 inches, depth 200 feet, screen 170-200. Land-surface datum is 7.6 feet above msl. Highest water level 5.02 above msl, Apr. 28, 1955; lowest 9.19 below msl, Feb. 28, 1942. Records available: 1940-55.

Jan. 24	+3.76	Apr. 28	+5.02	July 29	+0.81	Nov. 7	+2.88
Mar. 1	+3.94	May 26	+2.82	Aug. 26	+1.34	Dec. 2	+2.57
30	+4.62	June 23	+2.43	Oct. 5	+1.74	24	+2.13

Q1225. City of New York, Department of Water Supply, Gas and Electricity. 109th Ave. and 200th St., Hollis. Lat. 40°42'35", long. 73°45'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 32 feet, screen 30-32. Land-surface datum is 49.4 feet above msl. Highest water level 32.19 above msl, Apr. 4, 1939; lowest 22.50 below msl, Dec. 29, 1954. Records available: 1933-54. No measurement made in 1955.

Q1237. City of New York, Department of Water Supply, Gas and Electricity. Belt Parkway and 150th St., Baisley Park. Lat. 40°40'00", long. 73°47'35". Drilled unused artesian well in Jameco gravel, diameter 8 inches, depth 220 feet, screen assumed at bottom. Land-surface datum is 17.5 feet above msl. Highest water level 5.03 above msl, Apr. 30, May 4, 1939; lowest 6.92 below msl, Mar. 26, 1950. Records available: 1939-55.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.58	+0.38	+0.89	+1.00	+0.66	+1.34	-0.27	-0.56	+0.29	+1.17	+1.40	+1.16
2	.68	.39	.86	1.07	.55	1.58	.44	.68	.16	1.26	1.28	1.25
3	.68	.40	.66	1.17	.48	1.75	.58	.83	.21	1.23	1.34	1.38
4	.78	.27	.74	1.27	.44	1.48	.64	.86	.34	1.25	1.41	1.51
5	.82	.30	.83	1.37	.43	1.53	.67	.92	.53	1.27	1.23	1.62
6	.92	.47	1.02	1.45	.42	1.48	.76	.98	.32	.99	1.00	1.61
7	.85	.66	.97	1.53	.44	.88	.74	.98	.19	1.50	.98	1.60
8	.71	.57	.81	1.27	.55	.88	.62	.64	.02	1.30	1.06	1.85
9	.64	.58	.78	.95	.53	1.16	.58	.50	.11	1.06	.90	2.36
10	.73	.61	.76	.86	.54	1.14	.61	.46	.21	1.53	1.01	2.24
11	.70	.71	.85	.77	.55	.93	.48	-.31	.16	1.11	1.03	1.91
12	.75	.56	.69	.72	.62	1.08	.66	+0.08	.21	.81	.81	1.63
13	.88	.19	.61	.95	.64	1.14	.62	.58	.21	.73	.61	1.49
14	.78	.14	.51	1.42	.69	1.01	.60	.69	.24	1.47	.82	1.49
15	.77	.32	.64	1.63	.69	.86	.68	.84	.11	2.61	1.27	1.61
16	.75	.35	.94	1.15	.71	.64	.58	.73	.01	2.76	1.48	1.54
17	.60	.63	.84	.95	.60	+1.12	.56	.54	.09	2.76	1.28	.95
18	.42	.68	.75	1.00	.53	-.23	.57	.78	.15	2.60	.93	.59
19	.43	.68	.58	1.05	.39	.48	.73	.82	.11	2.11	.79	.46
20	.57	.69	.39	.88	.40	.26	.76	.67	.40	1.69	.68	.33

Q1237--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	+0.63	+0.74	+0.39	+0.80	+0.40	-0.27	-0.64	+0.68	+0.41	+1.80	....	+0.90
22	.83	.81	.81	.93	.20	.31	.65	1.01	.47	1.16	....	1.88
23	.76	.86	.90	.82	.37	.34	.75	1.44	.48	.82	....	2.39
24	.73	.75	.91	.77	.38	-.40	.67	1.13	.69	.99	....	2.76
25	.74	.71	.94	.87	.27	+.06	.58	.92	.81	.73	....	2.99
26	.66	.68	1.15	.88	+.09	.26	....	.81	.72	.88	....	2.93
27	.58	.76	1.17	.98	-.12	.74	....	.71	.90	1.01	....	2.84
28	.42	.76	.84	.98	-.09	.80	....	.69	1.19	.93	+1.65	2.76
29	.41		.72	.88	+.09	+.28	.68	.62	1.19	.85	1.60	2.87
30	.38		.81	.76	.25	-.14	.62	.46	1.08	....	1.42	3.15
31	.34		.92		e.45		.51	.46		....		3.18

e Estimated.

Q1248. City of New York, Department of Water Supply, Gas and Electricity. 100th Rd. and Belt Parkway, Queens Village. Lat. 40°43'00", long. 73°43'45". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 49 feet, screen 47-49. Land-surface datum is 76.5 feet above msl. Highest water level 38.16 above msl, May 31, 1949; lowest 33.10 above msl, Oct. 30, 1951. Records available: 1940-54. No measurement made in 1955.

Q1249. City of New York, Department of Water Supply, Gas and Electricity. 106th Ave. and 216th St., Queens Village. Lat. 40°42'45", long. 73°44'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 49 feet, screen 47-49. Land-surface datum is 72.4 feet above msl. Highest water level 33.41 above msl, Sept. 26, 1946; lowest 25.51 above msl, June 28, 1954. Records available: 1940-46, 1948-54. No measurement made in 1955.

Q1250. City of New York, Department of Water Supply, Gas and Electricity. Liberty and Camden Aves., Hollis. Lat. 40°42'15", long. 73°46'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 26 feet, screen 24-26. Land-surface datum is 37.6 feet above msl. Highest water level 22.52 above msl, Aug. 31, 1948; lowest 15.13 above msl, July 28, 1955. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+16.07	Apr. 28	+16.20	July 28	+15.13	Nov. 7	+15.79
Feb. 25	+16.24	May 24	+16.07	Aug. 26	+18.44	Dec. 23	+15.74
Mar. 29	+16.02	June 24	+15.78	Oct. 5	+16.00		

Q1251. City of New York, Department of Water Supply, Gas and Electricity. 107th Ave. and 172d St., Jamaica. Lat. 40°42'00", long. 73°47'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 38 feet, screen 36-38. Land-surface datum is 42.7 feet above msl. Highest water level 14.25 above msl, Feb. 24, 1949; lowest 7.10 above msl, June 28, 1954. Records available: 1940-54. No measurement made in 1955.

Q1252. City of New York, Department of Water Supply, Gas and Electricity. Liberty Ave. and 157th St., Jamaica. Lat. 40°42'00", long. 73°47'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 28 feet, screen 26-28. Land-surface datum is 31.2 feet above msl. Highest water level 13.92 above msl, Nov. 2, 1948; lowest 6.64 above msl, July 28, 1955. Records available: 1940-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+8.39	Apr. 28	+7.32	July 28	+6.64	Nov. 7	+7.76
Feb. 25	+8.58	May 24	+7.19	Aug. 26	+7.87	Dec. 23	+7.62
Mar. 29	+8.08	June 24	+7.28	Oct. 5	+7.68		

Q1253. City of New York, Department of Water Supply, Gas and Electricity. 101st Ave. and 121st St., Richmond Hill. Lat. 40°41'30", long. 73°49'20". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 54 feet, screen 52-54. Land-surface datum is 49.2 feet above msl. Highest water level 4.58 above msl, Apr. 26, 1941; lowest 2.44 below msl, Dec. 30, 1954. Records available: 1940-54. No measurement made in 1955.

Q1254. City of New York, Department of Water Supply, Gas and Electricity. 101st Ave. and 108th St., Richmond Hill. Lat. 40°41'20", long. 73°50'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 54 feet, screen 52-54. Land-surface datum is 45.5 feet above msl. Highest water level 0.29 above msl, Apr. 12, 1941; lowest 6.81 below msl, Dec. 30, 1954. Records available: 1940-54. No measurement made in 1955.

Q1255. City of New York, Department of Water Supply, Gas and Electricity. Atlantic Ave. and Woodhaven Blvd., Woodhaven. Lat. 40°41'20", long. 73°50'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 53 feet, screen 51-53. Land-surface datum is 40.4 feet above msl. Highest water level 12.03 above msl, May 12, 1914; lowest 6.30 below msl, Nov. 3, 1947. Records available: 1911-17, 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	-4.35	Apr. 28	-4.21	July 26	-4.65	Nov. 7	-4.39
Feb. 21	-4.23	May 24	-4.22	Aug. 25	-4.84	Dec. 23	-3.97
Mar. 29	-4.23	June 23	-4.31	Oct. 5	-4.39		

Q1256. City of New York, Department of Water Supply, Gas and Electricity. 95th Ave. and 82d St., Woodhaven. Lat. 40°41'05", long. 73°51'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 38 feet, screen 36-38. Land-surface datum is 24.0 feet above msl. Highest water level 0.60 below msl, Dec. 19, 1953; lowest 6.98 below msl, Mar. 14, 1942. Records available: 1940-43, 1945-54. No measurement made in 1955.

Q1281. City of New York, Department of Water Supply, Gas and Electricity. Liberty Ave. and Woodhaven Blvd., Ozone Park. Lat. 40°40'50", long. 73°50'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 39 feet, screen 37-39. Land-surface datum is 28.8 feet above msl. Highest water level 8.59 above msl, June 4, 1913; lowest 3.62 below msl, Mar. 7, 1942. Records available: 1911-17, 1933, 1941-54. No measurement made in 1955.

Q1283. City of New York, Department of Water Supply, Gas and Electricity. Rockaway Blvd. and 121st St., South Ozone Park. Lat. 40°40'40", long. 73°49'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 32 feet, screen 30-32. Land-surface datum is 26.7 feet above msl. Highest water level 13.33 above msl, Nov. 10, 1911; lowest 1.35 above msl, June 28, 1954. Records available: 1911-16, 1933-35, 1941-54. No measurement made in 1955.

Suffolk County

S58. City of New York, Board of Water Supply. Grand Blvd. and 44th St., Islip. Lat. 40°44'45", long. 73°13'00". Drilled observation artesian well in sands of Magothy(?) formation, diameter 12 inches, depth 468 feet, screen assumed at bottom. Land-surface datum is 37.0 feet above msl. Highest water level 25.50 above msl, Apr. 20, 1953; lowest 22.32 above msl, Oct. 6, 1951. Records available: 1944-55. Recording gage removed Mar. 22, 1955.

Daily mean water level, above msl, from recorder graph

Jan. 1	+24.20	Jan. 24	+23.80	Feb. 16	+23.50	Mar. 10	+23.75
2	24.23	25	23.78	17	23.49	11	23.80
3	24.25	26	23.76	18	23.48	12	23.85
4	24.26	27	23.73	19	23.47	13	23.88
5	24.27	28	23.71	20	23.46	14	23.90
6	24.28	29	23.69	21	23.45	15	23.91
7	24.26	30	23.67	22	23.45	16	23.93
8	24.24	31	23.65	23	23.44	17	23.91
9	24.22	Feb. 1	23.63	24	23.43	18	23.89
10	24.18	2	23.61	25	23.43	19	23.87
11	24.14	3	23.59	26	23.43	20	23.83
12	24.11	4	23.56	27	23.43	21	23.82
13	24.09	5	23.54	28	23.43	22	h23.82
14	24.05	6	23.53	Mar. 1	23.44	Apr. 27	h23.84
15	24.03	7	23.60	2	23.43	May 27	h23.47
16	24.00	8	23.62	3	23.42	June 24	h23.07
17	23.97	9	23.61	4	23.45	July 27	h22.62
18	23.94	10	23.60	5	23.51	Aug. 25	h24.24
19	23.92	11	23.60	6	23.56	Sept. 30	h23.18
20	23.89	12	23.56	7	23.60	Nov. 2	h24.96
21	23.86	13	23.53	8	23.65	23	h24.98
22	23.85	14	23.52	9	23.70	Dec. 27	h23.85
23	23.83	15	23.51				

h Tape measurement.

S202. New York Water Service Corp. State Highway 25A and Spring St., Huntington. Lat. 40°52'15", long. 73°25'10". Driven unused artesian well in Lloyd sand member of Raritan formation, diameter 12 inches, depth 600 feet, screen assumed at bottom. Land-surface datum is 69.0 feet above msl. Highest water level 47.17 above msl, Apr. 10, 1937; lowest 36.93 above msl, Feb. 1, 1939. Records available: 1936-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+42.90	Apr. 27	+43.32	July 25	+42.42	Nov. 1	+43.59
Feb. 23	+43.13	May 24	+42.99	Aug. 23	+43.10	23	+43.84
Mar. 24	+43.33	June 24	+42.66	Sept. 30	+43.35	Dec. 22	+44.09

S929. Village of Greenport Department of Public Works. State Highway 25 and North Country Rd., East Marion. Lat. 41°07'20", long. 72°21'05". Drilled unused water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 84 feet, screen assumed at bottom. Land-surface datum is 35.1 feet above msl. Highest water level 4.05 above msl, May 4, 1953; lowest 0.27 above msl, July 26, 1955. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+2.75	Apr. 26	+2.31	July 26	+0.27	Nov. 3	+2.52
Feb. 24	+2.35	May 26	+1.42	Aug. 24	+0.87	29	+2.92
Mar. 31	+2.06	June 23	+0.74	Oct. 7	+1.15	Dec. 29	+2.26

S1803. City of New York, Department of Water Supply, Gas and Electricity. Belmont Ave. and Farmingdale Rd., Babylon. Lat. 40°42'15", long. 73°20'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 16 feet, screen 14-16. Land-surface datum is 21.7 feet above msl. Diameter formerly reported as 1½ inches. Highest water level 18.19 above msl, Apr. 22, 1913; lowest 14.93 above msl, Oct. 25, 1941. Records available: 1912-14, 1932, 1936-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+16.65	Apr. 27	+16.85	July 27	+15.36	Nov. 2	+16.82
Feb. 21	+16.30	May 27	+16.05	Aug. 26	+16.99	25	+17.41
Mar. 24	+16.86	June 27	+15.78	Sept. 30	+16.08	Dec. 27	+16.42

S1805. City of New York, Department of Water Supply, Gas and Electricity. Farmingdale Rd. and Albany Ave., Amityville. Lat. 40°43'05", long. 73°24'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 29 feet, screen 27-29. Land-surface datum is 57.2 feet above msl. Highest water level 47.17 above msl, Apr. 28, 1953; lowest 37.90 above msl, Oct. 27, 1932. Records available: 1912-14, 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+43.42	Apr. 27	+43.33	July 26	+41.24	Nov. 2	+43.49
Feb. 21	+42.92	May 27	+42.72	Aug. 26	+43.30	29	+44.76
Mar. 24	+43.18	June 27	+41.95	Sept. 30	+42.50	Dec. 27	+44.01

S1806. City of New York, Department of Water Supply, Gas and Electricity. Wellwood and Long Island Aves., Pinelawn. Lat. 40°44'40", long. 73°23'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 40 feet, screen 38-40. Land-surface datum is 86.4 feet above msl. Highest water level 61.69 above msl, Apr. 22, 1939; lowest 50.61 above msl, Jan. 5, 1933. Records available: 1912-14, 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+56.98	Apr. 27	+56.91	July 26	+55.18	Nov. 1	+56.80
Feb. 21	+56.61	May 27	+56.50	Aug. 26	+55.28	29	+58.03
Mar. 24	+56.33	June 27	+55.88	Sept. 30	+55.71	Dec. 27	+58.49

S1807. City of New York, Department of Water Supply, Gas and Electricity. Higbie Lane near Hunter Ave., Babylon. Lat. 40°43'30", long. 73°18'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 10 feet, screen 8-10. Land-surface datum is 24.8 feet above msl. Well replaced August 1955. Formerly reported as diameter 1½ inches, depth 21 feet, screen 19-21. Highest water level 23.48 above msl, Oct. 14, 1938; lowest 20.45 above msl, Oct. 5, 1953. Records available: 1912-14, 1932-33, 1936-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+21.47	Apr. 27	+21.51	Aug. 26	+21.65	Nov. 25	+21.42
Feb. 21	+21.30	May 27	+21.31	Sept. 30	+21.29	Dec. 27	+21.00
Mar. 24	+21.64	June 27	+21.17	Oct. 2	+21.23		

S1808. City of New York, Department of Water Supply, Gas and Electricity. Sagtikos Manor Lane near South Country Rd., Brightwaters. Lat. 40°42'25", long. 73°16'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 15 feet, screen 13-15. Land-surface datum is 15.9 feet above msl. Highest water level 12.94 above msl, Sept. 23, 1938; lowest 9.45 above msl, Sept. 12, 1932. Records available: 1912-14, 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+10.97	Apr. 27	+11.29	July 27	+9.81	Nov. 2	+11.47
Feb. 21	+11.05	May 27	+10.52	Aug. 26	+11.53	25	+11.56
Mar. 24	+11.84	June 27	+10.44	Sept. 30	+10.76	Dec. 27	+10.85

S1809. City of New York, Department of Water Supply, Gas and Electricity, Manor Lane and Muncey Rd., Brightwaters. Lat. 40°44'05", long. 73°16'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 27 feet, screen 25-27. Land-surface datum is 41.5 feet above msl. Highest water level 32.56 above msl, Apr. 15, 1939; lowest 25.00 above msl, Nov. 2, 1932. Records available: 1912-14, 1932-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+29.55	Apr. 27	+29.64	July 27	+27.64	Nov. 2	+30.39
Feb. 21	+29.12	May 27	+29.04	Aug. 25	+29.76	25	+31.52
Mar. 24	+29.40	June 27	+28.32	Sept. 30	+28.99	Dec. 27	+30.54

S1810. City of New York, Department of Water Supply, Gas and Electricity, Sagtikos Parkway, Pineaire. Lat. 40°46'20", long. 73°16'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 47 feet, screen 45-47. Land-surface datum is 93.7 feet above msl. Land-surface datum at the well site has been raised 3.6 feet. Highest water level 56.19 above msl, Apr. 29, 1939; lowest 45.24 above msl, Feb. 23, 1933. Records available: 1912-14, 1932-55.

Jan. 26	+51.89	May 24	+51.88	July 26	+52.00	Nov. 1	+51.75
Feb. 23	+51.83	June 1	+51.94	Aug. 26	+51.77	29	+53.33
Mar. 24	+51.80	27	+51.94	Sept. 30	+51.64	Dec. 27	+53.32
Apr. 27	+51.96						

S1811. City of New York, Board of Water Supply. Near Smithtown Blvd., Ronkonkoma. Lat. 40°49'50", long. 73°07'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 8 inches, 0 to 8 feet, 2 inches, 8 to 10 feet, connected at 10 feet with a 25-foot length of 1½-inch casing and 5 feet of 1½-inch screen projecting horizontally toward lake bottom. Land-surface datum is 53.7 feet above msl. Measurements before January 1955 taken at S1811-1, diameter 1½ inches, depth 22 feet, screen 20-22. Highest water level 55.66 above msl, May 5, 1953; lowest 51.41 above msl, Aug. 28, 1941. Records available: 1937-55.

Jan. 26	+54.73	Apr. 27	+55.06	July 25	+54.04	Nov. 1	+55.07
Feb. 24	+54.85	May 25	+54.68	Aug. 23	+54.58	23	+55.53
Mar. 24	+55.08	June 21	+54.43	Sept. 29	+53.87	Dec. 22	+55.43

S1814. U. S. Geol. Survey, Suffolk and Lowell Aves., Central Islip. Lat. 40°47'40", long. 73°11'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 49 feet, screen 47-49. Land-surface datum is 79.6 feet above msl. Highest water level 40.29 above msl, Nov. 29, 1955; lowest 34.50 above msl, Jan. 25, 1951. Records available: 1939-55.

Jan. 26	+37.53	Apr. 27	+37.64	July 26	+36.93	Nov. 1	+39.37
Feb. 23	+37.77	May 27	+37.25	Aug. 24	+37.37	29	+40.29
Mar. 23	+37.33	June 24	+37.30	Oct. 7	+36.89	Dec. 27	+40.17

S1817. U. S. Geol. Survey, Long Island Ave. and 18th St., Wyandanch. Lat. 40°45'20", long. 73°21'45". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 26 feet, screen 24-26. Land-surface datum is 58.9 feet above msl. Highest water level 54.34 above msl, Apr. 28, 1953; lowest 49.66 above msl, Oct. 30, 1951. Records available: 1939-55.

Jan. 26	+52.56	Apr. 27	+52.62	July 26	+51.04	Nov. 1	+52.73
Feb. 23	+52.41	May 24	+52.15	Aug. 26	+51.85	29	+53.29
Mar. 24	+52.73	June 27	+51.66	Sept. 30	+51.52	Dec. 27	+52.63

S2146. Montauk Beach Co. Golf Course, Montauk. Lat. 41°03'30", long. 71°57'00". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 92 feet, screen assumed at bottom. Land-surface datum is 49.0 feet above msl. Highest water level 3.97 above msl, May 26, 1953; lowest 2.50 above msl, Jan. 11, 1951. Records available: 1950-54. No measurement made in 1955.

S2314. U. S. Geol. Survey, Burrs Lane, Wyandanch. Lat. 40°46'15", long. 73°21'15". Drilled unused artesian well in sands of Magothy(?) formation, diameter 8 inches, depth 480 feet, screen 450-480. Land-surface datum is 89.3 feet above msl. Land-surface datum, formerly reported as 92.8 feet above msl, has been lowered 3.5 feet because of grading in the area. Highest water level 62.48 above msl, May 26, 1953; lowest 57.63 above msl, Dec. 17, 1951. Records available: 1943-55.

Jan. 26	+60.56	Apr. 27	+60.63	July 26	+59.70	Nov. 1	+60.72
Feb. 23	+60.56	May 24	+60.52	Aug. 26	+60.23	28	+61.45
Mar. 24	+60.50	June 27	+60.08	Sept. 30	+59.99	Dec. 27	+61.27

S2455. City of New York, Board of Water Supply. Sandra Ave., Bayshore. Lat. 40°43'05", long. 73°17'20". Drilled observation water-table well in deposits of late Pleistocene age, diameter 10 inches, depth 18 feet, screen assumed at bottom. Land-surface datum is 33.1 feet above msl. Highest water level 24.85 above msl, Sept. 23, 1938; lowest 19.98 above msl, Nov. 6, 1937. Records available: 1933-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+22.69	Apr. 27	+22.75	July 27	+20.91	Nov. 2	+23.08
Feb. 21	+22.42	May 27	+22.24	Aug. 25	+23.23	Dec. 27	+22.88
Mar. 24	+22.84	June 27	+21.54	Sept. 30	+22.34		

S3496. U. S. Geol. Survey. Coates Ave. near Long Island RR., Holbrook. Lat. 40°48'45", long. 73°04'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 76 feet, screen 74-76. Land-surface datum is 115.9 feet above msl. Highest water level 51.77 above msl, Aug. 4, 1953; lowest 45.79 above msl, Feb. 21, Mar. 27, 1951. Records available: 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+49.74	Apr. 27	+50.38	July 26	+50.47	Nov. 1	+49.82
Feb. 23	+50.07	May 25	+50.42	Aug. 24	+50.33	23	+50.04
Mar. 23	+50.42	June 21	+50.54	Sept. 30	+50.00	Dec. 27	+50.69

S3513. New York State Division of Highways. State Highway 25, Selden. Lat. 40°51'45", long. 73°02'55". Drilled unused water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 65 feet, screen 63-65. Land-surface datum is 102.1 feet above msl. Highest water level 66.49 above msl, Dec. 22, 1955; lowest 59.86 above msl, Feb. 15, 21, 23, 1948. Records available: 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+64.87	Apr. 26	+65.34	July 25	+65.13	Nov. 1	+65.01
Feb. 21	+65.26	May 27	+65.40	Aug. 23	+64.92	23	+65.74
Apr. 1	+65.20	June 23	+65.43	Sept. 30	+64.60	Dec. 22	+66.49

S3514. Herman Jurgens. Jericho Turnpike, Commack. Lat. 40°50'35", long. 73°18'00". Dug unused water-table well in deposits of late Pleistocene age, diameter 30 inches, depth 95 feet. Land-surface datum is 154.2 feet above msl. Highest water level 71.53 above msl, Dec. 31, 1955; lowest 64.23 above msl, Mar. 18, 26, 1951. Records available: 1942-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+68.11	+68.27	+68.43	+68.57	+68.68	+68.70	+68.16	+67.59	+68.09	+68.32	+69.13	+70.21
2	68.19	68.18	68.27	68.59	68.67	.....	68.13	67.60	68.10	68.34	69.15	70.38
3	68.12	.....	68.22	68.57	68.73	.....	68.08	67.55	68.12	68.37	69.23	70.39
4	68.16	68.13	68.39	68.51	68.78	.....	68.07	67.47	68.16	68.41	69.29	70.51
5	68.15	68.18	68.35	68.54	68.78	.....	68.15	67.40	68.19	68.40	69.27	70.46
6	68.24	68.32	68.47	68.69	68.71	.....	68.04	67.34	68.20	68.40	e69.30	70.50
7	68.13	68.26	68.32	68.60	68.72	68.73	67.94	67.37	68.19	68.42	69.32	70.57
8	68.11	68.16	68.33	68.52	68.78	68.77	.....	67.29	68.13	68.40	69.37	70.62
9	68.18	68.17	68.44	68.56	68.68	68.75	67.91	67.32	68.17	68.41	69.43	70.70
10	68.11	68.24	68.37	68.63	68.74	68.73	67.93	67.42	68.24	68.45	69.50	70.59
11	68.13	68.38	68.45	68.60	68.74	68.74	67.90	67.49	68.30	68.44	69.51	70.72
12	68.18	68.07	68.36	68.54	68.72	68.82	67.80	67.49	68.23	68.46	69.50	.....
13	68.23	68.07	68.37	68.61	68.75	68.75	67.80	67.54	68.17	68.46	69.56	.....
14	68.12	68.22	68.34	68.70	68.77	68.72	67.83	67.48	68.25	68.52	69.67	.....
15	68.22	68.26	68.48	68.71	68.72	68.69	67.76	67.60	68.27	68.52	69.66	.....
16	68.13	68.22	68.52	68.56	68.81	68.72	67.65	67.65	68.19	68.52	69.80	.....
17	68.14	68.27	68.33	68.60	68.75	68.64	.....	67.67	68.20	68.53	69.69	.....
18	68.13	68.23	68.49	68.65	68.80	68.61	e67.59	67.76	68.26	68.56	69.70	.....
19	68.18	68.24	68.37	68.75	68.77	68.58	67.57	67.79	68.33	68.59	69.89	.....
20	68.10	68.23	68.41	68.60	68.72	68.60	67.58	67.77	68.34	68.60	e69.82	71.00
21	e68.15	68.25	68.51	68.73	68.70	68.55	67.63	67.82	.....	e68.74	69.90	71.15
22	68.23	68.33	68.64	68.73	.....	68.56	67.57	67.87	68.22	68.70	69.88	71.24
23	68.13	68.27	68.40	68.69	.....	68.44	67.58	67.88	68.28	68.85	70.03	71.16
24	68.15	68.24	68.47	68.68	.....	68.30	67.55	67.87	68.37	69.01	69.96	71.34
25	68.23	68.27	68.44	68.73	.....	68.29	67.52	67.93	68.27	68.87	70.05	71.29
26	68.17	68.29	68.63	68.68	.....	68.32	67.48	68.00	68.26	69.01	70.12	71.25
27	68.23	68.41	68.53	68.68	.....	68.28	67.51	68.03	68.35	68.94	70.16	71.28
28	68.20	68.22	68.48	68.72	.....	68.26	67.45	67.99	68.41	69.04	70.27	71.33
29	68.19	.....	68.50	68.72	.....	68.23	67.37	68.05	68.32	69.11	70.17	71.49
30	68.20	.....	68.49	68.67	e68.72	68.21	67.40	68.08	68.37	69.15	70.20	71.52
31	68.14	.....	68.56	.....	68.72	.....	67.51	68.08	.....	69.09	.....	71.53

e Estimated.

S3516. City of New York, Board of Water Supply. East 3d Ave. near Walbridge Ave., Bayshore. Lat. 40°45'15", long. 73°15'35". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 38 feet, screen 36-38. Land-surface datum is 60.5 feet above msl. Highest water level 41.38 above msl, Apr. 30, 1953; lowest 35.29 above msl, Dec. 21, 1950. Records available: 1907-9, 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+38.99	Apr. 27	+39.01	July 26	+37.66	Nov. 1	+40.37
Feb. 23	+38.60	May 27	+38.68	Aug. 26	+38.23	25	+41.25
Mar. 24	+38.56	June 27	+38.20	Oct. 7	+38.04	Dec. 27	+40.67

S3517. City of New York, Board of Water Supply. Lakeland Ave. and Tariff St., Sayville. Lat. 40°44'40", long. 73°05'20". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 37 feet, screen 35-37. Land-surface datum is 31.6 feet above msl. Highest water level 14.57 above msl, Apr. 29, 1953; lowest 11.60 above msl, Dec. 4, 1909. Records available: 1907-9, 1942-55.

Jan. 25	+13.70	Apr. 27	+13.54	July 26	+12.48	Nov. 1	+14.32
Feb. 21	+13.33	May 25	+13.17	Aug. 24	+13.12	23	+14.56
Mar. 23	+13.46	June 24	+12.85	Sept. 30	+12.65	Dec. 27	+13.81

S3526. City of New York, Board of Water Supply. Near Yaphank, Long Island Ave. and South Haven Rd. Lat. 40°50'10", long. 72°53'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 66 feet, screen 64-66. Land-surface datum is 89.8 feet above msl. Highest water level 30.52 above msl, Dec. 30, 1948; lowest 25.73 above msl, Jan. 25, 1951. Records available: 1943-55.

Jan. 25	+28.53	Apr. 25	+28.98	July 25	+28.96	Nov. 1	+28.46
Feb. 21	+28.63	May 25	+29.14	Aug. 23	+28.83	29	+28.73
Mar. 23	+29.05	June 21	+29.12	Sept. 30	+28.36		

S3532. City of New York, Board of Water Supply. Whiskey and Randall Rds., Ridge. Lat. 40°54'45", long. 72°53'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 70 feet, screen 68-70. Land-surface datum is 85.0 feet above msl. Highest water level 51.95 above msl, June 8, 1908; lowest 45.23 above msl, Feb. 23, 1951. Records available: 1907-9, 1942-55.

Jan. 24	+50.71	Apr. 26	+51.00	July 25	+50.79	Nov. 1	+49.62
Feb. 21	+51.04	May 27	+51.16	Aug. 23	+50.39	25	+50.24
Apr. 1	+50.82	June 23	+51.15	Sept. 30	+49.71		

S3535. City of New York, Board of Water Supply. Chichester and Brookfield Aves., Center Moriches. Lat. 40°49'10", long. 72°48'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 52 feet, screen 50-52. Land-surface datum is 50.9 feet above msl. Highest water level 22.81 above msl, May 26, 1953; lowest 17.51 above msl, Feb. 23, 1951. Records available: 1907-9, 1942-55.

Jan. 25	+21.29	Apr. 25	+21.21	July 25	+20.93	Nov. 2	+20.07
Feb. 23	+21.43	May 25	+21.33	Aug. 23	+21.56	25	+20.58
Mar. 23	+21.26	June 21	+21.20	Oct. 5	+20.07	Dec. 28	+21.20

S3537. City of New York, Board of Water Supply. Old Country Rd., Speonk. Lat. 40°50'00", long. 72°42'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 43 feet, screen 41-43. Land-surface datum is 43.3 feet above msl. Highest water level 17.46 above msl, Apr. 30, 1953; lowest 14.09 above msl, Jan. 23, 1951. Records available: 1908-9, 1942-43, 1948-55.

Jan. 25	+16.63	Apr. 25	+16.46	July 25	+15.85	Nov. 2	+15.63
Feb. 23	+16.52	May 25	+16.35	Aug. 23	+15.80	25	+16.23
Mar. 25	+16.39	June 21	+16.16	Oct. 6	+15.36		

S3539. City of New York, Board of Water Supply. Riverhead Rd., Speonk. Lat. 40°51'45", long. 72°41'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 38 feet, screen 86-88. Land-surface datum is 79.3 feet above msl. Highest water level 27.14 above msl, Aug. 5, 1953; lowest 21.33 above msl, Mar. 28, 1951. Records available: 1907-9, 1942-43, 1947-55.

Jan. 25	+25.83	Apr. 25	+26.08	July 25	+25.85	Nov. 2	+24.85
Feb. 23	+26.15	May 25	+26.07	Aug. 23	+25.60	25	+24.73
Mar. 25	+26.21	June 21	+26.04	Oct. 6	+25.13		

S3543. City of New York, Board of Water Supply. Suffolk Airport, Westhampton. Lat. 40°51'00", long. 72°39'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 58 feet, screen 56-58. Land-surface datum is 64.4 feet above msl. Highest water level 20.87 above msl, June 24, 1953; lowest 15.18 above msl, Feb. 27, 1951. Records available: 1907-9, 1942-43, 1947-55.

Jan. 25	+19.32	Apr. 25	+19.17	July 26	+18.82	Nov. 2	+18.20
Feb. 23	+19.47	May 25	+19.21	Aug. 25	+18.62	25	+18.44
Mar. 25	+19.33	June 21	+19.08	Oct. 6	+18.19	Dec. 28	+18.96

S3545. City of New York, Board of Water Supply. Lincoln Ave., West Sayville. Lat. 40°46'45", long. 73°05'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 46 feet, screen 44-46. Land-surface datum is 56.6 feet above msl. Highest water level 39.23 above msl, May 25, 1953; lowest 33.51 above msl, Jan. 25, 1951. Records available: 1907-9, 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	+37.76	Apr. 27	+37.79	July 26	+37.07	Nov. 1	+37.53
Feb. 23	+37.71	May 25	+37.76	Aug. 24	+36.91	23	+38.31
Mar. 23	+37.49	June 24	+37.47	Sept. 30	+36.48	Dec. 27	+38.79

S3729. City of New York, Board of Water Supply. Barton and Duntun Aves., Hagerman. Lat. 40°47'15", long. 72°57'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 39 feet, screen 37-39. Land-surface datum is 58.6 feet above msl. Highest water level 31.58 above msl, May 25, 1953; lowest 27.34 above msl, Apr. 4, 1947. Records available: 1943-55.

Jan. 25	+30.32	May 25	+30.33	Aug. 23	+29.47	Nov. 28	+30.52
Mar. 23	+30.13	June 21	+30.09	Sept. 29	+28.95	Dec. 22	+30.92
Apr. 27	+30.30	July 25	+29.73	Nov. 1	+29.82		

S3730. City of New York, Board of Water Supply. Barton and South Haven Rds., Plainfield. Lat. 40°48'10", long. 72°58'10". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 57 feet, screen 55-57. Land-surface datum is 80.5 feet above msl. Highest water level 38.01 above msl, June 23, 1953; lowest 33.04 above msl, Feb. 26, 1951. Records available: 1943-55.

Jan. 25	+36.32	May 25	+36.76	Aug. 23	+36.14	Nov. 23	+36.27
Mar. 23	+36.69	June 21	+36.69	Sept. 29	+35.68	Dec. 22	+37.22
Apr. 27	+36.58	July 25	+36.39	Nov. 1	+35.63		

S3737. U. S. Geol. Survey. Holbrook Rd., Centereach. Lat. 40°51'05", long. 73°04'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 64 feet, screen 62-64. Land-surface datum is 110.9 feet above msl. Highest water level 60.23 above msl, Dec. 22, 1955; lowest 54.33 above msl, Feb. 20, 1951. Records available: 1943-55.

Jan. 24	+58.73	Apr. 26	+59.25	July 25	+59.43	Nov. 1	+59.02
Feb. 21	+59.04	May 27	+59.28	Aug. 23	+59.36	23	+59.30
Apr. 1	+59.27	June 24	+59.52	Sept. 29	+58.98	Dec. 22	+60.23

S3868. U. S. Geol. Survey. Sheep Pasture Rd., Setauket. Lat. 40°55'10", long. 73°06'00". Driven observation water-table well in deposits of late Pleistocene age, diameter 4 to 2 inches, depth 114 feet, screen 108-114. Land-surface datum is 99.6 feet above msl. Highest water level 41.30 above msl, Oct. 4, 1953; lowest 36.21 above msl, Jan. 22, 1951. Records available: 1944-54. No measurement made in 1955.

S3869. U. S. Geol. Survey. Mount Sinai Rd., Coram. Lat. 40°53'25", long. 72°59'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 4 to 2 inches, depth 44 feet, screen 40-44. Land-surface datum is 84.4 feet above msl. Highest water level 59.11 above msl, Dec. 22, 1955; lowest 52.97 above msl, Jan. 22, 1951. Records available: 1944-55.

Jan. 24	+57.88	Apr. 26	+58.20	July 25	+57.87	Nov. 1	+57.63
Feb. 24	+58.03	May 27	+58.27	Aug. 23	+57.63	23	+58.49
Apr. 1	+58.02	June 23	+58.18	Sept. 29	+58.21	Dec. 22	+59.11

S3870. U. S. Geol. Survey. Mill Pond Rd., Coram. Lat. 40°51'40", long. 72°59'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 4 to 2 inches, depth 44 feet, screen 40-44. Land-surface datum is 88.1 feet above msl. Highest water level 58.23 above msl, Dec. 22, 1955; lowest 52.84 above msl, Feb. 20, 1951. Records available: 1944-55.

Jan. 24	+57.04	Apr. 26	+57.47	July 25	+57.37	Nov. 1	+57.21
Feb. 24	+57.21	May 27	+57.56	Aug. 23	+57.21	23	+57.83
Apr. 1	+57.27	June 23	+57.57	Sept. 29	+56.90	Dec. 22	+58.23

S3871. U. S. Geol. Survey. Locust Ave. and Fire Rd., Plainfield. Lat. 40°50'05", long. 72°58'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 4 to 2 inches, depth 92 feet, screen 88-92. Land-surface datum is 128.6 feet above msl. Highest water level 50.79 above msl, Aug. 27, 1953; lowest 45.84 above msl, Feb. 26, 1951. Records available: 1944-55.

Jan. 24	+48.89	Apr. 26	+49.56	July 25	+49.57	Nov. 1	+49.16
Feb. 24	+49.20	May 27	+49.55	Aug. 23	+49.52	23	+49.32
Apr. 1	+49.47	June 23	+49.48	Sept. 29	+49.27	Dec. 22	+49.85

S3955. U. S. Geol. Survey. Pond Path and Horseblock Rd., Setauket. Lat. 40°53'55", long. 73°05'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 76 feet, screen 74-76. Land-surface datum is 122.4 feet above msl. Highest water level 57.73 above msl, Aug. 24, 1953; lowest 51.40 above msl, Mar. 28, 1951. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+55.97	Apr. 26	+56.65	July 25	+56.86	Nov. 1	+56.56
Feb. 24	+56.11	May 27	+56.70	Aug. 23	+56.94	23	+56.53
Apr. 1	+56.48	June 24	+56.80	Sept. 29	+56.65	Dec. 22	+57.18

S3956. U. S. Geol. Survey. Yaphank and Miller Place Rds., Miller Place. Lat. 40°56'10", long. 73°59'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 124 feet, screen 122-124. Land-surface datum is 145.5 feet above msl. Highest water level 34.57 above msl, Aug. 27, 1953; lowest 30.29 above msl, Mar. 28, 1951. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+33.23	Apr. 26	+33.60	July 25	+33.70	Nov. 1	+33.83
Feb. 24	+33.36	May 27	+33.73	Aug. 23	+33.80	23	+33.98
Apr. 1	+33.55	June 23	+33.81	Sept. 29	+33.67	Dec. 22	+34.23

S3978. Village of Greenport Department of Public Works. Moores Lane, Greenport. Lat. 41°06'15", long. 72°22'25". Drilled unused water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 55 feet, screen assumed at bottom. Land-surface datum is 15.6 feet above msl. Highest water level 2.08 above msl, Apr. 2, 1953; lowest 0.30 below msl, Dec. 29, 1949. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+0.88	Apr. 26	+0.87	July 26	-0.15	Nov. 3	+1.56
Feb. 24	+.43	May 26	+.45	Aug. 24	+1.02	29	+1.49
Mar. 31	+.68	June 22	+.06	Oct. 7	+.76	Dec. 29	+35

S4134. Town of Riverhead. Roanoke Ave., Riverhead. Lat. 40°55'35", long. 72°40'10". Drilled observation artesian well in sands of Magothy(?) formation, diameter 4 inches, depth 225 feet, screen assumed at bottom. Land-surface datum is 23.3 feet above msl. Highest water level 14.23 above msl, Apr. 27, May 8, 1953; lowest 11.33 above msl, Nov. 23, 1950. Records available: 1945-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+13.74	+13.65e	+13.60	+13.52	+13.51	+13.09	+12.46	+11.99	+12.08	+11.99	+12.64	+13.21
2	13.78	13.65	.....	13.56	13.50	13.04	12.43	11.94	12.09	11.98	12.61	13.21
3	13.80	13.64	.....	13.58	13.44	13.01	12.46	11.85	12.09	11.98	12.59	13.26
4	13.78	13.60	.....	13.63	13.42	13.01	12.36	11.80	12.08	11.97	12.64	13.28
5	13.75	13.57	.....	13.61	13.42	13.01	12.33	11.80	12.09	11.97	12.87	13.28
6	13.73	13.59	.....	13.61	13.41	13.01	12.28	11.77	12.10	11.96	12.91	13.22
7	13.75	13.72	e13.65	13.61	13.41	13.04	12.23	11.75	12.09	12.05	12.93	13.18
8	13.76	13.71	13.62	13.58	13.42	13.03	12.26	11.84	12.04	12.09	12.96	13.17
9	13.76	13.69	13.60	13.53	13.44	13.03	12.25	11.90	12.01	12.09	13.00	13.17
10	13.78	13.67	13.60	13.55	13.37	13.03	12.23	11.94	12.00	12.10	13.02	13.21
11	13.77	13.70	13.57	13.58	13.34	13.01	12.26	12.00	12.01	12.10	13.11	13.20
12	13.77	13.77	13.54	13.56	13.29	13.04	12.19	12.06	12.06	12.10	13.12	13.20
13	13.80	13.67	13.53	13.52	13.26	13.03	12.13	12.17	12.02	12.10	13.12	13.18
14	13.83	13.62	e13.53	13.51	13.27	13.00	12.11	12.20	11.99	.....	13.20	13.17
15	13.81	13.64	.....	13.52	13.26	12.95	12.10	12.20	12.00	.....	13.22	13.20
16	13.81	13.61	.....	13.53	.....	12.89	12.08	12.20	11.99	.....	13.22	13.23
17	13.80	13.57	.....	13.52	.....	12.84	12.10	12.20	11.94	12.44	13.24	13.20
18	13.77	13.58	.....	13.53	.....	12.76	12.12	12.20	11.92	12.47	13.20	13.18
19	13.76	13.59	.....	13.53	.....	12.67	12.08	12.23	11.93	12.51	13.18	13.18
20	13.75	13.59	.....	13.50	.....	12.75	12.06	12.24	11.94	12.52	13.13	13.16
21	13.73	13.59	13.54	13.46	.....	12.75	12.05	12.20	11.98	12.54	13.28	13.13
22	13.74	13.59	13.60	13.47	.....	12.67	12.00	12.19	11.97	12.56	13.28	13.13
23	13.74	13.60	13.68	13.49	.....	12.59	11.93	12.15	.....	12.56	13.28	13.14
24	13.73	13.59	13.66	13.50	.....	12.52	11.92	12.15	.....	12.61	13.30	13.14
25	13.67	13.57	13.64	13.54	.....	12.58	11.98	12.14	.....	12.64	13.30	13.15
26	13.64	13.56	13.64	13.54	.....	12.64	11.99	12.14	11.95	12.63	13.31	13.12
27	13.64	13.57	13.67	13.51	.....	12.71	11.98	12.14	11.93	12.62	13.31	13.07
28	13.65	13.61	13.66	13.48	.....	12.67	11.97	12.14	11.97	12.59	13.32	12.98
29	13.65	.....	13.58	13.50	.....	12.60	11.99	12.12	11.99	12.59	13.29	12.95
30	13.65	.....	13.54	13.51	13.05	12.52	12.00	12.10	11.99	12.61	13.23	13.03
31	13.65	.....	13.50	.....	13.11	.....	12.00	12.09	.....	12.65	.....	13.01

e Estimated.

S4268. U. S. Geol. Survey. Town Line Rd., Northport. Lat. 40°52'55", long. 73°17'05". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 74 feet, screen 69-74. Land-surface datum is 111.0 feet above msl. Highest water level 53.82 above msl, Dec. 22, 1955; lowest 46.65 above msl, Mar. 27, 1951. Records available: 1945-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+50.54	Apr. 27	+50.54	July 25	+50.69	Nov. 1	+53.11
Feb. 23	+50.79	May 24	+50.60	Aug. 23	+51.14	23	+53.72
Mar. 24	+50.59	June 24	+50.63	Sept. 29	+50.87	Dec. 22	+53.82

S4270. U. S. Geol. Survey. Wicks Ave. and Crooked Hill Rd., Pineaire. Lat. 40°47'10", long. 73°16'10". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 83 feet, screen 78-83. Land-surface datum is 120.2 feet above msl. Highest water level 57.22 above msl, Dec. 27, 1955; lowest 49.86 above msl, Feb. 19, 1951. Records available: 1945-55.

Jan. 26	+53.56	Apr. 27	+53.79	July 26	+53.46	Nov. 1	+54.69
Feb. 23	+53.87	May 24	+53.82	Aug. 25	+53.78	23	+56.18
Mar. 24	+54.02	June 24	+53.67	Sept. 30	+53.74	Dec. 27	+57.22

S4271. U. S. Geol. Survey. Long Island Research Farm, Riverhead. Lat. 40°57'30", long. 72°43'30". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 105 feet, screen 100-105. Land-surface datum is 100.3 feet above msl. Highest water level 11.84 above msl, Apr. 26, 1955; lowest 9.12 above msl, Sept. 10-12, 1950. Records available: 1945-55.

Jan. 24	+11.69	Apr. 26	+11.84	July 25	+10.35	Nov. 3	+10.41
Feb. 24	+11.75	May 26	+11.57	Aug. 24	+10.15	25	+10.70
Apr. 1	+11.78	June 23	+11.27	Oct. 7	+10.23		

S4524. U. S. Geol. Survey. Tuthill Rd., Laurel. Lat. 40°56'50", long. 72°36'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 23 feet, screen 21-23. Land-surface datum is 23.5 feet above msl. Highest water level 9.44 above msl, May 1, 1953; lowest 5.52 above msl, Nov. 2, 1950. Records available: 1945-55.

Jan. 24	+8.50	Apr. 26	+8.21	July 25	+6.38	Nov. 2	+6.77
Feb. 24	+8.52	May 26	+7.84	Aug. 24	+6.51	29	+7.49
Mar. 31	+8.25	June 22	+7.23	Oct. 6	+6.10	Dec. 28	+7.26

S4526. J. T. Downe. Sound Ave., Riverhead. Lat. 40°58'10", long. 72°38'15". Dug unused water-table well in deposits of late Pleistocene age, diameter 36 inches, depth 65 feet. Land-surface datum is 67.9 feet above msl. Highest water level 11.42 above msl, Aug. 26, 1953; lowest 7.47 above msl, Dec. 28, 1950. Records available: 1945-55.

Jan. 24	+10.60	Apr. 26	+10.73	July 25	+9.01	Nov. 7	+8.88
Feb. 24	+10.75	May 26	+10.51	Aug. 24	+8.69	25	+9.20
Apr. 1	+10.78	June 23	+10.01	Oct. 6	+8.65		

S4827. U. S. Geol. Survey. Broadway, Greenlawn. Lat. 40°51'45", long. 73°21'55". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 199 feet, screen 194-199. Land-surface datum is 215.0 feet above msl. Highest water level 60.32 above msl, Nov. 23, 1953; lowest 54.23 above msl, May 28, 1951. Records available: 1946-55.

Jan. 26	+58.02	Apr. 27	+58.06	July 25	+57.86	Nov. 1	+58.21
Feb. 23	+58.00	May 24	+58.13	Aug. 23	+57.91	23	+58.46
Mar. 24	+58.05	June 24	+57.97	Sept. 29	+57.97	Dec. 22	+58.89

S4828. U. S. Geol. Survey. Park Ave. and Broadway, Greenlawn. Lat. 40°50'20", long. 73°22'10". Drilled observation artesian well in sands of Magothy(?) formation, diameter 4 inches, depth 141 feet, screen 136-141. Land-surface datum is 185.0 feet above msl. Highest water level 71.07 above msl, Oct. 23, 1953; lowest 65.17 above msl, Jan. 24, 1952. Records available: 1946-55.

Jan. 26	+69.18	Apr. 27	+69.19	July 25	+68.47	Nov. 1	+68.87
Feb. 23	+69.24	May 24	+69.02	Aug. 23	+68.57	23	+69.11
Mar. 23	+69.23	June 24	+68.69	Sept. 29	+68.67	Dec. 22	+69.78

S4829. U. S. Geol. Survey. Randall Rd., Shoreham. Lat. 40°56'15", long. 72°53'55". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 97 feet, screen 92-97. Land-surface datum is 114.0 feet above msl. Highest water level 41.31 above msl, Aug. 27, 1953; lowest 36.74 above msl, Apr. 4, 1951. Records available: 1946-55.

Jan. 24	+40.63	Apr. 26	+41.15	July 25	+40.71	Nov. 1	+40.90
Feb. 21	+40.78	May 27	+41.14	Aug. 23	+40.74	23	+41.06
Apr. 1	+41.09	June 23	+41.09	Sept. 30	+40.76		

S5517. Brookhaven National Laboratory. Upton Rd. and Princeton Ave. Lat. 40°51'50", long. 72°53'15". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 91 feet, screen 85-91. Land-surface datum is 115.0 feet above msl. Highest water level 45.49 above msl, June 9, 13-19, 1953; lowest 39.60 above msl, Feb. 4-6, 8-9, 1951. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	+44.26	Apr. 25	+44.67	July 27	+44.17	Nov. 1	+43.90
Feb. 21	+44.50	May 26	+44.75	Aug. 26	+43.79	29	+44.92
Mar. 23	+44.38	June 27	+44.53	Sept. 30	+43.22		

S6400. Brookhaven National Laboratory. Fourth Ave. and Railroad St. Lat. 40°52'35", long. 72°53'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 61 feet, screen 59-61. Land-surface datum is 90.8 feet above msl. Highest water level 47.36 above msl, May 28, 1953; lowest 40.97 above msl, Jan. 26, 1951. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	+46.26	Apr. 25	+46.45	July 27	+45.48	Nov. 1	+45.12
Feb. 21	+46.23	May 26	+46.35	Aug. 26	+44.94	29	+46.40
Mar. 23	+46.14	June 27	+46.16	Sept. 30	+44.32		

S6409. Brookhaven National Laboratory. Yale and Upton Rds. Lat. 40°51'40", long. 72°53'50". Drilled observation artesian well in Lloyd sand member of Raritan formation, diameter 8 inches, depth 1,434 feet, screen 1,408-1,433. Land-surface datum is 113.2 feet above msl. Highest water level 35.02 above msl, July 2, 1953; lowest 31.46 above msl, Feb. 15, 1951. Records available: 1949-55. Jan. 21, +34.31; Feb. 21, +34.44; Mar. 23, +34.84.

S6410. Brookhaven National Laboratory. Ridge Rd. near State Highway 25A, Ridge. Lat. 40°55'20", long. 72°54'05". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 88 feet, screen 83-88. Land-surface datum is 108.7 feet above msl. Highest water level 48.36 above msl, Aug. 5, 1953; lowest 42.59 above msl, Feb. 25-26, 28, Mar. 1-7, 1951. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+47.32	Apr. 26	+47.84	July 25	+47.93	Nov. 1	+46.81
Feb. 21	+47.65	May 27	+47.92	Aug. 23	+47.69	25	+47.33
Apr. 1	+47.82	June 23	+48.06	Sept. 30	+47.28		

S6411. Brookhaven National Laboratory. Ridge Rd. and State Highway 25A, Shoreham. Lat. 40°56'50", long. 73°54'15". Drilled observation water-table well in deposits of late Pleistocene age, diameter 4 inches, depth 149 feet, screen 143-149. Land-surface datum is 138.4 feet above msl. Highest water level 32.14 above msl, Oct. 28, 1953; lowest 28.39 above msl, Apr. 4, 1951. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+31.32	Apr. 26	+31.69	July 25	+31.81	Nov. 1	+31.87
Feb. 21	+31.34	May 27	+31.75	Aug. 23	+31.85	25	+31.94
Apr. 1	+31.55	June 23	+31.91	Sept. 30	+31.84		

S6435. Brookhaven National Laboratory. Long Island Ave., South Haven. Lat. 40°49'00", long. 72°52'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 82 feet, screen 80-82. Land-surface datum is 76.4 feet above msl. Highest water level 22.66 above msl, June 10, 1953; lowest 19.05 above msl, Feb. 26, 1951. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+21.27	Apr. 27	+21.44	July 25	+21.40	Nov. 1	+21.25
Feb. 21	+21.54	May 25	+21.62	Aug. 23	+21.28	29	+21.48
Mar. 23	+21.66	June 21	+21.52	Sept. 30	+20.95		

S6441. Brookhaven National Laboratory. Wading River Rd. near North St., Manorville. Lat. 40°52'10", long. 72°49'25". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 21 feet, screen 19-21. Land-surface datum is 46.2 feet above msl. Highest water level 38.88 above msl, Apr. 25, 1953; lowest 34.42 above msl, Nov. 24, 1950. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+37.91	Apr. 25	+37.75	July 25	+36.32	Nov. 2	+37.45
Feb. 23	+37.69	May 25	+37.48	Aug. 23	+36.79	29	+38.22
Mar. 23	+37.93	June 21	+37.06	Oct. 7	+36.16		

S6524. Southold Fire Dept. Bayview Rd., Southold. Lat. 41°02'55", long. 72°26'10". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 40 feet, screen assumed at bottom. Land-surface datum is 5.7 feet above msl. Highest water level 3.04 above msl, May 4, 1953; lowest 0.66 above msl, Feb. 1, 1950. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+2.39	Apr. 26	+2.24	July 26	+1.44	Nov. 3	+2.51
Feb. 24	+2.15	May 26	+2.06	Aug. 24	+1.94	29	+2.83
Mar. 31	+2.20	June 22	+1.78	Oct. 7	+1.80	Dec. 29	+1.61

S6532. Conway Bros. Hortons Lane, Southold. Lat. 41°03'55", long. 72°26'10". Dug domestic water-table well in deposits of late Pleistocene age, diameter 24 inches, depth 52 feet. Land-surface datum is 45.9 feet above msl. Highest water level 5.52 above msl, May 27, 1953; lowest 1.95 above msl, Feb. 27, 1950. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	+4.12	Apr. 26	+3.76	Aug. 24	+2.88	Nov. 29	+4.30
Feb. 24	+4.02	June 22	+3.25	Oct. 7	+2.84	Dec. 29	+4.38
Mar. 31	+3.73	July 26	+2.75	Nov. 3	+3.61		

S6542. Cutchogue Fire Dept. Depot Lane. Lat. 41°01'05", long. 72°29'25". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 36 feet, screen assumed at bottom. Land-surface datum is 24.4 feet above msl. Highest water level 7.89 above msl, May 27, 1953; lowest 3.22 above msl, Nov. 2, 1950. Records available: 1949-55.

Jan. 24	+6.61	Apr. 26	+6.26	July 26	+4.75	Nov. 3	+5.16
Feb. 24	+6.47	May 26	+6.08	Aug. 24	+4.64	29	+6.01
Mar. 31	+6.32	June 22	+5.44	Oct. 7	+4.36	Dec. 29	+5.82

S6558. Mattituck Fire Dept. State Highway 25, Mattituck. Lat. 40°58'30", long. 72°33'10". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 37 feet, screen assumed at bottom. Land-surface datum is 13.9 feet above msl. Highest water level 6.23 above msl, May 1, 1953; lowest 2.78 above msl, June 27, 1950. Records available: 1949-55.

Jan. 24	+5.00	Apr. 26	+4.80	July 26	+3.66	Nov. 2	+3.45
Feb. 24	+4.83	May 26	+4.61	Aug. 24	+3.50	29	+4.60
Mar. 31	+4.76	June 22	+4.35	Oct. 6	+3.43	Dec. 29	+4.37

S6780. J. Moisa. Breakwater Rd., Mattituck. Lat. 41°00'05", long. 72°33'45". Drilled irrigation water-table well in deposits of late Pleistocene age, diameter 10 inches, depth 100 feet, screen assumed at bottom. Land-surface datum is 48.3 feet above msl. Highest water level 5.69 above msl, May 27, 1953; lowest 2.77 above msl, June 26, 1950. Records available: 1949-55.

Jan. 24	+4.57	Apr. 26	+4.47	Aug. 24	+3.52	Nov. 2	+3.93
Feb. 24	+4.56	July 26	+3.40	Oct. 7	+3.54	29	+4.32
Apr. 1	+4.46						

S7267. Cutchogue Fire Dept. North Rd., Cutchogue. Lat. 41°01'50", long. 72°30'05". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 43 feet, screen assumed at bottom. Land-surface datum in sand pit is 18.2 feet above msl. Highest water level 7.78 above msl, May 27, 1953; lowest 3.58 above msl, Aug. 30, 1950. Records available: 1949-54. No measurement made in 1955.

S7283. W. Karcher. State Highway 25, Orient. Lat. 41°08'50", long. 72°17'40". Dug unused water-table well in deposits of late Pleistocene age, diameter 24 inches, depth 30 feet. Land-surface datum is 23.1 feet above msl. Highest water level 5.09 above msl, Apr. 26-27, 1953; lowest 1.28 above msl, Jan. 28-Feb. 2, 1950. Records available: 1949-55.

Daily mean water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+3.71	+3.54	+3.19	+3.43	+3.19	+2.69	+2.24	+1.81	+2.58	+2.27	+3.62	+4.06
2	3.73	3.50	3.17	3.44	3.18	2.56	2.21	1.81	2.57	2.26	3.60	4.05
3	3.74	3.48	3.15	3.45	3.17	2.59	2.18	1.81	2.55	2.26	3.61	4.04
4	3.76	3.44	3.16	3.45	3.17	2.51	2.17	1.80	2.54	2.26	3.74	4.03
5	3.77	3.42	3.17	3.45	3.16	2.51	2.16	1.80	2.53	2.25	3.82	4.00
6	3.79	3.41	3.19	3.46	3.15	2.59	2.13	1.80	2.52	2.33	3.84	3.97
7	3.81	3.42	3.19	3.46	3.14	2.60	2.12	1.77	2.51	2.43	3.88	3.95
8	3.81	3.40	3.20	3.45	3.13	2.61	2.11	1.76	2.49	2.45	3.91	3.93
9	3.82	3.38	3.24	3.43	3.12	2.60	2.09	1.76	2.47	2.47	3.94	3.92
10	3.82	3.37	3.26	3.44	3.10	2.59	2.07	1.75	2.46	2.49	3.96	3.89
11	3.82	3.37	3.30	3.44	3.10	2.58	2.06	1.75	2.45	2.51	3.98	3.86
12	3.83	3.38	3.32	3.41	3.08	2.57	2.09	1.78	2.44	....	3.98	3.84
13	3.84	3.36	3.33	3.40	3.02	2.57	2.01	2.04	2.42	....	3.98	3.82
14	3.83	3.35	3.33	3.40	3.04	2.56	2.01	2.24	2.41	....	4.01	e3.79
15	3.83	3.35	3.35	3.40	3.04	2.54	2.01	2.41	2.41	....	4.03	e3.76
16	3.81	3.33	3.38	3.38	3.04	2.52	2.00	2.44	2.40	2.87	4.07	e3.73
17	3.79	3.32	3.37	3.35	3.03	2.51	2.00	2.45	2.38	3.26	4.12	e3.72
18	3.77	3.31	3.36	3.34	3.03	2.48	1.96	2.45	2.36	e3.46	4.17	3.70
19	3.75	3.30	3.35	3.34	3.02	2.46	1.81	2.47	2.35	e3.55	4.17	3.68
20	3.73	3.28	3.34	3.31	3.01	2.46	1.86	2.54	2.34	e3.60	4.18	3.65
21	3.70	3.27	3.34	3.31	2.99	2.31	1.89	2.58	2.37	e3.62	4.19	3.62
22	3.71	3.25	3.36	3.30	2.97	2.19	1.89	2.59	2.29	e3.64	4.19	3.60
23	3.70	3.24	3.38	3.29	2.97	2.12	1.88	2.59	2.27	3.64	4.19	3.58
24	3.68	3.23	3.38	3.27	2.95	2.06	1.86	2.60	2.26	3.65	4.20	3.56
25	3.66	3.22	3.38	3.26	2.93	2.10	1.86	2.60	2.25	e3.66	4.18	....

S7283--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	+3.65	+3.21	+3.40	+3.25	+2.75	+2.22	+1.85	+2.60	+2.25	+3.66	+4.18	....
27	3.63	3.20	3.41	3.24	2.62	2.25	1.84	2.61	2.24	e3.65	4.16	....
28	3.61	3.20	3.41	3.22	2.58	2.17	1.83	2.62	2.25	e3.65	4.17	....
29	3.59		3.41	3.22	e2.57	2.22	1.82	2.61	2.28	e3.65	4.14	....
30	3.56		3.41	3.20	2.61	2.24	1.82	2.61	2.28	3.64	4.10	....
31	3.54		3.42		2.68		1.81	2.60		3.63		....

e Estimated.

S8831. U. S. Geol. Survey. Lake Dr. and North Sea Rd., Southampton. Lat. 40°55'15", long. 72°24'50". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 23 feet, screen 21-23. Land-surface datum is 18.5 feet above msl. Highest water level 8.41 above msl, Apr. 1, 1953; lowest 6.23 above msl, Oct. 31, 1950. Records available: 1950-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+7.87	Apr. 25	+7.59	July 26	+6.83	Nov. 2	+7.21
Feb. 23	+7.60	May 25	+7.34	Aug. 25	+7.03	25	+7.58
Mar. 25	+7.75	June 20	+7.14	Oct. 6	+6.73	Dec. 28	+7.18

S8834. U. S. Geol. Survey. State Highway 114, Sag Harbor. Lat. 40°59'10", long. 72°15'30". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 23 feet, screen 21-23. Land-surface datum is 26.1 feet above msl. Highest water level 14.36 above msl, Dec. 23, 1953; lowest 9.58 above msl, Dec. 26, 1950. Records available: 1950-55.

Jan. 25	+13.48	Apr. 25	+13.42	July 26	+12.33	Nov. 2	+12.34
Feb. 23	+13.43	May 25	+13.17	Aug. 25	+12.22	25	+12.89
Mar. 25	+13.52	June 20	+12.91	Oct. 6	+11.56	Dec. 28	+12.42

S8835. U. S. Geol. Survey. State Highway 24, Hampton Bays. Lat. 40°53'10", long. 72°32'30". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 33 feet, screen 31-33. Land-surface datum is 33.3 feet above msl. Highest water level 11.09 above msl, May 26, 1953; lowest 6.95 above msl, Jan. 23, 1951. Records available: 1950-55.

Jan. 25	+9.78	Apr. 25	+9.63	July 26	+8.73	Nov. 2	+8.60
Feb. 23	+9.56	May 25	+9.47	Aug. 25	+8.47	25	+9.15
Mar. 25	+9.54	June 20	+9.23	Oct. 6	+8.08	Dec. 28	+8.94

S8836. Southampton Fire Dept. Nugent St., Southampton. Lat. 40°53'15", long. 72°23'35". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 8 inches, depth 37 feet, screen assumed at bottom. Land-surface datum is 17.4 feet above msl. Highest water level 8.88 above msl, Apr. 29, 1953; lowest 5.61 above msl, Jan. 23, 1951. Records available: 1950-55.

Jan. 25	+7.70	Apr. 25	+7.39	July 26	+6.60	Nov. 2	+6.82
Feb. 23	+7.47	May 25	+7.22	Aug. 25	+6.81	25	+7.33
Mar. 25	+7.39	June 20	+6.97	Oct. 6	+6.43	Dec. 28	+7.04

S8837. East Hampton Fire Dept. State Highway 27, East Hampton. Lat. 40°58'05", long. 72°10'15". Drilled fire-protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 34 feet, screen assumed at bottom. Land-surface datum is 14.8 feet above msl. Highest water level 9.71 above msl, May 26, 1953; lowest 6.92 above msl, Dec. 26, 1950. Records available: 1950-55.

Jan. 25	+8.94	Apr. 25	+9.02	July 26	+8.28	Nov. 2	+9.48
Feb. 23	+9.00	May 25	+8.71	Aug. 25	+8.41	25	+9.12
Mar. 25	+9.08	June 20	+8.53	Oct. 6	+8.04	Dec. 28	+8.72

S8839. A. Toler. Windmill Lane, Amagansett. Lat. 40°58'35", long. 72°08'55". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 37 feet, screen 35-37. Land-surface datum is 39.3 feet above msl. Highest water level 9.51 above msl, May 26, 1953; lowest 6.29 above msl, Jan. 23, 1951. Records available: 1950-55.

Jan. 25	+8.49	Apr. 25	+8.38	July 26	+7.64	Nov. 2	+7.97
Feb. 23	+8.55	May 25	+8.25	Aug. 25	+7.81	25	+8.68
Mar. 25	+8.29	June 20	+8.04	Oct. 6	+7.48	Dec. 28	+8.29

S8912. F. Lackman. State Highways 25 and 25A, The Branch. Lat. 40°51'20", long. 73°11'15". Dug unused water-table well in deposits of late Pleistocene age, diameter 36 inches, depth 28 feet. Land-surface datum is 59.3 feet above msl. Highest water level 37.11 above msl, Nov. 23, 1955; lowest 32.90 above msl, Jan. 27, 1948. Records available: 1947-55.

Jan. 24	+35.48	Apr. 26	+35.15	July 25	+34.20	Nov. 1	+36.09
Feb. 21	+34.96	May 25	+34.90	Aug. 23	+34.42	23	+37.11
Mar. 24	+34.84	June 21	+34.60	Sept. 30	+34.21	Dec. 22	+36.21

UPSTATE NEW YORK

By J. A. Ziarno and Ralph C. Heath

Scope of Water-Level Program

The observation-well program in Upstate New York was continued in 1955 in cooperation with the New York State Water Power and Control Commission. Of the 80 wells in the program, 15 are equipped with recording gages and 85 are measured periodically. Figure 29 shows the location of 31 observation wells whose records are included in this report.

A report on the ground-water resources of Greene County, N. Y., by Jean M. Berdan, was published as State Water Power and Control Commission Bulletin GW-34. A report on the ground-water resources of Westchester County, N. Y., Part I, Records of wells and test holes, by E. S. Asselstine and I. G. Grossman was completed.

Precipitation

The statewide annual precipitation was 39.78 inches, only 0.69 inch above normal. Thirty-seven percent of the total annual precipitation fell during August and October, the two wettest months. February and March were the only other months in which above-normal precipitation was recorded. Precipitation was below normal from April through July. Hurricanes "Connie" and "Diane" in August brought heavy rains which ended the summer drought. The precipitation total for October broke the alltime record high for any month. Peru in the northeastern corner of the State received the lowest annual total, 24.74 inches. The highest annual total, 77.08 inches, was recorded at Slide Mountain in the southeastern part of the State.

Pumpage

The following table shows the average daily pumpage in millions of gallons in the Schenectady area, the Corning area, the Jamestown area, and the triple-cities area of Binghamton, Johnson City, and Endicott. The total annual pumpage reported for the industries and municipalities listed shows an increase of about 1.5 billion gallons over the totals reported for 1954.

Average daily pumpage (millions of gallons)														
Area	J	F	M	A	M	J	J	A	S	O	N	D	Total	
Triple-Cities														
Endicott Waterworks Co.	7.8	7.9	8.0	7.9	8.1	8.5	9.7	9.8	9.7	9.3	8.9	8.6	3,166	
Johnson City Municipal	6.4	6.7	6.7	6.6	6.2	6.8	7.0	7.2	6.3	6.7	6.1	5.8	2,386	
AnSCO Corp.	5.2	5.6	5.6	5.6	6.1	7.1	6.5	8.0	7.0	6.7	6.1	5.9	2,308	
International Business														
Machines Corp.	2.3	2.2	2.3	2.5	2.8	2.6	2.2	2.0	2.2	2.2	2.2	1.9	832	
Hillcrest Municipal	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	114	
Schenectady														
Schenectady Municipal	17.8	18.2	18.9	18.7	22.0	20.4	25.8	22.7	19.7	18.6	20.9	18.0	7,361	
Rotterdam Water District														
5, Municipal	0.6	0.6	0.6	0.7	2.2	1.7	3.1	2.0	1.2	0.7	0.7	0.7	450	
Scotia Municipal	0.9	0.9	0.9	0.9	1.0	0.9	1.1	1.0	0.9	0.9	0.9	0.9	345	
Jamestown														
Jamestown Municipal	4.5	4.7	4.7	4.8	5.1	5.2	6.0	5.4	5.2	4.9	4.8	5.0	1,838	
Corning														
Corning Glass Works n/	1.5	1.4	1.6	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.5	587	

n/Does not include unmetered water.

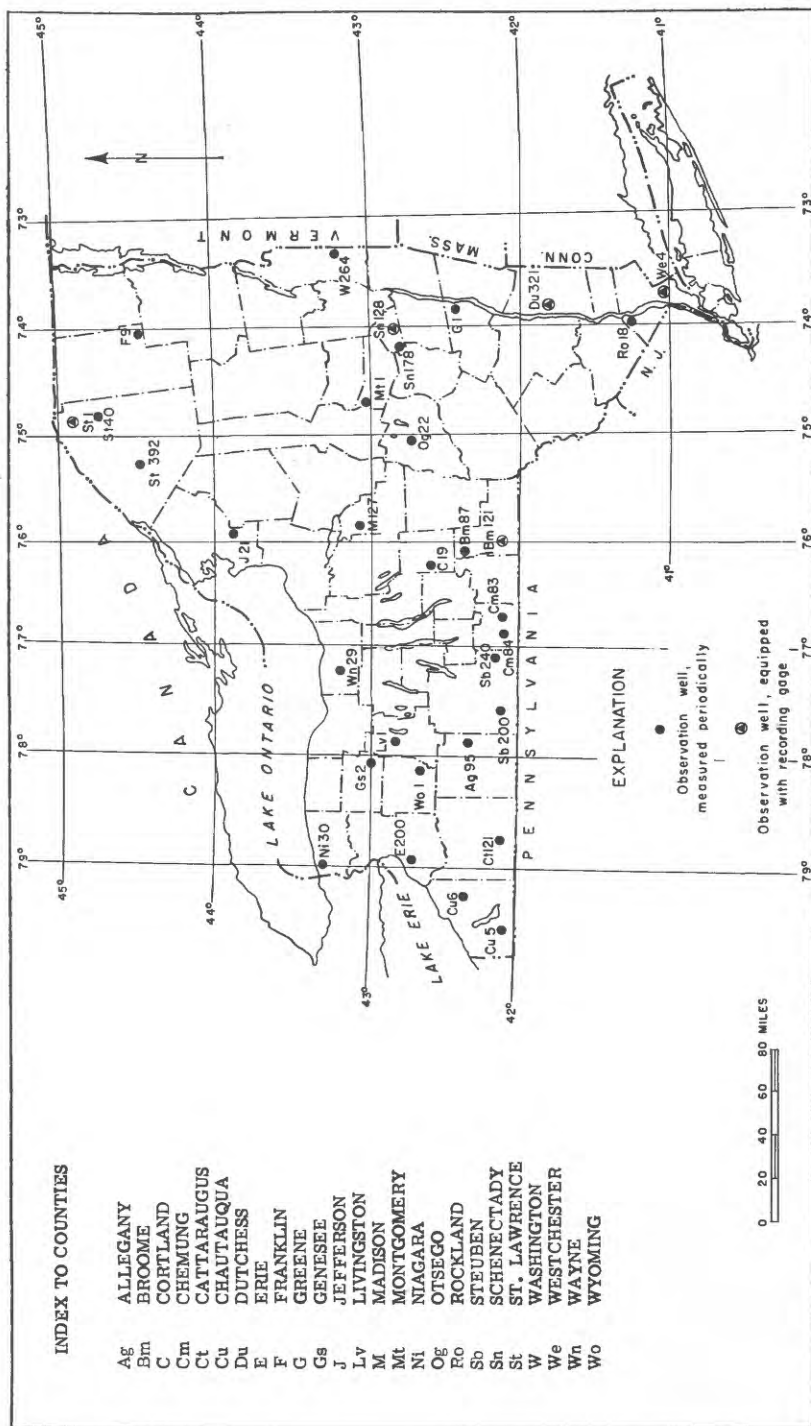


Figure 29. --Location of observation wells in Upstate New York, 1955.

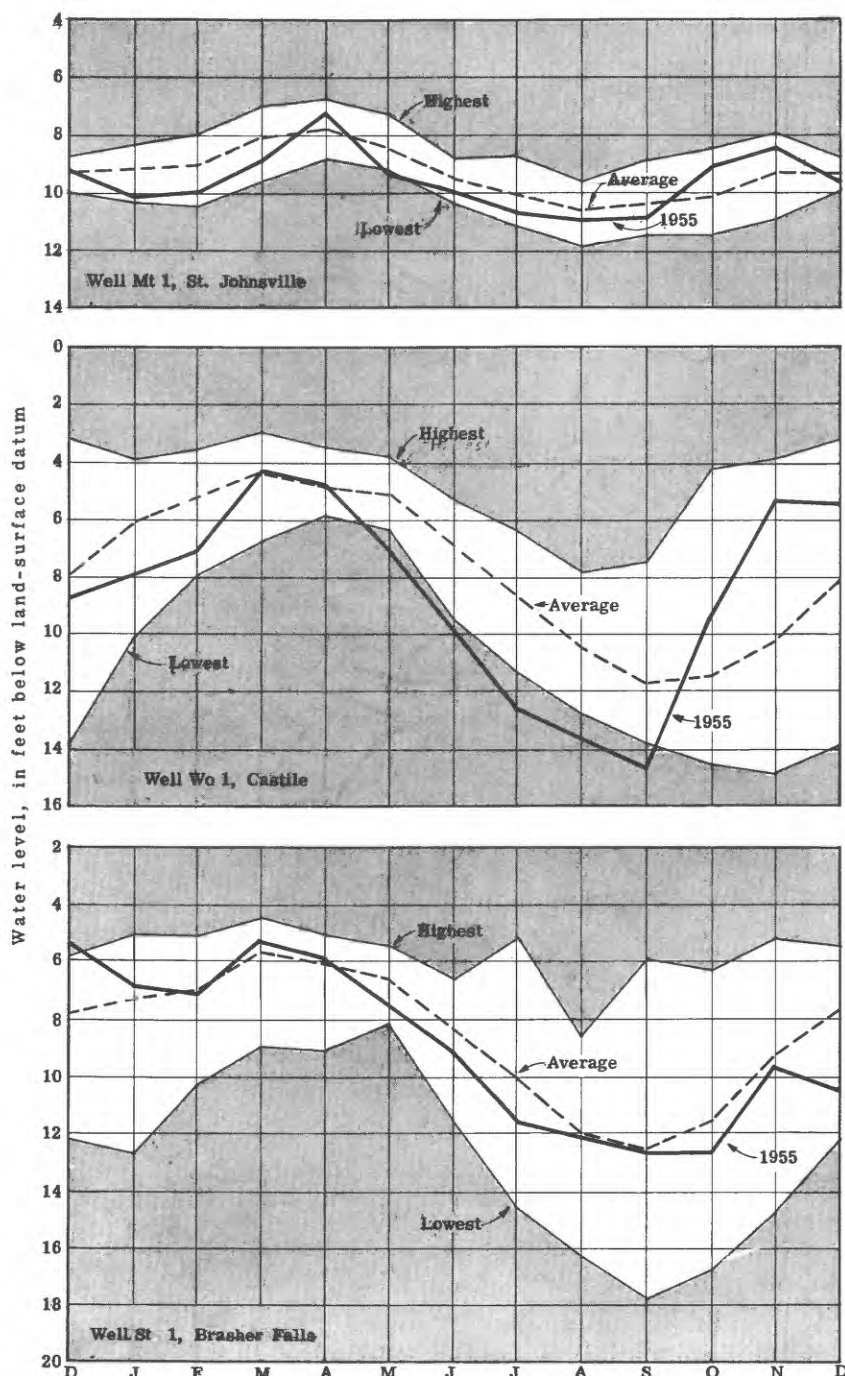


Figure 30. --Month-end water levels and average water levels for 12 years of record in wells Mt 1, Wo 1, and St 1, Upstate New York.

Interpretation of Water-Level Fluctuations

The downward trend of water levels which began in January 1955 continued into February when above-normal precipitation caused a rise. The normal seasonal decline in most of the western part of the State began late in March and in the eastern part, late in April. The downward trend which was well established in all parts of the State by the end of May continued at a relatively rapid rate until August when the precipitation accompanying hurricane "Connie" reduced the rate of decline. The rapid rise in water levels in all parts of the State after the record-breaking precipitation in October continued until November. A decline which began in November continued through the end of the year.

Wells Mt 1 and Wo 1, each having 14 years of record, missed reaching new lows during 1955 by 0.43 foot and 0.11 foot, respectively. New lows were reached, however, in wells Bm 87, Ct 121, Cu 6, C 19, Gs 2, M 127, St 40, St 392, and Sn 128. Water levels reached new highs during 1955 in wells Cm 83, Gs 2, St 40, St 392, and Sn 128.

Figure 30 shows the month-end water levels and average water levels for 12 years of record in wells Mt 1, Wo 1, and St 1, Upstate New York.

Well-Numbering System

Wells in Upstate New York are numbered serially in each county. A letter or combination of two letters from the name of the county is prefixed to the well numbers. Thus, the letters "Ag" are prefixed to all well numbers in Allegany County.

Well Descriptions and Water-Level Measurements

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

Allegany County

Ag 95. Ronald Mullikin. Near Almond. Lat. 42°20'04", long. 77°44'24". Dug domestic water-table well in glacial outwash of Pleistocene age, diameter 30 inches, depth 13 feet, stone-lined. Land-surface datum is about 1,550 feet above msl. Highest water level 0.40 below lsd, Apr. 12, 1952; lowest 12.72 below lsd, Nov. 21, 1953. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	10.19	Apr. 9	2.31	July 9	6.97	Oct. 8	8.00
8	9.40	16	2.47	16	7.62	15	8.02
15	9.06	23	2.96	23	7.20	22	7.80
22	8.26	30	2.69	30	6.98	29	7.69
29	8.14	May 7	3.13	Aug. 6	6.84	Nov. 5	7.40
Feb. 5	7.95	14	3.72	13	6.86	12	7.13
12	7.43	21	4.01	20	6.94	19	4.82
19	7.01	27	4.08	27	7.09	26	4.44
26	5.89	28	4.12	Sept. 3	7.17	Dec. 3	3.70
Mar. 5	3.40	June 4	4.26	10	7.36	10	3.63
12	1.18	11	4.36	17	7.65	17	3.61
19	1.86	18	4.46	24	7.83	24	3.54
26	1.69	25	4.60	Oct. 1	7.86	31	3.56
Apr. 2	2.15	July 2	4.72				

Broome County

Bm 87. Helen Frawley. Near Center Lisle. Lat. 42°19'40", long. 76°05'58". Dug unused water-table well in glacial till of Pleistocene age, diameter 36 inches, depth 19 feet, stone-lined. Land-surface datum is about 1,520 feet above msl. Highest water level 1.69 below lsd, Apr. 5, 1947; lowest 9.74 below lsd, Feb. 6, 1955. Records available: 1947-55.

Jan. 31	8.26	Mar. 20	6.56	May 8	5.73	June 23	8.84
Feb. 6	9.74	27	7.27	15	5.55	26	8.86
13	7.57	Apr. 3	4.44	22	6.09	July 3	8.92
20	4.64	10	6.64	29	5.47	10	8.65
27	3.13	17	4.49	June 5	7.96	17	9.00
Mar. 6	3.33	24	6.02	12	8.80	24	9.03
13	5.53	May 1	5.91	19	8.85	31	8.91

Bm 121. U. S. Geol. Survey. Camden and Main Sts., Johnson City. Lat. 42°06'57", long. 75°58'35". Drilled observation artesian well in glacial sand of Pleistocene age, diameter 6 inches, depth 51 feet, cased to 51, open end. Land-surface datum is about 835 feet above msl. Highest water level 17.85 below lsd, Dec. 10, 1950; lowest 31.43 below lsd, Nov. 21-23, 1952. Records available: 1947-55.

Bm 121--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	21.84	May 16	25.15	July 27	k29.30	Sept. 26	30.19
10	21.86	23	26.10	28	k29.54	Oct. 3	30.35
17	23.24	31	26.83	29	k29.74	10	30.21
24	24.81	June 6	26.87	30	k29.92	17	25.48
31	25.96	12	27.43	31	k30.08	21	21.70
Feb. 7	26.82	20	27.97	Aug. 1	k30.21	24	21.87
14	26.60	27	28.71	2	k30.29	31	22.87
21	26.33	July 5	28.98	3	k30.38	Nov. 3	20.90
28	24.45	11	29.14	4	k30.47	7	21.24
Mar. 25	19.26	18	29.55	5	k30.57	14	22.52
28	19.54	20	j29.70	6	k30.67	21	22.09
Apr. 4	21.29	21	k16.77	7	k30.77	28	21.96
11	22.23	22	k23.25	22	29.28	Dec. 5	23.33
18	23.13	23	k26.30	29	29.88	12	23.97
25	23.76	24	k27.96	Sept. 6	29.61	19	24.45
May 2	23.81	25	k28.71	13	29.54	27	24.69
9	24.38	26	k29.04	19	29.88		

j Water injected after this measurement.

k Declining from efficiency test of July 20.

Cattaraugus County

Ct 121. State Department of Conservation. Near Red House. Lat. 42°05'38", long. 78°44'52". Drilled unused artesian well in sand and gravel, diameter 6 inches, depth 59 feet, cased to 59, open end. Land-surface datum is about 1,455 feet above msl. Highest water level 4.8 below lsd, Apr. 22, 29, 1951; lowest 12.89 below lsd, Sept. 30, 1955. Records available: 1950-55.

Jan. 7	7.78	Apr. 8	6.66	July 1	9.87	Oct. 14	n12.90
14	7.85	15	6.55	8	10.25	21	n12.25
21	8.05	22	6.20	22	11.01	28	n11.76
28	8.12	29	6.10	29	11.05	Nov. 4	n11.75
Feb. 4	8.90	May 6	6.11	Aug. 5	11.41	11	n11.70
11	9.00	13	6.81	12	11.50	18	n11.82
18	9.27	20	7.95	19	11.64	25	n11.84
25	8.62	25	8.10	26	11.89	Dec. 2	n11.78
Mar. 4	8.00	27	8.35	Sept. 2	12.04	9	n11.74
11	7.12	June 3	8.17	9	12.24	16	n11.70
18	7.01	10	8.21	16	12.50	23	n11.68
25	6.93	17	8.91	23	12.72	30	n11.63
Apr. 1	6.64	24	9.39	30	12.89		

n Measurement uncertain.

Chautauqua County

Cu 5. State Department of Conservation. Near Panama. Lat. 42°03'28", long. 79°29'59". Dug unused water-table well in glacial till of Pleistocene age, diameter 36 inches, depth 33 feet. Land-surface datum is about 1,770 feet above msl. Highest water level 1.61 below lsd, Jan. 26, 1952; lowest 9.41 below lsd, May 24, 1949. Records available: 1949-55.

Jan. 1	2.38	Apr. 9	2.62	July 9	4.34	Oct. 8	4.72
8	2.46	16	2.80	16	4.61	15	4.27
15	2.63	23	2.98	23	4.93	22	3.81
22	2.97	30	3.24	30	5.16	29	3.32
31	3.12	May 7	3.58	Aug. 6	5.34	Nov. 5	2.97
Feb. 5	3.23	14	3.83	13	5.56	12	2.83
19	2.59	21	4.05	20	5.63	19	2.87
26	1.87	26	4.07	27	5.85	26	2.68
Mar. 5	1.96	June 4	3.68	Sept. 3	6.03	Dec. 3	2.49
12	2.08	11	3.32	10	6.29	10	2.45
19	2.15	18	3.07	17	6.04	17	2.31
26	2.29	25	3.54	24	5.64	24	2.23
Apr. 2	2.46	July 2	3.91	Oct. 1	5.19	31	2.20

Cu 6. State Department of Conservation. Near Cherry Creek. Lat. 42°19'53", long. 79°11'15". Dug unused water-table well in glacial till of Pleistocene age, diameter 36 inches, depth 13 feet, stone-lined. Land-surface datum is about 2,065 feet above msl. Highest water level 2.20 below lsd, Mar. 26, 1952; lowest 10.89 below lsd, Oct. 6, 1955. Records available: 1950-55.

Cu 6--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18	2.46	May 26	5.37	June 26	4.83	Nov. 1	3.45
27	2.53	30	4.85	July 15	7.28	5	3.65
May 9	4.81	June 5	4.76	Aug. 18	9.02	12	3.40
16	4.80	12	4.63	Sept. 13	10.22	21	3.11
23	4.93	19	4.78	Oct. 6	10.89	Dec. 4	2.37

Chemung County

Cm 83. Wallace Dailey. Near Lowman. Lat. 42°04'43", long. 76°41'01". Dug domestic water-table well in glacial till of Pleistocene age, diameter 30 inches, depth 21 feet, stone-lined. Land-surface datum is about 1,480 feet above msl. Highest water level 2.30 below lsd, Mar. 26, 1955; lowest 12.93 below lsd, Oct. 23, 1954. Records available: 1946-55.

Jan. 2	4.24	Mar. 26	2.30	June 18	10.50	Sept. 24	10.24
8	3.38	Apr. 2	3.69	23	11.06	Oct. 8	10.15
15	4.75	9	4.23	25	11.09	15	7.44
22	6.15	16	4.60	July 2	11.69	22	3.13
29	7.23	23	4.43	26	12.27	29	3.25
Feb. 5	8.25	30	3.40	31	12.36	Nov. 5	3.09
12	8.58	May 7	4.55	Aug. 6	12.48	12	3.21
19	8.48	14	5.69	13	12.57	19	3.10
26	7.59	21	7.09	27	11.15	26	3.19
Mar. 5	5.80	28	8.22	Sept. 3	10.30	Dec. 3	3.45
12	4.63	June 4	8.90	10	10.05	10	3.44
19	3.50	11	9.72	17	10.04	17	4.90

Cm 84. Remington Rand, Inc. South Main St., Elmira. Lat. 42°04'17", long. 76°47'47". Drilled unused artesian(?) well in glacial outwash of Pleistocene age, diameter 6 inches, depth 257 feet. Land-surface datum is about 850 feet above msl. Highest water level 15.35 below lsd, Apr. 3, 1950; lowest 20.93 below lsd, Nov. 1, 1954. Records available: 1947-55.

Jan. 3	17.35	Mar. 28	16.06	June 23	17.56	Oct. 3	17.45
5	17.30	Apr. 4	16.17	27	17.66	10	17.20
10	17.00	11	16.27	July 5	18.19	17	16.80
17	16.87	18	16.50	11	18.11	24	16.04
24	17.07	25	16.51	18	18.07	31	15.55
31	17.22	May 2	16.55	Aug. 15	19.50	Nov. 14	15.87
Feb. 1	17.28	9	16.66	22	19.27	21	15.81
7	17.07	16	16.72	29	18.95	28	15.73
14	17.12	23	16.76	Sept. 6	17.72	Dec. 5	15.84
21	17.21	31	16.93	12	17.50	12	16.05
Mar. 7	16.25	June 6	17.18	19	17.47	19	16.20
14	16.14	13	17.26	26	17.43	26	16.38
21	16.08	20	17.44				

Cortland County

C 19. City of Cortland. Broadway. Lat. 42°35'45", long. 76°11'45". Dug unused water-table well in glacial gravel of Pleistocene age, diameter 6 inches, depth 13 feet, cased to 13, open end. Land-surface datum is about 1,150 feet above msl. Highest water level 2.98 below lsd, Apr. 5, 1947; lowest 8.11 below lsd, Oct. 8, 1955. Records available: 1947-55.

Jan. 1	3.71	Mar. 26	3.55	Aug. 13	6.81	Oct. 29	5.27
8	3.59	May 28	4.74	20	6.75	Nov. 5	4.71
15	3.79	June 24	5.21	27	6.87	12	4.60
22	4.00	25	5.36	Sept. 3	7.16	19	4.42
Feb. 5	4.36	July 2	5.51	10	7.35	26	4.34
12	4.23	9	5.64	17	7.65	Dec. 3	4.31
19	4.42	16	5.82	24	7.92	10	4.31
26	4.27	23	6.07	Oct. 8	8.11	17	4.29
Mar. 5	3.43	30	6.33	15	7.37	24	4.46
12	3.33	Aug. 6	6.71	22	6.27	31	4.52
19	3.53						

Dutchess County

Du 321. National Park Service. Near Hyde Park. Lat. 41°47'38", long. 73°56'33". Drilled unused artesian well, diameter 6 inches, depth 128 feet. Land-surface datum is about 170 feet above msl. Highest water level 65.62 below lsd, June 22, 1953; lowest 71.29 below lsd, Dec. 10, 1949. Records available: 1948-50, 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	69.9	Apr. 11	69.50	July 18	69.23	Oct. 22	68.7
10	69.9	18	69.53	25	69.36	28	68.59
18	70.0	25	69.34	Aug. 1	69.56	Nov. 3	68.50
24	70.05	May 2	69.35	8	69.61	9	68.35
31	70.1	9	69.26	14	69.40	17	68.05
Feb. 7	69.96	16	69.33	19	68.93	23	68.15
14	70.1	23	69.39	26	69.06	28	67.97
21	70.1	30	68.96	Sept. 1	69.01	Dec. 1	68.13
28	69.9	June 7	69.00	9	69.18	7	68.02
Mar. 7	69.75	13	68.9	16	69.18	14	68.16
14	69.82	20	69.00	23	69.27	17	68.03
21	69.8	27	69.07	Oct. 1	69.20	21	68.13
28	69.40	July 4	69.18	8	69.09	25	67.95
Apr. 4	69.49	11	69.19	14	69.12	29	68.25

Erie County

E 200. Stanley Cole. West Church St., Eden. Lat. 42°39'28", long. 78°53'56". Drilled unused well, diameter 8 inches, depth 26 feet. Land-surface datum is about 810 feet above msl. Highest water level 2.25 below lsd, May 8, 1954; lowest 4.77 below lsd, Nov. 28, 1953. Records available: 1953-55.

Jan. 1	2.84	Apr. 9	2.41	July 9	3.43	Oct. 8	4.47
8	2.77	16	2.37	16	3.63	15	4.15
15	2.79	23	2.34	23	3.82	22	3.96
22	2.82	30	2.35	30	4.00	29	3.97
29	2.91	May 7	2.44	Aug. 6	4.12	Nov. 5	3.90
Feb. 5	2.98	14	2.52	13	3.58	12	3.76
12	3.05	21	2.65	20	4.07	19	3.50
19	3.10	25	2.66	27	4.15	26	3.44
26	3.06	28	2.67	Sept. 3	4.27	Dec. 3	3.40
Mar. 5	2.80	June 4	2.75	10	4.23	10	3.25
12	2.58	11	2.86	17	4.53	17	3.25
19	2.50	18	2.99	24	4.62	24	3.25
26	2.45	25	3.13	Oct. 1	4.70	31	3.27
Apr. 2	2.40	July 2	3.30				

Franklin County

F 9. Arthur Fletcher. Near Bloomingdale. Lat. 44°25'36", long. 74°03'30". Dug unused water-table well in glacial till of Pleistocene age, diameter 4 feet, depth 11 feet, stone-lined. Land-surface datum is about 1,680 feet above msl. Highest water level 2.68 below lsd, Mar. 30, 1951; lowest 8.72 below lsd, Oct. 3, 1952. Records available: 1949-55.

Jan. 7	4.80	Apr. 15	3.47	Aug. 11	6.12	Oct. 21	5.91
14	5.02	22	3.44	12	5.68	28	5.13
21	5.10	29	4.03	19	5.17	Nov. 4	5.05
Mar. 4	4.4	May 6	4.56	26	5.78	11	5.19
11	3.3	13	4.79	Sept. 9	6.18	18	5.38
18	3.65	20	5.25	16	5.88	25	5.33
25	3.65	27	4.68	23	6.38	Dec. 2	5.76
Apr. 1	3.56	July 1	5.85	Oct. 7	5.86	9	5.79
8	3.54	29	6.16	14	5.74	16	5.94

Genesee County

Gs 2. Paul Rigoni. Near Pavilion. Lat. 42°55'16", long. 78°03'17". Dug unused water-table well in glacial till of Pleistocene age, diameter 36 inches, depth 21 feet, stone-lined. Land-surface datum is about 1,045 feet above msl. Highest water level 0.51 below lsd, Feb. 26, 1955; lowest 5.25 below lsd, Sept. 24, 1955. Records available: 1950-55.

Gs 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	0.79	Apr. 9	1.25	July 2	3.43	Oct. 1	5.19
8	.98	16	.72	9	3.65	8	4.79
15	1.21	23	.59	16	4.00	15	.82
22	1.50	30	1.10	23	4.30	29	1.47
29	1.74	May 7	1.82	30	4.51	Nov. 5	1.56
Feb. 5	1.95	14	1.99	Aug. 6	4.81	12	1.75
12	.75	21	2.36	13	4.39	19	.84
19	.70	24	2.43	20	4.69	26	.99
26	.51	28	2.49	27	4.75	Dec. 3	.53
Mar. 5	.75	June 4	2.59	Sept. 3	4.88	10	1.09
12	.68	11	2.78	10	5.03	17	.93
19	.80	18	3.04	17	5.16	24	1.27
26	.85	25	3.24	24	5.25	31	1.62
Apr. 2	1.00						

Greene County

G 1. Magnus Andersen. Near West Coxsackie. Lat. 42°23'20", long. 73°48'19". Dug domestic water-table well in glacial till(?) of Pleistocene age, diameter 36 inches, depth 19 feet. Land-surface datum is about 125 feet above msl. Highest water level 1.34 below lsd, May 10, 1954; lowest 12.75 below lsd, Nov. 1, 1948. Records available: 1945-55.

Jan. 3	2.44	Apr. 11	2.43	July 7	5.06	Oct. 6	5.84
10	3.70	18	3.12	14	5.52	13	4.07
18	4.35	25	2.21	21	5.81	20	2.35
24	4.73	May 2	2.60	28	6.35	27	2.81
31	5.70	9	4.53	Aug. 4	6.88	Nov. 3	2.25
Feb. 7	6.59	16	6.52	11	7.18	10	2.30
14	6.42	23	6.32	18	5.23	17	1.94
21	7.09	30	6.08	25	4.18	24	2.51
28	6.49	June 6	4.79	Sept. 1	4.77	Dec. 2	3.20
Mar. 7	5.05	13	4.84	8	5.27	8	2.76
14	2.89	20	5.14	15	5.75	15	4.26
21	2.84	24	5.12	22	6.28	22	4.30
28	2.33	27	5.05	29	6.17	29	5.12
Apr. 4	1.57	29	4.94				

Jefferson County

J 21. State Department of Conservation. Near Rodman. Lat. 43°48'53", long. 75°52'16". Dug unused water-table well in glacial till(?) of Pleistocene age, diameter 36 inches, depth 16 feet. Land-surface datum is about 1,300 feet above msl. Highest water level 1.09 below lsd, Dec. 3, 1950; lowest 8.51 below lsd, Sept. 12, 1953. Records available: 1949-54. Measurement discontinued.

Livingston County

Lv 1. William Redmond. 33 North St., Geneseo. Lat. 42°48'00", long. 77°48'46". Dug unused water-table well in glacial till(?) of Pleistocene age, diameter 36 inches, depth 28 feet, stone-lined. Land-surface datum is about 790 feet above msl. Highest water level 0.3 below lsd, Mar. 15, 1945; lowest 9.74 below lsd, Nov. 29, 1952. Records available: 1942-55.

Jan. 25	4.80	May 24	5.18	July 26	7.60	Oct. 25	4.57
Feb. 25	4.60	26	5.23	Aug. 25	7.20	Nov. 25	4.30
Mar. 25	3.74	June 27	6.39	Sept. 28	5.90	Dec. 27	4.70
Apr. 25	3.90						

Madison County

M 127. Nels Merrill. Near Chittenango. Lat. 43°00'25", long. 75°49'26". Dug unused water-table well in glacial till of Pleistocene age, diameter 24 inches, depth 16 feet, stone-lined. Land-surface datum is about 1,100 feet above msl. Highest water level 2.55 below lsd, Feb. 21, 1953; lowest 7.67 below lsd, Sept. 24, 1955. Records available: 1950-55.

M 127--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	5.77	Apr. 2	3.80	July 30	5.92	Oct. 1	7.62
5	5.80	9	4.12	Aug. 6	6.26	8	7.37
12	5.78	16	4.81	13	6.46	15	5.30
19	5.05	23	4.4	20	6.65	22	5.23
26	5.33	30	4.31	27	6.80	29	5.29
Mar. 5	5.01	June 20	6.04	Sept. 3	7.00	Dec. 3	5.43
12	4.21	July 9	6.56	10	7.22	10	5.34
19	3.59	16	5.00	17	7.57	24	5.83
26	3.50	23	5.65	24	7.67	31	5.71

Montgomery County

Mt 1. Floyd Groff. Near St. Johnsville. Lat. 43°01'43", long. 74°42'38". Dug unused water-table well in glacial till of Pleistocene age, diameter 24 inches, depth 12 feet, stone-lined. Land-surface datum is about 720 feet above msl. Highest water level 4.08 below lsd, Apr. 15, 1948; lowest 9.99 below lsd, Aug. 28, 1949. Records available: 1942-55.

Jan. 1	7.32	Apr. 2	6.87	July 2	8.30	Oct. 8	8.62
8	7.30	9	6.15	9	8.42	15	8.36
15	7.62	16	6.02	16	8.61	22	7.20
22	7.94	23	5.40	23	8.71	29	7.22
29	8.22	30	5.34	30	8.81	Nov. 5	6.81
Feb. 5	8.54	May 7	6.17	Aug. 6	8.83	12	6.92
12	8.45	14	6.73	13	8.88	19	6.31
19	8.48	21	7.18	Sept. 3	9.11	26	6.56
26	8.04	28	7.53	8	9.22	Dec. 3	6.78
Mar. 5	7.66	June 4	7.51	10	9.28	10	6.54
12	7.50	11	7.69	17	9.43	17	6.95
19	7.18	18	7.93	24	9.56	24	7.28
26	7.00	25	8.13	Oct. 1	9.01	31	7.62

Niagara County

Ni 30. Richard Tower. Near Youngstown. Lat. 43°15'17", long. 78°59'19". Dug unused water-table well in lacustrine silt and clay of Pleistocene age, diameter 36 inches, depth 25 feet, stone-lined. Land-surface datum is about 300 feet above msl. Highest water level 2.49 below lsd, Apr. 25, 1954; lowest 9.34 below lsd, Oct. 2, 1954. Records available: 1950-55.

Jan. 1	2.74	Apr. 9	3.22	July 9	6.64	Oct. 8	6.10
8	3.06	16	3.37	16	7.05	15	5.62
15	3.64	23	3.51	23	7.58	22	4.83
22	3.93	30	3.63	30	7.72	29	4.68
29	4.25	May 7	3.98	Aug. 6	7.87	Nov. 5	4.37
Feb. 5	4.54	14	4.41	13	7.81	12	4.19
12	4.23	21	4.75	20	6.85	19	4.10
19	3.94	23	4.90	27	6.83	26	3.83
26	3.00	28	4.86	Sept. 3	6.81	Dec. 3	3.71
Mar. 5	3.14	June 4	4.93	10	6.75	10	3.59
12	3.16	11	5.28	17	6.66	17	3.47
19	3.04	18	5.54	24	6.49	24	3.60
26	3.08	25	5.82	Oct. 1	6.23	31	3.84
Apr. 2	3.17	July 2	6.17				

Otsego County

Og 22. Clarke Estate, Iroquois Farm. Near Cooperstown. Lat. 42°40'58", long. 74°55'23". Dug unused water-table well in glacial outwash of Pleistocene age, diameter 42 inches, depth 12 feet, stone-lined. Land-surface datum is about 1,230 feet above msl. Highest water level 4.65 below lsd, Sept. 2, 1950; lowest 8.13 below lsd, Sept. 5, 1953. Records available: 1948-55.

Og 22--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	6.45	Apr. 9	6.48	July 9	7.29	Oct. 8	6.55
8	6.49	16	6.46	16	7.50	15	5.90
15	6.60	23	6.42	23	7.59	22	6.20
22	6.71	30	6.43	30	7.66	29	6.49
29	6.83	May 7	6.53	Aug. 6	7.70	Nov. 5	6.48
Feb. 5	6.81	14	6.69	13	7.51	12	6.10
12	6.64	21	6.80	20	6.71	19	6.47
19	6.77	28	6.63	27	6.05	26	7.00
26	6.55	June 4	6.69	Sept. 3	6.40	Dec. 3	6.80
Mar. 5	6.53	11	6.86	10	7.05	10	6.49
12	6.54	18	7.10	17	7.12	17	6.54
19	6.52	24	6.95	24	7.16	24	6.69
26	6.51	25	6.71	Oct. 1	7.20	31	6.71
Apr. 2	6.51	July 2	7.17				

Rockland County

Ro 18. Palisades Interstate Park. In Bear Mountain section near Doodletown Rd. and Seven Lakes Dr. Lat. $41^{\circ}18'02''$, long. $73^{\circ}59'30''$. Drilled unused water-table well in glacial drift of Pleistocene age, diameter 6 inches, depth 61 feet. Land-surface datum is about 380 feet above msl. Highest water level 11.15 below lsd, Mar. 14, 1952; lowest 27.87 below lsd, Oct. 31, 1953. Records available: 1949-55.

Jan. 7	13.65	Apr. 15	14.80	July 15	19.00	Oct. 14	17.13
14	14.28	22	15.25	22	19.65	22	12.39
21	14.80	29	15.03	29	19.70	28	13.76
28	15.32	May 6	14.34	Aug. 5	20.15	Nov. 1	11.67
Feb. 4	15.92	13	14.92	12	20.24	4	11.99
11	16.10	20	15.58	19	13.42	11	12.72
18	16.08	27	16.17	26	13.53	18	11.99
25	15.47	June 3	16.55	Sept. 2	14.67	25	13.65
Mar. 4	14.73	10	16.90	9	15.64	Dec. 2	14.72
11	13.40	17	17.22	16	16.48	9	15.38
18	13.95	24	17.37	23	17.24	16	16.00
25	13.11	July 1	17.64	30	17.34	23	16.56
Apr. 1	13.50	8	18.54	Oct. 7	17.30	30	17.10
8	14.37						

St. Lawrence County

St 1. Benjamin Compeau. Near Brasher Falls. Lat. $44^{\circ}51'52''$, long. $74^{\circ}46'53''$. Dug unused water-table well in glacial till(?) of Pleistocene age, diameter 34 inches, depth 21 feet, stone-lined. Land-surface datum is 257.13 feet above msl. Highest water level 3.00 below lsd, Apr. 6, 1947; lowest 17.8 below lsd, Oct. 1-4, 1949. Records available: 1942-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.42	e6.9	7.10	5.06	6.05	7.49	9.18	11.62	12.00	12.74	12.55	9.55
2	5.46	6.95	7.05	4.91	6.14	7.52	9.25	11.71	11.98	12.78	12.38	....
3	5.46	6.97	6.90	6.06	6.22	7.54	9.32	11.81	11.97	12.82	12.20	....
4	5.47	6.99	6.87	5.06	6.29	7.57	9.39	11.90	11.96	12.85	12.03	....
5	5.52	7.00	6.68	5.06	6.37	7.60	9.46	11.98	11.95	12.89	11.86	....
6	5.61	7.08	6.62	5.05	6.45	7.65	9.53	12.06	11.94	12.94	11.68	....
7	6.72	7.12	6.66	5.05	6.52	7.69	9.59	12.14	11.93	12.97	11.49	....
8	5.80	7.14	6.60	5.06	6.57	7.74	9.66	12.22	11.94	13.00	11.33	....
9	5.87	7.16	6.58	5.06	6.58	7.79	9.72	12.30	11.95	13.05	11.16	....
10	5.97	7.18	6.58	5.07	6.56	7.85	9.80	12.37	11.96	13.08	11.03	....
11	6.05	7.21	6.48	5.10	6.53	7.91	9.87	12.44	11.97	13.11	10.88	....
12	6.12	7.24	5.07	5.18	6.58	7.97	9.95	12.50	11.99	13.14	10.72	....
13	6.19	7.26	5.11	5.26	6.63	8.03	10.01	12.54	12.02	13.17	10.60	....
14	6.26	7.27	5.17	5.31	6.69	8.09	10.08	12.57	12.05	13.19	10.48	....
15	6.31	7.28	5.19	5.29	6.75	8.15	10.16	12.59	12.08	13.22	10.37	....
16	6.37	7.30	5.10	5.30	6.81	8.22	10.23	12.59	12.11	13.24	10.28	....
17	6.39	7.33	5.07	5.37	6.87	8.28	10.32	12.59	12.14	13.27	10.17	....
18	6.42	7.34	5.09	5.44	6.92	8.33	10.40	12.57	12.18	13.29	10.09	....
19	e6.5	7.36	5.21	5.46	6.98	8.40	10.48	12.54	12.21	13.30	10.04	....
20	e6.5	7.37	5.26	5.18	7.05	8.46	10.56	12.49	12.25	e13.31	9.98	....

St 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	e6.6	7.38	5.09	5.13	7.09	8.52	10.64	12.44	12.30	e13.31	9.92	....
22	e6.6	7.38	5.08	5.21	7.14	8.59	10.73	12.39	12.34	e13.31	9.86	....
23	e6.7	7.37	5.07	5.33	7.18	8.65	10.81	12.33	12.39	13.31	9.82	....
24	e6.7	7.32	5.08	5.43	7.23	8.72	10.91	12.28	12.43	13.28	9.76	....
25	e6.8	7.26	5.08	5.53	7.27	8.79	11.00	12.23	12.48	13.24	9.73	....
26	e6.8	7.21	5.11	5.60	7.31	8.86	11.08	12.18	12.53	13.19	9.70	....
27	e6.8	7.17	5.35	5.68	7.35	8.92	11.16	12.14	12.57	13.12	9.66	....
28	e6.8	7.13	5.38	5.76	7.38	8.98	11.24	12.10	12.61	13.04	9.62	....
29	e6.8		5.44	5.86	7.40	9.15	11.33	12.07	12.65	12.94	9.59	....
30	e6.9		5.48	5.95	7.43	9.11	11.42	12.04	12.70	12.83	9.56	....
31	e6.9		5.26		7.46		11.52	12.01		12.68		....

e Estimated.

St 40. State Department of Conservation. Near Brasher Falls. Lat. 44°49'02", long. 74°45'55". Dug domestic water-table well in glacial sand of Pleistocene age, diameter 36 inches, depth 12 feet, concrete cased to 12, open end. Land-surface datum is about 300 feet above msl. Highest water level 3.42 below lsd, Apr. 6, 1955; lowest 8.47 below lsd, Oct. 15, 1955. Records available: 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.00	Mar. 15	4.92	Aug. 20	7.56	Oct. 29	7.83
12	5.22	22	4.88	27	7.52	Nov. 5	7.55
19	5.59	29	4.76	Sept. 3	7.64	12	7.59
26	5.77	Apr. 6	3.42	10	7.91	19	7.65
Feb. 2	5.91	13	4.14	17	8.11	26	7.67
9	6.01	20	4.20	24	8.28	Dec. 3	7.78
16	6.15	27	4.63	Oct. 1	8.37	10	7.85
23	6.04	May 21	5.3	8	8.41	17	7.99
Mar. 1	6.03	Aug. 10	7.9	15	8.47	24	8.10
8	5.86	13	7.68	22	8.28	31	8.36

St 392. Leland Blevins. Hermon. Lat. 44°28'10", long. 75°13'31". Dug unused water-table well in glacial outwash of Pleistocene age, diameter 36 inches, depth 28 feet. Land-surface datum is about 565 feet above msl. Highest water level 2.72 below lsd, Apr. 2, 1955; lowest 18.48 below lsd, Oct. 8, 1955. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	4.5	Apr. 16	3.4	July 9	11.24	Oct. 1	18.17
15	5.52	23	3.83	16	12.53	8	18.48
22	6.21	30	4.54	23	13.37	22	18.41
29	6.42	May 6	4.27	30	14.14	29	17.69
Feb. 5	7.0	13	5.21	Aug. 6	14.89	Nov. 5	16.9
12	7.14	20	6.00	9	15.01	12	16.58
19	6.63	22	6.03	13	15.81	19	15.9
26	5.54	27	6.10	20	16.00	26	15.7
Mar. 5	4.21	June 4	7.03	27	16.31	Dec. 3	15.5
12	3.1	11	8.43	Sept. 3	16.58	10	15.32
19	3.41	18	9.17	10	17.01	17	15.2
26	3.23	25	10.21	17	17.4	24	15.1
Apr. 2	2.72	July 2	10.92	24	17.73	31	15.0
9	3.23						

Schenectady County

Sn 128. City of Schenectady. Lat. 42°49'26", long. 73°59'22". Dug unused water-table well in glacial outwash of Pleistocene age, diameter 47 feet, depth 40 feet. Land-surface datum is 241.36 feet above msl. Highest water level 17.9 below lsd, Oct. 17, 1955; lowest 37.63 below lsd, Feb. 22, 1955. Records available: 1946-55. Water level affected by stage of Mohawk River and pumping in city of Schenectady well field.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	30.98	Apr. 9	32.65	July 23	34.45	Oct. 17	e17.9
8	33.37	16	31.65	30	33.75	18	20.7
15	35.25	23	31.28	Aug. 6	35.12	22	30.21
22	36.20	30	32.64	13	32.57	29	31.22
29	36.65	May 7	33.15	20	32.29	Nov. 1	27.20
Feb. 5	37.25	14	34.32	27	32.99	5	29.60
12	36.40	21	34.40	Sept. 3	33.20	12	30.85
19	37.45	28	32.44	10	33.30	19	30.75
22	37.63	June 4	31.05	17	33.25	30	31.98
26	33.60	11	33.70	24	33.60	Dec. 3	32.97
Mar. 5	31.90	18	33.75	Oct. 1	32.60	10	32.00
12	31.12	25	32.70	8	31.32	17	32.35
19	33.20	July 2	33.62	15	32.48	24	33.22
26	33.52	9	33.45	16	29.0	31	33.1
Apr. 2	34.00	16	34.20				

e Estimated.

Sn 178. Leroy Kennedy. Near Duanesburg. Lat. 42°45'49", long. 74°08'37". Dug domestic water-table well in glacial gravel of Pleistocene age, diameter 36 inches, depth 14 feet. Land-surface datum is about 670 feet above msl. Highest water level 2.28 below lsd, Dec. 10, 1950; lowest 11.10 below lsd, Aug. 28, 1949. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	4.4	Apr. 4	4.3	July 4	7.33	Oct. 18	2.72
10	4.44	11	4.44	25	7.90	25	5.10
17	4.7	18	4.38	31	7.52	Nov. 1	5.19
24	5.0	26	4.35	Aug. 7	8.16	8	5.10
31	5.47	May 3	5.04	15	7.30	15	4.09
Feb. 6	5.8	10	5.07	22	5.07	22	5.03
13	5.3	17	5.17	29	5.02	29	5.02
21	5.1	24	5.09	Sept. 6	5.28	30	5.04
28	5.1	30	4.74	13	5.40	Dec. 6	5.27
Mar. 6	4.7	June 6	5.07	20	6.44	13	4.66
14	4.3	14	5.04	27	5.24	19	5.10
21	4.58	20	5.24	Oct. 4	5.12	28	5.19
29	4.6	27	5.46	11	4.90		

Steuben County

Sb 200. Roy Calkins. Near Woodhull. Lat. 42°05'34", long. 77°25'18". Dug unused water-table well in glacial till of Pleistocene age, diameter 24 inches, depth 16 feet, stone-lined. Land-surface datum is about 1,420 feet above msl. Highest water level 4.06 below lsd, Mar. 31, 1951; lowest 13.80 below lsd, Dec. 24, 1949. Records available: 1946-55. Recording gage installed from June 23 to July 19.

May 27	10.25	July 5	11.58	July 18	9.75	Oct. 8	7.21
June 21	11.00	6	11.43	19	9.70	17	4.08
23	14.53	7	11.33	23	9.60	22	4.56
24	14.04	8	11.24	31	9.59	29	5.12
25	13.62	9	11.09	Aug. 6	8.81	Nov. 5	5.69
26	13.26	10	10.72	14	8.39	12	6.12
27	12.96	11	10.48	20	7.82	19	6.34
28	12.72	12	10.32	29	7.57	26	6.56
29	12.52	13	10.20	Sept. 3	8.34	Dec. 3	6.96
30	12.32	14	10.09	10	8.55	10	7.21
July 1	12.14	15	9.98	17	8.92	17	7.49
2	12.01	16	9.87	24	9.31	24	7.69
3	11.86	17	9.79	Oct. 1	8.76	31	7.85
4	11.72						

p Pumped dry during test after this measurement.

Sb 240. Corning Glass Works. West Market St., Corning. Lat. 42°08'37", long. 77°03'18". Drilled unused artesian well in glacial outwash of Pleistocene age, diameter 10 inches, depth 78 feet. Land-surface datum is about 940 feet above msl. Highest water level 20.60 below lsd, Apr. 2, 1951; lowest 30.7 below lsd, Oct. 5, 1954. Records available: 1943-44, 1946-55.

Jan. 3	27.0	Apr. 11	27.4	July 5	30.3	Oct. 3	30.0
10	27.6	18	27.5	11	29.6	10	29.0
17	28.2	25	27.8	18	29.6	17	20.64
23	28.8	May 2	27.4	19	29.67	24	24.6
31	29.1	9	28.0	25	29.6	31	24.8
Feb. 7	29.6	16	28.7	Aug. 1	29.6	Nov. 7	26.0
14	29.5	23	29.1	8	30.0	14	26.3
21	29.6	31	29.1	15	29.0	21	24.7
Mar. 1	26.9	June 6	29.5	22	28.8	28	25.4
7	24.8	13	29.6	Sept. 6	29.3	Dec. 5	25.5
14	25.0	20	30.1	12	29.6	12	26.7
21	26.1	22	30.13	19	29.9	19	27.2
28	25.6	27	30.2	26	29.8	27	27.2
Apr. 4	26.6						

Washington County

W 264. Village of Salem. North Main St. Lat. 43°10'27", long. 73°19'43". Dug fire-protection water-table well in glacial gravel of Pleistocene age, approximate size 8 by 12 feet, depth 15 feet. Land-surface datum is 485.5 feet above msl. Highest water level 7.19 below lsd, May 18, 1953; lowest 11.32 below lsd, Oct. 5, 1953. Records available: 1946-55.

W 264--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.67	Apr. 4	9.16	July 4	10.68	Oct. 3	10.76
10	9.89	11	9.20	11	10.7	10	10.70
17	10.06	18	9.22	18	10.84	17	10.37
24	10.37	25	9.24	25	11.00	24	10.35
31	10.48	May 2	9.68	Aug. 1	11.06	31	10.12
Feb. 7	10.44	9	9.79	8	11.13	Nov. 7	10.07
14	10.30	16	10.46	15	10.72	14	9.80
21	10.18	23	10.44	22	10.67	21	9.38
28	9.10	31	10.42	24	10.46	28	9.68
Mar. 7	9.13	June 6	10.42	Sept. 6	10.68	Dec. 5	9.85
14	9.10	13	10.44	12	10.64	12	10.09
21	9.15	20	10.39	19	10.66	19	10.27
28	9.16	27	10.48	26	10.70	26	10.40

r Pumped dry on Oct. 7.

Wayne County

Wn 29. Village of Marion. 55 Mill St. Lat. 43°08'14", long. 77°11'19". Drilled unused artesian well in Lockport dolomite, diameter 8 inches, depth 107 feet, cased to 25. Land-surface datum is about 460 feet above msl. Highest water level 10.03 below lsd, Mar. 30, 1950; lowest 20.83 below lsd, Sept. 11, 1952. Records available: 1947-55.

Feb. 2	18.38	May 4	18.05	July 20	19.97	Oct. 12	19.27
9	18.34	11	18.35	27	20.26	19	18.22
15	18.32	18	18.47	Aug. 3	20.37	26	18.26
23	17.97	23	18.61	10	20.58	Nov. 2	18.02
Mar. 2	17.34	25	18.60	17	20.10	9	18.27
9	17.68	June 1	18.56	24	20.03	16	18.00
16	17.56	8	18.69	31	19.94	23	17.95
23	17.30	15	18.95	Sept. 7	19.91	30	18.18
30	17.67	22	19.05	14	20.16	Dec. 7	17.98
Apr. 6	17.52	29	19.34	21	20.30	14	18.15
13	17.74	July 6	19.48	28	20.30	21	18.15
20	17.80	13	19.78	Oct. 5	20.19	28	18.09
27	17.85						

Westchester County

We 4. Westchester County Jail. Court and Martine Aves., White Plains. Lat. 41°01'52", long. 73°46'04". Drilled unused artesian well in Inwood limestone, diameter 6 inches, depth 398 feet. Land-surface datum is about 215 feet above msl. Highest water level 24.1 below lsd, Apr. 20, 1953; lowest 31.6 below lsd, Feb. 9, Mar. 2, 1954. Records available: 1953-55.

Jan. 2	25.5	Mar. 28	25.8	July 11	26.7	Oct. 17	25.7
10	25.5	Apr. 4	25.9	25	26.8	24	25.4
16	25.7	11	25.7	Aug. 1	26.6	31	25.1
24	25.7	18	25.9	8	26.8	Nov. 7	24.8
31	25.8	May 9	25.9	15	26.4	14	24.5
Feb. 7	25.8	16	26.1	22	25.8	21	24.4
14	25.8	23	26.0	29	25.8	28	24.4
21	25.8	30	26.1	Sept. 6	25.7	Dec. 5	24.4
28	25.8	June 6	26.3	19	26.0	12	24.6
Mar. 6	25.6	13	26.4	26	26.2	19	24.9
13	25.8	20	26.5	Oct. 3	26.3	24	24.8
21	25.9	July 5	26.6	10	26.2		

Wyoming County

Wo 1. State Department of Conservation. In Letchworth State Park, near Castile. Lat. 42°37'39", long. 78°00'03". Dug unused water-table well in glacial till(?) of Pleistocene age, diameter 24 inches, depth 14 feet, stone-lined. Land-surface datum is about 1,030 feet above msl. Highest water level 0.5 below lsd, Apr. 5, 1947; lowest 12.94 below lsd, Nov. 22, 1952. Records available: 1942-55.

Wo 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	6.88	Apr. 16	3.36	July 10	9.40	Oct. 9	12.83
8	4.91	23	3.26	17	9.82	16	10.41
15	5.14	May 1	2.85	24	10.21	23	8.65
22	5.65	7	3.66	31	10.58	30	7.53
29	6.00	15	4.30	Aug. 7	10.92	Nov. 5	7.23
Feb. 5	6.31	22	4.79	14	11.11	12	7.39
12	6.08	24	4.93	21	11.45	19	5.03
19	5.90	29	5.12	29	11.75	26	3.26
26	5.18	June 5	5.51	Sept. 4	11.95	Dec. 3	3.91
Mar. 5	3.53	12	6.48	12	12.22	10	2.98
13	2.13	19	7.28	18	12.36	17	3.75
22	1.07	26	8.13	25	12.52	24	4.34
Apr. 3	2.39	July 3	8.85	Oct. 2	12.70	31	3.40
10	2.98						

Errata

Broome County. Well Bm 87. Corrections to published records are shown in well description in 1954 report.

Chemung County. Well Cm 84. Delete measurements of 19.94 on May 18, 1953, and 18.00 on Aug. 24, 1953.

Lewis County. Well L 1. Measurement on Apr. 11, 1949 is 4.61.

St. Lawrence County. Well St 1. Change date of measurement of Sept. 26, 1946, to Oct. 26, 1946.

Steuben County. Well Sb 240. Dates of measurements should be changed as follows:

Jan. 19, 1944, to Jan. 10, 1944

Nov. 7, 1947, to Nov. 3, 1947

June 3, 1948, to June 7, 1948

Westchester County. Well We 4. In 1954 report, change lowest water level to 31.6 Feb. 9 and Mar. 2, 1954.

Wayne County. Well Wn 29. Measurement on Dec. 31, 1947 is 17.90.

Wyoming County. Well Wo 1. Change dates and measurements in October 1948 to the following: Oct. 3, 10.19; Oct. 10, 10.41; Oct. 17, 10.63; Oct. 24, 10.70; Oct. 31, 10.83.

OHIO

By Paul Kaser

Scope of Water-Level Program

The observation-well program was continued in 1955 in cooperation with the Ohio Department of Natural Resources, Divisions of Water and Wildlife, the Commissioners of Hamilton County, and the city of Canton. Water-level measurements were made in 148 wells, 135 of which were equipped with recording gages. The remaining 13 wells were measured at weekly or monthly intervals. Water-level measurements were made during the spring and summer in about 400 project wells at Middletown and at Hamilton and in the area between these two cities. Measurements also were made in 30 project wells in the Canton area. The records of 84 of the 148 regularly observed wells are listed in this report. The locations of the wells are shown in figures 31 through 36. Data from 12 wells are published currently in a monthly circular of the Ohio Division of Water entitled "Monthly Index of Conditions Affecting Water Supply."

Precipitation

Average rainfall in Ohio was below normal in 1955 for the fourth consecutive year. The deficiency in 1952 was 2.52 inches; in 1953, 8.98 inches; and in 1954, 1.12 inches. The 1955 average was 36.14 inches, 1.47 inches below normal. It would appear on the basis of these figures that 1955 should have been unfavorable for ground-water storage, as was 1954. An examination of the distribution of rainfall during the year, however, shows why it was not and illustrates the fact that total annual rainfall is not necessarily a criterion of ground-water conditions. Of the 7 months deficient in precipitation, 5 were in the period of normal seasonal decline when recharge is low. Above-normal precipitation occurred in the spring and fall when aquifers are usually recharged. February and March had a total excess of 2.32 inches of precipitation; October and November had a total excess of 2.01 inches. The hydrographs in figure 37 show the effects of these two short periods of above-normal precipitation on ground-water levels. A comparison of the amounts of rainfall in the recharge periods in the drought years 1952 through 1955 shows the reason for the improved ground-water conditions in 1955. Precipitation in the recharge period October 1952 through March 1953 was 3.53 inches below normal; in the period October 1953 through March 1954 it was 4.97 inches below normal; in the period October 1954 through March 1955 it was 2.64 inches in excess of normal. The accumulated deficiency in 1955 during the period of seasonal decline, April through September, was 2.38 inches. Although precipitation was below average in 1955, the months having deficiencies were in the period of seasonal decline and the months having excesses were in the recharge periods. In 1955, therefore, rainfall was of more benefit to ground-water storage than in 1953 and 1954.

Interpretation of Water-Level Fluctuations

Climatic conditions in 1955 were slightly more favorable to ground-water storage than in 1953 and 1954. Water levels in observation wells throughout the State varied considerably, though, generally, they were higher than in 1953 or in 1954. The lowest stages of record were observed in 26 of the 84 wells in this report. New lows were recorded in 12 wells in heavily pumped areas and in 12 wells in moderately pumped areas. Three of the wells having new lows are in valley gravel aquifers; their decline shows the effects of record-low streamflow. Changes in pumping rates, differences in location with respect to areas of recharge or discharge, and variations in the character of the aquifers make data difficult to generalize. The observation wells are divided into four groups having certain characteristics in common, simplifying to some extent the interpretation of trends and fluctuations of water levels in the State. The first group consists of 27 wells which are affected so slightly by pumping or other artificial factors that they may be considered to reflect the results of the natural conditions of discharge and recharge upon ground-water storage. The second group consists of four wells representing aquifers in stream valleys, where water levels are controlled by changes in the stage of the associated streams. The third group consists of 24 wells in areas of moderate pumping in which the pumping fluctuations are superimposed on the natural fluctuations modifying them to some extent. The fourth group consists of 28 wells which fluctuate almost entirely in response to heavy industrial or municipal pumping.

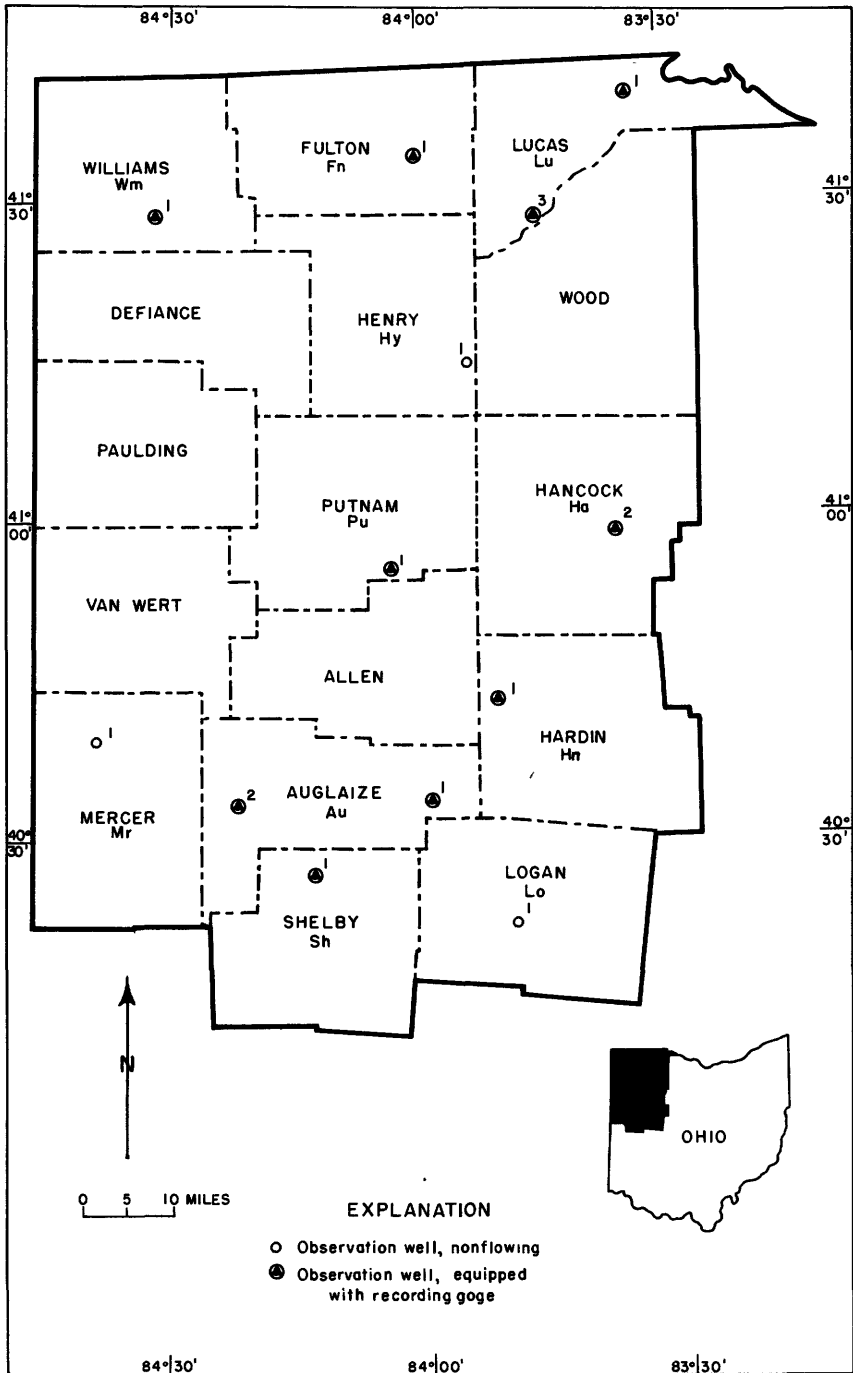


Figure 31. --Location of observation wells in northwestern Ohio, 1955.

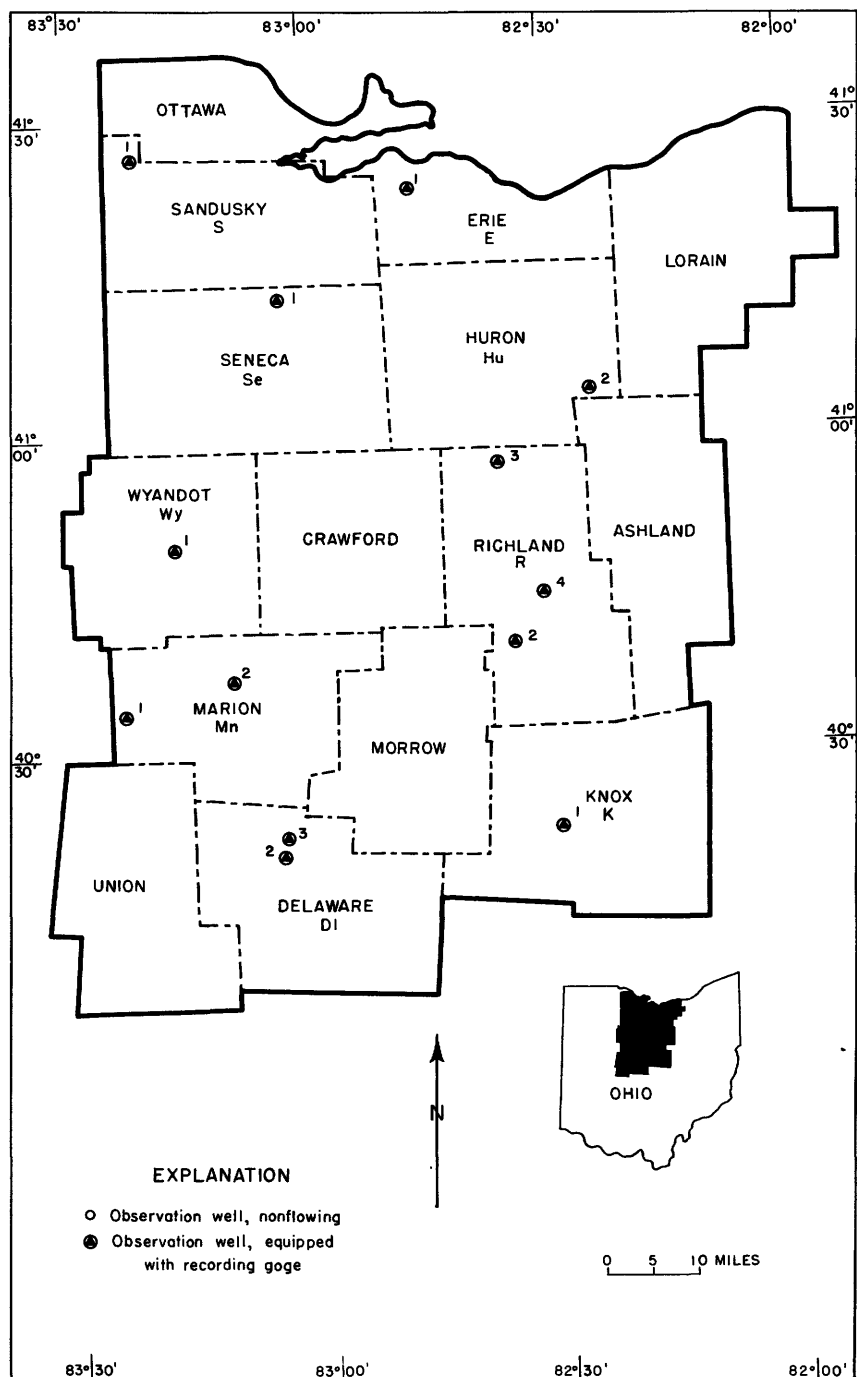


Figure 32. --Location of observation wells in north-central Ohio, 1955.

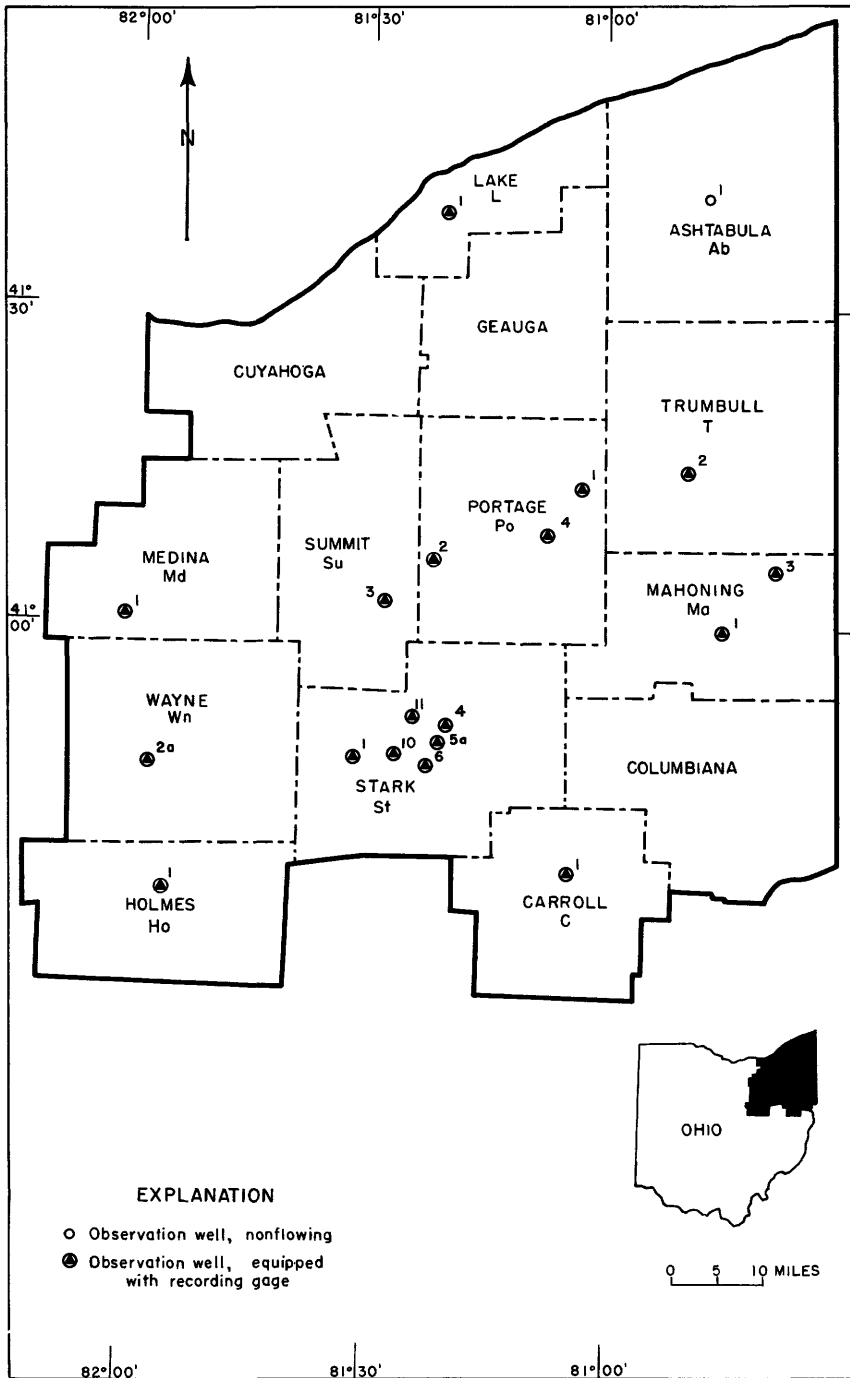
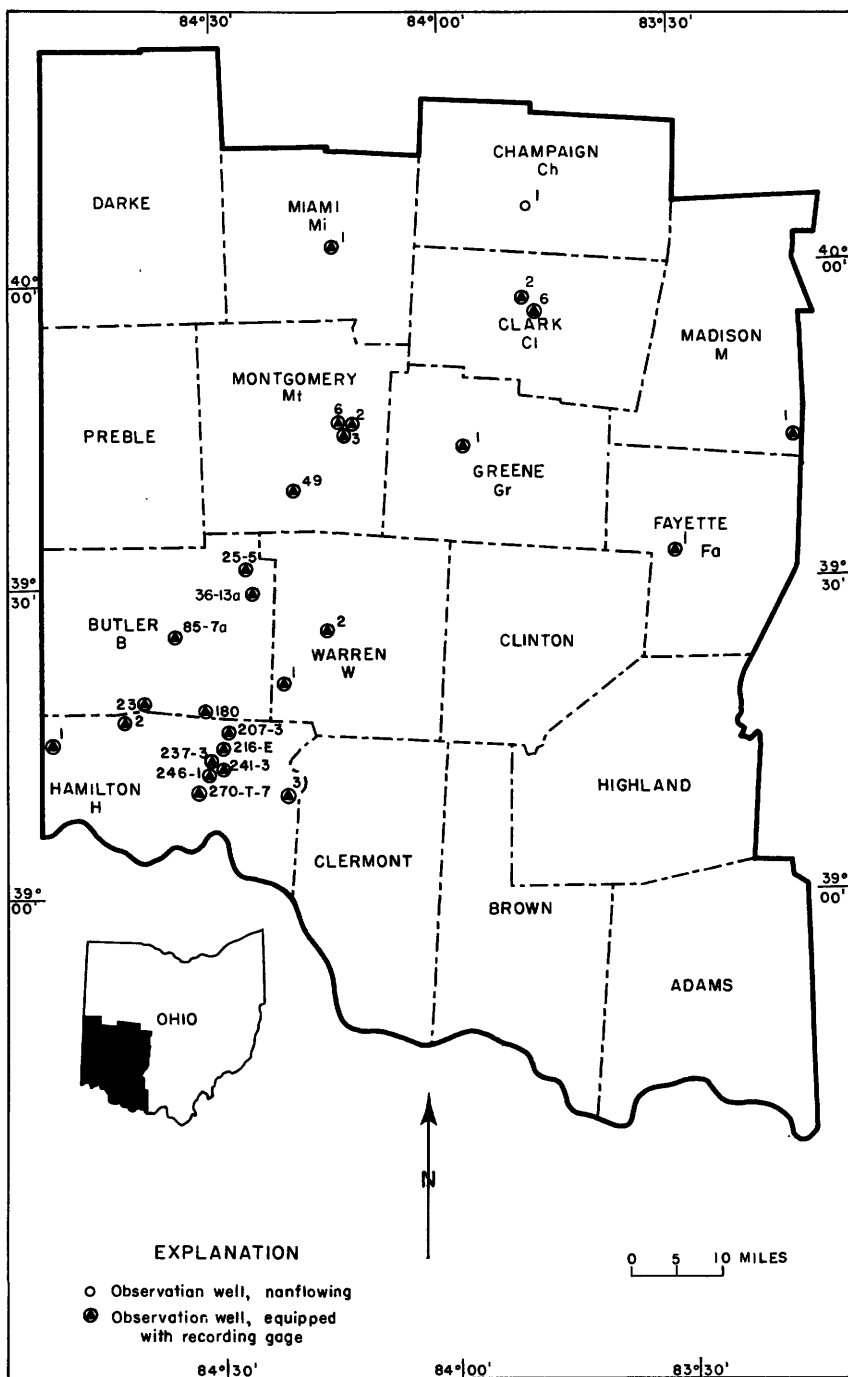


Figure 33. --Location of observation wells in northeastern Ohio, 1955.



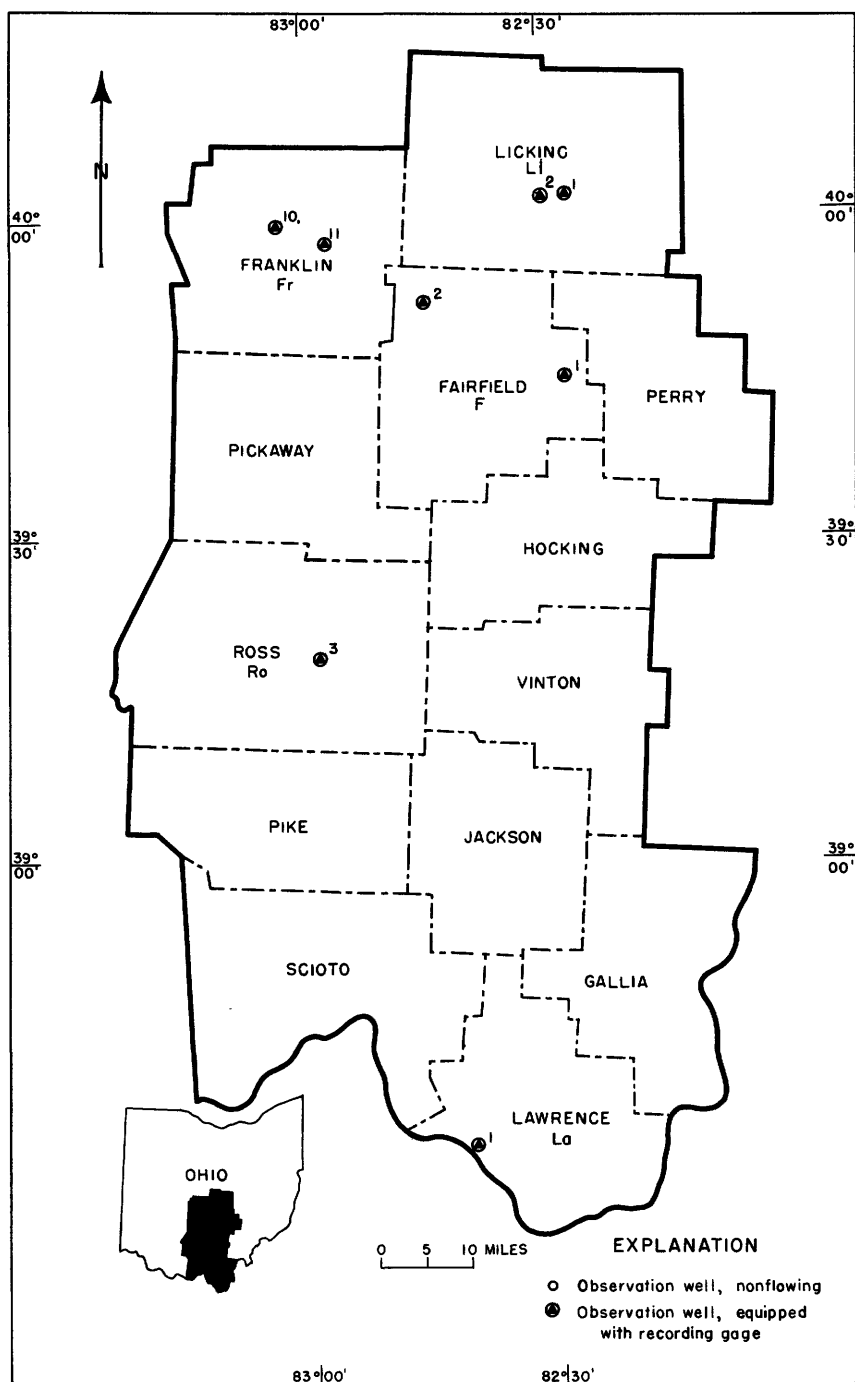


Figure 35. --Location of observation wells in south-central Ohio, 1955.

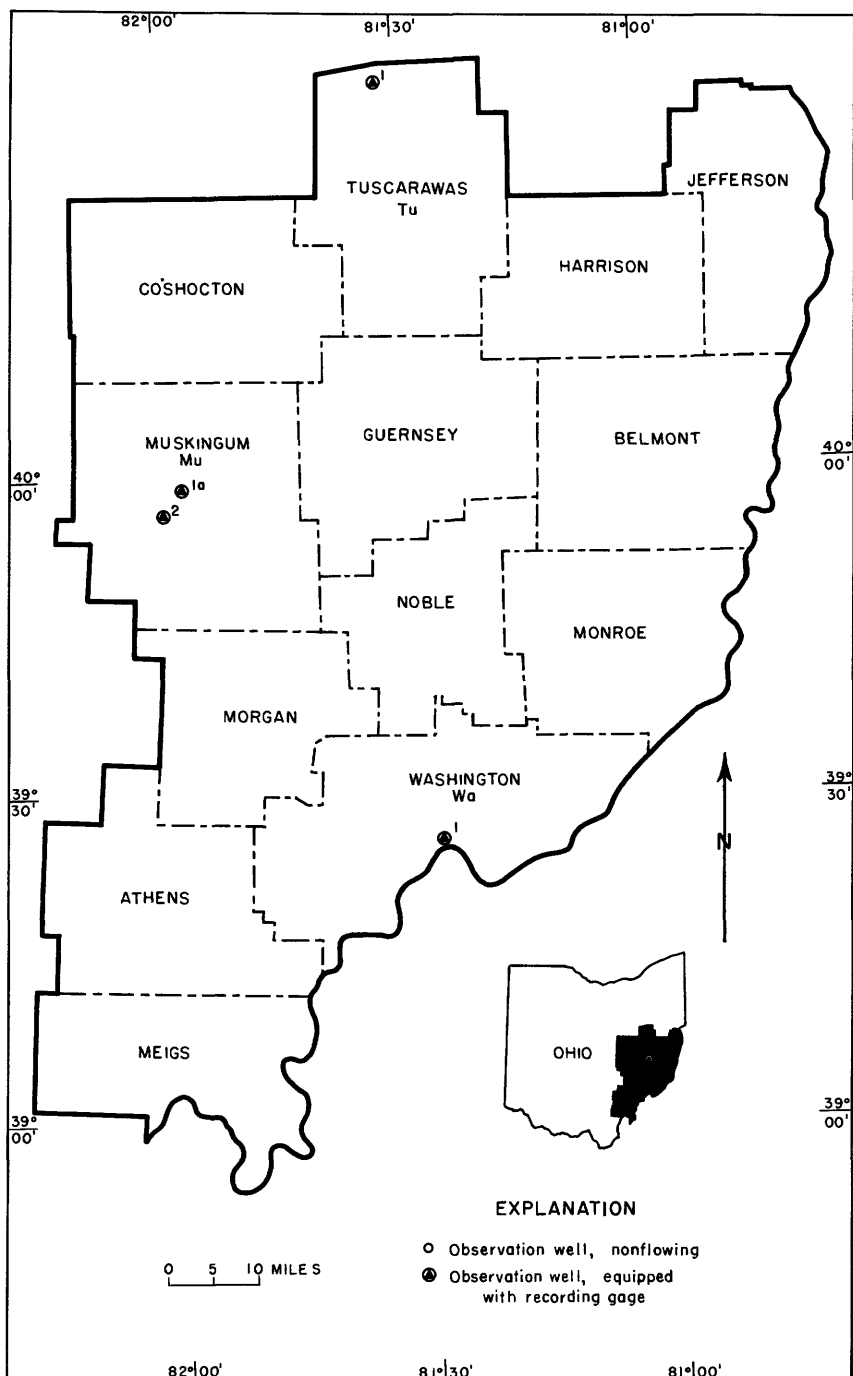


Figure 36. --Location of observation wells in southeastern Ohio, 1955.

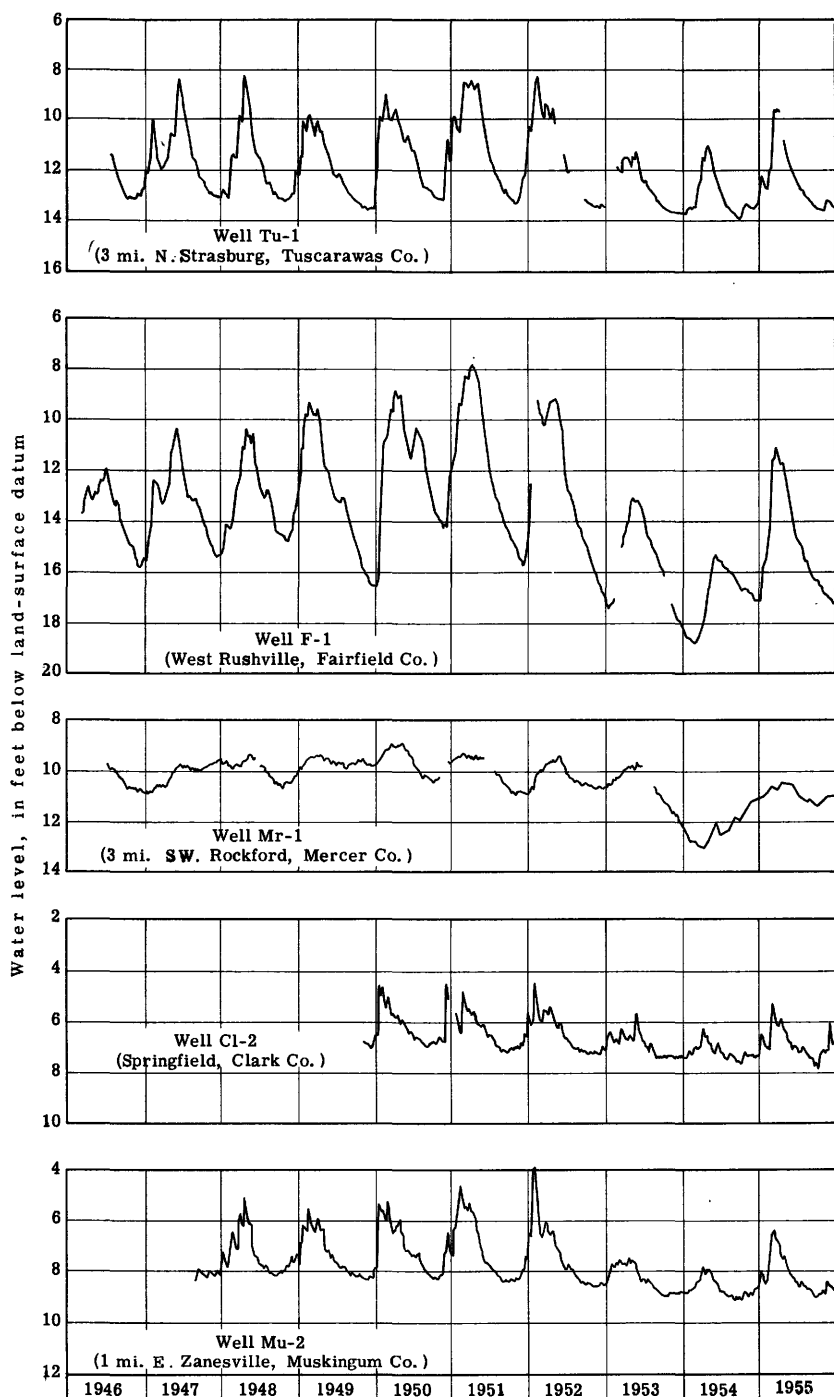


Figure 37. --Water levels in wells Tu-1, F-1, Mr-1, Cl-2, and Mu-2, Ohio

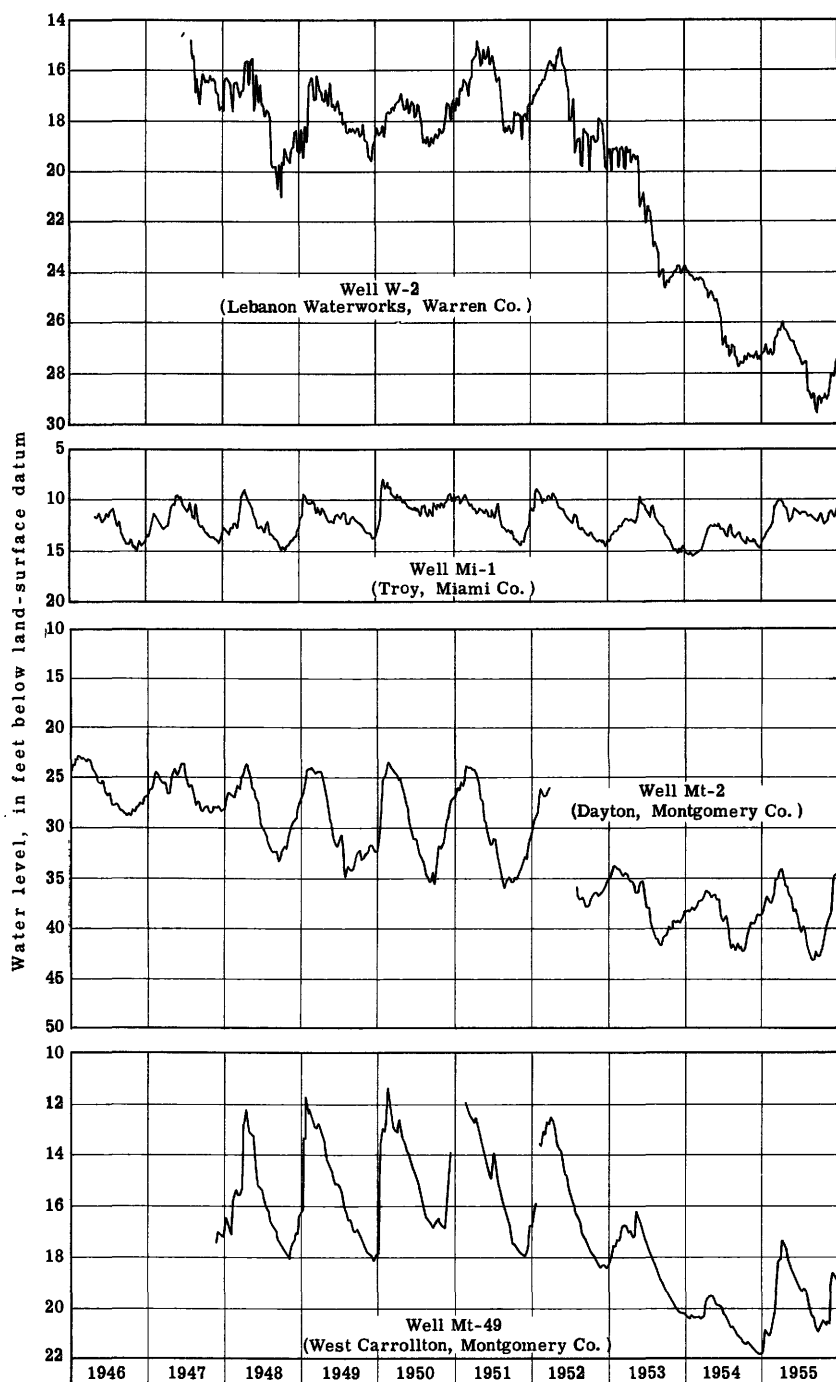


Figure 38. --Water levels in wells W-2, Mi-1, Mt-2, and Mt-49, Ohio.

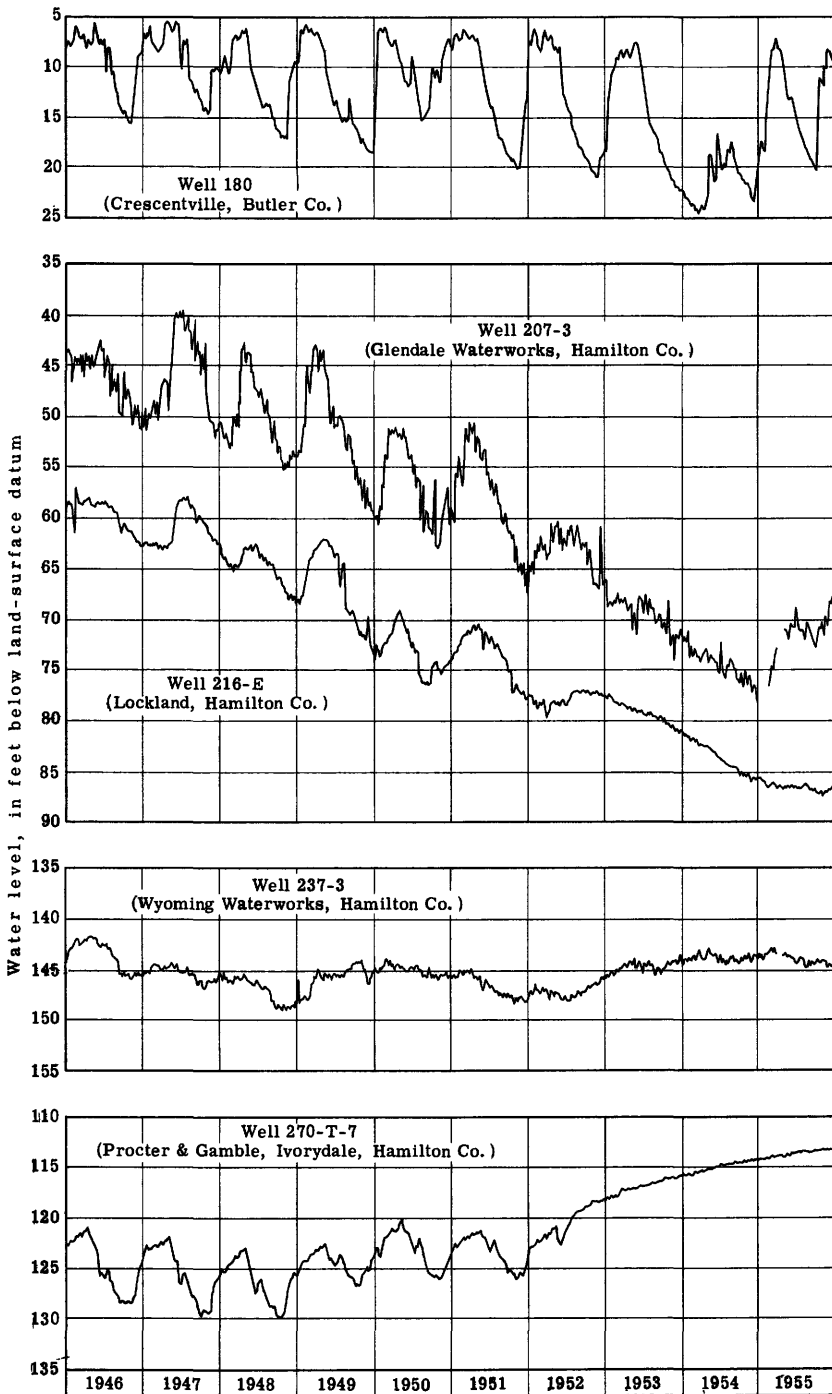


Figure 39. --Water levels in selected wells in the Mill Creek valley, Ohio.

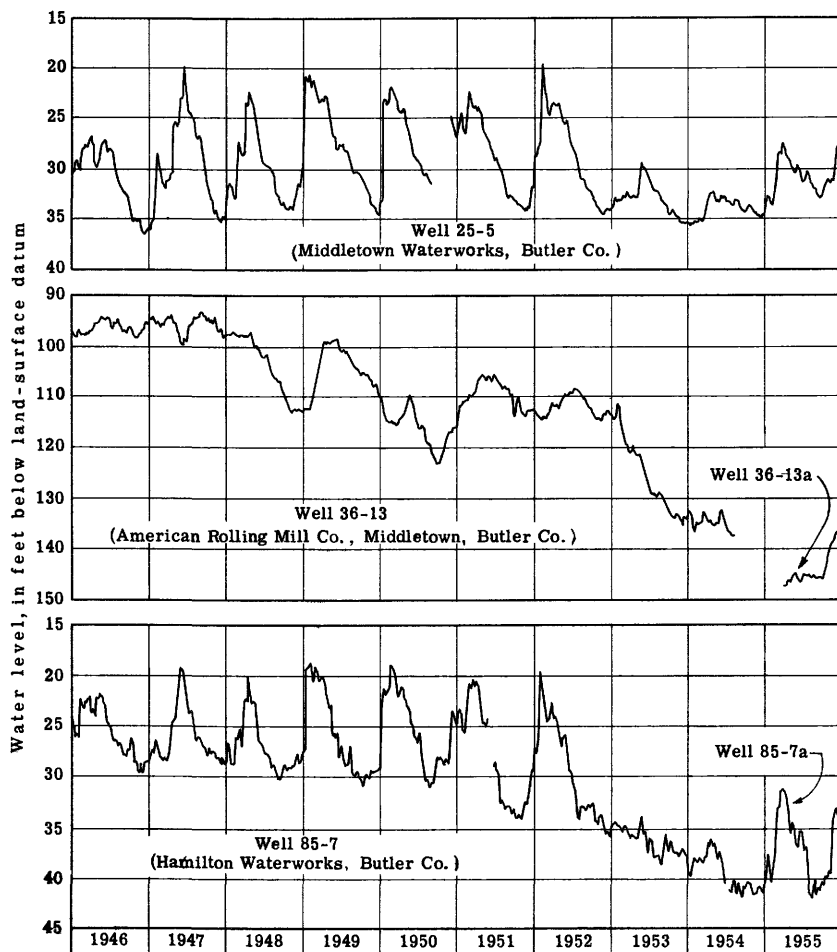


Figure 40. --Water levels in selected wells in the Miami River valley, Ohio.

Observation wells in unpumped areas. --(See hydrographs for wells Tu-1, F-1, and Mr-1, fig. 37.) Water levels were rising in most of these wells at the beginning of 1955 as the result of recharge which began in September or October 1954. Because of deficient rainfall, rises in January 1955 were at a lessened rate. The greater part of the year's recharge occurred in February and March, and record highs were reached in most wells in April and May. Recharge during the period October 1954 through April 1955 was greater than in the two previous recharge seasons, and peak stages were generally higher than in 1953 and 1954. From these peaks, levels declined at about the average rate through September. During October and November a rise, resulting from recharge equal to or slightly exceeding that of the same months in 1954, was

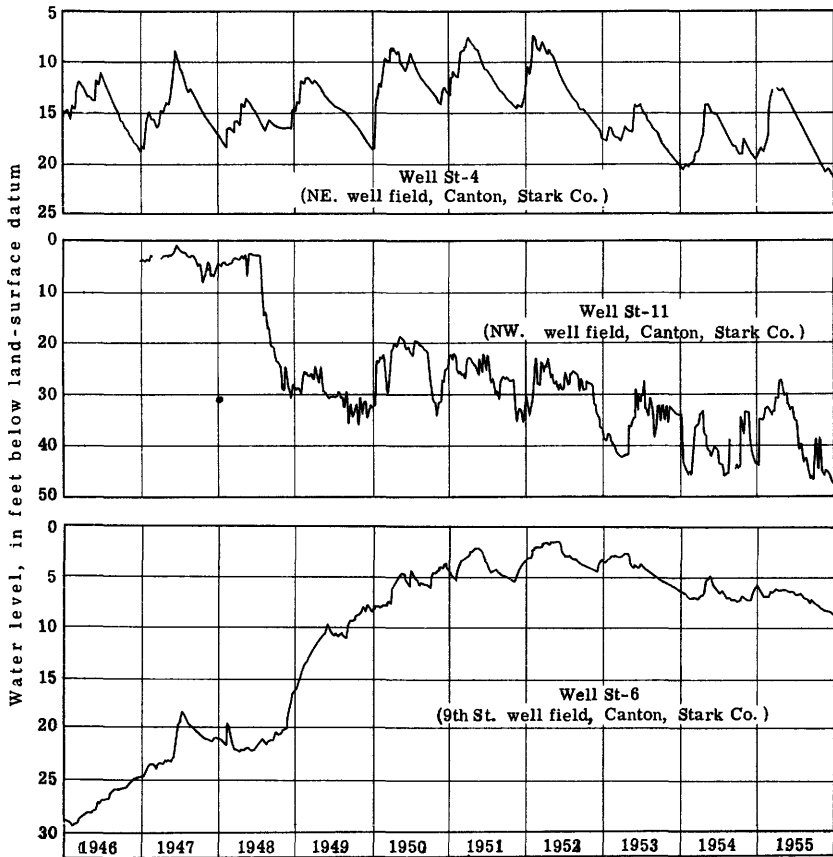


Figure 41. --Water levels in selected wells in the Canton area, Stark County, Ohio.

observed. Deficient rainfall in December contributed little recharge and, in general, water levels were falling at the end of 1955. Generally, water levels in all wells of this group were higher in 1955 than in 1953 or in 1954 but were lower than average.

Observation wells in valley gravels. --(See hydrographs of wells Tu-1, F-1, Mr-1, Cl-2, and Mu-2, fig. 37.) The hydrographs for Clark County well Cl-2 and Muskingum County well Mu-2 show that water levels in valley gravels followed the same general pattern as did those in upland aquifers. Above-average streamflow from January through March maintained levels in this group of wells considerably above those of the same period in 1953 or in 1954, but they were lower than in any year of record prior to 1953. Streamflow from April through October was extremely low, in some cases only 33 percent of average. As a result, water levels in this group of wells declined steadily, reaching record lows in three. General rises in November were followed by about equal declines in December. Although water levels were falling at the end of 1955, they were generally higher than in 1953 and in 1954 but below those of previous years of record.

Observation wells in areas of moderate industrial or municipal pumping. --(See hydrograph of wells W-2 and M1-1, fig. 38.) Twenty-eight of the 84 observation wells listed in this report are affected by moderate pumping in nearby municipal or industrial well fields. This pumping is not sufficient to alter significantly the natural fluctuations in 16 wells. The hydrographs for these wells, of which Miami County well M1-1 is an example, show the same general trends as wells unaffected by pumping. Twelve observation wells in areas of moderate pumping were lower in 1955 than in any previous year of record, as the result of heavier than average pumping in the summer of 1955. Increased pumping in certain areas, however, has produced net declines in the past 5 or more years. The hydrograph for Warren County well W-2 is a typical result of this situation.

Observation wells in areas of heavy pumping. --The valley-fill deposits in the Mill Creek valley between Lockland and Cincinnati are divided into two aquifers by till. The relatively impermeable till stratum is widespread in the valley south of Lockland where it retards recharge to the lower aquifer. North of Lockland where the till layer pinches out in places, there is percolation of water from the upper aquifer to the lower. Since the intake area is several miles distant from the centers of pumping in the southern part of the valley, the perennial yield of the lower glacial deposits is limited chiefly by the capacity of the aquifer to transmit water. Butler County well 180 at Crescentville (fig. 39) in the recharge area is relatively unaffected by the heavy industrial pumping farther south in the valley. Water-level measurements show that the rise during the 1955 recharge period was twice as great as in 1954. The peak stage in March was followed by a seasonal decline until the first of October. Ample rainfall and favorable recharge conditions in October and November caused the water level to rise in early December to within about a foot of the spring peak.

The higher stages in the recharge area have resulted in a substantial rise in water level in Hamilton County well 207-3 at the Glendale Waterworks, about 2.5 miles south of well 180 (fig. 39). The water level in Hamilton County well 216-E at the Electric Auto-Lite plant (fig. 39), 1.5 miles south of well 207-3, continued to decline through 1955 but at a considerably lessened rate. (The total decline between 1941 and 1955 was 42 feet.) The leveling off of this decline which has been continuous at Lockland since 1951 is the result either of improved recharge or the effects of recovery farther down the valley which are showing up for the first time. Water levels in observation wells south of Lockland have been rising since June 1952, when water imported from the Southwestern Ohio Water Co. project in the Miami Valley permitted Mill Creek valley industries to reduce their pumping. The hydrograph of Hamilton County well 237-3 at Wyoming (fig. 39) shows that this rise leveled off somewhat in 1955. However, the hydrograph of Hamilton County well 270-T-7 at Ivorydale (fig. 39) shows that recovery in the southern part of the valley continued at nearly the same rate as in 1954. The water level in well 270-T-7 recovered 8.5 feet between 1952 and 1954. This recovery has dominated the trend in the area. Since 1953, the hydrographs show no evidence either of annual recharge or seasonal decline. Water levels in the Mill Creek valley were higher in 1955 than in the past several years. North of Lockland, this improvement was the result of improved recharge conditions; south of Lockland, it was due to decreased pumping.

In the Miami River valley, water levels in the valley gravels in the northern part of Middletown generally were about 5 feet above those observed in 1953 and in 1954 but below the average for the period 1947 through 1952 (see hydrograph for Butler County well 25-5, fig. 40). Groundwater levels in this area respond to changes in the stage of the Miami River which flows over the aquifer. River recharge is the controlling factor in water-level fluctuations. An increase in pumping in 1955 over that in 1954 from 4.65 mgd (million gallons per day) to 5.00 mgd at the Middletown Waterworks seems to have had little effect.

The principal aquifer in the southeastern part of Middletown does not underlie the river. The hydrograph for Butler County well field of the American Rolling Mill Co., 2 miles from the Miami River (fig. 40), shows that water levels in 1955 were below those of any previous year of record. Pumping which has averaged more than 9 mgd since 1950 is an important factor in the fluctuation of water levels.

Water levels in the valley deposits north of Hamilton, which fluctuate in response to changes in stage in the Miami River, are modified, to some extent, by pumping at the Hamilton Waterworks and at the Hamilton Coke and Iron Co. plant. Higher streamflows provided more recharge in the first 3 months of 1955 than in either 1953 or in 1954, as shown by the hydrograph of Butler County well 85-7a at the Hamilton Waterworks. By the middle of August the summer decline had lowered water levels to the same stages as in 1954. Higher streamflows in the September-December period caused the water levels to rise within about a foot of the spring peak. Farther south in the valley below Hamilton, the higher river stages caused more recharge to the aquifer than in the two previous years. The lowest stage in September 1955 was 1 foot above that of 1954. Above-normal precipitation in October and November caused a rise which ended during the dry period in December. (See fig. 40.)

In the Big Bend of the Miami River near the Butler-Hamilton County line where the Southwestern Ohio Water Co. pumped an average of 13.93 mgd, an increase of 2.55 mgd from 1954, water levels rose in response to greater streamflow, reaching a peak 4.5 feet higher than in 1954, despite the increase in pumping. Fluctuations followed the same general pattern as noted for observation wells in valley gravels where there is little or no pumping.

Increased pumping in and near Dayton has deepened the cones of depression each year since 1945. In Montgomery County well Mt-2 (fig. 38), this deepening has amounted to about 15 feet. Recharge was much greater in the spring of 1955 than in 1954, but the decline during the summer produced a record low in August. Higher streamflow after the first of September produced recovery almost equal to the decline. Farther south in the valley, outside the influence of heavy pumping, well Mt-49 (fig. 38) shows about the same pattern of fluctuation for the year, except that neither the summer decline nor the rise after September was as great proportionally as in well Mt-2.

The city of Canton draws its municipal water supply from four well fields: Northeast, Northwest, Ninth Street, and Grovemiller. The average daily pumpage in millions of gallons per day from each of these fields is shown in the following table.

Well field	1950	1951	1952	1953	1954	1955
Northeast	7.59	7.70	9.27	9.96	9.17	10.20
Northwest	5.70	6.82	6.36	5.89	6.22	6.30
Ninth Street*	4.77	4.25	3.86	4.16	3.72	4.10
Grovemiller*	1.81	1.36	1.26	1.12	1.17	1.10
Total	19.87	20.13	20.75	21.13	20.28	21.70

*Average based on days of operations. Wells are pumped only during the warm months.

The hydrograph of Stark County well St-6 (fig. 41) shows the effect of pumping in the Ninth Street well field and of industrial pumping from the glacial deposits underlying the city. The water level in this aquifer was generally lower in 1955 than at any time since 1949 but higher than that observed in the early years of record, 1944 through 1949.

The hydrograph for well St-11 (fig. 41) in the deep aquifer shows that the water level in the Northwest well field has been declining each year since pumping began in 1948. Pumping in this field was about 1 mgd more in 1955 than in 1954 and, as a result, the low of record was reached in December. Spring recharge produced a peak stage in April 1955, which was about 7 feet higher than the 1954 peak and about 1 foot higher than the peak in 1953. It appears that the downward trend may be leveling off.

The water level in well St-4 near the Northeast well field fluctuated in the same manner as was observed throughout the State. Spring recharge was greater in 1955 than in 1953 or in 1954 but less than in most years before 1953. Pumping in the summer and fall appears to have nullified the effects of recharge in October and November, with the result that the water level was lower at the end of 1955 than in any year since 1945. (See fig. 41.)

Other areas of heavy pumping. --Continuous pumping from April 10 through September lowered the water level in Summit County well Su-3 in the Goodyear Tire and Rubber Co. well

field at Akron from 17 feet to about 56 feet, which is about the normal summer drawdown. Recovery after the cessation of pumping and recharge during October and November raised the water level to 30.70 feet by the end of 1955.

Industrial pumping in the vicinity in the summer of 1955 brought about a decline in well Lu-1 slightly greater than in 1954 but considerably less than in the years 1948 through 1953. The reduction in pumping in 1954 and in 1955 has slowed the declining trend in this area.

Water levels in the Chillicothe area in Ross County in south-central Ohio responded to higher streamflow in the Scioto River and Paint Creek. After spring recharge, peak stages were 2 to 4 feet higher in 1955 than in 1953 and in 1954 but were below those observed before 1953.

Well-Numbering System

The observation wells for which records are given in this report, except those in the Mill Creek and Miami River valleys of Butler and Hamilton Counties, are identified by numbers prefixed by abbreviations of the counties. The same prefix is used for all wells in a particular county. The wells in the Mill Creek and Miami River valleys are numbered consecutively according to their geographic location, beginning in the northern part of Butler County.

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 before the first entry in each column of each mixed table. Readings between plus signs are above the plane of reference, and those between minus signs are below the plane of reference.

Ashtabula County

Ab-1. K. K. Tisch. Near Jefferson. Lat. 41°41'12", long. 80°46'54". Drilled unused well in shale, diameter 3 inches, depth 40 feet. Highest water level 4.40 below lsd, Apr. 14, 1951; lowest 12.36 below lsd, Dec. 1, 1953. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	7.50	Mar. 26	6.25	June 18	8.19	Sept. 10	9.69
8	7.40	Apr. 2	6.24	25	8.40	17	10.00
15	7.40	9	6.62	July 2	8.65	24	10.17
22	7.22	16	6.76	9	8.97	Nov. 5	8.35
29	7.70	23	6.59	16	9.27	12	7.87
Feb. 5	7.84	30	6.31	23	9.35	19	7.56
12	7.70	May 7	6.73	30	9.47	26	7.28
19	7.50	14	7.04	Aug. 6	10.01	Dec. 3	6.98
26	6.97	21	7.48	13	9.75	10	6.94
Mar. 5	6.70	26	7.75	20	9.55	17	6.92
12	5.56	June 4	8.00	27	9.40	24	7.02
19	6.48	11	8.02	Sept. 3	9.46	31	7.10

Auglaize County

Au-1. C. W. Manchester. Lat. 40°33'42", long. 83°54'18". Drilled unused well in limestone, diameter 4 inches, depth 96 feet. Highest water level 14.33 below lsd, Apr. 11, 1948; lowest 21.58 below lsd, Jan. 26, 1954. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.23	17.87	17.23	16.25	16.47	16.94	17.76	18.16	18.78	19.35	19.02	17.88
2	19.22	17.89	17.15	16.20	16.56	17.03	17.85	18.19	18.79	19.43	19.02	17.83
3	19.20	17.93	17.15	16.22	16.64	17.09	17.93	18.19	18.82	19.48	18.84	17.77
4	19.14	17.90	16.86	16.31	16.64	17.08	17.97	18.36	18.88	19.47	18.84	17.78
5	19.10	17.87	16.89	16.29	16.62	17.09	18.14	18.41	19.10	19.46	18.84	17.78
6	18.93	17.78	16.89	16.27	16.69	17.21	18.14	18.52	19.09	19.30	18.87	17.77
7	18.93	17.76	16.89	16.28	16.67	17.19	18.04	18.47	19.22	19.30	18.84	18.10
8	18.91	17.78	16.88	16.30	16.59	17.09	17.98	18.33	19.23	19.34	18.81	18.25
9	18.87	17.74	16.86	16.32	16.64	17.12	17.97	18.36	19.23	19.39	18.78	18.04
10	18.77	17.73	16.83	16.35	16.62	17.12	17.93	18.36	19.25	19.40	18.71	17.81

Au-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	18.75	17.72	16.58	16.32	16.70	17.10	17.91	18.48	19.25	19.39	18.62	17.70
12	18.68	17.79	16.67	16.25	16.69	17.11	17.93	18.59	19.24	19.37	18.61	12.64
13	18.54	17.95	16.72	16.29	16.67	17.13	18.01	18.57	19.24	19.35	18.60	17.59
14	18.49	17.83	16.69	16.25	16.67	17.17	18.12	18.45	19.24	19.35	18.58	17.55
15	18.37	17.72	16.65	16.31	16.67	17.28	18.08	18.42	19.49	19.32	18.54	17.41
16	18.35	17.70	16.61	16.30	16.74	17.31	17.92	18.44	19.49	19.31	18.37	17.40
17	18.32	17.70	16.61	16.38	16.74	17.42	17.95	18.44	19.47	19.29	18.40	17.38
18	18.30	17.67	16.60	16.43	16.80	17.44	17.97	18.43	19.45	19.24	18.40	17.38
19	18.22	17.65	16.58	16.42	16.91	17.46	17.98	18.49	19.45	19.23	18.35	17.47
20	18.27	17.62	16.58	16.38	16.94	17.56	18.00	18.50	19.58	19.24	18.30	17.61
21	18.17	17.60	16.30	16.32	16.94	17.60	18.06	18.56	19.63	19.23	18.27	17.58
22	18.06	17.53	16.26	16.39	16.91	17.73	18.08	18.56	19.63	19.22	18.25	17.40
23	18.04	17.53	16.30	16.40	16.86	17.71	18.08	18.54	19.58	19.22	18.15	17.37
24	18.01	17.53	16.37	16.37	16.87	17.64	18.06	18.54	19.40	19.15	18.13	17.35
25	17.97	17.51	16.35	16.34	16.87	17.63	18.04	18.56	19.42	19.12	18.11	17.38
26	17.98	17.46	16.29	16.36	16.95	17.63	18.06	18.61	19.43	19.10	18.04	17.44
27	17.98	17.39	16.37	16.39	16.92	17.67	18.10	18.61	19.43	19.09	17.97	17.42
28	17.93	17.32	16.32	16.41	16.89	17.73	18.10	18.62	19.36	19.09	17.92	17.39
29	17.91		16.30	16.42	16.87	17.78	18.04	18.65	19.36	19.06	17.90	17.39
30	17.94		16.29	16.47	16.88	17.78	18.06	18.68	19.33	18.99	17.89	17.36
31	17.93		16.27		16.93		18.21	18.74		18.98		17.33

Au-2. City of St. Marys. Lat. 40°33'42", long. 84°23'26". Drilled unused well in gravel, diameter 8 inches, depth 100 feet. Highest water level 0.09 below lsd, Apr. 30, 1946; lowest 8.37 below lsd, Sept. 24-25, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.15	5.96	5.73	6.08	6.12	7.07	7.59	7.56	8.28	8.32	7.90	7.76
2	2.12	6.55	6.09	6.02	6.00	7.22	7.55	7.75	8.30	7.91	7.95	7.58
3	5.05	6.87	6.07	5.07	6.38	7.29	6.76	7.86	8.18	7.97	7.95	7.32
4	5.50	6.88	5.90	5.47	6.58	7.22	6.47	7.97	7.55	8.02	8.00	6.50
5	5.50	6.77	5.63	5.70	6.73	6.80	6.72	8.02	7.10	8.03	7.96	7.28
6	5.38	6.38	5.40	5.80	6.92	6.32	7.10	7.95	7.35	7.95	7.32	7.39
7	5.68	6.08	5.63	6.07	6.81	6.67	7.28	7.25	7.86	7.94	7.64	7.37
8	5.68	6.33	5.77	6.26	6.45	6.93	7.46	7.75	8.00	7.82	7.81	7.53
9	5.64	6.36	5.90	6.35	6.32	7.14	7.46	7.83	8.04	7.60	7.83	7.82
10	5.25	6.36	5.90	6.30	6.70	7.20	6.60	7.92	8.05	7.53	7.75	7.93
11	5.67	6.56	5.75	5.40	6.98	6.93	7.30	7.96	7.83	7.62	7.79	7.80
12	5.68	6.93	5.82	5.89	7.05	6.35	7.52	7.97	8.14	7.54	7.99	7.67
13	5.96	6.97	5.92	5.90	7.00	6.58	7.60	7.93	8.26	7.87	7.99	7.72
14	6.00	6.38	5.40	5.95	6.97	7.08	7.63	7.97	8.23	7.93	7.76	7.74
15	5.80	6.58	5.67	6.23	6.85	7.32	7.54	7.73	8.17	7.96	7.76	7.87
16	3.60	6.58	6.05	6.26	6.37	7.43	7.54	7.83	8.27	7.86	7.54	7.88
17	5.75	6.80	6.17	6.26	6.60	7.54	7.03	7.91	8.26	7.39	7.81	7.55
18	6.05	6.79	6.16	5.76	6.67	7.45	7.38	8.03	8.16	7.60	7.84	7.15
19	6.37	6.65	6.18	5.98	6.63	6.84	7.64	8.07	7.92	7.81	7.80	7.77
20	6.53	6.45	6.05	5.95	6.67	7.06	7.75	8.03	8.04	7.87	7.70	7.82
21	6.47	5.70	5.26	5.51	6.73	7.23	7.77	7.75	8.19	7.98	7.38	7.80
22	6.15	6.07	5.53	5.85	6.64	7.37	7.77	7.77	8.30	8.03	7.41	7.76
23	3.05	6.42	5.73	5.99	6.60	7.45	7.65	8.01	8.29	7.70	7.69	7.55
24	5.32	6.50	6.00	5.83	6.80	7.55	7.10	8.10	8.37	7.74	7.72	7.42
25	6.03	6.60	6.00	5.51	7.12	7.40	7.37	8.14	8.37	7.83	7.22	4.99
26	6.20	6.45	5.70	5.96	7.23	6.87	7.62	8.17	8.26	7.71	7.23	4.74
27	6.48	3.85	5.22	6.13	7.23	7.26	7.73	8.10	8.23	7.77	7.08	6.30
28	6.43	5.23	5.70	6.23	7.23	7.46	7.82	7.91	8.25	7.73	7.20	6.44
29	6.38		5.93	6.37	6.20	7.54	7.83	7.78	8.24	7.69	7.51	7.10
30	....		6.09	6.38	5.83	7.54	7.57	8.00	8.32	7.73	7.75	7.17
31	....		6.07		6.77		7.15	8.18		7.80		7.13

Butler County

B-23. Carl E. Schiering. Lat. 39°20'15", long. 84°34'56". Drilled unused well in gravel, diameter 6 inches, depth 176 feet. Highest water level 11.41 below lsd, June 5, 1947; lowest 28.10 below lsd, Dec. 26, 1944. Records available: 1943-55.

B-23--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.50	24.60	22.00	19.65	20.85	22.35	23.20	23.60	24.50	24.60	23.80	22.10
2	25.40	24.60	21.85	19.65	20.90	22.35	23.25	23.65	24.50	24.55	23.80	22.10
3	25.35	24.60	21.60	19.75	20.95	22.40	23.30	23.70	24.55	24.45	23.80	22.10
4	25.30	24.60	21.40	19.80	21.00	22.45	23.30	23.75	24.35	24.45	23.75	22.10
5	25.25	24.55	21.25	19.85	21.05	22.50	23.35	23.75	24.60	24.45	23.70	22.10
6	25.15	24.55	21.05	19.90	21.15	22.50	23.35	23.80	24.60	24.45	23.60	22.10
7	25.05	24.40	20.85	20.00	21.20	22.55	23.40	23.85	24.65	24.40	23.55	22.05
8	24.85	24.25	20.75	20.10	21.30	22.60	23.40	23.85	24.65	24.35	23.50	22.10
9	24.70	24.05	20.65	20.15	21.35	22.60	23.40	23.90	24.70	24.20	23.50	22.10
10	24.60	24.00	20.60	20.20	21.35	22.65	23.40	23.95	24.70	24.05	23.45	22.15
11	24.50	23.90	20.55	20.30	21.45	22.65	23.35	23.95	24.70	23.95	23.45	22.20
12	24.50	23.80	20.55	20.30	21.50	22.65	23.25	24.00	24.70	23.85	23.50	22.20
13	24.45	23.75	20.50	20.30	21.55	22.65	23.20	24.00	24.75	23.80	23.50	22.25
14	24.45	23.70	20.45	20.30	21.60	22.70	23.20	24.05	24.75	23.75	23.50	22.25
15	24.40	23.65	20.40	20.30	21.60	22.70	23.20	24.05	24.80	23.75	23.50	22.30
16	24.40	23.65	20.50	20.30	21.65	22.75	23.25	24.10	24.80	23.70	23.45	22.30
17	24.40	23.60	20.50	20.40	21.70	22.75	23.30	24.10	24.80	23.70	23.25	22.35
18	24.40	23.55	20.50	20.40	21.75	22.80	23.30	24.15	24.85	23.70	22.95	22.40
19	24.40	23.45	20.55	20.45	21.80	22.80	23.30	24.15	24.85	23.70	22.65	22.45
20	24.40	23.40	20.55	20.50	21.85	22.85	23.25	24.20	24.90	23.70	22.45	22.50
21	24.40	23.35	20.50	20.50	21.90	22.90	23.25	24.25	24.90	23.65	22.35	22.50
22	24.45	23.15	20.30	20.50	21.95	22.90	23.20	24.25	24.90	23.65	22.30	22.50
23	24.45	22.90	21.10	20.50	22.00	22.95	23.25	24.25	24.90	23.65	22.25	22.55
24	24.45	22.75	19.85	20.55	22.05	23.00	23.30	24.30	24.85	23.65	22.20	22.60
25	24.45	22.60	19.65	20.60	22.10	23.00	23.30	24.30	24.85	23.65	22.10	22.65
26	24.50	22.50	19.55	20.65	22.15	23.05	23.35	24.35	24.80	23.65	22.05	22.65
27	24.50	22.35	19.55	20.65	22.20	23.05	23.35	24.35	24.75	23.70	22.05	22.70
28	24.50	22.20	19.55	20.70	22.20	23.10	23.40	24.40	24.75	23.70	22.05	22.75
29	24.55		19.60	20.75	22.20	23.10	23.45	24.40	24.75	23.75	22.05	22.75
30	24.55		19.60	20.80	22.25	23.15	23.50	24.40	24.70	23.75	22.10	22.80
31	24.55		19.60		22.30			24.45		23.80		22.80

25-5. City of Middletown. Columbia Ave. Lat. 39°32', long. 84°25'. Drilled unused well in gravel, diameter 8 inches, depth 62 feet. Highest water level 13.25 below lsd, May 4, 1947; lowest 41.10 below lsd, Sept. 25, 1941. Records available: 1941-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.35	33.50	29.40	27.45	29.25	28.85	31.00	30.70	32.10	32.15	31.25	.....
2	34.00	33.50	29.20	27.45	29.35	28.95	31.15	30.75	32.15	32.05	31.25	.....
3	33.70	33.50	28.95	27.45	29.35	29.10	31.15	30.95	32.15	31.95	31.25	.....
4	33.60	33.55	28.70	27.60	29.50	29.20	31.10	31.10	32.15	31.85	31.25	.....
5	33.50	33.55	28.60	27.70	29.65	29.20	30.90	31.20	32.20	31.75	31.20	.....
6	33.40	33.55	28.45	27.80	29.70	29.35	30.95	31.30	32.25	31.75	31.05	.....
7	33.30	33.45	28.15	27.95	29.65	29.50	30.90	31.25	32.35	31.75	30.95	27.25
8	33.05	33.30	28.05	28.05	29.60	29.60	30.90	31.20	32.35	31.65	30.85	27.35
9	32.60	33.10	28.10	28.15	29.60	29.65	30.85	31.35	32.40	31.50	30.85	27.45
10	32.25	32.95	28.15	28.30	29.65	29.55	30.75	31.40	32.50	31.30	30.90	27.55
11	32.10	32.85	28.30	28.30	29.80	29.55	30.45	31.40	32.50	31.15	30.95	27.65
12	32.00	32.70	28.30	28.45	29.85	29.55	30.25	31.40	32.45	31.05	31.00	27.80
13	31.90	32.50	28.30	28.60	29.85	29.55	30.10	31.40	32.45	31.00	31.05	27.95
14	31.95	32.40	28.25	28.70	29.85	29.55	30.15	31.40	32.45	30.95	31.05	28.00
15	31.95	32.15	28.20	28.70	29.85	29.55	30.15	31.40	32.50	30.90	31.05	28.00
16	32.15	32.05	28.20	28.65	29.80	29.70	30.10	31.40	32.60	30.90	31.00	28.10
17	32.25	32.05	28.25	28.70	29.90	29.85	30.10	31.45	32.65	30.95	30.80	28.20
18	32.45	31.95	28.30	28.75	30.05	29.95	30.05	31.60	32.65	31.00	.....	28.30
19	32.60	31.90	28.35	28.80	30.10	29.95	30.10	31.70	32.60	31.05	.....	28.40
20	32.65	31.75	28.40	28.85	30.25	30.05	30.05	31.80	32.65	31.05	.....	28.45
21	32.65	31.65	28.40	28.95	30.25	30.10	30.05	31.85	32.65	31.00	.....	28.60
22	32.65	31.60	28.35	28.95	30.20	30.15	29.95	31.85	32.65	31.00	.....	28.85
23	32.75	30.85	28.10	28.90	30.10	30.25	30.05	31.85	32.65	30.95	.....	28.85
24	32.80	30.10	27.45	28.85	30.60	30.30	30.15	31.90	32.65	30.95	.....	28.85
25	32.95	29.85	27.10	28.90	29.80	30.30	30.15	31.90	32.55	30.95	.....	28.80
26	33.05	29.75	27.00	29.00	29.60	30.35	30.25	31.90	32.50	31.05	.....	28.75
27	33.25	29.60	26.95	29.05	29.50	30.45	30.30	31.90	32.40	31.10	.....	28.70
28	33.35	29.55	27.00	29.20	29.55	30.55	30.35	31.90	32.30	31.10	.....	28.85
29	33.45		27.20	29.25	29.30	30.65	30.45	32.00	32.25	31.15	.....	28.95
30	33.45		27.25	29.25	29.00	30.75	30.60	32.05	32.20	31.20	.....	29.00
31	33.50		27.35		28.70		30.70	32.05		31.25		29.05

36-13a. Formerly 36-13. American Rolling Mill Co. Crawford St. and South Ave., Middletown. Lat. 39°30', long. 84°23'. Drilled unused well in gravel, diameter 24 inches, depth 250 feet. Highest water level 134.57 below lsd, Dec. 4, 1955; lowest 147.27 below lsd, Apr. 4, 1955. Records available: 1955. Recording gage installed Mar. 29.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	147.17	145.97	144.22	144.82	145.27	145.42	144.47	137.92	137.37
2	147.12	145.87	145.52	144.87	145.32	145.42	144.37	137.42	137.12
3	147.22	145.52	145.72	144.87	145.47	145.37	144.22	137.27	137.12
4	147.27	145.32	145.77	144.67	145.52	145.32	143.97	138.52	137.02
5	147.07	145.17	145.72	144.92	145.52	145.22	143.72	138.72	137.02
6	147.02	146.37	145.92	145.02	145.52	145.17	143.57	138.97	136.92
7	147.07	145.32	146.27	145.12	145.42	145.12	143.52	138.97	136.77
8	147.12	145.02	146.52	.....	145.37	145.07	143.52	138.97	136.82
9	147.17	144.97	146.52	.....	145.12	144.97	143.37	138.92	136.82
10	147.12	144.67	146.37	.....	144.97	145.22	143.22	138.67	136.77
11	146.97	145.47	146.47	.....	144.97	145.32	143.12	138.77	136.62
12	147.02	144.62	146.67	145.22	144.97	145.12	143.07	138.77	136.57
13	146.82	144.47	146.72	145.22	145.02	145.07	143.12	138.62	136.47
14	146.47	144.47	146.57	145.12	145.17	145.27	142.92	138.57	136.37
15	146.37	144.52	146.47	145.17	145.27	145.27	142.52	138.37	136.37
16	146.22	144.72	146.62	145.17	145.02	145.47	142.17	138.62	136.37
17	146.12	144.87	146.67	145.12	145.02	145.57	141.82	138.57	136.22
18	145.97	144.92	146.62	145.07	145.17	145.62	141.72	138.42	136.22
19	145.92	145.07	146.47	145.12	145.17	145.62	141.67	138.22	136.37
20	145.87	144.97	146.32	145.12	145.17	145.52	141.47	138.22	136.12
21	145.87	144.92	146.12	145.17	145.12	145.52	141.22	138.02	135.97
22	145.87	144.87	145.72	145.27	145.17	145.47	141.17	137.82	135.87
23	145.67	144.77	145.42	145.27	145.32	145.32	140.87	138.07	135.82
24	145.57	144.72	145.32	145.12	145.32	145.17	140.72	138.02	135.77
25	145.52	144.72	145.12	145.07	145.37	145.02	140.72	137.77	135.72
26	146.02	144.67	145.07	144.92	145.42	144.87	140.37	137.67	135.67
27	145.97	144.57	144.92	144.92	145.42	144.77	140.32	137.47	135.62
28	146.02	144.52	144.82	144.97	145.42	144.72	140.12	137.47	135.52
29	147.07	146.02	144.32	144.77	144.97	145.27	144.57	140.02	137.57	135.47
30	147.12	146.02	144.27	144.77	145.12	145.52	144.47	139.97	137.57	135.42
31	147.12	.....	144.27	.....	145.17	145.52	.....	139.82	.....	135.27

85-7a. City of Hamilton. Lat. 39°25', long. 84°32'. Drilled unused well in gravel, diameter 18 inches, depth 180 feet. Highest water level 27.80 below lsd, Dec. 7, 1955; lowest 42.05 below lsd, Sept. 16-17, 1954. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.35	40.30	34.05	31.15	32.70	35.90	.....	38.85	39.85	39.90	39.40	33.20
2	39.80	40.30	33.65	30.15	33.50	36.00	.....	39.20	39.90	39.50	39.40	33.10
3	39.65	39.55	33.90	30.00	33.65	36.90	.....	39.90	40.15	39.90	39.35	33.10
4	39.40	39.35	34.00	30.40	34.10	36.95	.....	40.15	40.20	39.95	39.35	33.05
5	39.30	39.30	33.30	30.05	35.55	37.00	.....	39.90	39.55	39.95	39.30	33.20
6	38.95	39.20	32.80	31.20	35.90	37.15	.....	41.50	39.70	40.00	39.20	33.15
7	38.65	39.05	32.80	31.00	34.40	37.20	.....	41.60	41.60	40.60	39.20	32.85
8	38.10	39.05	32.60	31.00	34.40	37.10	37.30	39.75	41.70	39.90	39.40	33.30
9	37.70	38.95	32.75	31.50	34.45	37.15	.....	39.70	41.15	39.85	39.45	33.65
10	37.55	38.60	33.15	31.10	34.45	35.85	.....	39.70	41.35	39.80	39.55	33.90
11	37.75	38.40	32.95	30.95	34.05	35.60	.....	39.65	40.60	39.85	39.10	33.65
12	37.80	38.15	32.70	31.40	34.00	35.25	.....	39.70	40.10	39.80	39.10	33.25
13	37.60	37.90	32.45	31.45	34.15	35.10	.....	40.75	40.05	39.85	39.10	.....
14	37.60	37.70	33.05	31.60	33.20	35.10	.....	40.60	40.05	39.70	38.90	.....
15	37.65	37.70	32.00	31.75	33.15	35.05	.....	39.40	40.15	39.70	38.60	.....
16	37.70	37.45	32.85	31.90	34.85	34.75	.....	39.50	40.50	39.00	38.60	.....
17	37.95	37.45	33.00	32.05	34.25	34.80	.....	40.60	41.00	39.40	37.50	.....
18	38.05	37.30	32.90	32.30	34.90	34.60	.....	41.75	41.00	39.70	35.85	.....
19	38.10	37.05	31.65	32.55	35.10	34.60	.....	41.75	40.40	39.80	34.75	.....
20	37.95	36.95	31.40	33.10	35.35	35.15	35.55	41.95	40.65	39.90	33.95	.....
21	38.00	36.80	31.20	32.90	34.90	35.10	36.55	41.95	41.15	39.80	34.10	.....
22	38.00	36.30	30.65	32.65	34.95	34.60	36.50	40.25	41.30	39.35	33.95	.....
23	38.00	35.30	30.00	33.05	34.95	.....	36.95	40.25	40.60	39.65	33.55	.....
24	38.25	34.75	30.25	32.20	35.10	.....	37.15	41.50	40.60	39.55	33.40	.....
25	39.30	34.80	29.90	32.50	35.15	.....	36.65	39.50	40.40	39.60	33.20	.....

85-7a--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	39.35	34.80	29.60	32.60	35.50	.....	37.80	40.00	40.20	39.70	33.15	.....
27	39.40	34.50	29.45	33.10	35.80	.....	39.40	40.60	40.20	39.55	32.00	.....
28	39.55	34.15	29.95	32.90	35.90	.....	39.85	39.85	40.15	39.45	32.90	.....
29	39.55		30.15	33.60	35.90	.....	39.00	39.25	40.25	39.45	33.05	.....
30	39.10		31.25	33.05	35.35	.....	39.30	39.50	40.10	39.35	33.10	.....
31	39.35		31.05		35.75		39.30	39.55		39.15		.....

180. Fox Paper Co. Crescentville. Lat. 39°18'05", long. 84°26'18". Drilled unused well in gravel, diameter 26 inches, depth 90 feet. Highest water level 3.77 below lsd, Jan. 27, 1949; lowest 24.40 below lsd, Mar. 16, 1954. Records available: 1938-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.81	17.85	10.03	7.28	9.10	13.17	15.25	17.58	19.31	14.96	12.02	8.49
2	19.47	17.40	9.90	7.32	9.17	13.07	15.38	17.58	19.32	15.01	12.03	8.35
3	19.07	15.97	9.59	7.52	9.32	12.97	15.55	17.60	19.27	15.21	9.88	7.83
4	18.77	15.95	9.15	7.77	9.52	12.92	15.58	17.69	19.32	15.70	9.82	7.89
5	17.77	15.96	8.93	7.77	9.82	12.95	15.69	17.79	19.39	15.91	9.68	7.95
6	17.54	14.97	8.75	7.77	10.15	13.04	15.68	17.80	19.37	16.03	9.41	7.94
7	17.57	14.78	8.69	7.98	10.35	13.15	15.73	17.74	19.42	13.86	9.51	7.79
8	17.41	14.68	8.63	8.13	10.88	13.33	15.86	17.88	19.58	13.63	9.61	7.83
9	17.27	14.47	8.34	8.21	11.16	13.50	16.08	17.92	19.58	13.44	9.61	8.09
10	17.30	14.27	8.25	8.23	11.34	13.56	16.09	17.99	19.68	12.98	9.45	8.40
11	17.27	14.30	8.15	8.20	11.65	13.38	16.21	18.03	19.78	12.52	9.61	8.50
12	17.15	14.59	8.18	8.18	11.73	13.57	16.32	18.04	19.89	11.98	9.90	8.61
13	17.17	14.60	8.51	8.05	11.77	13.66	16.40	18.12	19.88	11.64	10.02	8.71
14	17.17	14.24	8.62	7.72	12.10	13.69	16.37	18.35	19.78	11.36	10.16	8.75
15	16.92	14.13	8.51	8.09	12.20	13.80	16.30	18.39	19.73	11.20	10.08	8.88
16	17.05	13.91	8.22	8.23	12.20	13.82	16.45	18.28	19.82	11.22	8.92	8.92
17	17.25	13.42	8.37	8.41	12.37	13.88	16.62	18.25	19.91	11.12	9.03	8.91
18	17.55	13.32	8.22	8.43	12.50	13.95	16.72	18.36	19.92	10.92	9.05	9.19
19	17.95	13.02	8.27	8.33	12.51	13.92	16.80	18.53	19.75	10.98	8.82	9.46
20	18.17	12.85	8.33	8.36	12.70	14.07	16.84	18.53	19.80	11.07	8.87	9.43
21	17.99	12.67	8.10	8.43	12.95	14.18	16.83	18.57	19.96	11.10	8.62	9.37
22	17.96	12.25	7.11	8.47	13.02	14.32	16.84	18.56	19.98	11.31	8.50	9.31
23	18.10	12.20	7.10	8.50	13.12	14.42	16.86	18.72	19.93	11.35	8.32	9.37
24	18.01	12.05	6.85	8.44	13.09	14.58	16.87	18.83	20.01	11.62	8.39	9.45
25	18.14	11.85	6.79	8.70	13.27	14.68	17.06	18.89	20.14	11.63	8.30	9.70
26	18.23	11.59	6.88	8.84	13.32	14.85	17.22	18.95	20.15	11.53	8.09	9.77
27	18.30	11.13	6.97	8.85	13.26	15.04	17.26	18.89	19.98	11.63	7.91	9.83
28	18.05	10.55	6.97	8.86	13.31	15.18	17.35	18.91	19.86	11.57	7.94	9.80
29	18.05		7.06	8.97	13.20	15.16	17.33	18.92	19.80	11.57	8.20	9.85
30	18.23		7.17	9.10	13.19	15.17	17.37	18.91	18.00	11.75	8.47	9.90
31	18.23		7.21		13.25		17.53	19.14		11.99		9.79

Carroll County

C-1. City of Carrollton. Lat. 40°37'26", long. 81°05'12". Drilled unused well in sandstone, diameter 10 inches, depth 60 feet. Highest water level 11.65 below lsd, May 22, 1954; lowest 38.75 below lsd, Nov. 20, 1955. Records available: 1951-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.95	19.90	16.70	14.75	16.85	22.90	25.80	28.75	34.45	37.00	38.05	37.75
2	20.75	19.80	16.90	14.90	17.35	22.20	26.70	28.40	34.05	36.05	38.20	37.75
3	20.80	20.55	17.50	16.05	16.30	21.60	26.90	28.45	35.00	36.35	38.20	37.80
4	21.20	21.10	18.05	16.45	16.00	23.05	26.60	29.10	35.30	36.30	38.30	37.65
5	21.25	21.45	18.00	15.10	15.15	23.60	28.90	29.40	35.70	36.45	38.35	37.55
6	21.15	21.50	18.05	14.50	15.40	24.05	26.95	29.00	34.65	36.65	38.20	37.45
7	20.50	21.90	18.20	14.15	15.30	23.75	26.50	29.25	34.80	36.90	38.10	37.35
8	20.55	21.90	17.20	15.10	16.35	23.50	26.50	29.75	34.10	37.30	38.10	37.50
9	20.10	22.20	16.10	16.75	17.90	23.50	26.45	30.15	35.05	37.45	38.20	37.50
10	20.45	22.45	16.05	17.70	18.25	24.20	26.95	29.60	35.50	37.60	38.35	37.55
11	20.65	20.90	16.55	17.85	19.05	24.90	26.95	30.60	35.95	37.60	38.60	37.65
12	20.30	20.80	17.30	16.55	19.80	25.70	25.85	30.80	36.30	37.65	38.70	37.75
13	20.40	21.05	17.60	16.65	21.05	26.80	26.15	30.15	36.75	37.80	38.70	37.50
14	20.25	20.95	17.70	12.60	21.55	24.60	26.55	30.95	36.90	37.75	38.70	37.60
15	19.55	21.35	17.30	18.50	21.60	23.70	.....	30.90	37.15	37.70	38.60	37.75

C-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	19.70	20.10	17.45	19.30	21.10	24.35	.....	30.45	37.05	32.85	38.55	37.75
17	19.40	19.20	16.30	19.35	19.55	24.80	27.10	31.60	37.45	37.95	38.60	37.80
18	19.45	19.70	16.90	19.70	18.65	25.80	27.35	31.60	37.60	37.70	38.65	37.60
19	19.45	20.05	17.65	19.90	18.00	26.40	26.35	32.55	37.35	37.90	38.70	37.45
20	18.85	20.35	18.15	20.20	17.65	26.55	26.00	32.50	37.50	38.00	38.75	37.30
21	17.95	20.35	18.30	20.50	17.20	25.70	26.50	32.45	37.55	38.10	38.75	37.25
22	19.30	19.25	17.65	20.75	19.55	24.95	26.35	32.50	37.55	38.15	38.50	37.25
23	19.55	19.40	16.70	22.00	19.95	24.40	26.50	32.30	37.55	37.95	38.60	37.40
24	19.35	19.45	15.15	22.05	21.10	25.40	27.25	32.30	37.45	37.90	38.60	37.35
25	19.10	17.90	14.55	20.05	21.55	26.05	27.45	33.70	37.40	37.80	38.35	37.35
26	19.25	17.80	15.80	20.20	22.30	26.40	26.50	34.15	37.15	38.00	38.25	37.20
27	19.65	18.05	16.45	18.55	22.45	26.45	26.50	34.60	37.10	38.15	38.00	37.00
28	19.90	18.35	17.10	17.20	22.30	25.15	26.55	34.90	37.15	38.05	37.95	36.95
29	20.70		17.55	17.10	22.55	24.35	26.70	33.55	37.05	38.20	37.90	37.00
30	20.95		16.35	16.65	23.10	25.30	28.10	34.35	37.00	38.10	37.90	37.00
31	20.40		15.05		23.10		28.60	34.45		38.15		37.10

Champaign County

Ch-1. State of Ohio. Lat. 40°06'36", long. 83°48'00". Drilled observation well in gravel, diameter 6 inches, depth 45 feet. Highest water level 1.43 below lsd, Jan. 17, 1950; lowest 9.56 below lsd, Dec. 22, 1954. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	9.11	Apr. 13	8.14	July 7	8.88	Oct. 26	9.22
Feb. 17	8.50	May 11	8.32	Aug. 3	8.96	Nov. 23	8.65
Mar. 15	7.59	June 8	8.67	Sept. 1	9.21	Dec. 22	9.02

Clark County

C1-2. City of Springfield. Lat. 39°55'50", long. 83°51'12". Drilled unused well in gravel, diameter 6 inches, depth 74 feet. Highest water level 0.20 below lsd, Jan. 15, 1950; lowest 7.67 below lsd, Sept. 21, 1955. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.30	7.15	5.15	5.75	6.42	6.90	7.13	7.16	7.43	7.05	7.13	6.52
2	6.40	7.13	.....	5.80	6.48	6.93	7.12	7.17	7.46	7.10	7.14	6.54
3	6.52	7.13	.....	5.89	6.53	6.94	7.11	7.16	7.46	7.17	7.00	6.50
4	6.52	7.14	.....	5.98	6.57	6.95	7.08	7.19	7.47	7.19	6.82	6.39
5	6.33	7.14	.....	6.03	6.61	6.93	7.13	7.22	7.47	7.19	6.85	6.43
6	6.00	7.14	.....	6.05	6.64	6.92	7.13	7.22	7.48	7.14	6.86	6.52
7	5.63	6.88	.....	6.13	6.64	6.88	7.04	7.22	7.52	7.15	6.92	6.57
8	5.85	6.77	.....	6.20	6.59	6.80	7.04	7.25	7.57	6.73	6.95	6.62
9	6.00	6.80	.....	6.21	6.65	6.85	7.02	7.25	7.63	6.82	6.97	6.67
10	6.16	5.95	.....	6.23	6.65	6.85	6.07	7.24	7.63	6.94	7.00	6.75
11	6.31	5.55	.....	6.25	6.65	6.75	6.47	7.26	7.52	7.01	7.02	6.79
12	6.42	5.87	.....	6.16	6.68	6.63	6.69	7.27	7.50	7.05	7.04	6.84
13	6.53	6.02	.....	6.12	6.69	6.73	6.63	7.28	7.50	7.03	7.04	6.88
14	6.60	6.17	.....	6.17	6.68	6.79	6.90	7.26	7.50	7.06	7.02	6.91
15	6.65	6.33	5.75	6.22	6.59	6.85	6.93	7.30	7.53	7.08	7.02	6.93
16	6.70	6.35	5.85	6.24	6.68	6.90	6.95	7.29	7.53	7.07	6.98	6.94
17	6.75	5.65	5.94	6.28	6.74	6.93	6.93	7.32	7.53	7.03	4.32	6.95
18	6.80	5.70	6.02	6.34	6.77	6.94	6.98	7.35	7.54	6.95	4.83	.....
19	6.85	5.83	6.07	6.35	6.79	6.95	6.99	7.38	7.59	6.98	5.19	.....
20	6.88	5.85	6.08	6.35	6.83	7.00	6.90	7.38	7.63	7.02	5.48	.....
21	6.90	5.35	5.80	6.32	6.83	7.00	6.97	7.37	7.67	7.06	5.63	.....
22	6.92	3.87	4.55	6.19	6.81	7.02	7.02	7.35	7.58	7.07	5.75	6.92
23	6.95	4.48	4.54	6.13	6.78	7.01	7.02	7.28	7.52	7.08	5.75	6.93
24	7.00	4.83	4.94	6.11	6.78	6.99	6.95	7.33	7.13	7.08	5.55	6.93
25	7.03	5.07	5.17	6.04	6.75	6.99	7.01	7.35	7.18	7.08	5.80	6.85
26	7.04	5.27	5.45	6.13	6.78	6.97	7.08	7.38	7.27	7.10	5.97	6.84
27	7.07	5.25	5.50	6.21	6.82	7.04	7.11	7.38	7.26	7.12	6.10	6.90
28	7.10	5.15	5.57	6.28	6.82	7.08	7.09	7.35	7.18	7.12	6.23	7.00
29	7.08		5.58	6.35	6.73	7.09	7.08	7.39	7.22	7.10	6.35	7.01
30	7.13		5.58	6.38	6.77	7.12	7.12	7.39	7.11	7.10	6.48	7.02
31	7.13		5.66		6.86		7.11	7.40		7.13		7.03

Cl-6. C. H. Clark. Lat. 39°54', long. 83°44'. Drilled observation well in sand and gravel, diameter 4 inches, depth 18 feet. Highest water level 5.53 below lsd, Mar. 23, 1955; lowest 10.42 below lsd, Jan. 15-16, 19-20, 1954. Records available: 1953-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	8.35	6.10	6.13	7.03	7.76	8.18	8.56	9.29	9.49	9.46	7.45
2	....	8.34	6.06	6.17	7.03	7.77	8.21	8.58	9.32	9.46	9.46	7.43
3	....	8.36	6.05	6.24	7.09	7.80	8.23	8.60	9.35	9.45	9.44	7.43
4	....	8.37	6.14	6.30	7.11	7.82	8.24	8.64	9.37	9.46	9.35	7.34
5	....	8.36	6.15	6.32	7.13	7.85	8.25	8.64	9.42	9.46	9.32	7.27
6	....	8.35	6.11	6.39	7.16	7.86	8.28	8.65	9.46	9.46	9.30	7.25
7	....	8.19	6.16	6.44	7.18	7.86	8.22	8.68	9.46	9.46	9.28	7.25
8	....	8.00	6.18	6.49	7.20	7.87	8.22	8.72	9.50	9.44	9.28	7.26
9	....	7.93	6.23	6.53	7.22	7.91	8.24	8.73	9.51	9.36	9.28	7.39
10	8.09	7.70	6.25	6.57	7.24	7.92	8.20	8.76	9.54	9.34	9.28	7.42
11	8.08	7.35	6.27	6.61	7.27	7.91	8.19	8.78	9.54	9.32	9.30	7.45
12	8.07	7.29	6.30	6.63	7.28	7.93	8.21	8.80	9.54	9.31	9.33	7.47
13	8.05	7.28	6.34	6.64	7.30	7.93	8.27	8.83	9.55	9.30	9.34	7.50
14	8.05	7.28	6.36	6.68	7.32	7.94	8.27	8.87	9.56	9.30	9.34	7.51
15	8.05	7.29	6.40	6.73	7.34	8.00	8.29	8.88	9.57	9.32	9.32	7.55
16	8.06	7.29	6.48	6.75	7.35	8.01	8.33	8.89	9.59	9.34	9.17	7.56
17	8.08	7.16	6.50	6.80	7.37	8.02	8.33	8.93	9.61	9.34	8.50	7.59
18	8.09	....	6.54	6.82	7.39	8.05	8.35	8.96	9.64	9.33	8.29	7.62
19	8.12	....	6.57	6.85	7.41	8.06	8.36	8.98	9.65	9.34	8.06	7.65
20	8.14	....	6.61	6.87	7.46	8.08	8.36	9.01	9.67	9.34	7.99	7.67
21	8.14	....	6.43	6.90	7.48	8.09	8.37	9.04	9.69	9.36	7.92	7.68
22	8.14	....	5.92	6.91	7.50	8.11	8.39	9.07	9.71	9.36	7.85	7.70
23	8.17	....	5.56	6.93	7.52	8.11	8.41	9.09	9.71	9.37	7.73	7.72
24	8.18	6.34	5.67	6.93	7.54	8.05	8.41	9.11	9.62	9.38	7.63	7.73
25	8.22	6.37	5.67	6.92	7.57	8.07	....	9.12	9.56	9.38	7.50	7.74
26	8.24	6.38	5.84	6.94	7.63	8.10	8.45	9.13	9.55	9.39	7.45	7.75
27	8.26	6.37	5.99	6.95	7.65	8.12	8.46	9.15	9.55	9.40	7.40	7.77
28	8.27	6.18	6.00	6.97	7.66	8.13	8.47	9.20	9.55	9.40	7.37	7.79
29	8.30	....	6.04	6.99	7.68	8.15	8.51	9.20	9.55	9.42	7.42	7.80
30	8.33	....	6.07	7.01	7.72	8.16	8.53	9.24	9.54	9.43	7.44	7.82
31	8.34	....	6.10	....	7.74	....	8.53	9.27	....	9.45	....	7.82

Delaware County

Dl-2. U. S. Army Engineer Corps. Lat. 40°21'42", long. 83°04'25". Dug unused well in sand and gravel, diameter 24 inches, depth 31 feet. Highest water level 1.45 below lsd, Jan. 26, 1952; lowest 19.40 below lsd, Jan. 24-30, 1954. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.93	11.47	2.74	5.01	8.75	10.70	12.07	13.07	13.81	14.95	14.50	12.96
2	12.90	11.54	3.01	5.21	8.81	10.80	12.10	13.11	13.85	14.97	14.52	12.95
3	12.83	11.67	3.22	5.48	8.87	10.89	12.15	13.14	13.90	14.98	14.54	12.88
4	12.79	11.77	2.53	5.79	8.91	10.95	12.18	13.18	13.93	14.98	14.57	12.83
5	12.53	11.79	2.68	6.00	8.95	11.00	12.20	13.23	13.97	14.97	14.58	12.78
6	11.80	11.78	2.93	6.20	9.02	11.05	12.22	13.27	14.01	14.95	14.58	12.75
7	10.48	11.55	3.30	6.44	9.05	11.06	12.24	13.30	14.07	14.93	14.55	12.70
8	10.21	11.30	3.57	6.68	9.12	11.07	12.27	13.35	14.12	14.90	14.55	12.63
9	10.13	11.21	3.80	6.90	9.21	11.12	12.30	13.38	14.17	14.90	14.55	12.58
10	10.15	10.15	3.96	7.02	9.25	11.15	12.35	13.39	14.23	14.89	14.53	12.58
11	10.22	8.80	3.97	7.14	9.31	11.15	12.40	13.39	14.27	14.88	14.49	12.60
12	10.27	8.27	3.16	7.27	9.35	11.16	12.47	13.39	14.33	14.85	14.48	12.61
13	10.35	8.54	3.59	7.37	9.37	11.21	12.51	13.37	14.38	14.79	14.49	12.61
14	10.42	8.70	3.93	7.47	9.42	11.26	12.53	13.34	14.43	14.75	14.50	12.60
15	10.45	8.87	4.22	7.60	9.50	11.34	12.52	13.35	14.46	14.69	14.51	12.59
16	10.53	8.95	4.55	7.70	9.54	11.41	12.53	13.35	14.52	14.68	14.49	12.58
17	10.63	8.50	4.86	7.83	9.61	11.48	12.57	13.35	14.57	14.61	14.00	12.58
18	10.72	8.17	5.15	7.90	9.66	11.55	12.61	13.35	14.62	14.55	14.05	12.57
19	10.81	8.06	5.43	7.97	9.70	11.60	12.66	13.38	14.64	14.55	14.06	12.64
20	10.89	8.01	5.67	8.04	9.77	11.64	12.70	13.42	14.67	14.57	14.07	12.67
21	10.90	7.50	5.60	8.09	9.85	11.67	12.73	13.44	14.73	14.58	14.05	12.69
22	10.90	3.50	2.77	8.11	9.92	11.72	12.75	13.46	14.77	14.60	14.04	12.68
23	10.96	3.15	3.21	8.13	9.98	11.76	12.76	13.50	14.82	14.60	13.98	12.64
24	11.00	3.45	3.54	8.13	10.03	11.80	12.78	13.54	14.86	14.59	13.12	12.62
25	11.07	3.80	3.81	8.17	10.13	11.82	12.82	13.58	14.91	14.59	13.12	12.67

D1-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	11.13	4.01	4.16	8.30	10.22	11.87	12.87	13.62	14.95	14.58	13.09	12.74
27	11.22	3.90	4.54	8.38	10.31	11.92	12.91	13.65	14.95	14.56	13.06	12.80
28	11.26	2.74	4.73	8.47	10.38	11.98	12.95	13.68	14.96	14.55	12.98	12.85
29	11.32		4.63	8.56	10.44	12.02	12.97	13.69	14.96	14.52	12.95	12.88
30	11.42		4.63	8.67	10.52	12.05	13.00	13.71	14.93	14.49	12.96	12.90
31	11.46		4.84		10.60		13.03	13.76		14.48		12.91

D1-3. U. S. Army Engineer Corps. Lat. 40°21'42", long. 83°04'00". Drilled unused well in limestone, diameter 12 inches, depth 135 feet. Highest water level 23.40 below lsd, Jan. 29, 1952; lowest 37.04 below lsd, Nov. 1, 1948. Records available: 1948-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.92	29.67	28.11	.....	28.14	28.37	28.08	27.99	28.32	28.65	28.44	28.10
2	29.18	29.92	27.75	.....	28.16	28.36	28.16	27.99	28.32	28.64	28.40	27.97
3	29.18	30.00	27.99	.....	28.17	28.31	28.17	27.99	28.27	28.63	28.44	27.97
4	29.11	30.00	28.24	.....	28.14	28.23	28.15	28.02	28.30	28.53	28.44	28.02
5	29.04	29.76	28.14	29.53	28.14	28.20	28.09	28.03	28.34	28.51	28.37	28.02
6	28.90	29.67	27.15	.....	28.22	28.22	28.06	28.00	28.34	28.47	28.30	27.87
7	28.75	29.68	26.35	.....	28.13	28.17	28.06	28.02	28.42	28.49	28.36	27.73
8	28.55	29.65	25.87	.....	28.26	28.17	28.07	28.03	28.42	28.57	28.37	27.86
9	28.88	29.65	25.60	.....	28.28	28.25	28.08	28.03	28.42	28.58	28.35	28.07
10	28.97	29.44	24.54	.....	28.20	28.25	28.04	28.00	28.45	28.51	.....	28.14
11	29.04	29.10	24.90	.....	28.23	28.12	28.03	27.95	28.45	28.46	28.33	28.14
12	29.02	28.92	25.30	28.88	28.20	28.17	28.04	27.96	28.52	28.37	28.40	28.17
13	29.25	29.07	25.77	28.83	28.12	28.21	28.00	27.97	28.52	28.34	28.40	28.25
14	29.27	28.99	26.35	28.74	28.19	28.21	27.94	28.10	28.45	28.32	28.40	28.28
15	29.26	29.16	26.20	28.75	28.21	28.20	27.84	28.13	28.45	28.37	28.35	28.38
16	29.38	29.25	28.83	28.74	28.19	28.17	27.88	28.06	28.50	28.37	.....	28.44
17	29.50	29.33	28.84	28.68	28.25	28.18	27.93	28.07	28.54	28.33	.....	28.46
18	29.51	29.31	29.05	28.63	28.25	28.17	27.96	28.15	28.53	28.45	.....	28.62
19	29.56	29.17	29.07	28.46	28.23	28.09	27.95	28.16	28.45	28.53	.....	28.73
20	29.60	29.04	29.16	28.37	28.30	28.09	27.95	28.14	28.50	28.54	.....	28.72
21	29.45	28.78	28.93	28.07	28.33	28.07	27.90	28.15	28.56	28.51	27.55	28.68
22	29.45	27.80	28.16	27.87	28.27	28.12	27.90	28.15	28.57	28.51	28.02	28.58
23	29.46	27.61	27.50	27.82	28.28	28.14	27.87	28.20	28.55	28.40	28.28	28.70
24	29.43	28.11	26.80	27.76	28.25	28.08	27.92	28.20	28.57	28.43	28.34	28.79
25	29.55	28.38	27.25	28.16	28.34	28.07	27.96	28.20	28.64	28.42	28.20	29.00
26	29.57	28.63	28.53	28.21	28.36	28.12	28.00	28.20	28.64	28.33	28.05	29.05
27	29.62	28.61	28.96	28.02	28.30	28.16	28.00	28.15	28.55	28.37	27.85	29.09
28	29.55	28.45	29.15	28.00	28.27	28.18	27.99	28.17	28.54	28.32	27.86	29.08
29	29.60		29.27	28.11	28.25	28.14	27.95	28.14	28.53	28.38	27.76	29.11
30	29.75		29.16	28.17	28.32	28.08	27.99	28.20	28.60	28.24	28.10	29.15
31	29.75		.....		28.35		28.01	28.29		28.44		29.10

Erie County

E-1. State of Ohio. Lat. 41°25', long. 83°50'. Drilled unused well in dolomite, diameter 10 inches, depth 169 feet. Highest water level 3.97 below lsd, Mar. 13, 1952; lowest 5.97 below lsd, Nov. 17-18, 1955. Records available: 1952-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.64	5.51	5.25	4.74	4.81	5.02	5.10	5.23	5.35	5.53	5.62	5.74
2	5.67	5.52	5.31	4.71	4.82	5.03	5.17	5.24	5.32	5.50	5.59	5.58
3	5.68	5.59	5.31	4.73	4.84	5.02	5.17	5.25	5.28	5.49	5.67	5.53
4	5.58	5.60	5.09	4.74	4.84	5.00	5.16	5.25	5.28	5.49	5.70	5.50
5	5.59	5.52	5.06	4.72	4.88	5.00	5.16	5.25	5.30	5.48	5.64	5.67
6	5.46	5.50	5.04	4.75	4.92	5.00	5.17	5.25	5.30	5.47	5.54	5.65
7	5.46	5.55	5.10	4.83	4.90	4.98	5.16	5.18	5.30	5.47	5.61	5.55
8	5.40	5.55	5.10	4.86	4.98	4.96	5.14	5.18	5.30	5.60	5.64	5.52
9	5.45	5.53	4.98	4.88	4.98	4.98	5.15	5.12	5.27	5.60	5.64	5.55
10	5.46	5.53	5.01	4.88	4.96	4.98	5.16	5.17	5.36	5.57	5.61	5.56
11	5.37	5.55	4.99	4.86	4.93	4.98	5.16	5.19	5.35	5.56	5.61	5.57
12	5.34	5.66	4.98	4.84	4.93	4.96	5.17	5.17	5.37	5.53	5.62	5.57
13	5.39	5.66	4.96	4.85	4.93	5.03	5.16	5.13	5.40	5.51	5.58	5.55
14	5.41	5.79	4.96	4.84	4.90	5.04	5.18	5.21	5.39	5.51	5.56	5.52
15	5.51	5.55	4.87	4.91	4.91	5.06	5.19	5.24	5.40	5.49	5.55	5.62

E-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	5.56	5.55	4.84	4.94	4.91	5.06	5.24	5.23	5.39	5.52	5.56	5.63
17	5.53	5.55	4.99	4.92	4.93	5.07	5.24	5.20	5.40	5.50	5.57	5.62
18	5.48	5.56	4.94	4.92	4.95	5.08	5.24	5.20	5.40	5.51	5.97	5.63
19	5.43	5.50	4.96	4.89	5.00	5.08	5.24	5.22	5.38	5.56	5.67	5.65
20	5.43	5.47	4.91	4.87	4.98	5.08	5.24	5.22	5.42	5.57	5.57	5.64
21	5.42	5.46	4.90	4.87	4.99	5.09	5.23	5.23	5.43	5.58	5.64	5.58
22	5.42	5.46	4.78	4.89	4.97	5.12	5.23	5.23	5.38	5.57	5.60	5.54
23	5.51	5.42	5.15	4.89	4.99	5.13	5.22	5.23	5.37	5.50	5.53	5.53
24	5.53	5.42	5.12	4.84	4.97	5.12	5.20	5.23	5.40	5.61	5.65	5.53
25	5.50	5.38	4.90	4.79	4.95	5.12	5.14	5.23	5.43	5.66	5.65	5.61
26	5.60	5.37	4.78	4.80	4.95	5.12	5.17	5.26	5.43	5.61	5.51	5.65
27	5.61	5.31	4.81	4.80	4.95	5.15	5.19	5.25	5.40	5.60	5.51	5.62
28	5.61	5.26	4.89	4.80	4.96	5.17	5.17	5.25	5.49	5.54	5.62	5.59
29	5.53		4.85	4.80	5.00	5.15	5.16	5.25	5.48	5.51	5.71	5.54
30	5.56		4.80	4.81	5.00	5.15	5.19	5.32	5.50	5.59	5.76	5.60
31	5.56		4.79		5.00		5.23	5.38		5.60		5.60

Fairfield County

F-1. C. E. Howdyshe. West Rushville. Lat. 39°46'06", long. 82°26'42". Drilled unused well in sandstone, diameter 4 inches, depth 110 feet. Highest water level 7.44 below lsd, Apr. 4, 1951; lowest 18.80 below lsd, Mar. 6, 1954. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.94	15.50	13.60	10.90	11.62	13.06	14.41	14.99	15.69	16.14	16.50	16.85
2	16.85	15.49	13.47	10.90	11.64	13.13	14.46	15.02	15.60	16.15	16.50	16.84
3	16.85	15.54	13.31	10.95	11.64	13.17	14.49	15.05	15.63	16.15	16.51	16.78
4	16.79	15.54	13.03	11.04	11.64	13.22	14.48	15.09	15.65	16.15	16.51	16.78
5	16.68	15.54	12.82	11.05	11.66	13.25	14.49	15.12	15.69	16.15	16.51	16.78
6	16.56	15.42	12.64	11.06	11.71	13.30	14.50	15.15	15.69	16.15	16.51	16.78
7	16.54	15.33	12.37	11.17	11.72	13.30	14.50	15.15	15.71	16.15	16.52	16.78
8	16.49	15.33	12.13	11.24	11.80	13.30	14.51	15.18	15.73	16.15	16.62	16.78
9	16.40	15.31	11.88	11.32	11.86	13.37	14.51	15.19	15.77	16.16	16.62	16.81
10	16.32	15.26	11.71	11.37	11.86	13.41	14.51	15.21	15.79	16.16	16.62	16.86
11	16.28	15.17	11.55	11.38	11.92	13.43	14.51	15.21	15.78	16.16	16.62	16.88
12	16.23	15.17	11.47	11.42	11.97	13.50	14.57	15.21	15.83	16.16	16.65	16.88
13	16.11	15.17	11.43	11.46	11.97	13.55	14.61	15.22	15.87	16.16	16.70	16.87
14	16.07	15.17	11.43	11.47	12.03	13.60	14.61	15.27	15.87	16.16	16.70	16.87
15	16.01	15.04	11.39	11.55	12.09	13.74	14.61	15.30	15.87	16.16	16.70	16.86
16	15.93	15.00	11.34	11.58	12.15	13.79	14.62	15.30	15.90	16.16	16.67	16.85
17	15.91	14.94	11.35	11.63	12.21	13.84	14.63	15.31	15.93	16.16	16.70	16.85
18	15.89	14.94	11.35	11.63	12.25	13.90	14.63	15.34	15.96	16.16	16.70	16.87
19	15.85	14.89	11.37	11.62	12.30	13.94	14.64	15.38	15.96	16.32	16.70	16.92
20	15.81	14.82	11.37	11.61	12.37	13.99	14.67	15.41	15.98	16.36	16.70	16.92
21	15.80	14.74	11.35	11.61	12.44	14.00	14.67	15.42	16.02	16.38	16.70	16.92
22	15.67	14.64	11.27	11.60	12.48	14.06	14.69	15.40	16.04	16.39	16.70	16.91
23	15.63	14.53	11.28	11.60	12.53	14.11	14.72	15.37	16.04	16.39	16.70	16.87
24	15.63	14.47	11.23	11.60	12.56	14.16	14.73	15.40	16.04	16.38	16.75	16.89
25	15.59	14.31	11.20	11.52	12.64	14.16	14.78	15.42	16.09	16.39	16.75	17.00
26	15.58	14.16	10.98	11.57	12.73	14.21	14.80	15.45	16.12	16.39	16.75	17.03
27	15.55	13.98	10.96	11.57	12.78	14.25	14.81	15.46	16.12	16.39	16.75	17.05
28	15.55	13.80	10.94	11.57	12.80	14.29	14.81	15.48	16.10	16.39	16.74	17.05
29	15.51		10.92	11.57	12.82	14.31	14.81	15.50	16.10	16.39	16.79	17.05
30	15.54		10.90	11.61	12.90	14.34	14.86	15.50	16.12	16.40	16.84	17.05
31	15.54		10.90		12.99		14.89	15.57		16.48		17.05

F-2. Pickerington Creamery Co. Lat. 39°53'25", long. 82°44'50". Drilled unused well in sandstone, diameter 6 inches, depth 190 feet. Highest water level 17.30 below lsd, Apr. 24-25, 1955; lowest 26.40 below lsd, Oct. 26, 1951. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.02	17.86	17.60	17.44	17.38	17.51	17.67	17.76	17.82	17.85	17.79	17.65
2	18.02	17.84	17.62	17.44	17.40	17.52	17.70	.....	17.83	17.86	17.79	17.65
3	18.02	17.87	17.63	17.43	17.40	17.54	17.71	.....	17.84	17.87	17.75	17.62
4	18.02	17.88	17.61	17.44	17.41	17.54	17.68	.....	17.85	17.87	17.76	17.60
5	17.99	17.86	17.54	17.44	17.42	17.55	17.68	.....	17.85	17.87	17.76	17.60

F-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	17.96	17.75	17.54	17.44	17.44	17.57	17.69	.....	17.86	17.83	17.75	17.60
7	17.96	17.74	17.56	17.42	17.44	.....	17.68	17.86	17.87	17.81	17.75	17.60
8	17.96	17.75	17.56	17.42	17.45	.....	17.68	.....	17.89	17.79	17.76	17.60
9	17.96	17.75	17.56	17.43	17.46	.....	17.69	.....	17.90	17.80	17.76	17.61
10	17.95	17.75	17.56	17.42	17.46	.....	17.65	.....	17.90	17.81	17.76	17.61
11	17.95	17.75	17.55	17.42	17.46	.....	17.67	.....	17.88	17.82	17.76	17.61
12	17.95	17.76	17.54	17.41	17.46	.....	17.69	.....	17.85	17.81	17.77	17.61
13	17.93	17.78	17.56	17.41	17.46	.....	17.70	.....	17.86	17.79	17.77	17.61
14	17.93	17.78	17.56	17.39	17.45	17.64	17.71	.....	17.86	17.77	17.77	17.61
15	17.92	17.74	17.54	17.39	17.43	.....	17.71	.....	17.87	17.77	17.76	17.61
16	17.91	17.74	17.55	17.39	17.43	.....	17.73	.....	17.88	17.78	17.74	17.61
17	17.93	17.71	17.54	17.40	17.45	.....	17.76	.....	17.89	17.76	17.67	17.61
18	17.93	17.71	17.54	17.40	17.46	.....	17.77	17.86	17.89	17.74	17.67	17.61
19	17.94	17.71	17.54	17.40	17.46	.....	17.78	17.82	17.89	17.76	17.66	17.61
20	17.94	17.71	17.54	17.39	17.48	.....	17.80	17.84	17.89	17.77	17.63	17.61
21	17.94	17.70	.....	17.39	17.49	.....	17.81	17.85	17.90	17.78	17.63	17.61
22	17.89	17.66	.....	17.37	17.50	.....	17.82	17.69	17.91	17.79	17.63	17.61
23	17.89	17.69	.....	17.37	17.50	17.60	17.82	17.71	17.91	17.79	17.63	17.60
24	17.89	17.69	.....	17.35	17.47	17.58	17.85	17.72	17.86	17.78	17.65	17.60
25	17.89	17.70	.....	17.32	17.46	17.58	17.86	17.74	17.88	17.77	17.65	17.61
26	17.89	17.70	.....	17.34	17.47	17.57	17.87	17.75	17.90	17.77	17.65	17.61
27	17.88	17.69	.....	17.34	17.48	17.60	17.87	17.76	17.85	17.77	17.65	17.61
28	17.88	17.60	.....	17.35	17.48	17.61	17.72	17.77	17.84	17.77	17.63	17.61
29	17.88	.....	.....	17.37	17.46	17.62	17.70	17.77	17.85	17.76	17.65	17.61
30	17.88	.....	.....	17.38	17.48	17.64	17.72	17.79	17.84	17.76	17.65	17.61
31	17.88	.....	17.44	.....	17.49	.....	17.75	17.81	.....	17.78	.....	17.61

Fayette County

Fa-1. Martha Slagle. Near Jasper Mills. Lat. 39°32'09", long. 83°31'50". Drilled unused well in limestone, diameter 5 inches, depth 78 feet. Highest water level 5.23 below lsd, Jan. 28, 1949; lowest 12.85 below lsd, Jan. 17, 19, 1954. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.20	8.15	7.35	6.65	7.10	7.60	8.95	8.30	8.80	9.30	9.45	8.75
2	9.25	8.20	7.25	6.55	7.20	7.60	8.45	8.45	8.85	9.30	9.45	8.65
3	9.20	8.25	7.20	6.60	7.15	7.60	8.30	8.55	8.80	9.30	9.45	8.60
4	9.05	8.25	7.10	6.70	7.15	7.70	7.90	8.60	8.85	9.35	9.45	8.50
5	8.95	8.20	7.00	6.65	7.15	8.20	7.90	8.65	8.95	9.30	9.40	8.60
6	8.95	8.10	6.95	6.65	7.25	7.80	7.95	8.45	8.90	9.25	9.35	8.55
7	8.90	8.05	6.90	6.70	7.45	7.55	7.95	8.40	8.05	9.15	9.50	8.55
8	8.85	8.10	6.85	6.75	7.25	7.50	7.95	9.00	9.05	9.25	9.45	8.45
9	8.75	8.00	6.90	6.85	7.65	7.55	8.05	8.75	9.10	9.35	9.45	8.45
10	8.70	8.00	6.80	6.80	7.20	7.55	7.95	8.45	9.20	9.40	9.30	8.45
11	8.60	8.00	6.75	6.75	7.20	7.20	7.95	7.95	9.10	9.10	9.35	9.35
12	8.55	8.05	6.70	6.85	7.25	7.55	7.90	8.40	9.15	9.40	9.40	8.45
13	8.50	8.05	6.80	6.85	7.10	7.60	8.00	8.45	9.10	9.30	9.45	8.40
14	8.55	7.95	6.80	6.80	7.15	7.60	8.25	8.50	9.20	9.25	9.40	8.40
15	8.40	7.95	6.70	6.90	7.15	7.70	8.45	8.80	9.20	9.30	9.35	8.35
16	8.40	7.90	6.70	6.95	7.25	7.65	8.20	8.70	9.25	9.35	9.30	8.35
17	8.40	7.95	6.75	6.95	7.25	7.70	8.30	8.85	9.60	9.20	9.35	8.35
18	8.45	7.95	6.70	7.05	7.35	7.85	8.35	9.30	9.40	9.25	9.35	8.40
19	8.45	7.90	6.75	7.00	7.30	7.80	8.10	9.15	9.30	9.30	9.25	8.40
20	8.45	7.85	6.75	7.00	7.70	7.80	8.05	8.90	9.35	9.35	9.20	8.40
21	8.30	7.85	6.60	7.05	7.45	7.75	8.15	8.90	9.45	9.35	9.20	8.35
22	8.30	7.75	6.60	7.00	7.40	7.75	8.20	8.80	9.45	9.35	9.05	8.25
23	8.30	7.70	6.65	7.00	7.40	7.75	8.15	8.65	9.50	9.35	9.05	8.30
24	8.20	7.65	6.65	6.90	7.35	7.80	8.20	8.65	10.90	9.35	9.10	8.25
25	8.25	7.65	6.55	6.90	7.40	7.75	8.75	8.70	10.90	9.45	9.00	8.45
26	8.25	8.00	6.55	6.95	7.40	7.80	8.70	8.90	9.55	9.35	9.00	8.40
27	8.25	7.50	6.65	7.00	7.45	7.95	8.50	8.85	9.40	9.40	8.85	8.45
28	8.15	7.35	6.60	7.00	7.40	7.95	8.40	8.75	9.30	9.45	8.80	8.40
29	8.20	.....	6.60	7.05	7.40	7.85	8.15	8.75	9.30	9.35	8.80	8.40
30	8.30	.....	6.65	7.10	7.40	8.00	8.20	8.80	9.25	9.40	8.80	8.35
31	8.25	.....	6.65	.....	7.60	.....	8.25	8.80	.....	9.45	.....	8.30

Franklin County

Fr-10. State of Ohio. Lat. 40°01'00", long. 83°02'18". Drilled unused well in gravel, diameter 4 inches, depth 75 feet. Highest water level 37.75 below lsd, Apr. 14, 1951; lowest 48.20 below lsd, Oct. 7, 1954. Records available: 1944-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	47.35	46.70	45.95	45.45	45.95	46.55	47.05	47.60	48.00	47.80	47.65
2	.....	47.60	46.85	45.75	45.55	46.00	46.60	47.05	47.60	48.00	47.80	47.45
3	47.70	47.75	46.80	45.80	45.50	46.00	46.65	47.05	47.55	48.00	47.90	47.45
4	.....	47.75	46.55	45.90	45.50	46.00	46.55	47.15	47.55	47.95	47.90	47.45
5	.....	47.60	46.60	45.80	45.50	45.95	46.60	47.20	47.55	47.95	47.90	47.45
6	47.65	47.45	46.60	45.70	45.55	46.00	46.60	47.20	47.55	47.90	47.75	47.40
7	47.65	47.40	46.65	45.75	45.45	45.95	46.55	47.15	47.65	47.95	47.85	47.25
8	47.80	47.40	46.65	45.85	45.55	45.90	46.60	47.20	47.70	47.95	47.85	47.25
9	47.50	47.35	46.45	45.85	45.60	45.95	46.60	47.20	47.65	48.00	47.85	47.40
10	47.55	47.25	46.40	45.80	45.50	45.95	46.60	47.20	47.75	47.95	47.65	47.50
11	47.50	47.30	46.40	45.65	45.50	45.90	46.60	47.20	47.75	47.90	47.70	47.45
12	47.50	47.55	46.40	45.60	45.50	45.95	46.60	47.15	47.80	47.80	47.80	47.45
13	47.50	47.60	46.55	45.55	45.40	46.00	46.65	47.15	47.85	47.80	47.80	47.40
14	47.50	47.45	46.55	45.50	45.40	46.10	46.60	47.20	47.85	47.80	47.80	47.35
15	47.40	47.25	46.35	45.60	45.55	46.15	46.60	47.25	47.80	47.80	47.75	47.30
16	47.40	47.25	46.45	45.60	45.50	46.25	46.65	47.25	47.90	47.80	47.75	47.30
17	47.55	47.35	46.50	45.65	45.55	46.35	46.70	47.25	47.90	47.65	47.90	47.20
18	47.55	47.35	46.35	45.65	45.80	46.35	46.75	47.35	47.90	47.80	47.90	47.30
19	47.60	47.25	46.35	45.55	45.65	46.35	46.85	47.40	47.80	47.90	47.80	47.45
20	47.60	47.20	46.35	45.55	45.70	46.35	46.85	47.40	47.85	.....	47.85	47.45
21	47.55	47.20	46.05	45.55	45.75	46.35	46.80	47.40	47.90	.....	47.70	47.35
22	47.40	47.10	46.05	45.45	45.70	46.30	46.75	47.35	47.90	.....	47.65	47.15
23	47.40	47.25	45.15	45.45	45.75	46.35	46.75	47.35	47.85	.....	47.70	47.05
24	47.40	47.25	46.15	45.40	45.70	46.35	46.75	47.35	47.90	.....	47.80	47.10
25	47.45	47.20	46.15	45.40	45.80	46.30	46.85	47.40	48.00	.....	47.70	47.30
26	47.50	47.10	46.00	45.50	45.85	46.30	46.95	47.45	48.05	47.80	47.60	47.35
27	47.60	46.90	46.10	45.50	45.90	46.40	47.00	47.45	47.90	47.85	47.45	47.40
28	47.55	46.80	46.10	45.50	45.90	46.45	47.00	47.45	47.90	47.85	47.40	47.40
29	47.50	.....	46.05	45.50	45.80	46.45	46.95	47.40	47.90	47.70	47.60	47.30
30	47.55	.....	46.10	45.60	45.85	46.45	46.95	47.45	47.90	47.70	47.65	47.30
31	47.55	.....	46.00	.....	45.90	.....	47.00	47.55	.....	47.80	.....	47.20

Fr-11. City of Columbus. Nelson Park. Lat. 39°58'30", long. 82°56'42". Drilled unused well in gravel, diameter 6 inches, depth 85 feet. Highest water level 0.20 above lsd, Feb. 14, 1950; lowest 32.40 below lsd, Sept. 10, 1955. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.40	25.10	23.50	22.10	27.20	27.60	29.75	31.50	31.75	31.55	30.50	31.35
2	22.45	25.70	23.90	22.20	25.40	28.50	30.10	31.60	31.70	31.50	30.45	32.05
3	25.15	25.65	23.05	21.95	26.10	29.00	30.10	31.80	31.65	30.50	31.00	31.80
4	25.55	25.65	23.85	22.80	26.70	29.45	28.80	31.90	31.60	31.40	31.45	31.60
5	25.80	23.35	21.30	22.80	26.90	29.15	28.35	32.00	31.70	30.55	31.40	31.80
6	26.05	22.45	20.00	22.40	27.05	29.20	29.15	32.00	31.90	30.60	31.10	31.65
7	26.20	24.85	22.85	22.40	27.80	28.10	28.55	31.70	31.85	30.65	31.35	31.65
8	25.00	24.60	22.75	22.30	27.80	28.40	28.60	31.90	32.10	31.45	31.40	31.75
9	25.00	24.90	23.20	22.35	25.80	28.05	30.10	31.55	32.20	31.10	31.35	31.90
10	25.50	24.75	22.95	21.40	25.20	27.95	28.75	31.85	32.40	30.35	31.30	32.00
11	25.70	25.20	23.35	21.40	26.10	27.80	29.40	31.50	32.00	30.40	31.40	31.60
12	26.00	23.10	20.85	21.50	25.60	27.80	29.55	31.45	32.10	30.40	31.50	31.80
13	26.75	22.20	21.85	22.10	27.30	27.30	29.65	31.40	31.95	30.50	31.15	31.90
14	26.75	24.10	23.15	24.00	28.40	27.65	30.50	31.15	31.90	31.40	31.45	31.95
15	23.70	24.20	22.50	25.00	28.60	28.15	29.15	31.20	31.95	31.35	31.40	31.95
16	23.30	24.60	23.15	25.85	26.80	28.15	30.60	31.40	31.95	31.15	31.60	31.95
17	26.10	24.60	22.85	26.25	26.60	27.90	29.15	31.35	32.30	30.50	31.45	31.90
18	26.00	24.75	23.20	24.00	28.10	28.95	29.45	31.80	32.00	30.60	31.30	31.80
19	26.15	22.40	20.80	23.60	28.35	28.90	30.60	31.90	32.30	30.65	31.50	31.80
20	26.35	21.30	19.65	23.65	28.40	29.50	29.70	31.95	32.25	31.45	31.25	32.05
21	26.20	23.95	22.30	23.30	28.40	29.50	30.70	32.05	32.20	31.55	31.35	31.95
22	24.20	23.85	22.10	24.30	26.95	28.50	30.90	31.50	32.15	31.30	31.40	32.20
23	23.20	24.30	22.40	25.90	26.85	28.15	31.10	31.40	32.20	31.05	31.65	32.05
24	25.60	24.10	22.65	26.30	27.80	28.20	31.10	31.60	32.20	30.50	31.25	32.15
25	26.00	24.30	22.30	24.90	27.80	28.20	31.20	31.40	31.80	30.40	31.20	28.80

Fr-11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	26.25	22.00	22.30	24.05	27.50	28.35	31.20	31.30	31.90	30.50	31.10	27.70
27	26.90	20.70	19.35	24.20	27.75	28.50	31.50	31.55	31.75	30.50	30.95	31.30
28	26.30	23.35	21.65	25.95	28.60	28.90	30.00	31.40	31.65	31.20	31.10	31.10
29	26.30		21.80	26.00	26.70	28.90	31.15	31.80	31.55	31.40	31.35	31.30
30	23.40		22.10	27.00	27.15	29.75	31.20	32.00	31.65	31.15	31.40	31.55
31	25.20		22.15		27.30		31.30	31.80		31.15		31.55

Fulton County

Fn-1. City of Delta. Lat. 41°35'05", long. 84°00'12". Drilled unused well in gravel, diameter 8 inches, depth 130 feet. Highest water level 61.83 below lsd, Oct. 18, 1946; lowest 66.10 below lsd, Jan. 8, 1947. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	63.81	63.68	63.58	63.84	64.00	64.01	63.85	64.12	64.12	64.37	63.85	64.40
2	64.06	64.15	63.90	63.67	63.92	64.07	63.95	64.10	64.16	64.41	63.85	64.08
3	64.09	64.53	63.90	63.76	63.83	64.01	64.05	64.05	64.11	64.43	64.06	63.90
4	63.90	64.58	63.62	63.93	63.72	63.88	64.06	64.07	64.05	64.21	64.16	63.79
5	63.84	64.25	63.77	63.93	63.63	63.67	64.00	64.12	64.04	64.05	64.13	63.99
6	63.87	63.80	63.72	63.60	63.77	63.61	63.86	64.09	64.04	63.80	63.81	64.00
7	64.02	63.85	63.85	63.72	63.63	63.52	63.81	63.97	64.09	63.83	63.93	63.85
8	63.87	63.85	63.84	63.87	63.87	63.43	63.78	64.14	64.15	64.20	63.95	63.75
9	63.70	63.70	63.48	63.93	63.98	63.59	63.86	64.10	64.11	64.25	63.95	64.08
10	63.85	.....	63.47	63.90	63.90	63.64	64.00	64.03	64.00	63.18	63.62	64.25
11	63.90	63.70	63.50	63.84	63.95	63.55	64.08	64.06	64.14	64.11	63.43	63.26
12	63.80	64.20	63.51	63.64	63.97	63.40	64.20	64.03	64.27	63.95	63.82	64.30
13	63.78	64.37	63.93	63.63	63.84	63.61	64.16	64.00	64.34	64.74	63.88	64.26
14	63.81	64.22	63.97	63.92	63.76	64.04	63.95	64.19	63.72	63.99	64.08	
15	63.55	63.83	63.78	63.74	64.01	63.94	63.86	64.06	64.05	63.66	63.94	64.02
16	63.60	63.76	63.76	63.76	64.00	63.97	63.79	64.03	64.13	63.67	63.68	64.05
17	63.81	64.10	64.04	63.86	63.95	64.00	63.90	63.96	64.20	63.44	64.16	63.88
18	64.05	64.13	63.86	63.89	63.91	64.03	64.00	63.93	64.20	63.72	64.26	64.11
19	64.00	64.01	63.85	63.63	63.74	63.92	64.12	64.01	64.05	64.02	64.13	64.08
20	64.25	63.84	63.85	63.62	63.70	63.81	64.16	63.96	63.98	64.08	64.17	64.45
21	64.12	63.91	63.76	63.54	63.82	63.78	64.08	63.90	64.06	64.25	63.98	64.32
22	63.43	63.91	63.27	63.45	63.75	63.77	64.00	63.93	64.06	64.33	63.95	64.08
23	63.65	64.13	63.46	63.40	63.56	63.82	63.91	64.07	64.05	64.13	64.01	63.65
24	63.66	64.16	63.70	63.36	63.54	63.87	63.87	64.13	64.16	64.03	64.30	63.62
25	63.70	64.25	63.70	63.47	63.67	63.86	63.96	64.12	64.43	64.04	64.26	64.15
26	63.85	64.09	63.60	63.67	63.81	63.97	64.00	64.10	64.45	63.82	64.08	64.32
27	64.03	63.84	63.86	63.75	63.72	64.09	64.00	64.00	64.30	63.87	63.84	64.43
28	63.96	63.69	63.88	63.76	63.64	64.18	64.07	64.00	64.10	63.78	63.71	64.40
29	63.80		63.95	63.90	63.51	64.09	64.07	63.91	64.10	63.52	64.05	64.20
30	64.05		64.02	64.06	63.73	63.93	64.03	63.75	64.10	63.54	64.38	64.28
31	64.08		63.94		63.90		64.13	64.02		63.83		64.11

Greene County

Gr-1. City of Xenia. Lat.. 39°44'30", long. 83°56'12". Drilled unused well in gravel, diameter 30 inches, depth 77 feet. Highest water level 2.00 below lsd, Mar. 22, 1955; lowest 13.85 below lsd, Sept. 4, 1953. Records available: 1944-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.75	10.00	6.70	6.65	7.95	8.20	9.15	7.55	8.05	7.70	7.60	6.45
2	6.75	9.40	6.75	6.70	8.20	6.30	9.15	7.80	8.00	7.75	7.55	6.50
3	6.85	9.65	7.20	6.60	8.30	8.60	9.00	8.00	8.00	7.90	7.45	6.50
4	7.30	9.25	7.00	7.15	8.40	8.80	8.80	8.00	8.00	7.80	7.25	6.35
5	7.40	9.40	5.80	7.00	8.40	8.70	9.20	8.05	8.10	7.80	7.20	6.25
6	7.15	9.85	5.60	7.10	8.30	9.10	9.25	8.15	8.20	7.80	7.20	6.35
7	7.35	8.10	6.35	6.90	8.00	8.60	9.25	8.00	8.10	7.80	7.30	6.40
8	7.70	9.70	6.80	7.05	7.90	8.35	9.10	8.10	8.10	7.50	7.50	6.50
9	7.60	9.75	6.65	....	8.00	8.35	8.90	8.15	8.15	7.25	7.45	6.60
10	7.90	6.70	6.75	....	6.05	8.30	8.25	8.15	8.20	7.30	7.50	6.65

Gr-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	8.00	6.95	6.80	....	7.85	8.10	8.40	8.00	8.10	7.35	7.55	6.65
12	8.10	7.55	6.85	....	8.00	8.00	8.35	7.75	8.00	7.40	7.55	6.70
13	8.25	8.00	6.90	7.10	8.00	8.15	8.35	8.70	7.95	7.40	7.55	6.70
14	8.40	8.10	7.00	7.30	8.00	8.15	9.00	8.75	8.00	7.45	7.50	6.75
15	8.40	8.40	6.95	7.35	7.95	8.25	8.85	8.00	8.05	7.45	7.50	6.80
16	8.35	8.40	7.10	7.50	8.65	8.35	8.75	8.15	8.05	7.45	7.35	6.90
17	8.60	7.85	7.35	7.50	8.60	8.40	8.60	8.25	8.25	7.50	5.00	6.85
18	9.05	8.00	7.35	7.80	8.40	8.75	8.95	8.30	8.15	7.40	5.45	6.90
19	8.65	8.10	7.40	7.50	8.40	8.50	9.00	8.35	8.30	7.45	5.70	6.95
20	8.95	8.20	7.40	7.45	8.30	8.90	9.00	8.45	8.30	7.50	5.80	7.00
21	9.20	8.10	7.20	7.35	8.80	8.75	9.25	8.40	8.35	7.70	6.00	7.00
22	9.25	7.10	5.40	7.40	8.30	8.50	8.85	7.90	8.25	7.60	6.00	7.00
23	9.25	6.60	5.25	7.35	8.20	8.30	7.75	7.85	8.10	7.55	5.95	6.95
24	9.65	6.75	5.65	7.35	8.35	8.25	7.55	7.90	8.00	7.60	5.85	7.05
25	9.30	7.50	6.05	7.30	8.30	8.10	7.50	7.90	7.95	7.70	5.90	7.05
26	9.35	7.20	6.15	7.40	8.30	7.90	7.50	7.90	7.90	7.60	6.00	7.00
27	9.30	7.25	6.45	7.40	8.70	8.20	7.55	7.95	7.90	7.60	6.05	7.05
28	9.40	6.70	6.50	7.50	8.30	8.30	7.55	8.00	7.90	7.65	6.20	7.25
29	9.10		6.55	8.00	8.05	8.30	7.40	8.15	7.90	7.60	6.35	7.15
30	9.65		6.50	8.20	8.05	8.95	7.40	8.05	7.80	7.60	6.40	7.15
31	10.25		6.50		8.20		7.50	8.05		7.60		7.15

Hamilton County

H-1. R. Weber. Lat. 39°12', long. 84°47'. Drilled test well in gravel, diameter 6 inches, depth 124 feet. Highest water level 13.15 below lsd, Feb. 15, 1950; lowest 25.30 below lsd, Dec. 21-28, 1954. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.55	24.10	20.40	19.70	20.20	20.95	21.50	22.25	23.30	22.40	22.15	20.60
2	24.55	24.10	20.30	19.75	20.25	21.00	21.60	22.30	23.30	22.55	22.15	20.60
3	24.45	23.90	20.40	19.85	20.25	21.05	21.65	22.35	23.35	22.65	21.70	20.50
4	24.40	23.90	20.35	19.90	20.30	21.15	21.65	22.40	23.35	22.65	21.20	20.35
5	24.20	23.90	19.50	19.95	20.35	21.20	21.70	22.45	23.40	22.70	21.35	20.40
6	23.80	23.75	19.35	20.00	20.40	21.20	21.75	22.45	23.45	22.70	21.45	20.50
7	23.45	23.10	19.35	20.05	20.45	21.20	21.75	22.50	23.45	22.10	21.50	20.55
8	23.60	23.15	19.15	20.10	20.50	20.95	21.35	22.55	23.50	21.60	21.55	20.60
9	23.65	23.20	18.55	20.15	20.55	20.90	21.35	22.55	23.50	21.80	21.60	20.65
10	23.70	23.20	18.05	20.20	20.60	20.90	21.20	22.60	23.55	21.85	21.60	20.75
11	23.70	22.60	18.40	20.20	20.65	20.75	21.35	22.65	23.55	21.90	21.65	20.80
12	23.70	22.75	19.10	20.15	20.70	20.75	21.45	22.70	23.60	21.95	21.65	20.80
13	23.75	22.85	19.75	19.80	20.70	20.75	21.55	22.75	23.60	21.95	21.70	20.85
14	23.75	22.85	20.00	19.40	20.65	20.80	21.65	22.75	23.60	21.95	21.70	20.90
15	23.75	22.90	20.00	19.55	20.60	20.80	21.70	22.80	23.60	21.95	21.30	20.90
16	23.75	22.90	20.05	19.65	20.70	20.85	21.70	22.80	23.65	21.95	20.75	20.95
17	23.75	22.50	20.20	19.80	20.75	20.90	21.65	22.85	23.65	21.95	18.50	20.95
18	23.80	22.35	20.25	19.85	20.85	20.95	21.65	22.90	23.70	21.90	19.50	21.00
19	23.80	22.40	20.35	19.95	20.90	21.00	21.65	22.90	23.70	21.85	19.90	21.05
20	23.85	22.45	20.35	19.95	20.95	21.10	21.60	22.95	23.75	21.85	20.05	21.05
21	23.85	22.35	19.55	19.90	21.00	21.10	21.70	23.00	23.75	21.90	20.15	21.10
22	23.90	21.00	18.40	19.90	21.00	21.15	21.80	23.00	23.75	21.90	20.15	21.10
23	23.90	21.30	18.80	19.95	21.00	21.20	21.85	23.00	23.30	21.90	20.15	21.15
24	23.95	21.50	19.15	19.95	20.95	21.20	21.85	23.00	23.25	21.95	19.80	21.15
25	23.95	21.55	19.35	19.90	20.95	21.25	21.85	23.05	22.95	21.95	20.05	21.15
26	24.00	21.60	19.45	19.85	21.00	21.25	21.95	23.10	23.05	22.00	20.20	21.15
27	24.05	21.40	19.60	19.95	21.10	21.30	22.00	23.10	23.10	22.00	20.30	21.20
28	24.05	20.40	19.60	20.00	21.10	21.35	22.00	23.15	23.15	22.05	20.40	21.25
29	24.05		19.60	20.10	20.65	21.40	21.90	23.20	23.15	22.05	20.50	21.30
30	24.00		19.55	20.15	20.80	20.45	22.05	23.20	23.15	22.05	20.55	21.30
31	24.05		19.60		20.90		22.15	23.25		22.15		21.35

H-2. Leo Willheim. Lat. 39°18', long. 84°39'. Drilled unused well in gravel, diameter 7 inches, depth 89 feet. Highest water level 13.50 below lsd, Mar. 24-25, 1955; lowest 21.75 below lsd, Feb. 5-6, 1955. Records available: 1952-55.

H-2--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.55	21.50	16.95	14.75	17.15	17.95	18.40	17.35	18.90	18.95	18.45	16.05
2	20.30	21.55	16.65	14.75	17.15	18.00	18.40	17.50	19.00	18.95	18.45	16.35
3	20.10	21.60	16.40	14.75	17.15	18.00	18.40	17.60	19.05	18.80	18.45	16.40
4	20.00	21.70	16.15	14.80	17.15	17.95	18.40	17.75	19.10	18.60	18.45	16.40
5	20.00	21.75	15.90	15.00	17.15	17.95	18.30	17.85	19.10	18.50	18.35	16.40
6	20.00	21.75	15.40	15.20	17.20	17.80	18.25	17.90	19.10	18.50	18.25	16.50
7	19.95	21.45	14.95	15.40	17.25	17.90	18.30	17.90	19.00	18.50	18.30	16.70
8	19.75	21.05	14.80	15.50	17.25	18.00	18.40	17.85	19.00	18.35	18.30	16.90
9	19.45	20.95	14.75	15.50	17.25	18.05	18.40	18.00	19.10	18.15	18.30	17.10
10	19.25	20.95	14.85	15.50	17.20	18.10	18.30	18.10	19.15	18.00	18.30	17.25
11	19.25	20.90	15.10	15.50	17.25	18.10	17.90	18.15	19.15	17.85	18.55	17.25
12	19.40	20.80	15.15	15.70	17.25	17.95	17.45	18.25	19.10	17.80	18.75	17.25
13	19.60	20.70	15.15	15.85	17.30	17.75	17.30	18.25	19.00	17.85	18.85	17.40
14	19.75	20.60	14.85	16.00	17.35	17.65	17.40	18.25	18.90	17.95	18.80	17.55
15	19.90	20.65	15.15	16.10	17.35	17.75	17.45	18.20	18.90	18.05	18.85	17.75
16	19.90	20.80	15.50	16.15	17.35	17.80	17.40	18.30	19.00	18.05	18.85	17.85
17	19.95	20.85	15.80	16.05	17.35	17.95	17.30	18.35	19.10	17.95	18.40	17.90
18	20.10	20.85	16.00	15.90	17.50	18.00	17.20	18.45	19.10	17.90	16.50	17.90
19	20.25	20.80	16.05	15.85	17.60	18.00	17.10	18.55	19.05	17.90	14.85	17.85
20	20.45	20.75	16.05	16.05	17.70	18.05	17.15	18.60	19.10	17.85	14.40	17.95
21	20.65	20.70	15.90	16.20	17.75	18.15	17.35	18.60	19.15	17.85	14.55	18.05
22	20.80	20.45	15.45	16.40	17.75	18.30	17.45	18.60	19.15	17.90	14.80	18.15
23	20.80	19.75	14.60	16.65	17.70	18.40	17.45	18.55	19.00	17.90	15.05	18.15
24	20.85	18.75	13.70	16.70	17.75	18.45	17.45	18.65	19.00	17.85	15.05	18.15
25	20.95	18.25	13.60	16.70	17.85	18.45	17.35	18.70	19.00	17.95	14.85	18.10
26	21.05	17.85	13.65	16.75	17.90	18.40	17.25	18.75	18.90	18.00	14.85	18.00
27	21.20	17.65	13.70	16.85	17.95	18.25	17.30	18.75	18.80	18.05	14.90	17.85
28	21.35	17.30	13.80	16.90	18.00	18.20	17.30	18.70	18.85	18.15	15.10	17.75
29	21.40		14.15	17.05	17.95	18.20	17.35	18.60	18.95	18.35	15.45	17.75
30	21.40		14.35	17.10	17.85	18.30	17.35	18.70	18.90	18.40	15.80	17.80
31	21.45		14.55		17.90		17.30	18.80		18.40		17.80

H-3. Village of Indian Hill. Lat. 39°11', long. 84°17'. Drilled unused well in gravel, diameter 4 inches, depth 60 feet. Highest water level 17.30 below lsd, Mar. 23, 1955; lowest 35.75 below lsd, Aug. 29, 1955. Records available: 1952-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.95	27.60	21.00	23.15	27.45	.....	33.20	33.30	34.70	32.85	31.70	.....
2	26.90	27.25	20.80	23.35	26.40	.....	33.50	34.25	35.20	31.25	31.55	.....
3	25.40	26.80	22.50	23.65	25.70	.....	33.90	34.60	35.45	31.80	31.25	.....
4	25.15	26.05	21.55	24.55	25.95	.....	33.40	35.10	35.65	30.50	31.10	.....
5	24.60	26.30	20.75	24.55	26.05	.....	33.60	35.25	35.65	.....	31.20	.....
6	24.05	25.60	21.30	25.15	26.05	.....	33.60	35.40	34.40	.....	30.90	29.50
7	23.70	23.40	22.00	25.20	26.20	.....	32.50	35.15	34.25	.....	31.60	29.70
8	24.15	23.30	23.00	25.35	26.00	.....	32.15	34.75	34.25	.....	31.40	30.15
9	24.30	23.95	23.45	25.15	27.00	.....	32.75	34.75	34.80	.....	31.80	30.00
10	26.10	23.00	24.20	29.15	27.75	.....	31.10	34.60	34.95	.....	31.75	30.50
11	25.85	23.75	24.05	28.05	27.50	.....	30.05	33.90	33.95	29.60	32.10	30.60
12	26.30	23.40	23.25	25.25	25.70	.....	30.60	33.30	34.25	29.95	.....	31.25
13	26.50	24.35	24.20	24.05	25.30	.....	31.25	32.80	33.85	30.30	.....	31.45
14	26.55	25.00	24.50	24.75	26.95	.....	30.75	33.15	34.90	30.55	.....	31.50
15	25.75	24.75	24.70	24.55	27.65	.....	30.80	33.80	35.40	30.70	.....	31.55
16	27.35	24.65	23.00	25.45	27.60	.....	31.10	34.10	35.50	30.85	.....	31.75
17	25.50	23.40	24.55	25.95	27.50	.....	31.50	34.95	35.50	31.05	.....	31.90
18	26.10	23.65	23.30	26.05	27.65	.....	31.70	35.55	35.10	31.30	.....	32.10
19	26.15	24.25	24.95	25.25	27.95	.....	31.10	35.60	35.40	31.45	.....	32.40
20	26.45	24.10	24.30	24.60	28.55	.....	32.25	35.25	35.40	31.30	.....	32.25
21	25.55	22.70	26.50	24.45	29.00	.....	32.20	35.15	34.90	31.45	.....	32.50
22	25.65	20.60	20.00	24.50	28.10	30.20	32.70	33.75	34.40	31.80	.....	32.50
23	27.50	22.00	19.20	24.55	27.80	30.30	33.20	33.65	33.70	31.80	.....	32.85
24	27.20	21.40	20.45	25.80	.....	30.90	33.30	33.80	33.95	32.00	.....	33.60
25	26.25	23.30	21.15	24.20	.....	30.90	32.80	33.80	33.85	31.85	.....	33.05

H-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	27.40	23.30	21.70	24.95	.....	29.85	32.80	34.60	32.80	32.10	.....	33.00
27	26.90	21.25	22.05	24.70	.....	30.20	33.80	35.20	33.05	32.20	.....	33.75
28	26.15	20.50	22.65	25.30	.....	31.35	33.50	35.25	32.45	31.50	.....	33.00
29	26.35	.....	22.80	24.70	.....	31.50	32.30	35.75	31.80	31.95	.....	32.90
30	27.10	.....	22.80	26.80	.....	32.50	31.20	35.45	32.50	31.60	.....	32.50
31	27.95	.....	23.30	.....	.....	.....	32.20	34.75	.....	32.00	.....	32.80

207-3. Village of Glendale. Mosteller and Sharon Rds. Lat. 39°16', long. 84°25'.
 Drilled unused well in gravel, diameter 8 inches, depth 167 feet. Highest water level 13.35
 below lsd, Apr. 29, 1939; lowest 77.65 below lsd, Dec. 31, 1954. Records available: 1938-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	74.40	72.85	.....	.....	.....	69.10	.....	.....	67.85	69.10
2	74.00	71.20	.....	.....	.....	69.30	.....	.....	69.75	68.05
3	75.45	70.40	.....	.....	.....	70.60	.....	.....	70.20	66.25
4	75.75	71.20	.....	69.50	.....	70.90	.....	.....	70.15	65.20
5	74.20	71.40	.....	68.60	.....	71.10	.....	.....	68.10	66.15
6	72.95	.....	.....	69.85	.....	.....	.....	.....	66.65	66.30
7	73.75	72.50	.....	70.00	.....	.....	.....	.....	67.25	67.35
8	73.85	.....	.....	69.00	.....	.....	.....	.....	67.80	68.15
9	74.15	71.00	66.05	70.00	68.70	.....	.....	.....	69.70	68.15
10	74.55	.....	70.10	70.25	68.00	71.80	.....	.....	69.15	66.75
11	74.55	.....	70.55	.....	68.85	71.20	.....	.....	71.55	65.40
12	73.35	.....	70.85	67.55	69.35	71.20	.....	72.75	68.05	65.90
13	72.60	.....	70.25	69.30	68.90	70.50	.....	.....	67.15	66.65
14	72.95	.....	70.40	69.50	70.05	69.20	.....	.....	67.90	67.10
15	72.55	.....	69.15	68.40	69.95	69.80	72.25	.....	69.25	68.35
16	72.95	.....	69.30	70.20	69.00	70.30	.....	.....	69.60	68.20
17	74.65	.....	69.80	70.65	68.10	.....	.....	.....	69.50	66.90
18	74.05	.....	70.05	69.30	68.50	.....	.....	.....	69.30	65.20
19	72.85	.....	70.35	68.00	68.95	.....	.....	.....	67.70	66.40
20	71.50	.....	70.95	69.00	70.15	.....	.....	.....	66.40	66.05
21	72.40	.....	70.20	69.85	70.70	.....	.....	70.60	67.15	67.10
22	72.20	.....	68.70	69.25	70.80	.....	.....	69.30	67.25	67.60
23	76.20	72.30	.....	70.10	70.45	70.90	.....	.....	67.60	70.55	67.75
24	76.50	73.20	.....	71.05	70.50	68.50	.....	.....	68.40	68.20	66.60
25	73.35	.....	.....	68.05	68.20	.....	.....	68.40	69.45	65.40
26	74.25	72.00	.....	.....	67.45	69.00	.....	.....	70.85	67.65	65.00
27	72.90	71.00	.....	.....	68.70	71.10	.....	.....	70.85	65.85	66.70
28	73.80	71.50	.....	.....	68.55	.....	.....	.....	70.70	67.35	68.05
29	71.50	.....	71.90	.....	.....	.....	.....	70.15	67.50	67.90
30	71.65	.....	.....	.....	69.85	.....	.....	67.50	68.00	.....
31	72.20	.....	.....	.....	69.30	.....	.....	69.50	.....	70.00

216-E. Electric Auto-Lite Co. Jimson Rd., Lockland. Lat. 39°14'56", long. 84°26'20".
 Drilled unused well in gravel, diameter 6 inches, depth 180 feet. Highest water level 42.93 be-
 low lsd, Apr. 9, 1941; lowest 87.30 below lsd, Nov. 4-5, 1955. Records available: 1941-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.40	85.45	85.80	86.25	.....	86.50	86.25	86.35	86.65	86.85	86.55	86.75
2	85.65	85.85	86.10	86.15	86.40	86.45	86.30	86.35	86.65	86.90	86.35	86.40
3	85.65	86.30	86.05	86.15	86.30	86.35	86.40	86.25	86.55	86.85	87.05	86.10
4	85.50	86.35	85.75	86.30	86.25	86.25	86.35	86.25	86.50	86.65	87.30	86.15
5	85.30	85.95	86.00	86.30	86.20	86.05	86.30	86.30	86.50	86.55	87.30	86.30
6	85.45	85.50	86.05	86.20	86.25	86.00	86.15	86.25	86.45	86.40	87.00	86.30
7	85.70	85.65	86.25	.....	.....	85.95	86.15	86.15	86.45	86.55	86.90	86.05
8	85.65	85.65	86.20	.....	.....	86.00	86.20	86.20	86.55	86.85	86.95	86.05
9	85.35	85.65	85.95	.....	86.50	86.20	86.30	86.20	86.55	86.95	86.95	86.35
10	85.50	85.55	85.90	.....	86.40	86.20	86.35	86.25	86.60	86.80	86.60	86.55
11	85.55	85.95	85.90	.....	86.40	86.05	86.40	86.20	86.60	86.65	86.40	86.55
12	85.55	86.40	86.10	.....	86.40	86.25	86.45	86.20	86.75	86.45	86.65	86.50
13	85.60	86.45	86.40	.....	86.25	86.40	86.50	86.20	86.75	86.35	86.75	86.35
14	85.65	.....	86.40	.....	86.25	86.45	86.45	86.35	86.60	86.30	86.70	86.20
15	85.45	.....	86.10	.....	86.30	86.55	86.25	86.45	86.50	86.40	86.70	86.15

216-E--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	85.50	.....	86.35	.....	86.25	86.50	86.25	86.35	86.55	86.45	86.55	86.15
17	85.75	.....	.....	.....	86.20	86.50	86.40	86.20	86.65	86.30	87.00	85.90
18	85.80	.....	.....	86.55	86.25	86.45	86.45	86.25	86.65	86.60	87.05	86.10
19	85.80	.....	.....	.....	86.15	86.35	86.55	86.40	86.50	86.95	86.75	86.40
20	85.90	.....	.....	.....	86.15	86.20	86.55	86.40	86.30	87.00	86.80	86.40
21	85.70	86.25	.....	.....	86.20	86.25	86.50	86.40	86.45	86.95	86.55	86.20
22	85.40	.....	86.55	.....	86.15	86.20	86.40	86.35	86.60	87.00	86.40	85.90
23	85.55	.....	.....	.....	86.15	86.25	86.35	86.45	86.55	86.80	86.55	85.55
24	85.55	.....	.....	.....	86.10	86.25	86.25	86.55	86.70	86.70	86.80	85.70
25	85.75	.....	.....	.....	86.20	86.25	86.35	86.55	86.90	86.75	86.75	86.20
26	85.80	.....	.....	.....	86.30	86.35	86.45	86.60	86.90	86.45	86.50	86.35
27	85.90	.....	.....	.....	86.30	86.45	86.45	86.50	86.75	86.50	86.25	86.35
28	85.75	.....	.....	.....	86.25	86.50	86.40	86.45	86.60	86.50	86.25	86.30
29	85.70	.....	.....	.....	86.15	86.45	86.35	86.40	86.60	86.25	86.60	86.05
30	85.90	.....	.....	.....	86.30	86.30	86.35	86.35	86.65	86.40	86.75	86.10
31	85.90	.....	.....	.....	86.40	.....	86.35	86.55	.....	86.55	.....	86.00

237-3. Village of Wyoming. Vine and Water Sts. Lat. 39°13', long. 84°28'. Drilled unused well in gravel, diameter 8 inches, depth 194 feet. Highest water level 111.32 below lsd, May 8, 1939; lowest 148.70 below lsd, Nov. 11, 1948. Records available: 1938-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	143.00	143.15	142.20	142.80	.....	143.55	143.75	143.70	144.15	143.95	143.85	143.95
2	143.30	143.45	142.65	142.80	143.25	143.55	143.95	143.65	144.05	144.10	143.60	143.50
3	143.20	143.80	142.15	142.65	143.30	143.45	144.10	143.65	143.95	143.95	143.85	143.45
4	143.10	143.65	141.45	143.25	143.30	143.35	143.95	143.60	144.15	143.70	144.05	143.45
5	142.80	143.20	142.25	142.65	143.35	143.05	143.85	143.75	144.35	143.45	143.70	144.00
6	143.55	142.65	141.65	142.70	143.45	143.20	143.80	143.65	144.25	143.45	143.50	143.60
7	143.40	143.25	143.00	143.30	143.20	143.50	143.85	143.55	144.35	143.35	144.05	143.25
8	143.10	143.20	142.45	143.40	142.95	143.10	143.30	143.85	144.50	143.95	144.00	142.75
9	142.85	142.95	142.40	143.35	143.45	143.15	143.45	143.85	144.55	143.80	143.80	144.25
10	143.05	142.40	142.10	.....	143.10	142.85	143.45	143.65	144.55	143.90	143.25	144.50
11	143.20	142.90	142.00	.....	143.35	142.65	143.90	143.45	144.45	143.75	143.20	144.25
12	143.00	142.95	142.40	.....	142.15	142.90	143.95	143.30	144.45	143.30	143.55	144.40
13	143.00	143.20	142.90	.....	142.90	143.15	143.85	143.45	144.15	143.25	143.70	143.90
14	143.00	142.90	142.80	.....	142.95	143.25	143.45	143.80	144.20	143.00	143.95	143.90
15	143.05	142.50	142.20	.....	143.10	143.20	143.20	143.90	144.20	143.10	143.35	143.85
16	142.90	142.15	142.60	.....	142.95	143.40	143.30	143.85	144.25	143.15	143.50	143.70
17	143.20	142.75	142.75	.....	143.10	143.50	143.40	143.90	144.35	143.25	144.00	143.80
18	143.20	142.80	142.40	.....	143.05	143.60	143.55	144.20	144.35	143.30	144.05	143.70
19	143.50	142.75	142.70	.....	143.00	143.45	143.45	144.35	144.25	143.65	143.60	144.50
20	143.45	142.60	142.60	.....	143.25	143.70	143.65	144.45	144.35	143.85	143.95	144.15
21	142.60	142.95	142.25	.....	143.25	143.70	143.50	144.65	144.35	143.60	143.95	143.85
22	142.80	142.75	142.05	.....	142.80	143.60	143.50	144.35	144.40	143.90	143.55	143.25
23	142.95	143.15	142.25	.....	143.20	143.35	143.35	144.40	143.90	143.60	143.85	143.20
24	142.85	142.75	142.25	.....	143.10	143.35	143.20	144.10	143.90	144.15	144.10	143.30
25	143.20	142.95	142.35	.....	142.95	143.05	143.40	143.90	144.20	143.85	143.80	143.90
26	143.20	142.40	142.65	.....	143.15	142.55	143.60	143.75	144.25	143.55	143.70	144.25
27	143.35	142.40	142.85	.....	143.35	143.65	143.55	143.60	143.75	143.55	143.15	144.05
28	142.95	142.05	143.00	.....	143.05	143.65	143.65	143.90	143.80	143.35	143.65	143.95
29	143.20	.....	142.95	.....	142.85	143.50	143.50	143.85	143.60	143.10	143.85	143.80
30	143.30	.....	143.00	.....	143.15	143.65	143.50	143.80	143.65	142.90	144.15	143.90
31	143.10	.....	143.00	.....	143.40	.....	143.55	144.00	.....	143.90	.....	143.45

241-3. Gardner-Richardson Co. South Cooper Ave., Lockland. Lat. 39°14', long. 84°27'. Drilled unused well in gravel, diameter 10 inches, depth 168 feet. Highest water level 104.70 below lsd, Jan. 30, 1939; lowest 136.80 below lsd, Nov. 9, 1947. Records available: 1938-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	119.95	119.70	120.05	119.95	120.40	120.65	120.50	120.60	120.55	120.90	120.80	120.85
2	120.15	120.20	120.25	119.70	120.30	120.65	120.55	120.50	120.50	120.90	120.75	120.45
3	120.10	120.50	120.20	120.00	120.05	120.55	120.60	120.50	120.40	120.85	121.05	120.35
4	119.80	120.55	119.85	120.05	119.95	120.45	120.55	120.60	120.45	120.65	121.10	120.55
5	119.80	120.15	120.10	120.00	119.95	120.35	120.35	120.65	120.45	120.50	120.95	120.60

241-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	120.10	119.75	120.15	119.85	120.05	120.30	120.20	120.65	120.30	120.45	120.75	120.55
7	120.25	119.85	120.30	120.10	119.95	120.20	120.15	120.50	120.40	120.75	120.85	120.25
8	120.10	119.85	120.20	120.20	120.15	120.35	120.15	120.55	120.40	120.90	120.95	120.45
9	119.95	119.80	119.95	120.20	120.25	120.55	120.30	120.55	120.45	121.00	120.85	120.85
10	120.05	119.75	119.90	120.20	120.20	120.50	120.35	120.50	120.45	120.80	120.50	120.90
11	120.10	120.05	119.85	120.10	120.20	120.40	120.25	120.50	120.65	120.65	120.65	120.85
12	120.05	120.45	119.95	119.80	120.20	120.65	120.35	120.45	120.65	120.40	120.80	120.75
13	120.05	120.55	120.35	119.80	120.15	120.70	120.35	120.40	120.60	120.35	120.85	120.65
14	120.15	120.40	120.35	119.70	120.10	120.80	120.30	120.60	120.50	120.35	120.85	120.50
15	119.90	119.90	120.05	120.00	120.25	120.85	120.25	120.60	120.55	120.50	120.50	120.55
16	120.00	119.80	120.15	120.10	120.20	120.80	120.15	120.60	120.65	120.55	120.65	120.55
17	120.10	120.20	120.40	120.10	120.15	120.80	120.25	120.45	120.65	120.40	121.05	120.40
18	120.15	120.20	120.15	120.15	120.25	120.80	120.30	120.35	120.50	120.70	121.15	120.85
19	120.05	120.05	120.10	120.05	120.15	120.70	120.35	120.50	120.40	120.90	120.95	120.90
20	120.30	119.95	120.10	119.90	120.15	120.60	120.35	120.50	120.35	120.95	121.05	120.75
21	120.15	120.10	119.75	119.90	120.25	120.60	120.35	120.50	120.60	120.95	120.75	120.50
22	119.65	120.00	120.00	119.90	120.25	120.60	120.35	120.55	120.60	121.00	120.55	120.05
23	119.95	120.35	120.05	119.90	120.25	120.65	120.30	120.50	120.70	120.80	120.85	120.15
24	119.85	120.35	120.20	119.75	120.15	120.70	120.30	120.60	120.85	120.80	121.05	120.60
25	119.95	120.40	120.15	119.70	120.35	120.65	120.35	120.55	120.90	120.80	120.95	120.70
26	120.15	120.20	120.30	120.15	120.45	120.70	120.45	120.55	120.90	120.45	120.60	120.70
27	120.30	119.95	120.35	120.20	120.40	120.70	120.50	120.55	120.65	120.55	120.40	120.60
28	120.10	119.90	120.30	120.20	120.45	120.80	120.55	120.40	120.65	120.45	120.45	120.45
29	120.05		120.15	120.30	120.40	120.65	120.50	120.40	120.50	120.40	120.75	120.40
30	120.25		120.20	120.40	120.50	120.55	120.50	120.30	120.80	120.60	120.90	120.40
31	120.20		120.05		120.60		120.60	120.45		120.80		120.15

246-1. National Distillers Corp. Wayne Ave. and 78th St., Carthage. Lat. 39°12', long. 84°28'. Drilled unused well in gravel, diameter 8 inches, depth 170 feet. Highest water level 103.20 below lsd, May 28, 1945; lowest 121.58 below lsd, Nov. 10, 1950. Records available: 1944-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	112.00	113.45	111.45	110.95	108.80	108.30	107.95	107.80	115.85	.....
2	.....	.....	112.35	113.00	111.25	109.80	108.80	108.25	107.95	107.80	112.45	.....
3	108.00	.....	112.10	112.00	112.05	109.65	108.85	108.20	107.85	107.75	112.10	.....
4	107.95	.....	112.75	112.60	113.70	109.55	108.80	108.20	107.85	107.60	112.10	.....
5	107.80	.....	111.70	113.15	113.45	109.45	108.70	108.20	107.85	108.90	111.75	.....
6	108.05	.....	111.35	113.35	113.30	109.40	108.65	108.20	107.80	107.65	112.15	.....
7	108.15	.....	111.80	113.60	110.80	109.30	108.60	108.10	107.80	108.35	112.70	.....
8	107.95	.....	112.10	113.75	110.85	110.00	108.60	108.15	107.80	107.80	113.15	.....
9	107.95	.....	112.20	113.45	110.85	110.50	108.70	108.10	107.80	108.35	113.10	.....
10	.....	.....	112.55	112.35	111.70	110.30	108.65	108.10	107.80	112.05	111.95	.....
11	.....	.....	113.15	112.80	111.70	109.20	108.60	108.05	107.80	113.05	111.35	.....
12	.....	.....	112.25	113.10	111.70	109.30	108.65	108.05	107.90	113.35	111.25	.....
13	.....	.....	111.65	113.45	111.35	109.30	108.60	108.00	107.85	113.95	111.90	.....
14	.....	.....	112.15	113.50	111.45	109.30	108.55	108.10	107.75	114.25	112.35	.....
15	.....	113.35	112.05	113.50	111.45	109.35	108.45	108.10	107.75	112.30	112.70	.....
16	.....	.....	112.75	112.90	111.30	109.25	108.45	108.00	107.90	111.50	113.20	.....
17	.....	.....	112.65	112.30	111.25	110.30	108.50	107.95	102.90	114.00	.....	.....
18	.....	.....	113.05	112.85	111.35	109.20	108.50	108.00	107.80	114.50	.....	.....
19	.....	.....	112.50	113.15	111.25	109.10	108.50	108.00	107.65	115.10	.....	.....
20	.....	.....	111.65	113.40	111.25	110.10	108.45	107.95	107.65	115.30	.....	.....
21	.....	.....	112.00	113.55	110.10	109.00	108.40	107.95	107.75	116.10	.....	113.10
22	110.55	.....	112.70	113.45	109.95	110.25	108.35	107.90	107.70	114.55	.....	.....
23	.....	.....	113.00	112.40	109.95	110.10	108.30	108.00	107.60	113.20	.....	.....
24	.....	.....	113.35	111.95	111.10	109.60	108.30	108.00	107.75	115.40	113.65	.....
25	.....	.....	113.25	111.90	111.20	108.95	108.30	108.00	107.80	115.55	.....	.....
26	.....	.....	112.40	114.50	111.15	108.95	108.35	107.95	107.80	116.00	.....	.....
27	.....	.....	112.30	113.05	111.00	109.00	108.35	107.90	107.65	115.95	.....	.....
28	.....	.....	112.80	111.65	109.80	109.00	108.35	107.85	107.65	116.05	.....	.....
29	.....	.....	113.15	114.10	109.70	108.90	108.25	107.80	107.55	115.85	.....	.....
30	.....	.....	113.35	111.55	109.75	108.45	108.30	107.85	107.70	115.20	.....	.....
31	.....	.....	113.45		109.80		108.35	107.90		115.85	.....	.....

270-T-7. Procter & Gamble Co. Vine St., Ivorydale. Lat. 39°10', long. 84°29'. Drilled unused well in sand and gravel, diameter 6 inches, depth 151 feet. Highest water level 110.6 below lsd, Apr. 8, 1940; lowest 129.70 below lsd, Oct. 6, 1947. Records available: 1939-55.

270-T-7--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	114.00	113.80	113.50	113.80	113.80	113.65	113.40	113.35	113.25	113.20	112.90	113.15
2	114.00	113.80	113.65	113.65	113.80	113.65	113.40	113.35	113.30	113.25	112.95	113.15
3	114.10	114.00	113.70	113.55	113.75	113.65	113.45	113.35	113.35	113.25	113.05	112.85
4	114.10	114.10	113.65	113.65	113.65	113.55	113.45	113.30	113.35	113.25	113.15	112.85
5	114.05	114.10	113.65	113.65	113.55	113.45	113.40	113.35	113.35	113.15	113.15	112.90
6	113.85	113.80	113.75	113.65	113.55	113.40	113.35	113.35	113.35	113.00	113.05	112.95
7	114.00	113.65	113.80	113.70	113.55	113.35	113.30	113.25	113.25	113.05	113.00	112.95
8	114.00	113.70	113.85	113.75	113.55	113.35	113.30	113.25	113.30	113.15	113.05	112.80
9	114.00	113.75	113.85	113.80	113.60	113.40	113.35	113.25	113.30	113.20	113.10	112.90
10	114.00	113.75	113.75	113.80	113.60	113.40	113.35	113.25	113.30	113.25	113.05	113.05
11	114.00	113.75	113.70	113.70	113.65	113.40	113.40	113.30	113.30	113.20	112.75	113.10
12	114.05	113.90	113.55	113.55	113.65	113.40	113.40	113.30	113.35	113.10	112.90	113.15
13	114.05	114.00	113.70	113.50	113.60	113.45	113.40	113.25	113.35	112.90	113.00	113.15
14	114.00	114.05	113.80	113.50	113.50	113.50	113.40	113.30	113.35	112.90	113.05	113.05
15	114.00	113.75	113.85	113.60	113.55	113.55	113.30	113.30	113.25	112.95	113.05	112.95
16	113.95	113.75	113.70	113.65	113.55	113.60	113.25	113.30	113.25	112.95	112.80	112.95
17	114.00	113.75	113.85	113.70	113.55	113.60	113.30	113.25	113.25	112.95	113.05	112.90
18	114.05	113.80	113.85	113.70	113.55	113.60	113.35	113.25	113.25	113.00	113.15	112.85
19	114.05	113.80	113.85	113.65	113.55	113.55	113.35	113.25	113.20	113.10	113.15	113.00
20	114.10	113.80	113.85	113.60	113.50	113.45	113.35	113.30	113.00	113.20	113.10	113.05
21	114.10	113.80	113.85	113.60	113.55	113.40	113.25	113.30	113.05	113.20	113.10	113.05
22	113.70	113.85	113.45	113.60	113.50	113.40	113.35	113.30	113.10	113.25	113.05	112.90
23	113.80	113.90	113.45	113.60	113.50	113.40	113.35	113.25	113.15	113.20	112.90	112.55
24	113.85	113.90	113.60	113.50	113.50	113.40	113.30	113.30	113.20	112.90	113.10	112.60
25	113.90	113.95	113.70	113.35	113.50	113.40	113.30	113.35	113.25	112.95	113.10	112.80
26	113.95	113.95	113.65	113.55	113.55	113.45	113.35	113.35	113.30	112.95	113.10	112.95
27	114.05	113.75	113.80	113.65	113.55	113.45	113.35	113.35	113.30	112.90	113.00	113.00
28	114.05	113.60	113.85	113.70	113.55	113.50	113.35	113.30	113.15	112.90	112.80	113.05
29	113.95		113.85	113.75	113.50	113.50	113.35	113.30	113.15	112.75	112.95	113.00
30	114.00		113.85	113.85	113.55	113.40	113.35	113.15	113.10	112.70	113.10	113.00
31	114.00		113.85		113.60		113.35	113.20		112.80		113.00

Hancock County

Ha-2. R. E. Ascham. Lat. 40°57'00", long. 83°46'00". Drilled unused well in limestone, diameter 6 inches, depth 27 feet. Highest water level 2.88 above lsd, Mar. 22, 1948; lowest 7.65 below lsd, Nov. 16-17, 1952. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.70	....	1.20	1.75	2.80	3.30	3.50	5.20	6.20	7.05	7.00	4.25
2	1.80	....	1.40	1.85	2.85	3.35	3.65	5.25	6.20	7.10	7.00	4.20
3	1.85	....	1.45	2.10	2.85	3.35	3.75	5.25	6.25	7.10	4.50	4.05
4	1.85	....	.60	2.25	2.90	3.30	3.80	5.35	6.25	7.10	4.60	3.55
5	1.85	....	.95	2.25	2.95	3.30	3.90	5.35	6.30	7.10	5.30	3.50
6	.75	....	1.15	2.30	3.00	3.30	4.00	5.35	6.30	5.85	5.65	3.50
7	1.10	....	1.55	2.50	3.00	3.20	4.05	5.30	6.45	5.90	5.85	3.50
8	1.25	....	1.65	2.60	3.10	3.25	3.80	5.30	6.45	4.30	6.00	3.55
9	1.50	3.10	1.65	2.65	3.10	3.35	3.85	5.35	6.50	5.60	6.10	3.70
10	1.65	2.45	1.65	2.70	3.10	3.35	3.95	5.45	6.50	6.00	6.05	3.95
11	1.80	2.45	1.50	2.65	3.10	3.30	4.10	5.45	6.50	6.20	6.25	4.25
12	1.85	2.75	1.15	2.70	3.15	3.40	4.25	5.50	6.50	6.35	6.40	4.40
13	2.05	2.80	1.45	2.70	3.10	3.45	4.35	5.50	6.55	6.35	6.40	4.45
14	2.15	2.75	1.55	2.70	3.20	3.50	4.35	5.35	6.55	6.40	6.35	4.50
15	2.20	2.80	1.70	2.85	3.20	3.55	4.30	5.35	6.55	6.50	4.15	4.60
16	2.35	2.80	1.65	2.85	3.20	3.55	4.35	5.40	6.60	6.50	2.90	4.65
17	2.50	2.60	1.75	2.95	3.25	3.60	4.40	5.45	6.65	6.10	3.15	4.65
18	2.55	2.55	1.90	2.95	3.25	3.65	4.45	5.55	6.70	6.35	3.15	....
19	2.65	2.45	2.00	2.85	3.25	3.65	4.55	5.60	6.70	6.55	3.20	....
20	2.70	2.30	2.05	2.80	3.30	3.70	4.60	5.60	6.70	6.60	3.25	....
21	2.60	1.50	1.60	2.05	3.30	3.70	4.65	5.65	6.75	6.75	3.20	....
22	2.65	1.45	1.15	2.20	3.30	3.80	4.70	5.70	6.80	6.85	3.15	....
23	2.75	1.70	1.35	2.35	3.25	3.95	4.75	5.80	6.85	6.85	3.20	4.90
24	2.75	1.75	1.60	2.30	3.25	4.05	4.80	5.85	6.80	6.75	3.25	4.90
25	2.85	1.80	1.65	2.40	3.35	4.15	4.90	5.85	6.95	6.75	3.25	4.75

Ha-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	2.90	1.75	1.70	2.50	3.35	4.25	4.95	5.90	6.95	6.80	3.25	4.25
27	2.90	1.35	1.90	2.55	3.35	4.30	5.00	5.95	6.95	6.65	3.25	4.75
28	2.90	1.25	1.95	2.65	3.35	4.40	5.05	6.00	6.95	6.90	....	4.85
29	2.95		1.85	2.75	3.10	4.40	5.05	6.00	6.95	6.85	3.75	4.90
30	3.05		1.75	2.80	3.20	4.40	5.10	6.05	7.00	6.85	4.15	4.95
31	3.05		1.65		3.25		5.15	6.15		7.00		4.95

Hardin County

Hn-1. Village of Alger. Lat. 40°42'15", long. 63°50'08". Drilled unused well in limestone, diameter 6 inches, depth 140 feet. Highest water level 4.35 below lsd, Apr. 15, 1951; lowest 15.75 below lsd, Sept. 5, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.25	10.55	10.00	10.15	10.70	10.55	12.90	12.35	12.35	12.85	10.80	10.05
2	12.10	10.95	10.05	9.45	10.50	10.60	13.10	12.40	12.45	12.75	10.75	10.20
3	12.45	11.55	9.85	9.45	10.50	10.65	13.20	12.55	12.50	12.55	10.75	10.25
4	11.80	11.65	9.70	10.25	10.50	10.85	13.40	12.50	15.20	13.10	10.75	10.10
5	11.65	11.55	9.90	9.85	10.60	10.90	14.05	12.65	15.75	13.10	10.75	9.85
6	11.55	11.00	9.55	9.85	10.60	10.60	13.25	12.45	12.70	12.95	10.55	9.85
7	11.40	11.10	9.70	10.10	10.55	10.50	12.70	12.05	12.60	12.85	10.40	9.85
8	11.25	10.90	9.80	9.65	10.40	10.35	12.70	11.95	13.05	12.55	10.45	9.90
9	11.00	10.80	9.70	9.80	13.35	11.65	12.65	11.85	13.00	12.35	10.50	10.05
10	11.05	11.15	9.70	9.50	14.20	11.50	12.65	11.95	12.80	12.10	10.40	10.05
11	10.90	11.30	9.55	10.15	11.25	11.35	12.70	11.85	12.70	12.05	10.25	10.05
12	10.75	11.55	9.55	10.05	10.65	11.00	13.05	11.85	12.50	12.05	10.30	9.95
13	10.80	11.60	9.65	10.00	10.50	11.05	13.00	11.80	12.60	11.95	10.30	9.95
14	10.75	11.45	9.60	9.95	10.40	10.85	12.80	11.85	12.65	11.65	10.35	9.90
15	10.70	11.30	9.40	9.95	10.45	11.00	13.15	11.70	12.75	11.65	10.30	10.00
16	10.65	11.25	9.55	10.10	10.55	11.30	12.80	12.30	12.90	11.65	10.05	10.15
17	10.60	11.25	9.55	9.60	10.55	11.50	12.20	11.90	13.00	11.35	10.10	10.05
18	10.65	11.15	9.45	9.10	10.55	11.70	12.05	11.85	12.95	11.30	10.15	10.05
19	10.45	11.15	9.45	10.30	10.45	11.70	12.10	11.80	12.95	11.35	10.15	10.15
20	10.65	11.05	9.40	10.30	10.70	11.70	12.20	11.80	13.45	11.35	10.15	10.20
21	10.80	10.90	9.20	10.20	10.80	11.60	12.50	11.80	13.65	11.25	10.05	10.15
22	10.75	10.75	9.20	10.10	10.80	11.70	12.70	11.75	13.40	11.20	10.00	10.00
23	10.70	10.65	9.35	9.45	10.45	11.70	12.70	11.75	13.35	11.10	9.95	10.00
24	10.70	10.65	9.35	10.15	10.55	11.65	12.35	11.90	13.15	10.90	10.05	10.00
25	10.75	10.60	9.40	10.30	10.50	11.65	12.55	12.00	13.15	10.90	10.00	10.15
26	10.80	10.50	9.45	10.20	10.55	11.65	12.75	12.05	13.00	10.80	9.85	10.25
27	10.85	10.30	9.70	10.25	10.70	12.10	13.00	12.40	12.95	10.85	9.75	10.30
28	10.90	10.15	9.70	10.35	10.55	12.25	12.95	12.00	13.00	10.80	9.65	10.20
29	10.90		9.70	10.45	10.10	12.60	12.35	11.85	12.95	10.85	9.90	10.15
30	11.00		9.75	10.75	10.30	13.00	12.30	11.95	12.85	10.85	10.05	10.10
31	11.05		10.15		10.45		12.05	12.20		10.85		10.05

Henry County

Hy-1. H. Fosnow. Lat. 41°14'26", long. 83°54'03". Drilled unused well in limestone, diameter 4 inches, depth 81 feet. Highest water level 19.59 below lsd, May 21, 1948; lowest 26.44 below lsd, June 29, 1954. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	25.13	May 3	24.19	July 26	24.40	Oct. 18	25.10
Feb. 10	24.90	June 1	24.29	Aug. 23	25.12	Nov. 17	24.87
Mar. 8	24.62	28	25.50	Sept. 20	25.55	Dec. 14	25.17
Apr. 5	24.26						

Holmes County

Ho-1. Sarah Walters. Millersburg. Lat. 40°35', long. 81°55'. Drilled unused well in sandstone, diameter 4 inches, depth 43 feet. Highest water level 2.07 below lsd, Mar. 22, 1955; lowest 6.73 below lsd, Jan. 14, 1954. Records available: 1953-55.

Ho-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.54	5.08	3.28	....	3.28	4.43	4.83	4.57	5.49	5.89	6.07	5.00
2	4.44	5.11	3.20	....	3.31	4.48	4.90	4.66	5.52	5.91	6.08	5.00
3	4.42	5.16	3.20	....	3.31	4.51	4.93	4.73	5.54	5.95	6.04	4.98
4	4.41	5.18	3.19	....	3.35	4.55	4.34	4.79	5.56	5.96	6.03	4.89
5	4.40	5.18	3.22	....	3.47	4.58	4.48	4.82	5.58	5.96	6.04	4.91
6	4.25	5.17	2.78	....	3.56	4.62	4.35	4.84	....	5.94	6.05	4.97
7	3.96	4.88	2.89	....	3.58	4.64	4.18	4.84	5.61	5.94	6.07	5.00
8	3.94	4.75	2.95	....	3.61	4.64	4.24	4.72	5.65	5.92	6.09	5.02
9	3.94	4.68	3.01	....	3.68	4.64	4.19	4.78	5.67	5.96	6.09	5.07
10	3.94	4.34	3.04	....	3.68	4.67	3.94	4.83	5.69	5.98	6.09	5.15
11	3.96	4.13	3.04	....	3.72	4.65	4.09	4.89	5.70	6.00	6.10	5.19
12	3.98	4.10	2.88	....	3.80	4.66	4.27	4.94	5.40	6.00	6.11	5.23
13	4.04	4.09	2.93	....	3.83	4.68	4.40	4.96	5.50	6.00	6.12	5.26
14	4.12	4.07	2.95	3.14	3.92	4.71	4.46	4.95	5.54	5.99	6.13	5.28
15	4.13	4.05	2.96	3.14	3.99	4.75	4.34	5.01	5.58	5.99	6.13	5.31
16	4.24	4.04	2.96	3.16	4.05	4.77	4.35	5.05	5.62	5.97	5.80	5.41
17	4.40	3.97	....	3.19	4.11	4.79	4.41	5.10	5.65	5.97	4.94	5.45
18	4.51	3.93	....	3.21	4.15	4.83	4.15	5.15	5.67	5.98	4.85	5.46
19	4.59	3.86	....	3.21	4.18	4.86	4.02	5.19	5.70	6.00	4.83	5.50
20	4.65	3.81	....	3.18	4.21	4.89	4.11	5.22	4.72	6.02	4.87	5.55
21	4.68	3.71	2.76	3.15	4.25	4.89	4.22	5.25	5.75	6.03	4.90	5.58
22	4.69	3.61	2.75	3.17	4.28	4.89	4.34	5.25	5.78	6.04	4.90	5.59
23	4.73	3.36	2.62	3.19	4.30	4.89	4.42	5.20	5.79	6.05	4.90	5.60
24	4.78	3.36	2.68	3.19	4.10	4.95	4.43	5.26	5.79	6.05	4.72	5.59
25	4.82	3.37	2.70	3.14	4.18	4.97	4.51	5.29	5.82	6.04	4.65	5.52
26	4.87	3.38	2.76	3.14	4.26	5.00	4.59	5.33	5.85	6.01	4.68	5.57
27	4.91	3.38	2.84	3.16	4.32	5.02	4.66	5.35	5.86	6.02	4.70	5.63
28	4.95	3.31	2.90	3.20	4.34	5.05	4.45	5.37	5.84	6.02	4.75	5.67
29	4.99	....	2.94	3.22	4.22	5.08	4.40	5.40	5.85	6.03	4.88	5.68
30	5.04	....	....	3.25	4.33	5.09	4.43	5.44	5.86	6.04	4.95	5.69
31	5.06	....	....	....	4.38	....	4.50	5.46	....	6.06	....	5.71

Huron County

Hu-2. City of New London. Lat. 41°04'54", long. 82°25'00". Drilled unused well in sandstone, diameter 4 inches, depth 105 feet. Highest water level 13.25 below lsd, May 22, 1949; lowest 18.17 below lsd, Jan. 21-23, 1954. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.95	16.56	16.29	15.72	15.47	15.59	15.80	16.19	16.40	16.74	16.90	17.08
2	16.99	16.65	16.35	15.68	15.47	15.61	15.84	16.20	16.41	16.76	16.90	17.02
3	16.99	16.73	16.35	15.66	15.44	15.61	15.87	16.21	16.41	16.77	16.94	16.98
4	16.93	16.74	16.20	15.69	15.43	15.60	15.89	16.24	16.41	16.74	16.95	16.98
5	16.91	16.66	16.15	15.67	15.41	15.57	15.88	16.26	16.43	16.73	16.96	17.00
6	16.83	16.54	16.14	15.62	15.44	15.57	15.87	16.26	16.43	16.63	16.91	17.01
7	16.85	16.52	16.19	15.62	15.42	15.56	15.87	16.16	16.47	16.63	16.65	16.98
8	16.83	16.52	16.19	15.64	15.44	15.53	....	16.19	16.48	16.70	16.97	16.98
9	16.80	16.50	16.13	15.66	15.47	15.57	....	16.20	16.49	16.73	16.97	17.05
10	16.81	16.48	16.13	15.64	15.45	15.58	....	16.21	16.49	16.73	16.95	17.08
11	16.81	16.48	16.06	15.62	15.46	15.56	....	16.15	16.51	16.73	16.92	17.09
12	16.80	16.58	15.97	15.56	15.47	15.55	....	16.16	16.55	16.71	16.98	17.09
13	16.74	16.61	16.06	15.56	15.45	15.58	....	16.16	16.57	16.67	16.99	17.09
14	16.76	16.58	16.06	15.53	15.48	15.64	....	16.13	16.55	16.65	16.99	17.07
15	16.70	16.49	16.02	15.53	15.49	15.67	15.93	16.16	16.55	16.66	16.99	17.04
16	16.69	16.48	16.02	15.53	15.48	15.69	15.95	16.16	16.58	16.66	16.90	17.05
17	16.75	16.53	16.05	15.56	15.50	15.72	15.99	16.17	16.60	16.61	17.00	17.04
18	16.75	16.52	16.00	15.56	15.50	15.74	16.02	16.19	16.60	16.68	17.02	17.10
19	16.75	16.50	16.01	15.49	15.46	15.72	16.05	16.21	16.57	16.77	16.99	17.14
20	16.77	16.47	16.01	15.45	15.48	15.72	16.07	16.22	16.58	16.79	16.99	17.14
21	16.75	16.45	15.97	15.42	15.51	15.72	16.07	16.23	16.60	16.85	16.97	17.12
22	16.62	16.42	15.70	15.40	15.49	15.73	16.07	16.23	16.62	16.86	16.97	17.03
23	16.63	16.44	15.74	15.39	15.45	15.75	16.06	16.29	16.61	16.84	16.97	17.00
24	16.63	16.45	15.79	15.37	15.44	15.73	16.05	16.31	16.62	16.82	17.04	17.08
25	16.63	16.48	15.80	15.33	15.48	15.75	16.04	16.33	16.68	16.83	17.03	17.14

Hu-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	16.64	16.45	15.71	15.39	15.50	15.79	16.07	16.34	16.71	16.82	17.00	17.17
27	16.65	16.40	15.75	15.41	15.50	15.84	16.10	16.33	16.68	16.83	16.97	17.18
28	16.63	16.35	15.76	15.41	15.50	15.86	16.11	16.34	16.66	16.83	16.94	17.17
29	16.59		15.76	15.45	15.47	15.86	16.12	16.33	16.66	16.80	17.01	17.15
30	16.64		15.77	15.47	15.52	15.86	16.15	16.31	16.68	16.82	17.08	17.15
31	16.64		15.75		15.56		16.18	16.37		16.89		17.10

Knox County

K-1. City of Mount Vernon. Lat. 40°23'45", long. 82°30'05". Drilled unused well in gravel, diameter 8 inches, depth 90 feet. Highest water level 1.90 above lsd, Mar. 19, 1948; lowest 13.05 below lsd, Aug. 30, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.50	7.35	3.70	3.85	4.70	5.00	8.85	9.90	10.30	7.85	7.35	6.60
2	4.25	7.70	5.10	3.50	3.10	7.60	8.10	10.35	10.45	6.20	7.50	6.95
3	4.80	8.90	5.20	3.20	4.35	8.45	5.60	10.35	9.45	7.40	6.70	5.40
4	5.05	7.10	5.20	3.10	7.45	7.45	5.00	11.30	8.25	7.85	7.65	4.15
5	5.00	7.70	5.45	3.50	8.05	4.70	7.75	11.30	8.75	7.60	7.60	6.25
6	4.95	4.90	3.00	5.25	5.75	7.75	8.20	11.20	9.70	7.40	6.20	6.55
7	4.70	4.60	2.90	5.40	5.65	7.85	8.40	9.95	9.60	7.70	6.30	4.75
8	4.65	4.80	4.50	5.20	5.00	5.25	8.50	10.45	9.80	7.70	7.45	6.70
9	4.05	6.45	5.40	5.10	3.55	8.10	8.50	9.85	9.75	6.30	7.50	8.50
10	4.45	6.45	5.85	2.95	5.05	7.65	6.40	9.95	9.85	6.35	6.90	7.40
11	4.55	....	3.90	3.35	6.55	5.85	7.55	9.70	6.65	8.70	7.00	5.00
12	4.65	6.55	3.50	5.60	7.15	5.25	8.15	10.35	7.30	9.05	7.05	4.45
13	4.65	....	3.25	6.65	7.35	4.45	8.30	8.85	7.70	6.80	6.45	5.80
14	4.65	4.10	2.75	4.30	6.20	5.90	8.50	6.30	7.80	6.60	5.85	7.65
15	4.55	5.80	3.55	5.00	4.10	6.40	8.25	9.70	9.05	6.50	6.75	8.75
16	3.75	5.85	5.50	4.95	6.75	6.65	7.95	8.80	10.00	6.40	6.70	5.90
17	4.25	4.65	5.95	3.55	7.10	6.80	5.90	11.05	10.15	6.20	6.90	5.10
18	4.55	6.95	5.95	3.55	7.05	6.85	7.60	11.00	6.60	6.20	5.75	4.80
19	4.60	5.50	3.70	4.70	7.55	5.90	9.15	11.10	8.65	7.25	4.80	6.80
20	4.70	4.15	3.15	5.00	7.85	8.05	8.85	9.55	7.90	7.50	4.70	6.95
21	4.65	3.60	3.95	4.70	7.05	8.40	8.80	8.80	8.55	7.65	5.15	8.80
22	4.60	5.20	4.35	5.50	6.70	8.25	8.35	9.45	8.65	7.50	6.45	9.50
23	3.80	5.35	5.35	4.75	4.75	8.45	8.20	10.05	8.35	6.20	6.85	7.05
24	4.25	6.60	5.90	3.20	6.60	7.90	6.15	9.70	7.00	5.85	5.00	5.85
25	5.15	5.65	7.90	4.00	6.85	7.45	7.85	10.40	6.35	8.65	4.45	5.80
26	5.50	4.10	5.25	4.65	7.05	7.45	8.35	10.15	7.80	7.35	4.40	8.65
27	4.70	3.60	3.05	5.10	7.05	5.65	8.50	7.85	7.85	7.60	4.35	8.25
28	....	3.70	3.05	5.20	6.85	5.80	8.55	6.85	7.50	7.45	6.00	8.70
29	....		5.00	5.20	4.00	8.20	9.65	11.10	8.90	7.30	6.55	8.75
30	....		4.50	4.95	4.05	8.55	9.10	13.05	9.00	6.50	5.50	9.05
31	6.80		5.55		4.70		7.60	12.50		6.80		8.00

Lake County

L-1. City of Mentor. Lat. 41°41'00", long. 81°22'03". Drilled unused well in sand, diameter 8 inches, depth 32 feet. Highest water level 14.30 below lsd, Apr. 11, 1950; lowest 23.30 below lsd, Oct. 3-7, 1954. Records available: 1948-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.10	19.00	....	19.65	20.35	20.55	20.90	21.65	21.95	....	22.15	22.50
2	19.10	19.20	....	19.65	20.35	20.80	21.00	21.70	....	....	22.00	22.50
3	19.15	19.40	....	19.70	20.35	20.75	21.00	21.75	....	....	21.95	22.55
4	19.05	19.20	....	19.75	20.40	20.60	20.95	21.75	....	21.90	22.00	22.50
5	19.10	19.05	....	19.85	20.55	20.50	21.10	21.70	....	22.15	21.95	22.60
6	19.00	19.05	....	19.75	20.80	20.70	21.20	21.55	21.90	22.20	22.00	22.55
7	19.15	19.10	....	19.70	20.80	20.85	21.25	21.40	21.90	22.00	21.75	22.55
8	18.90	19.15	....	19.65	20.30	20.70	21.30	21.70	....	22.20	21.85	22.40
9	19.00	19.20	....	19.70	20.30	20.55	21.25	21.70	....	22.10	21.90	22.30
10	18.95	19.05	....	20.20	20.45	20.60	21.40	21.40	....	22.10	21.85	22.30

L-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.*	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	19.00	19.15	19.80	20.25	20.30	20.60	21.55	21.60	.....	21.90	22.00	22.35
12	19.05	19.10	.....	19.95	20.45	20.70	21.55	21.80	.....	21.90	22.10	22.25
13	18.90	19.20	.....	19.95	20.55	20.75	21.55	21.80	.....	21.95	22.40	22.30
14	18.70	19.15	.....	20.15	20.65	20.70	21.55	21.85	.....	21.95	22.55	22.35
15	18.70	19.25	.....	19.90	20.55	20.40	21.60	.....	.....	21.95	22.60	22.25
16	18.70	19.25	.....	19.90	20.50	20.85	21.60	.....	.....	.....	22.55	22.20
17	18.75	19.25	.....	20.00	20.40	20.95	21.45	.....	.....	21.85	22.60	22.15
18	18.85	19.25	.....	20.05	20.50	20.70	21.40	21.90	.....	21.90	22.65	22.25
19	18.90	19.35	.....	20.00	20.45	20.65	21.60	.....	.....	21.85	22.65	22.25
20	19.15	19.40	.....	20.00	20.50	20.85	21.55	.....	.....	22.30	22.70	22.30
21	18.80	19.40	.....	20.00	20.65	20.80	21.45	.....	21.80	22.40	22.60	22.25
22	18.85	19.45	19.60	19.90	20.65	20.85	21.55	.....	21.80	22.35	22.60	22.25
23	18.90	19.50	20.10	19.95	20.65	20.75	21.65	.....	21.90	22.40	22.60	22.25
24	18.90	19.55	20.15	20.00	20.75	20.70	21.65	.....	21.95	22.45	22.55	22.05
25	18.65	19.55	20.00	19.95	20.60	20.75	21.60	.....	21.95	22.40	22.50	21.85
26	18.70	19.55	19.65	20.00	20.40	20.70	21.30	21.90	.....	22.30	22.40	22.10
27	18.75	19.55	19.70	19.95	20.50	20.75	21.45	21.95	.....	22.35	22.35	22.15
28	18.80	19.60	19.70	19.90	20.65	20.80	21.30	.....	.....	22.30	22.40	21.80
29	18.80		19.60	20.00	20.85	20.65	21.30	.....	.....	.....	22.50	21.85
30	18.85		19.65	20.30	20.70	20.80	21.50	21.90	.....	22.05	22.40	21.95
31	18.85		19.65		20.45		21.55	21.90		22.10		22.05

Lawrence County

La-1. Crystal Ice Co. Ninth and Railroad Sts., Ironton. Lat. 38°32', long. 83°41'.

Drilled unused well in gravel, diameter 16 inches, depth 77 feet. Highest water level 40.03 below lsd, Apr. 13, 1951; lowest 53.77 below lsd, Oct. 19, 1947. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.45	49.17	48.43	42.65	44.66	46.68	47.25	49.15	49.35	49.71	48.99	48.94
2	50.58	49.60	48.37	42.51	44.06	46.74	.....	49.15	49.38	49.73	49.01	48.87
3	50.45	49.56	48.23	42.60	44.00	46.42	.....	49.20	49.41	49.71	49.23	48.85
4	50.63	49.30	48.10	42.67	43.91	46.42	.....	49.20	49.43	49.37	49.20	49.38
5	50.66	49.32	48.07	42.63	44.00	46.00	.....	49.25	45.44	49.43	49.37	49.50
6	50.38	49.11	47.87	42.93	44.20	46.15	.....	49.20	49.45	49.18	49.45	49.42
7	50.21	49.10	47.67	42.85	44.43	46.20	.....	49.25	49.31	49.12	49.48	49.13
8	50.02	49.24	47.37	42.90	44.38	46.09	.....	49.25	49.36	49.12	49.56	49.16
9	49.95	49.27	47.04	42.90	44.34	46.06	.....	49.30	49.23	49.09	49.63	49.21
10	49.86	49.37	46.58	42.88	44.75	46.13	.....	49.30	49.20	49.02	49.63	49.21
11	49.93	49.60	45.87	43.12	44.87	46.07	48.55	49.30	49.35	49.15	49.66	49.15
12	50.05	49.75	45.37	43.03	45.00	45.98	48.60	49.30	49.43	48.90	49.70	49.06
13	49.70	49.41	45.02	43.09	45.17	46.38	48.65	49.30	49.48	49.27	49.73	49.00
14	49.90	49.13	44.70	43.55	45.09	46.07	48.65	49.35	49.52	49.33	49.72	48.95
15	49.61	49.00	44.58	43.73	44.82	46.39	48.70	49.37	49.53	49.42	49.70	48.95
16	49.55	48.94	44.27	43.83	44.77	46.58	48.75	49.40	49.55	49.50	49.65	48.93
17	49.76	48.90	43.98	43.97	44.95	46.69	48.75	49.41	49.59	49.53	49.57	48.88
18	49.50	48.90	43.60	44.14	45.13	46.80	48.80	49.45	49.47	49.57	49.44	48.90
19	49.68	48.85	43.70	44.12	45.20	46.82	48.85	49.45	49.27	49.58	49.40	48.95
20	49.45	48.80	43.22	44.05	44.97	46.70	48.85	49.46	49.30	49.29	49.31	48.92
21	49.62	48.85	43.54	43.76	45.03	46.25	48.90	49.50	49.37	49.34	49.35	48.91
22	49.36	48.77	43.61	43.70	45.07	46.80	48.90	49.51	49.44	49.11	49.34	48.87
23	49.34	48.77	43.59	43.94	45.09	46.25	48.95	49.51	49.53	49.05	49.44	48.88
24	49.30	48.70	43.63	43.75	45.07	.....	48.95	49.52	49.54	49.13	49.36	48.99
25	49.45	48.70	43.37	43.70	45.11	.....	49.00	49.55	49.63	49.13	49.25	48.97
26	49.26	48.60	43.37	44.00	45.55	.....	49.05	49.56	49.65	49.25	49.26	49.13
27	49.25	48.53	42.85	44.25	45.90	47.15	49.05	49.27	49.33	49.23	49.17	49.20
28	49.40	48.47	42.80	44.35	46.23	.....	49.05	49.23	49.53	49.09	49.20	49.23
29	49.20		42.76	44.50	46.35	.....	49.10	49.05	49.65	48.81	49.00	49.26
30	49.19		42.67	44.63	46.23	47.25	49.10	49.27	49.68	48.97	49.12	49.30
31	49.16		42.80		46.52		49.15	49.30		49.12		49.29

Licking County

Li-1. Newark Stove Co. Lat. 40°03', long. 82°25'. Drilled unused well in sand and gravel, diameter 8 inches, depth 68 feet. Highest water level 21.50 below lsd, Feb. 8, 1952; lowest 25.17 below lsd, Nov. 16, 1955. Records available: 1951-55.

Li-1--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.84	24.70	24.41	24.01	24.03	24.33	24.49	24.60	24.78	25.00	25.07	24.92
2	24.92	24.85	24.42	23.95	24.01	24.33	24.52	24.60	24.77	24.98	25.05	24.83
3	24.85	24.85	24.32	24.06	24.00	24.31	24.52	24.61	24.77	24.97	25.12	24.83
4	24.77	24.83	24.32	24.07	23.99	24.29	24.50	24.63	24.77	24.93	25.08	24.88
5	24.73	24.72	24.36	24.02	24.00	24.29	24.48	24.63	24.79	24.93	25.04	24.88
6	24.85	24.72	24.31	24.00	24.06	24.32	24.50	24.63	24.80	24.95	25.05	24.86
7	24.84	24.76	24.34	24.06	24.03	24.30	24.49	24.65	24.83	25.01	25.06	24.80
8	24.75	24.73	24.26	24.07	24.12	24.34	24.50	24.66	24.83	25.03	25.07	24.86
9	24.77	24.70	24.21	24.07	24.13	24.36	24.52	24.65	24.84	25.02	25.05	24.94
10	24.77	24.67	24.21	24.05	24.08	24.36	24.50	24.67	24.86	25.00	25.00	24.95
11	24.75	24.70	24.25	23.99	24.12	24.33	24.49	24.65	24.87	24.97	25.08	24.90
12	24.70	24.75	24.27	24.04	24.10	24.39	24.50	24.63	24.88	24.95	25.10	24.88
13	24.78	24.71	24.28	24.02	24.05	24.40	24.48	24.63	24.86	24.98	25.10	24.88
14	24.77	24.55	24.22	24.04	24.13	24.38	24.46	24.67	24.85	24.99	25.09	24.87
15	24.74	24.60	24.10	24.09	24.13	24.41	24.47	24.65	24.88	25.01	25.05	24.91
16	24.73	24.63	24.26	24.10	24.10	24.38	24.50	24.60	24.90	25.01	25.17	24.92
17	24.75	24.65	24.26	24.10	24.14	24.40	24.52	24.63	24.89	25.00	25.13	24.90
18	24.74	24.60	24.18	24.10	24.13	24.40	24.52	24.70	24.87	25.06	25.11	24.95
19	24.76	24.54	24.17	24.06	24.14	24.37	24.54	24.71	.....	25.09	25.02	25.02
20	24.76	24.53	24.17	24.06	24.17	24.42	24.54	24.70	.....	25.08	25.02	24.95
21	24.66	24.55	24.10	24.05	24.17	24.39	24.52	24.73	.....	25.08	24.94	24.93
22	24.75	24.50	24.23	24.05	24.14	24.40	24.50	24.71	.....	25.08	24.91	24.88
23	24.74	24.56	24.23	24.03	24.16	24.45	24.50	24.74	24.99	25.00	25.00	24.95
24	24.72	24.46	24.15	24.01	24.15	24.47	24.52	24.73	24.99	25.08	24.99	25.00
25	24.75	24.47	24.13	24.08	24.22	24.47	24.52	24.73	.....	25.06	24.91	25.06
26	24.76	24.40	24.13	24.11	24.28	24.47	24.56	24.75	.....	25.03	24.88	25.04
27	24.80	24.37	24.12	24.10	24.28	24.50	24.60	24.72	.....	25.05	24.80	25.03
28	24.72	24.35	24.10	24.06	24.27	24.50	24.58	24.73	.....	25.02	24.88	25.00
29	24.75		24.06	24.05	24.29	24.47	24.57	24.71	24.90	25.03	24.93	25.00
30	24.78		24.06	24.06	24.32	24.47	24.60	24.77	24.99	25.05	24.93	25.01
31	24.76		24.01		24.33		24.62	24.78		25.08		24.97

Li-2. Heath Refinery. Newark. Lat. 40°02', long. 82°28'. Drilled observation well in gravel, diameter 6 inches, depth 23 feet. Highest water level 1.55 below lsd, May 22, 1953; lowest 18.55 below lsd, Dec. 17-18, 1953. Records available: 1953-55.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.33	12.89	10.03	4.64	4.78	6.75	8.51	9.16	9.94	11.06	11.97	12.64
2	12.35	12.95	9.94	4.52	4.81	6.95	8.52	9.19	9.98	11.11	12.00	12.67
3	12.35	12.99	9.85	4.53	4.84	7.13	8.54	9.22	10.02	11.14	12.03	12.70
4	12.30	13.02	9.54	4.57	4.87	7.28	8.54	9.25	10.05	11.17	12.06	12.73
5	12.29	12.97	9.42	4.53	4.82	7.42	8.54	9.28	10.09	11.20	12.09	12.77
6	12.32	12.96	9.26	4.44	4.41	7.55	8.55	9.30	10.12	11.23	12.10	12.80
7	12.32	12.62	9.05	4.50	4.19	7.70	8.54	9.31	10.16	11.26	12.13	12.80
8	12.27	12.29	8.90	4.66	3.97	7.80	8.53	9.33	10.20	11.30	12.17	12.76
9	12.25	12.16	8.67	4.76	3.92	7.90	8.53	9.36	10.24	11.33	12.20	12.72
10	12.25	12.01	8.52	4.80	4.15	8.06	8.53	9.38	10.28	11.36	12.22	12.69
11	12.23	11.90	8.33	4.78	4.44	8.16	8.55	9.36	10.32	11.39	12.25	12.66
12	12.22	11.86	8.24	4.85	4.64	8.25	8.58	9.31	10.36	11.40	12.29	12.64
13	12.21	11.84	8.12	4.87	4.78	8.39	8.60	9.29	10.40	11.43	12.32	12.61
14	12.22	11.78	8.03	4.88	4.92	8.49	8.62	9.31	10.43	11.45	12.35	12.59
15	12.17	11.68	.....	4.90	5.02	8.61	8.63	9.34	10.46	11.48	12.37	12.55
16	12.20	11.65	.....	4.93	5.07	8.71	8.65	9.37	10.49	11.50	12.38	12.53
17	12.28	11.58	.....	4.96	5.18	8.74	8.70	9.40	10.53	11.52	12.37	12.51
18	12.32	11.49	8.57	4.99	5.24	8.74	8.74	9.43	10.56	11.55	12.34	12.49
19	12.37	11.37	.....	4.95	5.26	8.59	8.78	9.46	10.58	11.59	12.32	12.47
20	12.41	11.26	.....	4.99	5.32	8.36	8.80	9.49	10.61	11.63	12.31	12.47
21	12.42	11.16	.....	4.99	5.25	8.18	8.84	9.53	10.66	11.65	12.32	12.47
22	12.53	11.08	7.09	4.99	5.13	8.06	8.87	9.56	10.71	11.69	12.33	12.46
23	12.62	10.95	6.53	4.96	5.08	8.14	8.90	9.60	10.75	11.71	12.34	12.44
24	12.66	10.85	6.23	4.95	5.08	8.21	8.94	9.64	10.80	11.73	12.39	12.43
25	12.70	10.68	6.00	4.73	5.15	8.28	8.98	9.68	10.84	11.76	12.41	12.43
26	12.73	10.53	5.62	4.62	5.24	8.35	9.02	9.71	10.89	11.78	12.44	12.44
27	12.78	10.36	5.50	4.62	5.46	8.42	9.05	9.75	10.92	11.81	12.46	12.45
28	12.80	10.21	5.34	4.62	5.78	8.47	9.07	9.78	10.95	11.84	12.50	12.46
29	12.83		5.14	4.70	6.05	8.49	9.08	9.82	10.98	11.86	12.54	12.46
30	12.88		4.99	4.75	6.30	8.50	9.10	9.85	11.02	11.89	12.60	12.46
31	12.89		4.79		6.57		9.13	9.90		11.93		12.46

Logan County

Lo-1. Ohio Grange. Bellefontaine. Lat. 40°21'45", long. 83°47'18". Drilled unused well in gravel, diameter 4 inches, depth 120 feet. Highest water level 12.68 below lsd, Apr. 14, 1948; lowest 22.30 below lsd, Feb. 11-12, 1954. Records available: 1946-55. Jan. 17, 19.31; Feb. 15, 19.95; Mar. 14, 16.27; Apr. 11, 15.85; May 9, 16.43; June 6, 16.98.

Lucas County

Lu-1. State of Ohio. Toledo State Hospital. Detroit Ave. and Arlington St., Toledo. Lat. 41°40'32", long. 83°36'24". Drilled unused well in limestone, diameter 12 inches, depth 250 feet. Highest water level 84.10 below lsd, July 18, 1947; lowest 113.95 below lsd, Sept. 5, 1953. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	99.05	97.65	96.55	95.90	96.05	98.10	104.75	106.30	109.25	110.05	106.40	.....
2	99.25	98.05	96.85	95.75	96.00	98.50	105.10	106.50	109.30	110.05	.....	102.90
3	99.20	98.35	96.80	95.95	96.05	98.90	105.30	106.60	109.35	109.75	.....	102.65
4	98.95	98.35	96.60	96.00	96.15	99.05	104.90	106.80	109.20	109.15	.....	102.40
5	98.90	98.00	96.65	95.90	96.25	99.15	104.40	106.95	109.00	109.10	.....	102.45
6	98.95	97.50	96.60	95.75	96.20	99.00	104.10	107.00	108.90	108.85	.....	102.40
7	98.95	.....	96.65	96.00	96.25	99.30	104.00	106.90	108.95	109.00	.....	102.20
8	98.85	97.45	96.60	96.00	96.25	99.65	103.90	106.90	109.10	109.20	.....	102.05
9	98.60	97.30	96.20	96.00	96.20	100.00	103.90	106.95	109.10	109.25	.....	102.30
10	98.70	97.20	96.20	96.00	96.20	100.25	103.95	107.15	109.10	109.00	.....	102.35
11	98.65	97.30	96.20	95.90	96.15	100.55	103.95	107.30	109.35	108.90	.....	102.35
12	98.50	97.75	96.20	95.95	96.10	100.60	104.00	107.40	109.50	108.70	.....	102.25
13	98.45	97.80	96.50	95.90	96.20	100.50	103.90	107.45	109.50	108.65	.....	102.15
14	98.45	97.50	96.50	95.95	96.20	100.75	103.70	107.60	109.25	108.65	.....	101.95
15	98.15	97.20	96.20	96.05	96.10	101.25	103.45	107.85	109.35	108.45	.....	101.70
16	98.25	97.30	96.20	96.05	96.10	101.60	103.25	107.90	109.60	108.45	104.10	.....
17	98.50	97.50	96.35	96.05	96.10	101.95	103.35	107.90	109.75	108.00	104.45	.....
18	98.45	97.50	96.20	95.85	96.00	102.15	103.40	.....	109.75	108.20	104.45	101.60
19	98.55	97.30	96.20	95.85	96.05	102.20	104.00	.....	109.80	108.40	104.15	101.85
20	98.55	97.10	96.20	95.80	96.10	102.25	104.35	.....	109.90	108.40	104.15	101.85
21	98.35	97.10	96.10	95.70	96.10	102.50	104.60	.....	109.95	108.25	103.80	101.60
22	.....	97.10	95.90	95.75	96.00	102.70	104.75	.....	109.70	108.25	103.70	101.30
23	.....	97.25	96.00	95.75	96.00	102.95	104.85	108.50	109.60	107.70	103.55	100.90
24	97.95	97.25	96.05	95.80	96.00	103.15	104.75	108.60	109.60	107.45	103.80	100.90
25	97.95	97.25	96.05	96.00	96.10	103.30	104.75	108.60	109.75	107.45	103.70	101.35
26	98.05	97.00	95.95	96.00	96.10	103.50	105.15	108.70	109.70	107.15	103.45	101.40
27	98.10	96.70	96.05	96.00	96.20	103.70	105.55	108.65	109.30	107.20	103.10	101.40
28	97.95	96.60	96.05	96.05	97.15	103.95	105.75	108.70	109.10	107.00	.....	101.40
29	97.80	.....	96.05	96.10	97.20	104.15	105.90	108.70	109.10	106.80	.....	101.10
30	.....	.....	96.10	96.10	97.20	104.40	106.10	108.70	109.55	106.60	.....	100.10
31	.....	.....	96.00	.....	97.50	.....	106.30	109.10	.....	106.60	.....	100.80

Lu-3. Metropolitan Parks. Toledo. Lat. 41°30', long. 83°45'. Drilled unused well in limestone, diameter 6 inches, depth 39 feet. Highest water level 10.90 below lsd, Jan. 1, 1952; lowest 18.64 below lsd, Sept. 15, 1954. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.21	16.30	14.00	15.48	16.43	16.48	17.27	16.47	16.83	16.80	16.52	16.37
2	15.40	16.45	14.42	15.35	16.30	16.51	17.05	16.47	16.81	16.95	16.50	16.30
3	15.32	16.51	14.51	15.75	16.22	16.48	17.37	16.50	16.78	16.88	16.35	16.32
4	15.47	16.50	14.54	15.77	16.15	16.58	17.41	16.56	17.37	16.68	15.96	16.17
5	15.37	16.36	14.50	15.78	16.12	16.89	16.87	16.60	17.00	16.57	15.67	16.21
6	14.38	16.36	14.07	15.88	16.15	16.60	16.84	16.77	16.75	16.45	15.78	16.14
7	14.56	16.47	14.30	16.01	16.27	16.43	16.65	16.55	16.80	16.40	15.93	16.06
8	14.65	16.46	14.80	16.10	16.43	16.44	16.84	16.63	16.75	16.35	16.00	16.12
9	15.04	16.35	15.15	16.13	16.31	16.44	16.98	16.47	16.80	16.42	16.01	16.24
10	15.30	16.31	15.63	16.56	16.30	16.22	17.00	16.27	17.00	16.28	16.01	16.26
11	15.39	16.28	15.47	16.50	16.15	16.27	16.84	16.37	16.98	16.23	16.18	16.30
12	15.41	16.28	15.40	16.17	16.23	16.40	16.63	16.39	16.82	16.23	16.28	16.31
13	15.70	16.28	15.17	16.09	16.20	16.44	16.83	16.37	16.75	16.28	16.48	16.30
14	15.78	16.05	15.23	16.07	16.45	16.35	16.55	16.37	16.78	16.40	16.42	16.31
15	15.87	16.13	15.42	16.05	16.47	16.38	16.37	16.45	17.11	16.47	15.49	16.42

Lu-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	16.05	16.10	15.62	16.04	16.30	16.30	16.32	16.45	17.10	16.41	15.47	16.43
17	16.27	16.14	15.65	16.60	16.27	16.30	16.30	16.45	17.09	16.43	15.17	16.38
18	16.26	16.06	15.70	16.52	16.38	16.31	16.25	16.87	17.30	16.42	15.18	16.41
19	16.26	15.98	15.77	15.93	16.25	16.30	16.05	17.00	16.88	16.57	15.40	16.50
20	16.30	15.96	15.90	15.89	16.28	16.31	16.07	17.07	16.96	16.54	15.51	16.48
21	16.20	15.70	15.82	15.73	16.43	16.35	16.23	17.45	16.77	16.52	15.69	16.40
22	16.24	15.35	15.17	15.77	16.53	16.40	16.37	16.80	16.90	16.52	15.76	16.40
23	16.27	15.30	15.25	15.88	16.35	16.40	16.30	16.75	16.73	16.68	15.99	16.45
24	16.27	15.33	15.27	15.85	16.27	16.62	16.12	16.75	16.67	16.40	15.99	16.45
25	16.34	15.44	15.27	15.30	16.24	16.52	16.37	16.90	16.80	16.38	15.93	16.55
26	16.38	15.43	15.47	15.25	16.27	16.47	16.63	16.70	16.70	16.47	15.98	16.58
27	16.33	15.36	15.60	15.37	16.35	16.57	16.52	16.77	16.62	16.60	16.08	16.55
28	16.31	14.63	15.66	15.43	16.33	16.53	16.53	17.13	16.67	16.45	16.09	16.50
29	16.35		15.74	15.68	16.28	16.45	16.52	16.85	16.61	16.42	16.24	16.46
30	16.44		15.65	16.03	16.44	17.18	16.48	16.72	16.70	16.57	16.38	16.45
31	16.44		15.54		16.35		16.47	16.77		16.55		16.38

Madison County

M-1. Max Chenoweth. Lat. 39°43'40", long. 83°15'35". Drilled unused well in gravel, diameter 4 inches, depth 60 feet. Highest water level 21.89 below lsd, Apr. 14, 1948; lowest 28.90 below lsd, Nov. 17, 1953. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.25	27.25	25.95	25.25	25.75	26.30	26.85	26.60	27.60	27.40	27.70	27.55
2	27.25	27.20	26.00	25.25	25.85	26.30	26.65	26.75	27.70	27.50	27.70	27.40
3	27.30	27.30	26.00	25.25	25.85	26.30	26.70	26.85	27.50	27.50	27.65	27.25
4	27.20	27.30	25.80	25.20	25.85	26.30	26.65	26.85	27.45	27.60	27.65	27.15
5	26.95	27.20	25.60	25.30	25.90	26.30	26.50	27.00	27.45	27.55	27.70	27.25
6	.....	26.95	25.50	25.30	25.95	26.25	26.55	27.05	27.35	27.50	27.70	27.25
7	.....	26.80	25.60	25.30	25.95	26.30	26.50	27.00	27.50	27.40	27.75	27.15
8	27.05	26.75	25.60	25.95	25.90	26.15	26.45	26.80	27.60	27.50	27.80	27.20
9	27.00	26.70	25.55	26.10	26.00	26.10	26.15	26.95	27.75	27.50	27.80	27.25
10	27.00	26.60	25.50	26.35	26.10	26.10	26.10	26.90	27.75	27.35	27.65	27.35
11	27.00	26.65	25.45	26.55	25.95	26.10	26.15	26.90	27.70	27.50	27.70	27.35
12	27.00	26.90	25.45	26.00	26.00	26.00	26.20	26.75	27.50	27.50	27.75	27.30
13	27.00	26.90	25.55	25.50	26.00	26.10	26.25	26.75	27.60	27.60	27.75	27.40
14	27.05	26.80	25.55	25.50	25.90	26.20	26.35	26.80	27.55	27.95	27.75	27.40
15	27.00	26.80	25.50	25.50	25.85	26.30	26.30	26.90	27.65	27.90	27.75	27.35
16	26.95	26.60	25.35	25.50	25.85	26.35	26.30	27.00	27.80	27.65	27.55	27.35
17	27.15	26.65	25.60	25.55	25.90	26.40	26.30	27.00	27.80	27.50	27.50	27.35
18	27.10	26.65	25.60	25.55	26.00	26.45	26.45	27.10	27.70	27.50	27.50	27.35
19	27.15	26.40	25.55	25.55	26.00	26.50	26.55	27.20	27.75	27.50	27.60	27.40
20	27.15	26.50	25.55	25.50	26.00	26.45	26.75	27.25	27.80	27.65	27.50	27.55
21	27.10	26.55	25.50	25.50	26.05	26.50	26.75	27.25	27.80	27.75	27.45	27.55
22	27.00	26.45	25.15	25.55	26.15	26.45	26.70	27.15	27.80	27.75	27.45	27.50
23	27.00	26.40	25.10	25.55	26.05	26.45	26.60	27.05	27.70	27.80	27.35	27.75
24	27.00	26.40	25.10	25.50	26.00	26.30	26.60	27.05	27.55	27.75	27.35	27.85
25	27.05	26.35	25.15	25.45	26.05	26.30	26.55	27.15	27.55	27.75	27.45	27.60
26	27.10	26.35	25.10	25.65	26.10	26.30	26.60	27.15	27.60	27.65	27.35	27.70
27	27.05	26.20	25.10	25.60	26.20	26.35	26.70	27.25	27.70	27.65	27.35	28.10
28	27.20	26.00	25.05	25.65	26.20	26.40	26.75	27.25	27.50	27.65	27.20	28.15
29	27.15		25.45	25.75	26.10	26.50	26.60	27.30	27.50	27.60	27.45	27.85
30	27.35		25.45	25.80	26.10	26.80	26.65	27.35	27.40	27.60	27.55	27.75
31	27.35		25.45		26.20		26.70	27.30		27.60		27.65

Mahoning County

Ma-1. City of Canfield. Lat. 41°00'46", long. 80°45'36". Drilled unused well in sandstone, diameter 8 inches, depth 300 feet. Highest water level 27.15 below lsd, May 22, 1949; lowest 110.75 below lsd, Sept. 27, 1946. Records available: 1946-55.

Ma-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.52	32.00	32.21	31.08	30.97	31.96	32.63	32.73	33.50	35.70	35.50	34.45
2	33.37	31.96	32.37	31.08	31.03	32.10	32.72	32.78	33.51	35.78	35.47	34.49
3	.....	31.99	32.37	31.08	31.07	32.07	32.71	32.81	33.52	35.64	35.44	34.44
4	33.48	32.03	32.23	31.12	31.08	32.08	32.71	32.85	33.53	35.59	35.44	34.40
5	33.45	32.05	32.25	31.12	31.12	32.10	32.64	32.95	33.63	35.89	35.37	34.40
6	33.23	31.99	32.26	31.07	31.13	32.10	32.70	32.96	33.64	35.87	35.54	34.38
7	33.25	32.00	32.18	31.02	31.45	32.08	32.88	32.93	33.61	35.80	35.53	34.32
8	33.30	32.13	32.14	31.00	31.84	31.95	32.80	32.98	33.59	35.90	35.54	34.22
9	33.30	32.09	32.21	31.00	31.59	31.90	32.57	33.01	33.63	35.90	35.50	34.23
10	33.15	32.15	32.25	31.03	31.35	31.93	32.56	33.07	33.63	35.80	35.45	34.23
11	33.09	32.15	32.21	31.03	31.40	31.89	32.58	33.08	33.63	35.86	35.40	34.17
12	33.05	31.99	31.74	31.02	31.39	31.93	32.60	33.12	33.66	35.87	35.40	34.23
13	32.92	31.96	31.88	31.00	31.34	31.89	32.60	33.12	33.61	35.86	35.40	34.23
14	32.90	31.95	31.84	31.00	31.33	31.90	32.57	33.09	33.68	35.87	35.37	34.25
15	32.87	31.82	31.68	30.98	31.49	31.93	32.56	33.20	33.70	35.87	35.37	34.04
16	32.79	31.77	31.57	31.05	31.49	31.92	32.63	33.30	34.30	35.75	35.22	34.03
17	32.77	31.77	31.51	31.12	31.52	31.97	32.63	33.29	34.92	35.76	35.17	34.04
18	32.69	31.77	31.46	31.13	31.62	32.17	32.67	33.36	35.00	35.75	35.17	34.04
19	32.57	31.74	31.45	31.13	31.64	32.20	32.73	33.35	35.13	35.83	35.07	33.97
20	32.56	31.72	31.42	31.12	31.78	32.29	32.72	33.43	35.15	35.84	34.97	34.05
21	32.53	32.01	31.35	31.15	31.75	32.32	32.72	33.46	35.27	35.82	34.95	34.05
22	32.49	31.95	31.17	31.15	31.75	32.29	32.70	33.49	35.37	35.58	34.87	33.88
23	32.47	32.02	31.18	31.18	31.68	32.42	32.73	33.48	35.35	35.73	34.88	33.90
24	32.32	32.02	31.21	31.15	31.77	32.54	32.73	33.42	35.36	35.72	34.98	34.00
25	32.38	32.00	31.22	31.03	31.85	32.47	32.74	33.41	35.33	35.75	34.89	33.97
26	32.31	32.00	31.17	31.05	31.78	32.47	32.73	33.40	35.27	35.57	34.80	33.88
27	32.22	32.01	31.15	31.06	31.98	32.47	32.68	33.40	35.40	35.57	34.74	34.09
28	32.15	32.19	31.11	31.01	31.91	32.45	32.77	33.38	35.41	35.52	34.71	34.12
29	32.14		31.06	31.01	31.78	32.52	32.76	33.53	35.33	35.49	34.68	34.01
30	32.05		31.08	31.01	31.80	32.51	32.78	33.47	35.61	35.50	34.67	33.93
31	32.02		31.06		31.87		32.77	33.50		35.50		33.94

Ma-3. Tod Hotel. 7 Market St., Youngstown. Lat. 41°06', long. 80°39'. Drilled unused well in sandstone, diameter 8 inches, depth 250 feet. Highest water level 23.35 below lsd, Apr. 14, 1951; lowest 28.34 below lsd, Aug. 22, 1954. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.59	26.62	26.60	26.27	26.42	26.80	27.20	27.28	27.35	27.49	27.78	27.89
2	26.56	26.63	26.59	26.27	26.41	26.80	27.20	27.27	27.34	27.49	27.79	27.89
3	26.58	26.67	26.60	26.26	26.40	26.80	27.22	27.26	27.32	27.48	27.83	27.92
4	26.57	26.70	26.57	26.29	26.39	26.78	27.19	27.26	27.29	27.47	27.85	27.92
5	26.56	26.71	26.53	26.30	26.39	26.79	27.16	27.26	27.31	27.46	27.86	27.91
6	26.54	26.67	26.51	26.28	26.45	26.82	27.13	27.26	27.36	27.44	27.85	27.91
7	26.59	26.64	26.47	26.28	26.40	26.84	27.11	27.24	27.36	27.44	27.83	27.91
8	26.59	26.65	26.45	26.33	26.88	26.85	27.10	27.18	27.36	27.46	27.85	27.88
9	26.57	26.65	26.43	26.36	26.55	26.87	27.08	27.18	27.35	27.48	27.86	27.90
10	26.55	26.65	26.41	26.38	26.55	26.87	27.08	27.17	27.36	27.48	27.86	27.97
11	26.56	26.64	26.38	26.38	26.55	26.87	27.07	27.12	27.37	27.48	27.88	27.99
12	26.57	26.68	26.37	26.38	26.55	26.85	27.07	27.09	27.38	27.48	27.92	27.99
13	26.55	26.73	26.38	26.40	26.55	26.91	27.07	27.07	27.38	27.46	27.93	27.98
14	26.56	26.73	26.38	26.40	26.55	26.95	27.06	27.00	27.37	27.48	27.92	27.98
15	26.56	26.69	26.36	26.42	26.57	26.96	27.03	27.00	27.39	27.55	27.92	27.97
16	26.56	26.69	26.31	26.44	26.57	26.95	27.02	27.02	27.45	27.56	27.89	28.96
17	26.58	26.73	26.30	26.47	26.57	27.00	27.03	27.06	27.49	27.56	27.91	27.97
18	26.60	26.74	26.30	26.48	26.57	27.04	27.04	27.11	27.49	27.63	27.92	27.97
19	26.60	26.74	26.29	26.47	26.56	27.07	27.07	27.15	27.49	27.68	27.91	27.99
20	26.61	26.74	26.30	26.47	26.57	27.06	27.10	27.17	27.53	27.70	27.88	28.00
21	26.61	26.73	26.30	26.46	26.60	27.07	27.12	27.17	27.55	27.72	27.85	28.00
22	26.57	26.71	26.25	26.44	26.63	27.07	27.13	27.18	27.55	27.74	27.84	27.98
23	26.56	26.70	26.23	26.42	26.63	27.09	27.15	27.23	27.53	27.74	27.84	27.96
24	26.57	26.70	26.24	26.41	26.64	27.08	27.16	27.25	27.50	27.71	27.88	27.96
25	26.57	26.69	26.24	26.39	26.68	27.09	27.17	27.27	27.50	27.70	27.88	28.00
26	26.59	26.68	26.22	26.42	26.72	27.11	27.20	27.29	27.50	27.70	27.85	28.01
27	26.60	26.60	26.21	26.43	26.72	27.13	27.22	27.29	27.49	27.73	27.84	28.02
28	26.61	26.62	26.22	26.42	26.72	27.16	27.23	27.29	27.45	27.74	27.79	28.03
29	26.61		26.23	26.41	26.71	27.19	27.23	27.28	27.45	27.74	27.80	28.03
30	26.62		26.23	26.41	26.75	27.21	27.25	27.31	27.45	27.73	27.87	28.03
31	26.64		26.25		26.78		27.27	27.35		27.75		28.02

Marion County

Mn-1. Village of La Rue. Lat. 40°34'50", long. 83°23'00". Drilled unused well in gravel, diameter 4 inches, depth 100 feet. Highest water level 5.55 below lsd, June 3, 1947; lowest 14.55 below lsd, Aug. 10, 1950. Records available: 1946-54.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.85	11.74	.....	9.00	.....	11.13	11.81	11.94	12.47	13.04	12.62	11.50
2	11.80	11.90	.....	9.10	.....	11.04	11.67	12.07	12.47	13.05	12.57	11.43
3	11.93	11.93	.....	9.47	.....	11.17	11.70	12.16	12.32	13.02	12.55	11.40
4	12.02	11.85	.....	9.73	10.71	11.14	11.78	12.15	12.31	12.94	12.35	11.33
5	11.88	11.75	.....	9.80	10.77	11.17	11.90	12.27	12.35	12.84	12.20	11.47
6	11.60	11.65	.....	9.83	10.75	11.75	11.80	12.13	12.50	12.83	13.10	11.57
7	11.00	11.64	.....	9.96	10.72	11.84	11.81	12.07	12.66	12.84	12.96	11.52
8	10.54	11.67	8.41	9.97	10.57	11.33	11.72	12.00	12.65	12.64	12.75	11.57
9	10.61	11.73	8.86	10.01	10.64	11.35	11.69	11.97	12.64	12.55	12.60	11.62
10	10.95	11.57	8.87	10.05	10.67	11.37	11.57	12.00	12.53	12.73	12.55	11.53
11	11.05	10.97	8.60	10.14	10.83	11.10	11.73	12.00	12.41	12.77	12.48	11.49
12	11.15	10.66	8.09	10.27	10.82	11.03	11.86	11.65	12.66	12.72	12.49	11.59
13	11.24	10.67	8.18	10.17	10.76	11.15	12.20	11.63	12.73	12.66	12.41	11.71
14	11.20	10.83	8.62	10.17	10.68	11.26	12.27	12.42	12.66	12.72	12.61	11.66
15	11.12	10.93	8.84	10.26	10.64	11.35	11.77	12.42	12.70	12.62	12.54	11.65
16	11.13	11.04	9.14	10.10	10.77	11.38	11.70	12.04	12.80	12.65	12.08	11.73
17	11.45	11.03	9.08	.....	10.87	11.50	11.43	11.92	12.75	12.60	11.67	11.80
18	11.51	10.70	9.12	.....	10.96	11.35	11.60	12.09	12.61	12.69	11.20	11.86
19	11.57	10.43	9.18	10.35	10.88	11.33	11.86	12.16	12.77	12.69	10.92	11.94
20	11.52	10.25	9.15	.....	10.85	11.47	11.87	12.06	12.87	12.69	10.99	11.99
21	11.34	9.70	8.96	.....	11.10	11.70	11.92	12.13	13.02	12.55	11.11	11.92
22	11.50	8.95	8.27	.....	10.95	11.70	11.98	12.25	13.02	12.62	11.23	11.78
23	11.37	8.98	8.03	.....	11.00	11.47	11.82	12.43	12.90	12.50	11.00	11.75
24	11.55	9.05	8.31	.....	11.06	11.58	11.76	12.30	12.73	12.61	10.98	11.70
25	11.63	9.17	8.34	.....	11.16	11.54	11.85	12.23	12.70	12.65	11.00	11.71
26	11.73	.....	8.56	.....	11.13	11.54	12.04	12.24	12.89	12.67	11.00	11.76
27	11.70	.....	8.82	.....	11.04	11.70	12.11	12.12	12.84	12.66	10.96	11.80
28	11.40	.....	8.98	.....	10.95	11.90	12.07	12.02	12.68	12.58	11.28	11.86
29	11.65	.....	9.10	.....	10.87	11.87	12.06	12.34	12.85	12.45	11.43	11.96
30	11.60	.....	9.10	.....	10.86	11.87	11.82	12.28	13.22	12.45	11.51	11.89
31	11.67	.....	8.94	.....	11.04	.....	11.82	12.36	.....	12.57	.....	11.75

Mn-2. City of Marion. Lat. 40°35'46", long. 80°10'56". Drilled unused well in limestone, diameter 12 inches, depth 67 feet. Highest water level 31.14 below lsd, Apr. 16, 1951; lowest 48.45 below lsd, Dec. 23-24, 1955. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.46	45.82	45.78	.....	44.53	44.14	44.88	45.27	45.85	46.54	47.05	47.93
2	45.41	45.81	45.74	.....	44.51	44.17	44.87	45.41	45.80	46.44	47.16	48.00
3	45.37	45.76	45.75	.....	44.53	.....	44.85	45.52	45.83	46.49	47.21	48.00
4	45.41	45.78	45.69	.....	44.51	.....	44.71	45.58	45.82	45.82	47.31	48.00
5	45.45	45.79	45.69	.....	44.53	.....	44.65	45.67	45.77	46.59	47.35	48.00
6	45.47	45.80	45.65	44.13	44.51	.....	44.68	45.69	45.74	46.58	47.33	48.06
7	45.47	45.80	45.56	44.13	44.49	.....	44.72	45.63	45.90	46.62	47.35	48.10
8	45.48	45.82	45.50	44.23	44.43	.....	44.77	45.35	45.93	46.56	47.43	48.14
9	45.48	45.83	45.42	44.25	44.27	.....	44.78	45.60	45.97	46.52	47.48	48.19
10	45.48	45.89	45.36	44.17	44.21	.....	44.77	45.59	46.15	46.55	47.55	48.19
11	45.49	45.87	.....	44.07	44.25	.....	44.63	45.53	46.16	46.67	47.62	48.06
12	45.50	45.87	.....	44.13	44.26	.....	44.67	45.50	46.25	46.72	47.64	47.98
13	45.57	45.84	.....	44.20	44.23	.....	44.74	45.49	46.25	46.73	47.60	48.06
14	45.57	45.81	.....	44.26	44.20	.....	44.78	45.47	46.25	46.76	47.64	48.13
15	45.50	45.79	.....	44.30	44.20	44.93	44.82	45.40	46.30	46.76	47.72	48.18
16	45.46	45.83	.....	44.32	44.07	.....	44.83	45.46	46.40	46.65	47.76	48.22
17	45.43	45.86	.....	44.15	44.10	.....	44.82	45.55	46.43	46.66	47.80	48.23
18	45.43	45.87	.....	44.05	44.17	.....	44.72	45.60	46.49	46.80	47.85	48.21
19	45.40	45.90	.....	44.16	44.18	.....	44.79	45.65	46.58	46.83	47.86	48.17
20	45.46	45.92	.....	44.23	44.28	.....	44.84	45.69	46.62	46.90	47.77	48.25
21	45.53	45.73	.....	44.37	44.28	.....	44.92	45.68	46.64	46.97	47.72	48.32
22	45.57	45.94	45.50	44.43	44.25	.....	44.96	45.73	46.66	46.98	47.84	48.39
23	45.58	45.95	.....	44.42	44.05	.....	45.00	45.77	46.65	46.90	47.90	48.45
24	45.60	45.92	.....	44.38	44.16	.....	45.00	45.82	46.65	46.83	47.88	48.45
25	45.35	45.90	.....	44.35	44.25	.....	44.90	45.82	46.55	46.95	47.80	48.39

Mn-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	45.58	45.85	.....	44.35	44.30	.....	45.02	45.76	46.48	47.05	47.75	48.17
27	45.63	45.79	.....	44.35	44.35	.....	45.15	45.79	46.47	47.13	47.70	48.17
28	45.67	45.77	.....	44.38	44.42	.....	45.17	45.77	46.46	47.21	47.57	48.31
29	45.75			44.47	44.28	44.86	45.22	45.80	46.55	47.20	47.68	48.38
30	45.77			44.51	44.05	44.90	45.22	45.90	46.54	47.10	47.83	48.42
31	45.78			.....	43.95		45.17	45.90		46.95		48.39

Medina County

Md-1. City of Lodi. Lat. 41°01'46", long. 82°01'06". Drilled unused well in gravel, diameter 6 inches, depth 65 feet. Highest water level 9.00 below lsd, Mar. 2, 1952; lowest 29.90 below lsd, June 18, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.50	.....	.....	.....	.....	28.10	20.90	21.30	20.90	19.20	20.30	19.20
2	.....	.....	.....	.....	.....	27.40	20.70	21.30	21.00	20.20	20.00	19.20
3	.....	.....	.....	.....	.....	28.20	20.60	25.00	21.20	20.30	20.50	19.20
4	17.60	.....	.....	.....	.....	28.30	21.20	20.60	21.10	21.00	20.70	19.20
5	.....	.....	.....	.....	.....	29.00	21.20	20.60	20.70	21.00	20.90	18.90
6	17.30	.....	.....	.....	18.10	29.00	20.90	20.70	21.40	20.40	21.00	19.00
7	17.40	.....	.....	.....	18.40	28.40	20.30	20.20	21.20	20.90	20.70	18.60
8	17.30	.....	.....	.....	17.90	28.00	20.50	20.30	21.20	20.70	20.60	18.50
9	.....	.....	.....	.....	18.30	28.60	20.10	20.30	21.60	20.90	20.10	18.50
10	.....	.....	.....	.....	18.30	28.80	20.00	19.80	21.60	20.60	19.90	19.00
11	.....	.....	.....	.....	18.60	28.20	20.30	19.60	21.50	20.50	20.00	18.90
12	.....	.....	.....	.....	18.40	29.10	20.60	19.80	21.60	21.00	20.10	18.80
13	.....	.....	.....	.....	18.70	21.50	20.40	19.20	21.00	21.00	19.80	19.00
14	16.90	.....	.....	.....	18.40	29.20	20.50	19.30	21.10	21.00	20.20	18.60
15	17.00	.....	.....	.....	18.70	28.60	20.30	19.40	21.00	21.00	20.10	19.00
16	16.50	.....	.....	.....	19.00	29.80	20.40	19.70	21.00	20.50	19.50	19.20
17	.....	.....	.....	.....	19.90	28.10	20.50	20.10	21.30	22.70	19.30	19.10
18	.....	.....	.....	.....	28.40	29.90	20.80	20.00	21.80	20.70	19.40	19.20
19	.....	.....	.....	.....	29.00	25.90	20.80	19.70	22.00	20.70	19.20	19.00
20	.....	.....	.....	.....	27.60	26.50	20.80	19.80	21.50	20.30	19.10	19.30
21	.....	.....	.....	.....	28.30	26.10	20.90	19.70	21.40	20.50	19.10	18.90
22	.....	.....	.....	.....	21.30	25.70	20.90	20.00	20.80	20.40	18.80	19.00
23	.....	.....	.....	.....	28.70	26.60	20.90	19.90	21.00	20.60	18.90	18.70
24	.....	.....	.....	.....	28.80	21.10	20.60	19.60	20.30	20.30	18.50	19.30
25	.....	.....	.....	.....	26.70	23.20	20.70	20.30	20.10	24.60	18.70	18.50
26	.....	.....	.....	.....	28.20	20.40	20.60	20.00	20.10	24.20	19.10	18.60
27	.....	.....	.....	.....	28.30	20.80	20.80	19.70	20.10	20.60	18.50	19.30
28	.....	.....	.....	.....	28.20	20.50	20.80	19.80	19.60	20.20	19.60	19.00
29	.....	.....	.....	.....	28.00	21.00	20.70	24.60	19.90	20.10	19.60	.....
30	.....	.....	.....	.....	27.60	20.60	20.80	20.40	19.60	19.90	19.40	.....
31	.....	.....	.....	.....	20.60		20.80	20.70		19.90		.....

Mercer County

Mr-1. S. O. Self. Lat. 40°39'36", long. 84°38'56". Drilled unused well in limestone, diameter 4 inches, depth 130 feet. Highest water level 8.47 below lsd, Mar. 27, 1950; lowest 12.96 below lsd, Apr. 8, 1954. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	10.88	May 10	10.47	Aug. 2	11.17	Oct. 25	11.20
Feb. 16	10.60	June 7	10.54	24	11.08	Nov. 22	10.97
Mar. 19	10.72	July 6	11.01	Sept. 21	11.36	Dec. 21	10.91
Apr. 11	10.45						

Miami County

Mi-1. Troy Sunshade Co. 612 Grant St., Troy. Lat. 40°02', long. 84°13'. Drilled unused well in gravel, diameter 8 inches, depth 49 feet. Highest water level 7.15 below lsd, Feb. 26, 1951; lowest 15.40 below lsd, Jan. 21, 29, Feb. 12, 1954. Records available: 1946-55.

Mi-1--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	11.55	10.10	10.15	11.10	11.50	11.30	11.70	11.80	12.35	11.35
2	.....	.....	11.55	9.75	11.00	11.10	11.45	11.40	11.90	11.55	12.50	11.35
3	13.75	.....	11.45	9.30	10.85	11.15	11.20	11.45	11.70	11.65	12.35	10.90
4	14.05	.....	11.40	9.85	11.35	11.10	11.10	11.50	11.55	11.70	12.50	10.40
5	14.05	.....	11.00	10.05	11.10	10.80	11.30	11.55	11.50	11.70	12.10	11.00
6	14.05	.....	10.80	10.15	11.55	10.95	11.45	11.50	11.65	11.70	11.60	11.25
7	14.00	.....	10.60	10.25	11.65	11.00	11.45	11.25	11.90	11.65	12.20	11.30
8	13.70	.....	10.85	10.30	10.85	11.05	11.50	11.40	12.00	11.55	12.30	11.40
9	13.25	.....	10.90	10.00	11.65	11.15	11.40	11.55	12.05	11.30	12.35	11.60
10	13.55	.....	10.75	9.60	11.95	11.15	10.95	11.60	12.05	11.40	12.35	11.10
11	14.00	.....	10.70	10.05	12.15	11.05	11.10	11.65	11.75	11.50	12.45	10.65
12	13.75	.....	10.50	10.20	12.30	10.75	11.20	11.75	11.90	11.50	12.05	11.35
13	13.75	.....	10.10	10.25	12.15	10.85	11.30	11.70	11.95	11.55	11.60	11.50
14	13.75	.....	10.40	10.30	11.65	11.00	11.40	11.45	12.00	11.45	12.10	11.65
15	13.45	13.05	10.50	10.40	11.05	11.10	11.40	11.55	12.10	11.40	12.30	11.70
16	13.00	13.10	10.55	10.10	11.65	11.15	11.35	11.60	12.15	11.30	12.00	11.85
17	13.25	13.05	10.60	9.70	11.55	11.25	11.05	11.60	12.15	11.65	11.85	11.30
18	13.70	13.00	10.65	10.15	11.80	11.25	11.20	11.65	11.90	12.15	11.85	10.90
19	13.55	12.70	10.35	10.55	11.70	10.95	11.25	11.65	12.00	12.30	11.30	11.55
20	13.55	12.35	9.95	10.50	12.10	11.05	11.35	11.60	12.10	12.10	10.85	11.75
21	13.55	12.55	10.15	10.50	11.60	11.20	11.40	11.45	12.20	12.20	11.30	11.90
22	13.20	12.25	10.05	10.65	11.10	11.25	11.45	11.60	12.20	12.00	11.45	11.55
23	12.85	12.05	10.05	10.30	11.65	11.25	11.40	11.65	12.10	11.55	11.50	11.95
24	13.20	11.90	10.05	9.90	11.50	11.30	11.10	11.65	11.95	11.90	11.00	11.55
25	13.30	11.80	10.00	10.30	11.65	11.25	11.25	11.65	11.70	12.05	11.15	11.05
26	13.40	11.75	9.60	.....	11.65	10.95	11.30	11.65	11.80	12.15	10.80	10.90
27	13.45	11.60	9.25	10.65	11.85	11.05	11.40	11.65	11.85	12.25	10.30	11.05
28	13.50	11.65	9.70	.....	11.50	11.25	11.45	11.55	11.90	12.60	10.90	11.15
29	13.20	.....	9.85	10.75	11.05	11.35	11.45	11.60	11.95	12.20	.....	11.20
30	12.90	.....	10.00	10.55	10.85	11.40	11.40	11.60	11.80	11.70	11.30	11.20
31	13.25	.....	10.00	.....	11.00	.....	11.15	11.55	.....	12.10	.....	11.15

Montgomery County

Mt-2. Dayton Power & Light Co. 118 East Fourth St. Lat. 39°45', long. 84°11'. Drilled unused well in gravel, diameter 8 inches, depth 57 feet. Highest water level 20.97 below lsd, Mar. 25, 1943; lowest 43.30 below lsd, Aug. 27, 1955. Records available: 1942-55.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.35	36.90	35.95	34.15	35.85	37.80	40.05	41.65	43.00	42.35	39.00	34.87
2	38.00	37.00	35.80	34.15	35.75	37.95	40.00	41.85	42.90	42.15	39.00	34.95
3	37.75	37.10	35.70	34.10	35.95	38.15	39.90	42.05	42.75	41.65	39.05	34.90
4	37.80	37.15	35.65	34.05	36.10	38.25	39.50	42.25	42.55	41.75	39.00	34.75
5	37.80	37.15	35.60	34.15	36.30	38.25	39.40	42.35	42.10	41.85	38.95	34.65
6	37.85	37.15	35.40	34.25	36.45	38.15	39.55	42.40	41.95	41.90	38.75	34.65
7	37.80	37.15	35.10	34.40	36.50	38.30	39.70	42.40	42.05	41.95	38.40	34.70
8	37.60	37.20	34.95	34.45	36.50	38.45	39.90	42.25	42.10	41.90	38.40	34.75
9	37.40	37.30	35.00	34.50	36.30	38.55	39.90	42.45	42.25	41.65	38.40	34.75
10	37.10	37.45	35.00	34.50	36.40	38.65	39.90	42.55	42.25	41.05	38.40	34.75
11	36.90	37.50	35.10	34.40	36.55	38.65	39.65	42.65	42.20	41.10	38.45	34.60
12	36.85	37.50	35.10	34.55	36.60	38.55	39.80	42.75	41.70	41.00	38.45	34.40
13	36.80	37.40	35.05	34.70	36.70	38.20	39.90	42.75	41.75	40.95	38.35	34.45
14	36.80	37.15	34.75	34.85	36.75	38.30	40.05	42.65	41.90	40.85	38.25	34.55
15	36.70	37.15	34.85	34.95	36.75	38.40	40.20	42.35	42.05	40.75	38.25	34.55
16	36.65	37.20	34.85	35.00	36.75	38.60	40.25	42.55	42.20	40.50	38.45	34.55
17	36.50	37.25	34.80	35.00	36.90	38.80	40.25	42.70	42.15	40.00	38.35	34.55
18	36.55	37.25	34.70	35.00	37.00	38.90	40.20	42.85	42.15	40.00	38.15	34.40
19	36.60	37.25	34.65	35.20	37.15	38.80	40.40	42.95	42.00	39.95	37.80	34.30
20	36.65	37.15	34.55	35.40	37.30	38.90	40.60	43.00	42.30	39.90	37.30	34.40
21	36.65	37.10	34.50	35.55	37.40	39.20	40.70	43.00	42.50	39.85	36.75	34.40
22	36.65	37.00	34.50	35.65	37.40	39.45	40.85	42.80	42.70	39.80	36.50	34.40
23	36.65	36.90	34.45	35.70	37.40	39.60	40.95	43.00	42.80	39.60	36.40	34.55
24	36.55	36.75	34.45	35.65	37.70	39.75	40.95	43.10	42.80	39.20	36.25	34.50
25	36.70	36.60	34.35	35.50	37.90	39.75	40.80	43.20	42.75	39.15	35.85	34.40

Mt-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	36.75	36.45	34.30	35.60	38.10	39.65	41.00	43.25	42.25	39.20	35.65	34.25
27	36.85	36.30	34.15	35.60	38.30	39.45	41.30	43.20	42.25	39.20	35.40	34.25
28	36.90	35.95	33.95	35.65	38.30	39.60	41.50	43.15	42.30	39.20	35.05	34.30
29	36.90		34.00	35.80	38.30	39.50	41.75	42.95	42.30	39.15	35.00	34.45
30	36.85		34.05	35.85	37.90	39.85	41.75	43.05	42.40	39.10	34.95	34.50
31	36.75		34.10		37.65		41.75	43.10		38.90		34.45

Mt-3. State of Ohio. State Highway Dept. Stewart St., Patterson Blvd., and Miami River. Lat. 39°44', long. 84°12'. Drilled unused well in gravel, diameter 6 inches, depth 80 feet. Highest water level 34.53 below lsd, Aug. 17, 1947; lowest 63.15 below lsd, Sept. 30, Oct. 1, 1955. Records available: 1945-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	56.10	56.30	55.30	54.80	56.00	57.20	60.10	.....	61.90	63.15	61.66	.....
2	55.40	56.65	.....	54.80	55.80	57.55	60.15	.....	62.20	62.70	61.90	.....
3	.....	56.90	55.30	54.30	56.15	58.00	59.70	60.30	62.20	62.05	61.94	.....
4	55.60	56.90	55.75	54.55	56.55	58.00	.....	60.25	61.90	62.15	61.95	.....
5	56.10	56.55	55.70	54.90	56.95	57.65	.....	59.90	61.25	62.40	61.79	.....
6	56.55	56.35	.....	.....	57.35	57.40	.....	59.65	60.85	62.70	61.35	.....
7	56.50	56.50	.....	.....	57.25	57.75	.....	59.20	61.15	62.95	60.84	.....
8	56.35	56.70	.....	.....	56.60	58.10	.....	.....	61.50	62.95	60.78	.....
9	55.70	57.05	.....	.....	56.30	58.45	.....	.....	61.85	62.50	60.76	.....
10	55.35	.....	.....	.....	56.55	58.70	.....	.....	61.85	61.85	60.98	.....
11	55.50	.....	55.75	.....	56.85	58.75	.....	.....	61.55	61.95	61.26	.....
12	55.70	57.20	55.75	54.50	57.15	.....	.....	.....	61.20	62.20	61.24	.....
13	56.00	.....	55.30	54.95	57.45	.....	60.55	.....	61.50	62.35	60.85	.....
14	56.10	.....	.....	55.35	57.45	.....	60.85	.....	61.85	62.55	60.40	.....
15	56.05	.....	55.25	55.60	.....	.....	61.10	.....	62.25	62.55	60.70	.....
16	55.65	56.75	55.50	55.60	.....	.....	61.05	.....	62.45	62.20	60.83	.....
17	55.50	56.90	55.50	55.05	.....	58.90	60.75	.....	62.50	61.75	60.25	.....
18	55.65	57.20	55.60	54.80	56.90	58.95	.....	59.00	62.25	61.90	59.42	.....
19	55.90	57.15	55.60	55.20	57.25	.....	60.65	59.60	61.85	62.10	58.95	.....
20	56.15	56.70	55.10	55.60	57.70	.....	60.90	59.75	62.15	62.25	.....	.....
21	56.30	56.35	54.70	56.05	57.70	.....	61.20	59.70	62.50	62.50	.....	.....
22	56.30	56.25	54.80	56.45	57.15	58.90	.....	59.55	62.75	62.50	.....	.....
23	55.95	56.05	54.65	56.40	56.95	59.25	.....	60.05	63.00	62.20	.....	.....
24	55.65	56.00	54.70	55.85	57.35	59.50	.....	60.45	63.05	61.55	.....	.....
25	55.85	56.05	54.70	.....	57.75	59.45	.....	60.90	62.75	61.57	.....	.....
26	56.10	56.00	54.70	.....	58.05	58.80	.....	61.35	62.25	61.78	.....	.....
27	56.35	55.45	54.05	55.95	58.35	58.65	.....	61.40	62.40	62.08	.....	.....
28	56.55	.....	53.65	56.30	58.35	59.10	.....	61.10	62.65	62.41	.....	54.60
29	56.60	.....	53.75	56.70	57.80	59.35	.....	60.85	62.90	62.43	.....	54.93
30	56.25	.....	54.00	56.60	57.15	59.70	.....	61.25	63.15	62.19	.....	54.94
31	56.00	.....	54.45	.....	56.85	.....	.....	61.60	.....	61.56	.....	54.48

Mt-6. City of Dayton. Third and Ludlow Sts. Lat. 39°46', long. 84°12'. Drilled unused well in gravel, diameter 8 inches, depth 60 feet. Highest water level 23.70 below lsd, Feb. 20, 1950; lowest 46.05 below lsd, Aug. 23, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.05	38.20	38.30	35.00	36.80	40.20	43.05	45.00	45.00	42.85	39.85	35.00
2	38.70	38.30	36.00	35.20	37.05	40.40	43.00	45.15	45.25	42.45	39.85	35.25
3	38.70	38.20	35.80	34.95	37.30	40.65	42.65	45.25	44.65	42.05	39.80	35.45
4	38.60	38.25	35.95	35.30	37.50	40.65	42.40	45.35	43.90	42.10	39.70	35.20
5	38.55	38.30	35.80	35.40	38.65	40.45	43.05	45.50	44.10	42.15	39.60	35.45
6	38.45	38.25	35.45	35.65	39.25	40.90	43.25	45.55	44.50	42.35	39.40	35.45
7	38.15	38.30	35.15	35.65	38.85	41.10	43.45	45.45	44.70	42.30	38.95	35.10
8	37.80	38.35	35.10	35.60	37.90	41.10	43.65	45.50	44.25	42.05	38.95	35.45
9	37.50	38.60	35.35	35.70	37.65	41.15	43.60	45.50	44.70	41.70	38.85	35.30
10	37.10	38.70	35.35	35.60	37.65	41.15	42.95	45.65	44.70	41.30	38.95	35.55
11	37.00	38.50	35.65	35.90	37.75	41.00	43.25	45.85	43.80	41.25	39.00	35.30
12	36.80	38.45	35.60	36.00	37.80	40.00	43.20	45.75	43.00	41.20	39.10	35.15
13	36.85	38.30	35.55	36.15	37.90	40.55	43.10	45.75	43.20	41.05	38.95	35.15
14	36.80	38.35	35.40	36.25	37.95	39.35	43.10	44.70	43.15	40.95	38.95	35.25
15	36.90	38.30	35.55	36.00	37.90	40.60	43.30	45.00	44.05	40.85	39.05	35.30

Mt-6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	36.85	38.35	35.55	36.25	38.00	41.90	43.40	45.30	44.45	40.55	39.15	35.35
17	37.15	38.40	35.20	36.10	38.00	41.30	43.05	45.60	44.55	40.25	38.95	35.55
18	37.40	38.35	35.15	36.25	38.00	41.45	43.55	45.85	43.65	40.40	38.40	35.30
19	37.30	38.35	35.40	36.50	38.15	41.00	43.65	45.90	44.60	40.35	37.70	35.35
20	37.35	38.35	35.25	36.65	38.40	41.55	43.75	45.95	44.80	40.35	36.85	35.35
21	37.40	38.30	35.60	36.65	38.60	41.85	43.75	45.90	44.85	40.40	36.15	35.35
22	37.45	38.05	35.55	36.70	38.55	42.10	43.85	45.75	45.05	40.20	36.00	35.50
23	37.45	37.55	35.35	36.75	40.00	42.25	43.95	46.05	45.30	39.90	36.05	35.85
24	37.45	37.05	35.00	36.40	40.45	42.45	43.85	45.85	44.70	39.90	36.00	35.95
25	37.55	36.70	34.95	36.50	40.60	42.25	43.90	45.85	44.20	39.75	35.35	35.70
26	37.60	36.55	34.55	36.55	40.70	41.20	44.15	45.60	43.55	39.90	35.45	35.45
27	37.70	36.25	34.45	36.60	41.00	42.10	44.45	45.15	42.90	40.15	35.15	35.60
28	37.80	36.30	34.35	36.70	40.90	42.40	44.60	45.15	42.85	40.30	35.00	35.50
29	37.90		34.70	36.90	39.65	42.60	44.25	45.40	42.95	40.20	35.25	35.90
30	37.85		34.85	37.05	39.10	42.85	44.90	45.85	42.90	40.25	35.05	35.85
31	37.95		34.90		39.90		44.75	45.75		39.60		35.60

Mt-49. E. F. Stenger. Lat. 39°40'20", long. 84°16'30". Drilled unused well in gravel, diameter 6 inches, depth 212 feet. Highest water level 10.82 below lsd, Feb. 18, 1950; lowest 21.82 below lsd, Dec. 24, 1954. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.48	21.06	19.09	17.26	17.86	18.70	19.28	19.54	20.52	20.80	20.66	18.60
2	21.43	21.09	18.92	17.25	17.89	18.75	19.29	19.58	20.55	20.77	20.66	18.60
3	21.37	21.10	18.80	17.26	17.93	18.78	19.29	19.63	20.57	20.74	20.65	18.60
4	21.36	21.11	18.77	17.28	17.97	18.78	19.26	19.68	20.57	20.75	20.63	18.59
5	21.34	21.10	18.71	17.31	18.00	18.80	19.27	19.72	20.57	20.75	20.55	18.59
6	21.29	21.08	18.55	17.34	18.04	18.83	19.29	19.73	20.61	20.75	20.51	18.59
7	21.12	20.97	18.47	17.40	18.05	18.85	19.30	19.75	20.66	20.75	20.50	18.60
8	20.95	20.88	18.42	17.43	18.08	18.87	19.33	19.80	20.69	20.72	20.51	18.62
9	20.88	20.82	18.37	17.44	18.10	18.90	19.34	19.84	20.72	20.64	20.51	18.67
10	20.87	20.78	18.36	17.45	18.13	18.90	19.24	19.88	20.73	20.58	20.53	18.67
11	20.87	20.70	18.32	17.47	18.17	18.89	19.16	19.91	20.68	20.58	20.55	18.67
12	20.85	20.54	18.28	17.50	18.20	18.90	19.18	19.95	20.72	20.58	20.56	18.68
13	20.85	20.52	18.15	17.50	18.22	18.91	19.20	19.97	20.75	20.57	20.57	18.70
14	20.85	20.48	18.11	17.50	18.23	18.93	19.21	19.99	20.78	20.58	20.58	18.72
15	20.85	20.47	18.08	17.54	18.24	18.96	19.24	20.02	20.81	20.58	20.58	.....
16	20.84	20.47	18.12	17.55	18.28	18.99	19.24	20.06	20.84	20.57	20.57	.....
17	20.87	20.44	18.12	17.58	18.32	19.02	19.25	20.10	20.86	20.56	19.92	18.72
18	20.88	20.33	18.11	17.61	18.35	19.03	19.26	20.13	20.86	20.56	19.23	18.80
19	20.91	20.29	18.11	17.65	18.40	19.03	19.26	20.16	20.88	20.55	19.03	18.84
20	20.91	20.25	18.12	17.66	18.43	19.05	19.23	20.15	20.92	20.54	18.92	18.86
21	20.91	20.15	18.09	17.67	18.45	19.07	19.25	20.19	20.95	20.55	18.86	18.87
22	20.92	19.78	17.90	17.67	18.45	19.11	19.28	20.20	20.94	20.55	18.83	18.88
23	20.92	19.51	17.57	17.68	18.47	19.11	19.29	20.24	20.94	20.54	18.80	18.90
24	20.94	19.46	17.42	17.65	18.50	19.12	19.30	20.28	20.88	20.56	18.73	18.90
25	20.96	19.44	17.42	17.69	18.56	19.12	19.34	20.32	20.85	20.57	18.65	18.93
26	20.98	19.40	17.33	17.72	18.58	19.13	19.38	20.34	20.83	20.58	18.62	18.93
27	20.98	19.31	17.31	17.75	18.62	19.16	19.42	20.35	20.83	20.59	18.59	18.97
28	21.00	19.17	17.29	17.79	18.62	19.18	19.44	20.36	20.84	20.61	18.56	18.98
29	21.01		17.28	17.83	18.61	19.21	19.47	20.40	20.85	20.62	18.58	19.01
30	21.03		17.28	17.85	18.63	19.24	19.48	20.45	20.82	20.62	18.60	19.03
31	21.04		17.27		18.67		19.49	20.49		20.64		19.03

Muskingum County

Mu-1a. City of Zanesville. Lat. 39°57'15", long. 81°59'30". Drilled unused well in gravel, diameter 6 inches, depth 135 feet. Highest water level 11.40 below lsd, Mar. 29, 1945; lowest 37.25 below lsd, Aug. 1-2, 1954. Records available: 1942-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.65	31.05	29.40	24.45	24.90	28.90	31.30	32.75	32.75	33.20	31.25	30.15
2	30.10	31.30	29.30	24.50	24.90	29.00	31.85	33.20	32.50	32.95	31.15	30.10
3	30.10	31.60	28.50	24.55	24.95	29.35	32.45	33.75	32.50	32.80	31.40	30.15
4	29.95	31.80	28.80	24.30	25.05	29.50	32.50	34.20	32.40	32.80	31.55	29.85
5	29.95	31.85	28.55	24.60	25.60	29.35	32.15	34.35	32.50	32.80	31.35	30.10

Mu-1a--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	29.80	31.85	27.85	24.80	25.95	29.85	31.95	34.35	32.85	32.70	28.70	30.05
7	29.85	32.05	27.65	25.15	26.25	29.90	31.90	34.30	32.85	32.80	28.15	30.10
8	29.55	32.15	.....	25.30	26.05	29.30	31.85	33.85	33.50	32.95	27.75	30.00
9	29.45	32.30	27.80	25.30	25.60	29.55	31.65	33.25	33.30	32.65	30.55	30.50
10	.....	32.40	27.45	25.70	25.95	29.35	31.55	33.50	33.25	32.65	31.20	30.85
11	.....	32.35	27.30	25.55	26.95	29.45	31.10	33.10	33.25	32.25	31.25	30.80
12	29.50	32.40	27.30	25.65	27.10	28.90	31.25	33.20	33.20	32.00	31.40	31.05
13	29.55	32.30	26.85	25.75	26.75	29.30	31.05	33.15	33.10	32.05	30.50	30.55
14	29.55	31.80	26.35	25.50	26.90	29.60	31.45	32.75	33.00	32.00	31.40	31.40
15	29.80	31.85	25.80	25.65	26.65	29.50	31.65	32.45	32.25	32.05	31.30	31.50
16	29.70	31.80	25.80	25.35	26.65	29.25	31.65	32.75	32.75	31.85	31.40	31.85
17	.....	31.55	25.70	25.30	27.05	29.55	31.55	32.90	33.90	31.80	31.15	31.90
18	.....	31.70	24.90	25.25	27.45	29.80	31.45	32.80	34.25	31.60	31.15	31.90
19	.....	31.70	24.70	24.50	27.35	29.90	31.45	33.30	33.95	31.70	30.55	31.95
20	.....	31.75	24.70	24.65	27.40	30.40	32.05	33.50	33.95	31.70	30.30	29.45
21	.....	31.45	24.35	24.85	27.60	30.70	32.25	33.70	34.30	31.75	30.30	32.20
22	.....	31.35	24.55	25.30	27.40	30.65	32.40	33.35	34.45	31.80	30.10	32.60
23	.....	31.15	24.45	25.40	27.90	30.65	32.70	32.85	34.20	31.70	30.05	32.25
24	.....	31.00	24.35	24.70	28.35	30.40	32.60	32.70	34.20	31.50	29.55	32.10
25	.....	30.65	24.00	25.35	28.30	30.70	32.20	.....	33.90	31.30	29.55	31.90
26	.....	30.25	23.80	25.50	28.35	30.70	32.25	32.75	33.20	31.55	29.80	31.65
27	.....	29.25	23.55	25.40	28.50	30.60	32.65	.....	33.15	31.75	29.70	32.05
28	.....	29.40	23.65	25.40	28.85	30.60	32.80	.....	32.65	31.35	29.60	32.40
29	.....	.....	23.80	25.55	28.60	30.65	32.85	32.40	32.75	31.10	29.60	32.40
30	.....	.....	24.00	25.20	28.35	31.05	.....	32.70	33.00	31.50	30.20	32.85
31	.....	.....	24.20	.....	28.70	.....	32.10	32.80	.....	31.40	.....	33.05

Mu-2. State of Ohio. Zanesville. Lat. 39°57'00", long. 82°01'30". Drilled test well in gravel, diameter 6 inches, depth 54 feet. Highest water level 0.00, Jan. 27, 1952; lowest 9.03 below lsd, Sept. 28-Oct. 3, 1954. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.85	8.45	6.46	6.75	7.43	8.20	8.54	8.59	8.78	8.91	8.73	8.48
2	7.92	8.44	6.38	6.84	7.49	8.23	8.58	8.60	8.78	8.92	8.72	8.48
3	7.95	8.47	6.43	6.97	7.54	8.25	8.60	8.62	8.80	8.92	8.67	8.48
4	7.98	8.48	6.45	7.06	7.57	8.26	8.53	8.64	8.82	8.91	8.68	8.47
5	7.98	8.46	5.38	7.13	7.63	8.27	8.53	8.66	8.83	8.90	8.67	8.43
6	7.94	8.55	5.81	7.14	7.68	8.28	8.54	8.62	8.84	8.87	8.66	8.40
7	7.67	7.84	6.10	7.16	7.71	8.28	8.27	8.60	8.84	8.84	8.64	8.42
8	7.67	7.56	6.31	7.25	7.76	8.26	8.31	8.62	8.86	8.82	8.68	8.45
9	7.75	7.58	6.35	7.32	7.80	8.28	8.32	8.64	8.87	8.84	8.71	9.50
10	7.82	7.52	6.32	7.36	7.80	8.28	8.24	8.65	8.88	8.85	8.72	8.55
11	7.92	7.14	6.23	7.38	7.81	8.27	8.28	8.65	8.88	8.86	8.77	8.57
12	7.94	7.16	6.19	7.38	7.83	8.24	8.32	8.55	8.89	8.85	8.79	8.58
13	7.99	7.30	6.21	7.39	7.83	8.26	8.36	8.58	8.89	8.85	8.80	8.59
14	8.02	7.39	6.23	7.32	7.81	8.29	8.37	8.61	8.89	8.84	8.80	8.59
15	8.06	7.49	6.23	7.10	7.83	8.33	8.38	8.65	8.89	8.85	8.79	8.60
16	8.10	7.50	6.28	7.13	7.87	8.35	8.40	8.66	8.90	8.85	8.78	8.62
17	8.16	7.41	6.44	7.22	7.91	8.38	8.46	8.67	8.92	8.82	7.81	8.62
18	8.20	7.13	6.53	7.27	7.94	8.40	8.49	8.71	8.93	8.82	8.07	8.63
19	8.23	7.11	6.65	7.30	7.95	8.40	8.50	8.73	8.93	8.84	8.15	8.67
20	8.26	7.10	6.80	7.31	8.00	8.42	8.52	8.75	8.93	8.85	8.20	8.67
21	8.26	7.01	6.80	7.32	8.03	8.40	8.53	8.75	8.93	8.86	8.27	8.67
22	8.30	6.61	6.18	7.32	8.05	8.38	8.55	8.74	8.93	8.86	8.28	8.66
23	8.32	6.19	5.68	7.21	8.05	8.40	8.56	8.61	8.93	8.86	8.30	8.67
24	8.32	6.36	5.89	7.21	8.04	8.41	8.55	8.61	8.90	8.85	8.30	8.68
25	8.37	6.47	6.01	7.02	8.08	8.42	8.57	8.65	8.92	8.85	8.26	8.72
26	8.38	6.61	6.15	7.00	8.10	8.44	8.58	8.67	8.93	8.84	8.29	8.73
27	8.40	6.61	6.30	7.08	8.13	8.47	8.60	8.69	8.92	8.85	8.32	8.74
28	8.41	6.46	6.37	7.16	8.16	8.49	8.53	8.71	8.88	8.81	8.37	8.74
29	8.42	.....	6.46	7.26	8.12	8.50	8.49	8.72	8.88	8.77	8.45	8.74
30	8.46	.....	6.54	7.36	8.15	8.51	9.53	8.73	8.89	8.73	8.49	8.74
31	8.46	.....	6.65	.....	8.18	.....	8.56	8.75	.....	8.73	.....	8.74

Portage County

Po-1. Edward Tiddle. Lat. 41°14'06", long. 81°02'48". Drilled unused well in sandstone, diameter 6 inches, depth 55 feet. Highest water level 14.49 below lsd, June 13, 1947; lowest 23.08 below lsd, Feb. 22, 1954. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.12	20.77	20.43	19.95	19.42	19.70	20.05	20.65	21.15	21.66	21.75	21.67
2	21.17	20.84	20.45	19.91	19.36	19.72	20.04	20.69	21.15	21.64	21.73	21.58
3	21.17	20.86	20.44	19.93	19.35	19.74	20.05	20.70	21.19	21.64	21.80	21.56
4	21.08	20.87	20.32	19.95	19.36	19.71	20.04	20.70	21.19	21.62	21.79	21.55
5	21.06	20.79	20.32	19.92	19.38	19.73	20.02	20.73	21.19	21.62	21.79	21.55
6	21.02	20.72	20.29	19.86	19.39	19.76	20.05	20.73	21.19	21.61	21.74	21.55
7	21.02	20.75	20.31	19.90	19.38	19.76	20.06	20.73	21.24	21.64	21.78	21.54
8	20.96	20.75	20.30	19.90	19.42	19.73	20.10	20.79	21.29	21.64	21.78	21.35
9	20.94	20.73	20.25	19.89	19.44	19.77	20.11	20.79	21.30	21.63	21.78	21.60
10	20.95	20.71	20.25	19.86	19.37	19.77	20.14	20.79	21.29	21.61	21.75	21.66
11	20.93	20.70	20.18	19.82	19.41	19.71	20.19	20.80	21.31	21.62	21.81	21.66
12	20.90	20.76	20.18	19.84	19.38	19.68	20.22	20.80	21.36	21.59	21.82	21.66
13	20.90	20.77	20.20	19.83	19.35	19.70	20.23	20.79	21.35	21.62	21.81	21.65
14	20.90	20.69	20.18	19.80	19.37	19.71	20.25	20.83	21.33	21.62	21.78	21.61
15	20.86	20.67	20.08	19.84	19.38	19.73	20.28	20.83	21.37	21.62	21.77	21.59
16	20.86	20.68	20.14	19.82	19.33	19.71	20.31	20.81	21.40	21.63	21.68	21.59
17	20.88	20.70	20.15	19.76	19.37	19.73	20.32	20.82	21.42	21.62	21.70	21.54
18	20.87	20.69	20.09	19.75	19.39	19.75	20.33	20.89	21.42	21.68	21.69	21.56
19	20.87	20.65	20.09	19.69	19.37	19.71	20.38	20.92	21.40	21.70	21.68	21.60
20	20.87	20.63	20.07	19.64	19.40	19.72	20.40	20.92	21.45	21.70	21.68	21.58
21	20.81	20.62	19.97	19.60	19.41	19.76	20.43	20.91	21.52	21.72	21.66	21.54
22	20.81	20.57	19.99	19.55	19.40	19.83	20.45	20.92	21.56	21.72	21.64	21.50
23	20.81	20.58	20.03	19.55	19.43	19.85	20.48	20.97	21.56	21.66	21.67	21.50
24	20.78	20.56	20.05	19.50	19.44	19.88	20.51	20.98	21.56	21.70	21.68	21.53
25	20.79	20.55	20.04	19.48	19.53	19.90	20.53	20.99	21.57	21.70	21.62	21.57
26	20.80	20.50	20.00	19.49	19.55	19.92	20.53	20.99	21.57	21.69	21.59	21.56
27	20.81	20.46	20.03	19.48	19.57	19.97	20.53	21.00	21.54	21.70	.....	21.56
28	20.77	20.44	20.02	19.43	19.58	20.00	20.56	21.00	21.57	21.69	21.59	21.54
29	20.78		20.03	19.43	19.59	20.02	20.60	20.99	21.57	21.68	.....	21.50
30	20.82		20.03	19.42	19.62	20.04	20.63	21.06	21.63	21.67	21.67	21.55
31	20.81		19.97		19.67		20.64	21.15		21.75		21.55

Po-2. City of Kent. Lat. 41°08'43", long. 81°22'08". Drilled unused well in gravel, diameter 10 inches, depth 65 feet. Highest water level 10.67 below lsd, June 9, 1947; lowest 26.25 below lsd, Feb. 11-12, 1954. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.10	25.70	25.85	22.45	19.15	19.70	20.70	21.00	.....	.....	24.15	23.15
2	24.75	25.80	25.80	22.35	18.50	19.85	20.40	21.15	.....	.....	24.20	23.00
3	24.60	25.90	25.75	22.20	18.50	20.00	20.20	21.20	.....	22.65	23.30	24.15
4	25.00	25.95	25.85	22.20	19.70	20.00	20.90	21.45	.....	23.35	24.10	24.50
5	25.05	26.00	25.80	22.20	20.35	20.00	20.10	21.50	.....	23.40	24.25	24.55
6	25.10	26.00	25.80	22.20	20.65	20.45	20.30	21.55	22.35	23.60	24.30	23.50
7	25.15	26.00	25.55	22.20	20.70	20.75	20.35	21.45	22.40	23.70	24.40	24.20
8	25.25	26.10	25.55	22.20	19.40	20.75	20.35	21.40	22.55	23.80	23.30	24.50
9	25.30	26.10	25.60	22.15	20.00	20.25	20.40	21.45	22.60	23.80	24.30	24.45
10	25.20	.....	25.60	22.05	20.05	20.15	20.25	21.50	22.75	23.65	23.35	24.55
11	25.35	.....	25.50	21.90	19.75	20.00	20.50	21.50	22.70	23.60	24.30	24.55
12	25.40	.....	25.35	21.90	20.10	20.10	20.55	21.60	22.45	23.80	24.55	24.60
13	25.50	26.10	25.30	21.95	20.20	20.10	20.60	21.60	.....	23.90	24.70	23.65
14	25.75	25.85	25.10	22.00	20.80	19.60	20.70	21.40	.....	23.95	24.75	23.45
15	25.80	26.10	25.10	21.80	19.70	19.65	20.80	21.40	.....	24.00	24.50	23.75
16	25.65	.....	25.00	21.85	20.20	19.65	20.85	21.45	.....	23.90	24.45	23.40
17	25.40	.....	24.70	21.70	20.35	19.70	20.75	21.55	.....	23.65	23.45	24.70
18	25.55	.....	24.60	21.55	20.40	19.80	20.70	21.60	.....	23.70	24.30	24.85
19	25.50	.....	24.35	21.55	20.60	19.80	20.80	21.75	.....	23.85	24.50	24.90
20	25.60	.....	24.20	21.40	20.70	20.20	20.85	21.85	.....	24.00	24.70	24.85
21	25.65	26.05	23.95	21.40	20.80	20.25	20.95	21.95	.....	24.05	24.75	25.00
22	25.65	26.10	23.85	21.40	20.85	20.30	21.10	22.05	.....	24.10	23.55	25.20
23	25.55	26.05	23.75	21.20	20.60	20.05	21.15	22.10	.....	24.15	23.25	25.30
24	25.40	26.10	23.70	21.10	20.65	20.10	21.05	22.10	.....	24.20	24.20	25.40
25	25.55	.....	23.60	20.70	20.20	20.15	20.60	22.10	.....	24.10	24.30	25.40

Po-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	25.70	.....	23.35	20.75	20.15	20.10	20.70	22.15	.....	24.20	24.30	25.25
27	25.75	26.10	23.20	20.80	20.15	20.35	20.80	22.20	.....	23.65	24.40	25.30
28	25.80	25.80	22.85	20.95	20.15	20.45	20.85	.....	.....	24.10	24.50	25.35
29	25.80		22.80	19.50	20.00	20.60	20.95	.....	.....	24.25	24.35	25.40
30	25.60		22.75	19.00	19.95	20.75	21.00	.....	.....	24.20	24.20	25.40
31	25.40		22.55		19.60		21.00	.....		24.20		25.40

Po-4. U. S. Army Engineer Corps. Ravenna Ordnance Plant. Lat. 41°11', long. 81°06'. Drilled unused well in sandstone, diameter 12 inches, depth 225 feet. Highest water level 24.15 below lsd, May 4, 1951; lowest 35.35 below lsd, Feb. 17, 1954. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.05	32.20	31.05	29.30	28.35	29.35	29.30	30.25	31.10	31.95	32.20	32.30
2	33.15	32.60	31.20	29.10	28.20	29.45	29.50	30.25	31.10	31.90	32.10	32.00
3	33.10	32.70	31.20	29.15	28.25	29.45	29.50	30.20	31.05	31.90	32.25	31.95
4	32.85	32.70	30.95	29.35	28.20	29.35	29.40	30.30	31.05	31.80	32.20	31.85
5	32.75	32.35	31.00	29.25	28.15	29.35	29.45	30.40	31.05	31.80	32.10	31.95
6	32.70	32.00	30.85	29.05	28.35	29.35	29.40	30.30	31.05	31.80	32.10	31.95
7	32.95	32.30	30.85	29.40	28.35	29.30	29.50	30.35	31.15	31.85	32.10	31.80
8	32.70	32.30	30.85	29.40	28.45	29.35	29.55	30.40	31.25	32.00	32.15	31.85
9	32.45	32.25	30.60	29.40	28.60	29.40	29.55	30.45	31.30	32.00	32.15	32.00
10	32.60	32.15	30.65	29.30	28.45	29.40	29.60	30.45	31.25	31.95	32.00	32.10
11	32.60	32.05	30.60	29.20	28.55	29.35	29.70	30.45	31.25	31.95	32.15	32.00
12	32.60	32.35	30.60	29.15	28.60	29.25	29.75	30.50	31.40	31.85	.....	32.00
13	33.60	32.50	30.65	29.10	28.55	29.40	29.80	30.40	31.40	31.90	.....	32.00
14	32.65	32.15	30.70	28.95	28.60	29.45	29.75	30.60	31.30	31.85	.....	31.90
15	32.20	31.90	30.15	29.20	28.65	29.50	30.65	30.55	31.35	31.90	32.20	31.85
16	32.35	31.95	30.15	29.35	28.55	29.40	29.70	30.55	31.40	31.90	32.15	32.00
17	32.55	32.25	30.35	29.20	28.75	29.45	29.80	30.45	31.50	31.85	32.40	31.85
18	32.55	32.25	30.00	29.20	28.75	29.45	29.90	30.40	31.40	32.00	32.40	31.95
19	32.40	31.95	30.10	28.90	28.65	29.25	30.00	30.60	31.25	32.15	32.30	32.10
20	32.65	31.85	30.00	28.90	28.85	29.10	30.00	30.60	31.50	32.15	32.35	32.05
21	32.40	31.85	29.65	28.70	29.00	29.20	29.95	30.65	31.50	32.25	32.20	31.95
22	32.15	31.85	29.25	28.65	28.85	29.15	29.95	30.65	31.60	32.25	32.20	31.75
23	32.35	31.90	29.55	28.40	28.80	29.15	29.80	30.75	31.60	32.10	32.25	31.80
24	32.35	31.95	29.60	28.30	28.80	29.20	29.85	30.85	31.65	32.20	32.35	31.85
25	32.30	31.95	29.60	28.30	29.10	.....	30.00	30.85	31.75	32.20	32.30	32.20
26	32.35	31.75	29.40	28.45	29.15	.....	30.05	30.80	31.75	32.10	32.05	32.25
27	32.40	31.35	29.55	28.45	29.10	.....	30.05	30.75	31.65	32.20	31.95	32.15
28	32.40	31.30	29.55	28.45	29.15	.....	30.15	30.80	31.65	32.10	31.95	32.10
29	32.40		29.65	28.35	29.00	.....	30.20	30.80	31.70	32.05	32.20	31.95
30	32.35		29.65	28.40	29.15	29.30	30.20	30.90	31.80	32.05	32.30	31.95
31	32.30		29.45		29.35		30.20	31.05		32.20		31.85

Putnam County

Pu-1. City of Columbus Grove. Lat. 40°55'10", long. 84°03'20". Drilled unused well in limestone, diameter 6 inches, depth 110 feet. Highest water level 7.34 below lsd, Jan. 7, 1950; lowest 23.30 below lsd, Aug. 30, 1953. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.45	12.05	.....	11.10	11.45	.....	16.00	14.40	15.70	16.60	16.05	13.80
2	11.65	12.60	.....	11.40	12.20	.....	16.70	14.50	16.70	16.70	15.70	13.45
3	11.60	12.40	.....	11.45	11.95	.....	17.30	15.55	16.20	16.95	15.65	12.90
4	11.60	12.85	.....	11.60	12.60	.....	17.35	15.60	16.05	17.60	15.20	13.05
5	11.50	12.20	.....	11.05	12.20	.....	17.50	15.95	16.20	17.45	15.55	12.95
6	11.40	12.55	.....	11.60	12.85	14.30	17.60	15.15	17.05	17.50	14.60	13.25
7	11.10	12.40	.....	11.55	12.10	14.10	16.00	15.00	17.00	16.65	15.25	13.10
8	11.25	12.50	.....	.....	12.25	13.80	15.25	14.60	17.60	17.00	14.65	13.10
9	10.60	.....	.....	.....	12.35	13.30	14.60	14.35	17.45	16.40	15.30	13.05
10	11.40	12.75	.....	.....	12.45	13.00	14.25	14.45	18.60	16.60	15.15	13.40
11	11.05	12.50	.....	11.40	12.20	12.90	13.75	14.35	16.90	16.70	15.20	12.70
12	11.50	13.15	.....	12.00	.....	13.05	13.25	14.30	16.45	16.70	14.85	13.40
13	11.20	13.10	.....	11.55	.....	13.20	14.10	14.85	16.40	17.05	15.00	12.85
14	11.75	12.95	10.95	12.15	.....	12.75	13.70	13.80	17.45	17.20	14.95	13.35
15	11.15	12.60	11.35	11.50	.....	13.50	13.85	14.00	17.25	16.60	15.10	12.95

Pu-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	11.70	12.95	11.00	12.20	.....	13.40	13.25	13.60	17.80	16.60	14.15	13.75
17	11.30	.....	11.60	11.40	.....	14.35	13.25	14.40	17.25	15.50	14.35	13.20
18	11.90	12.85	11.30	12.00	.....	14.50	13.20	14.15	16.90	16.55	13.60	13.40
19	11.40	12.20	11.85	11.35	.....	15.20	13.80	15.90	17.35	16.20	13.70	13.20
20	12.15	12.40	11.75	11.90	.....	14.85	13.70	15.60	18.30	16.30	12.80	13.85
21	11.65	11.75	11.75	11.60	.....	15.80	14.60	15.70	17.65	16.15	13.30	13.45
22	12.05	12.15	11.10	12.25	.....	15.40	14.45	14.90	17.35	16.20	13.60	13.55
23	11.70	11.80	11.55	11.60	.....	15.85	15.30	15.25	16.95	16.00	13.25	13.35
24	12.10	12.15	.....	11.80	.....	15.65	13.70	15.05	17.20	15.80	13.00	13.30
25	11.55	12.10	11.40	11.20	.....	16.25	14.60	16.25	16.00	17.55	12.90	12.90
26	11.95	12.00	11.50	11.80	.....	15.25	13.65	15.85	17.00	16.60	12.95	13.35
27	12.20	11.55	11.70	11.45	.....	16.05	14.75	16.55	16.40	15.90	12.85	13.10
28	12.10	.....	.....	12.10	.....	16.10	14.10	16.55	16.55	16.05	12.05	13.80
29	12.40	.....	12.05	11.45	.....	17.50	13.70	16.50	16.35	16.00	13.95	13.50
30	12.25	.....	11.35	12.10	.....	17.55	14.35	15.25	16.75	15.50	14.30	13.35
31	12.45	.....	11.90	.....	.....	.....	13.90	16.25	.....	16.05	.....	13.20

Richland County

R-2. City of Lexington. Lat. 40°40'42", long. 82°34'40". Drilled unused well in sandstone; diameter 6 inches, depth 129 feet. Highest water level 22.12 below lsd, June 8, 1947; lowest 28.24 below lsd, Dec. 3, 1952. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.81	27.43	.....	25.19	26.37	27.07	27.64	27.83	27.80	28.09	27.88	26.68
2	27.78	27.44	.....	25.23	26.39	27.10	27.66	27.85	27.83	28.10	27.89	26.68
3	27.76	.....	.....	25.30	26.42	27.12	27.67	27.87	27.85	28.10	27.89	26.67
4	27.74	.....	25.80	25.38	26.45	27.14	27.68	27.88	27.87	28.11	27.88	26.67
5	27.72	.....	.....	25.43	26.48	27.16	27.64	27.90	27.89	28.11	27.87	26.67
6	27.66	.....	.....	25.47	26.50	27.19	27.63	27.91	27.91	28.11	27.86	26.62
7	27.61	.....	.....	25.55	26.53	27.19	27.66	27.92	27.92	28.05	27.86	26.59
8	27.56	.....	.....	25.62	26.53	27.21	27.69	27.88	27.94	28.01	27.85	26.58
9	27.57	.....	25.14	25.68	26.55	27.24	27.67	.....	27.93	27.98	27.85	26.60
10	27.48	.....	25.19	25.73	26.56	27.25	27.65	.....	27.90	27.96	27.85	26.64
11	27.45	.....	25.19	25.80	26.59	27.27	27.67	27.81	27.86	27.95	27.85	26.70
12	27.42	.....	25.02	25.85	26.61	27.29	27.72	27.70	27.89	27.94	27.85	26.73
13	27.40	.....	25.05	25.90	26.63	27.30	27.74	27.67	27.94	27.93	27.85	26.74
14	27.40	27.46	25.11	25.93	26.67	27.31	27.76	27.64	27.96	27.93	27.85	26.76
15	27.38	.....	25.17	25.95	26.69	27.33	27.78	27.62	27.98	27.93	27.85	26.78
16	27.37	.....	25.21	25.94	26.71	27.36	27.79	27.62	28.00	27.93	27.81	26.81
17	27.37	.....	25.27	25.97	26.74	27.38	27.81	27.62	28.01	27.92	27.24	26.83
18	27.37	.....	25.34	26.03	26.75	27.39	27.83	27.62	28.03	27.91	27.09	26.86
19	27.36	.....	25.42	26.06	26.78	27.42	27.83	27.63	28.04	27.90	27.00	26.88
20	27.37	.....	25.47	26.10	26.81	27.44	27.84	27.65	28.06	27.90	26.96	26.90
21	27.36	.....	25.47	26.11	26.84	27.45	27.85	27.67	28.08	27.89	26.91	26.91
22	27.37	.....	25.30	26.13	26.85	27.46	27.87	27.67	28.09	27.89	26.89	26.93
23	27.37	.....	24.88	26.16	26.86	27.48	27.87	27.69	28.09	27.89	26.86	26.94
24	27.37	.....	24.80	26.17	26.88	27.49	27.82	27.70	28.09	27.88	26.82	26.96
25	27.35	.....	24.80	26.18	26.90	27.51	27.78	27.72	28.09	27.87	26.76	26.97
26	27.38	.....	24.85	26.21	26.92	27.53	27.78	27.73	28.09	27.87	26.73	27.00
27	.....	.....	24.91	26.24	26.94	27.56	27.78	27.75	28.09	27.87	26.70	27.00
28	27.42	.....	24.99	26.26	26.98	27.58	27.78	27.76	28.09	27.87	26.68	27.01
29	.....	.....	25.07	26.29	27.00	27.61	27.77	27.77	28.09	27.87	26.68	27.03
30	.....	.....	25.12	26.33	27.03	27.63	27.79	27.79	28.09	27.87	26.68	27.03
31	27.42	.....	25.16	.....	27.05	.....	27.81	27.79	.....	27.88	.....	27.05

R-3. Voisard Factory. Shiloh. Lat. 41°58'00", long. 82°36'06". Drilled unused well in gravel, diameter 8 inches, depth 150 feet. Highest water level 23.42 below lsd, June 24, 1947; lowest 34.55 below lsd, Nov. 20, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.82	31.68	31.83	30.87	30.85	31.91	33.42	33.02	32.50	33.14	33.10	33.55
2	32.17	32.10	31.97	30.65	30.86	32.04	33.46	32.95	32.50	33.20	33.07	33.00
3	32.01	32.40	31.98	30.83	30.86	32.05	33.56	32.99	32.40	33.02	33.25	32.84
4	31.89	32.30	31.70	30.96	30.87	32.06	33.65	33.03	32.47	32.87	33.32	32.80
5	31.42	31.89	31.75	30.95	30.77	32.04	33.63	33.10	32.57	32.70	33.25	32.83

R-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	31.75	31.56	31.54	30.64	30.99	32.17	33.55	33.13	32.64	32.63	33.12	32.87
7	31.83	31.87	31.65	30.83	30.87	32.14	33.50	32.80	32.63	32.75	33.27	32.63
8	31.65	31.78	31.50	30.85	30.98	32.10	33.45	32.81	32.65	33.12	33.31	32.54
9	31.45	31.67	31.36	30.85	31.12	32.16	33.45	32.70	32.65	33.12	33.20	32.78
10	31.64	31.75	31.36	30.77	31.00	32.26	33.50	32.61	32.73	32.96	32.96	32.92
11	31.62	31.73	31.28	30.60	31.09	32.08	33.50	32.59	32.67	32.93	33.25	32.87
12	31.50	32.30	31.31	30.67	31.06	32.10	33.56	32.50	32.83	32.77	33.50	32.91
13	31.55	32.30	31.51	30.67	30.97	32.25	33.56	32.32	32.95	32.57	33.52	32.65
14	31.55	32.10	31.50	30.50	31.23	32.36	33.47	32.37	32.75	32.63	33.55	32.64
15	31.41	31.88	31.05	30.68	31.25	32.45	33.45	32.45	32.68	32.58	33.56	32.47
16	31.40	31.85	31.31	30.73	31.27	32.52	33.36	32.20	32.78	32.64	33.74	32.46
17	31.67	32.14	31.33	30.78	31.28	32.60	33.51	32.17	32.95	32.37	34.27	32.37
18	31.67	32.16	31.12	30.65	31.40	32.67	33.55	32.32	32.96	32.60	34.40	32.63
19	31.62	32.03	31.13	30.53	31.35	32.60	33.70	32.26	32.90	32.86	34.36	32.77
20	31.76	31.95	31.12	30.56	31.40	32.64	33.74	32.28	32.78	33.05	34.55	32.68
21	31.72	32.02	30.88	30.52	31.47	32.67	33.56	32.30	33.04	33.02	34.10	32.60
22	31.34	32.00	30.76	30.44	31.44	32.80	33.30	32.21	33.00	33.15	34.00	32.15
23	31.52	32.27	30.89	30.40	31.37	32.92	33.24	32.46	33.00	33.00	33.60	32.13
24	31.49	32.20	31.01	30.13	31.36	33.02	33.00	32.46	33.10	33.00	33.74	32.20
25	31.50	32.13	30.84	30.41	31.57	33.03	32.95	32.36	33.32	33.00	33.78	32.50
26	31.67	32.13	30.94	30.70	31.55	33.10	32.96	32.40	33.32	32.85	33.36	32.74
27	31.79	31.85	31.07	30.72	31.60	33.32	33.00	32.20	33.03	32.90	33.22	32.65
28	31.61	31.75	30.98	30.73	31.62	33.44	33.05	32.33	33.09	32.74	33.04	32.50
29	31.70		31.10	30.87	31.47	33.45	32.90	32.15	32.96	32.64	33.15	32.46
30	32.00		31.06	30.91	31.70	33.42	32.85	32.20	32.00	32.75	33.55	32.40
31	32.11		30.90		31.83		32.90	32.39		32.98		32.20

R-4. City of Mansfield. Lat. 40°45'30", long. 82°31'00". Drilled unused well in gravel, diameter 14 inches, depth 127 feet. Highest water level 28.70 below lsd, May 31, 1949; lowest 54.85 below lsd, Oct. 8, 15, 1955. Records available: 1942-47, 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.45	53.10	52.95	53.30	52.25	52.25	54.05	49.80	54.25	54.50	50.85	49.25
2	45.85	53.65	53.20	53.20	51.95	53.00	53.15	50.45	54.30	54.35	50.95	49.40
3	48.05	53.90	53.25	52.65	52.35	53.55	52.20	50.65	54.30	53.70	51.10	49.40
4	50.25	53.95	53.15	52.45	52.65	53.70	48.10	50.80	52.95	54.15	51.20	46.05
5	51.05	53.85	53.20	52.70	52.75	52.65	46.00	51.00	50.60	54.35	51.20	47.05
6	51.85	53.30	52.90	52.90	52.85	51.20	45.95	51.60	50.50	54.60	50.85	48.20
7	52.20	52.40	52.55	53.20	52.85	52.45	46.05	51.60	52.45	54.75	50.15	48.70
8	52.20	53.25	52.90	53.20	52.40	53.25	46.00	51.75	53.20	54.85	50.65	49.00
9	52.05	53.60	53.20	50.85	51.45	53.60	46.25	52.55	53.65	54.85	50.85	49.25
10	51.55	53.75	53.30	50.30	52.65	53.75	45.00	53.20	53.70	54.15	50.85	49.25
11	52.35	54.05	53.50	51.70	53.50	53.75	48.45	53.60	52.90	54.45	50.90	45.80
12	52.35	54.20	53.55	52.35	53.80	52.85	50.40	53.60	51.85	54.50	50.95	46.50
13	52.90	54.25	53.20	52.55	53.95	52.40	51.25	53.60	51.90	54.70	50.90	47.85
14	53.10	53.70	52.60	52.80	54.00	53.25	51.80	52.80	51.85	54.80	49.70	48.40
15	53.10	53.90	52.90	52.80	53.10	53.70	52.05	52.25	52.35	54.85	50.20	48.80
16	52.95	54.10	53.30	52.40	52.10	54.00	51.45	53.15	53.15	54.70	50.45	49.00
17	51.90	54.35	53.40	51.80	53.15	54.25	51.10	53.50	53.35	53.60	50.80	49.00
18	52.70	54.40	53.45	52.30	53.70	54.25	50.50	53.80	52.80	53.10	50.90	45.75
19	53.20	54.35	53.45	52.40	54.10	49.50	50.55	54.00	51.90	53.00	50.80	46.35
20	53.60	53.90	53.10	52.55	54.45	50.60	50.45	54.00	53.15	53.00	50.50	47.75
21	53.60	51.60	52.25	52.60	54.55	52.35	50.40	52.95	53.65	52.75	49.00	48.25
22	52.40	52.45	52.90	52.60	53.55	53.10	50.20	52.00	53.95	52.70	49.65	48.40
23	52.60	52.95	53.25	51.40	52.25	53.55	50.25	53.25	54.15	51.75	50.05	48.55
24	51.70	52.10	53.80	50.95	52.45	53.80	49.90	53.75	54.20	51.10	50.05	48.55
25	52.80	53.20	53.85	51.90	54.25	53.80	49.70	54.05	53.55	51.25	46.80	45.00
26	53.20	53.15	53.75	52.25	54.50	52.65	50.00	54.25	51.70	51.30	45.20	43.45
27	53.50	52.90	52.60	52.60	54.50	52.45	50.05	54.30	53.00	51.40	44.55	42.80
28	53.60	52.45	52.00	52.70	54.60	53.45	50.20	53.50	53.90	51.40	46.50	44.55
29	53.65		52.80	52.70	53.45	53.80	50.30	52.80	54.20	51.30	48.15	44.60
30	53.25		53.40	52.25	49.85	54.05	50.35	53.70	54.45	51.10	48.95	44.00
31	52.30		53.40		50.60		50.20	54.15		50.60		42.55

Ross County

Ro-3. Mead Paper Corp. Hickory St. and Baltimore & Ohio RR. tracks, Chillicothe. Lat. 39°20', long. 82°58'. Drilled unused well in gravel, diameter 30 inches, depth 91 feet. Highest water level 17.20 below lsd, Mar. 21, 1943; lowest 42.92 below lsd, Dec. 24, 1949. Records available: 1941-55.

Ro-3--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.07	37.58	36.68	32.13	30.82	31.69	32.90	32.87	34.53	35.64	36.72	37.86
2	37.08	37.61	36.59	32.02	30.82	31.72	32.95	32.95	34.58	35.69	36.75	37.89
3	37.08	37.64	36.48	31.93	30.80	31.76	32.98	33.03	34.63	35.72	36.79	37.92
4	37.07	37.68	36.36	31.86	30.78	31.79	32.99	33.12	34.65	35.74	36.85	37.96
5	37.07	37.72	36.26	31.78	30.77	31.83	32.96	33.19	34.65	35.78	36.90	38.00
6	37.09	37.75	36.16	31.69	30.79	31.87	32.84	33.27	34.63	35.83	36.95	38.03
7	37.11	37.75	36.06	31.61	30.80	31.91	32.67	33.35	34.55	35.88	37.01	38.05
8	37.13	37.75	35.92	31.53	30.82	31.96	32.43	33.39	34.52	35.92	37.06	38.05
9	37.15	37.72	35.75	31.51	30.85	32.01	32.17	33.44	34.54	35.97	37.12	38.04
10	37.16	37.68	35.58	31.44	30.87	32.05	31.90	33.49	34.58	35.99	37.17	38.01
11	37.14	37.65	35.40	31.38	30.90	32.11	31.64	33.56	34.63	36.00	37.21	37.98
12	37.11	37.61	35.24	31.27	30.93	32.15	31.42	33.62	34.65	36.00	37.20	37.93
13	37.12	37.59	35.10	31.21	30.96	32.16	31.33	33.68	34.68	36.04	37.29	37.85
14	37.15	37.57	34.98	31.15	31.00	32.18	31.35	33.77	34.75	36.08	37.30	37.78
15	37.18	37.56	34.86	31.12	31.03	32.22	31.40	33.79	34.80	36.12	37.32	37.72
16	37.22	37.54	34.73	31.10	31.04	32.26	31.47	33.83	34.86	36.17	37.35	37.67
17	37.23	37.53	34.62	31.09	31.03	32.30	31.55	33.84	34.93	36.22	37.40	37.65
18	37.22	37.51	34.53	31.08	31.05	32.35	31.64	33.87	34.98	36.26	37.43	37.63
19	37.23	37.49	34.47	31.04	31.08	32.40	31.74	33.92	35.04	36.31	37.47	37.63
20	37.25	37.46	34.37	30.99	31.12	32.46	31.84	33.97	35.10	36.35	37.50	37.63
21	37.29	37.43	34.28	30.95	31.17	32.52	31.95	34.02	35.16	36.40	37.53	37.64
22	37.32	37.36	34.12	30.90	31.24	32.55	32.06	34.07	35.22	36.45	37.57	37.64
23	37.36	37.25	34.00	30.85	31.30	32.61	32.16	34.12	35.28	36.48	37.60	37.65
24	37.37	37.16	33.83	30.81	31.36	32.67	32.25	34.16	35.35	36.49	37.65	37.65
25	37.37	37.07	33.58	30.77	31.42	32.73	32.27	34.20	35.39	36.51	37.69	37.65
26	37.39	36.97	33.26	30.75	31.47	32.77	32.39	34.25	35.42	36.54	37.74	37.63
27	37.42	36.87	32.99	30.75	31.54	32.79	32.46	34.30	35.45	36.57	37.78	37.57
28	37.46	36.77	32.74	30.77	31.59	32.80	32.54	34.34	35.48	36.61	37.79	37.47
29	37.51		32.55	30.79	31.64	32.83	32.62	34.39	35.53	36.64	37.80	37.37
30	37.55		32.38	30.81	31.65	32.87	32.70	34.43	35.58	36.68	37.83	37.32
31	37.57		32.25		31.66		32.78	34.48		36.70		37.29

Sandusky County

S-1. City of Woodville. Lat. 41°27', long. 83°22'. Drilled unused well in limestone, diameter 10 inches, depth 188 feet. Highest water level 8.85 below lsd, May 2, 1950; lowest 25.60 below lsd, Dec. 7, 1953. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.67	21.23	.....	19.15	19.37	19.95	21.19	20.73	21.02	21.13	20.35	19.88
2	21.87	21.55	.....	19.02	19.29	19.83	21.08	20.73	21.02	21.02	20.30	19.63
3	21.86	21.65	.....	19.23	19.20	20.05	21.18	20.71	20.85	20.89	20.16	19.45
4	21.56	21.60	.....	19.50	19.20	20.06	21.08	20.71	20.93	20.84	20.26	19.39
5	21.52	21.25	.....	19.44	19.23	20.15	20.96	20.59	20.93	20.75	20.07	19.55
6	21.57	21.11	.....	19.03	19.27	20.15	20.85	20.67	20.78	20.59	20.07	19.58
7	21.50	21.41	.....	19.14	19.20	20.15	20.83	20.72	20.86	20.64	20.00	19.49
8	21.22	21.30	20.02	19.30	19.35	20.25	20.82	20.78	20.90	20.93	20.05	19.44
9	21.09	21.20	19.99	19.38	19.37	20.35	20.97	20.82	20.90	20.93	20.05	19.67
10	21.22	.....	19.97	19.40	19.21	20.37	21.13	20.77	21.00	20.77	19.90	19.77
11	21.18	.....	19.88	19.40	19.34	20.41	21.13	20.61	21.12	20.66	19.78	19.71
12	21.02	.....	19.95	19.06	19.30	20.47	21.09	20.70	21.02	20.42	20.23	19.66
13	21.24	.....	20.12	19.35	19.23	20.58	21.20	20.53	21.02	20.50	20.24	19.63
14	21.20	.....	19.98	19.16	19.30	20.65	20.99	20.86	20.76	20.48	20.01	19.66
15	21.08	.....	19.70	19.09	19.33	20.64	20.82	20.85	20.82	20.62	19.98	19.63
16	21.13	.....	19.90	19.62	19.20	20.57	20.85	20.83	20.90	20.61	19.63	19.66
17	21.30	.....	19.90	19.48	19.32	20.62	20.97	20.75	20.94	20.39	20.15	19.64
18	21.34	.....	19.71	19.59	19.25	20.78	20.99	20.74	21.04	20.41	19.93	19.95
19	21.25	.....	19.72	19.51	19.25	20.75	21.05	20.73	20.93	20.83	19.64	20.14
20	21.35	.....	19.67	19.31	19.33	20.73	21.04	20.70	20.98	20.72	19.58	20.14
21	21.31	.....	19.55	19.32	19.57	20.71	20.99	20.77	20.97	20.67	19.70	20.00
22	20.75	21.68	19.45	19.20	19.57	20.89	20.95	20.80	20.98	20.62	19.57	19.80
23	21.00	.....	19.62	19.07	19.50	20.93	20.85	20.76	20.92	20.43	19.80	19.46
24	21.05	.....	19.49	19.34	19.55	21.00	20.80	20.77	21.17	20.67	19.89	19.55
25	21.05	.....	19.38	19.24	19.60	21.17	20.85	20.88	21.14	20.68	19.75	20.17

S-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	21.10	.....	19.37	19.37	19.63	21.25	20.87	20.86	21.08	20.29	19.53	20.17
27	21.30	.....	19.65	19.45	19.45	21.28	20.76	20.93	20.98	20.29	19.50	20.08
28	21.28	.....	19.51	19.31	19.57	21.24	20.63	20.87	20.90	20.28	19.35	20.05
29	21.20		19.24	19.27	19.50	21.24	20.69	20.54	20.90	20.00	19.65	20.10
30	21.40		19.37	19.32	19.61	21.27	20.73	20.58	21.00	20.02	19.84	20.10
31	21.40		19.32		19.68		20.68	20.68		20.23		19.93

Seneca County

Se-1. City of Green Springs. Lat. 41°13'15", long. 83°03'18". Drilled unused well in limestone, diameter 10 inches, depth 88 feet. Highest water level 24.20 below lsd, June 3, 1947; lowest 37.25 below lsd, July 5, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.10	33.95	33.10	32.75	32.75	34.40	34.65	35.10	34.80	35.15	35.30	34.50
2	34.15	33.95	33.30	32.95	32.60	34.10	35.15	35.15	35.15	34.60	35.20	34.50
3	34.45	33.85	33.20	32.75	32.90	34.40	35.00	35.25	34.85	35.30	35.00	34.60
4	34.20	33.95	32.80	32.65	32.90	34.60	36.90	34.80	34.85	34.95	35.05	34.60
5	34.15	34.20	32.75	32.60	32.85	34.20	37.25	35.35	35.15	34.95	35.30	35.10
6	33.05	34.00	32.50	32.35	32.70	34.85	35.50	34.45	35.00	34.85	34.80	34.90
7	33.35	34.10	33.35	32.85	32.90	34.55	35.35	35.10	34.55	34.75	35.25	34.80
8	33.90	33.75	32.95	32.80	32.60	34.35	34.55	34.85	35.00	35.10	35.35	34.70
9	33.75	33.80	33.10	32.90	32.80	34.50	35.95	34.30	35.05	34.75	35.20	34.90
10	34.00	33.70	33.40	32.40	32.95	34.55	34.95	34.45	35.35	35.15	35.05	34.80
11	33.70	33.80	32.95	33.05	31.80	34.30	34.95	34.50	34.90	34.95	35.20	34.75
12	33.65	34.00	32.45	33.15	31.95	34.30	35.15	34.45	35.10	34.80	35.20	34.60
13	33.55	34.00	32.65	32.65	31.95	35.50	35.15	34.25	35.05	34.90	35.40	35.00
14	33.45	33.90	33.30	33.00	34.10	36.25	35.15	34.45	34.90	35.15	35.25	34.55
15	33.45	33.35	32.55	32.60	33.60	34.90	34.60	34.75	35.30	34.75	34.55	35.10
16	33.85	33.35	33.05	33.00	34.55	34.40	34.70	34.20	35.55	34.85	34.65	35.10
17	33.90	33.50	33.20	32.85	33.70	34.05	35.15	34.65	35.60	35.35	34.90	35.20
18	33.15	34.55	32.65	33.30	.....	33.60	35.30	34.30	34.45	34.80	34.35	35.00
19	33.75	33.80	32.75	32.85	.....	34.15	35.20	34.60	34.85	34.95	34.80	34.95
20	34.25	33.45	32.70	32.65	.....	35.60	35.60	34.80	34.70	35.15	34.35	34.80
21	33.65	33.10	32.60	32.85	.....	33.40	35.15	34.65	34.60	34.45	34.80	35.10
22	33.45	32.80	31.85	32.60	.....	35.35	35.20	34.65	35.10	34.90	34.55	35.10
23	33.65	33.10	32.05	32.90	.....	35.35	34.90	34.90	34.75	34.95	35.00	35.05
24	33.55	33.30	32.90	32.35	.....	34.95	34.10	34.40	35.20	35.30	34.55	35.20
25	33.75	33.10	32.30	32.95	.....	35.25	34.45	34.95	35.20	35.50	34.45	34.90
26	33.65	33.20	32.70	32.65	.....	35.25	34.60	35.00	35.05	35.10	34.45	35.00
27	33.75	33.15	32.40	32.80	.....	35.95	34.55	34.95	34.70	34.85	34.60	35.05
28	34.20	33.40	33.00	32.20	.....	35.90	34.55	34.60	34.75	35.10	35.25	35.20
29	33.90		32.35	32.90	.....	36.20	34.80	35.00	35.05	34.95	34.45	34.90
30	34.60		32.90	32.70	.....	35.10	34.90	34.55	34.90	34.95	34.90	35.40
31	33.70		33.30		34.40		34.40	34.70		35.20		35.20

Shelby County

Sh-1. John Wenger. Lat. 40°26'15", long. 84°12'06". Drilled unused well in limestone, diameter 4 inches, depth 120 feet. Highest water level 10.35 below lsd, Jan. 28, 1949; lowest 15.70 below lsd, Sept. 25-27, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.63	14.44	13.77	13.85	14.31	14.75	15.08	15.26	15.53	15.63	15.36	14.97
2	13.62	14.50	13.76	13.85	14.31	14.76	15.11	15.28	15.54	15.69	15.36	14.95
3	13.63	14.63	13.76	13.86	14.32	14.76	15.14	15.29	15.54	15.69	15.25	14.87
4	13.63	14.65	13.75	13.96	14.32	14.76	15.17	15.30	15.54	15.69	15.20	14.86
5	13.59	14.64	13.61	13.96	14.32	14.76	15.17	15.33	15.54	15.68	15.19	14.89
6	13.38	14.52	13.63	13.97	14.34	14.76	15.17	15.33	15.54	15.60	15.18	14.89
7	13.09	14.53	13.74	14.00	14.36	14.75	15.16	15.32	15.54	15.57	15.09	14.89
8	13.10	14.55	13.77	14.11	14.37	14.73	15.16	15.33	15.59	15.51	15.14	14.88
9	13.14	14.55	13.78	14.16	14.44	14.79	15.16	15.34	15.59	15.51	15.16	14.95
10	13.28	14.54	13.81	14.19	14.44	14.79	15.15	15.34	15.60	15.51	15.15	15.01

Sh-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	13.39	14.47	13.78	14.19	14.48	14.78	15.15	15.34	15.60	15.50	15.10	15.02
12	13.43	14.44	13.6	14.15	14.49	14.75	15.16	15.34	15.60	15.50	15.16	15.02
13	13.53	14.46	13.63	14.15	14.49	14.82	15.17	15.33	15.61	15.47	15.20	15.02
14	13.64	14.45	13.70	14.13	14.49	14.84	15.16	15.34	15.61	15.40	15.22	15.02
15	13.66	14.38	13.70	14.14	14.43	14.88	15.15	15.37	15.61	15.41	15.22	15.01
16	13.70	14.38	13.70	14.15	14.53	14.90	15.05	15.37	15.61	15.41	15.02	15.02
17	13.90	14.40	13.81	14.16	14.56	14.92	15.04	15.37	15.60	15.40	14.81	15.01
18	13.97	14.40	13.81	14.23	14.56	14.93	15.06	15.37	15.69	15.39	14.80	15.02
19	14.00	14.38	13.84	14.21	14.56	14.93	15.07	15.38	15.69	15.38	14.79	15.10
20	14.09	14.32	13.88	14.20	14.56	14.93	15.12	15.38	15.68	15.39	14.79	15.11
21	14.09	14.24	13.88	14.19	14.58	14.93	15.12	15.39	15.69	15.39	14.79	15.11
22	14.04	13.99	13.55	14.19	14.58	14.96	15.12	15.39	15.69	15.41	14.79	15.09
23	14.11	13.92	13.34	14.19	14.58	14.96	15.12	15.39	15.69	15.41	14.78	14.99
24	14.14	13.95	13.51	14.19	14.58	14.97	15.12	15.44	15.67	15.39	14.88	15.00
25	14.21	14.01	13.55	14.10	14.59	14.97	15.13	15.44	15.70	15.39	14.88	15.09
26	14.28	14.01	13.59	14.15	14.64	15.01	15.19	15.45	15.70	15.37	14.87	15.14
27	14.35	13.99	13.73	14.19	14.64	15.07	15.21	15.45	15.70	15.36	14.86	15.15
28	14.35	13.84	13.81	14.22	14.64	15.09	15.22	15.45	15.67	15.36	14.78	15.15
29	14.36		13.84	14.25	14.63	15.09	15.20	15.45	15.67	15.34	14.85	15.14
30	14.43		13.85	14.30	14.64	15.08	15.22	15.44	15.61	15.28	14.94	15.17
31	14.47		13.85		14.67		15.24	15.52		15.35		15.17

Stark County

St-1. Republic Steel Corp. Oberlin Ave., Massillon. Lat. 40°47', long. 81°31'. Drilled unused well in gravel, diameter 6 inches, depth 48 feet. Highest water level 41.70 below lsd, June 16, 1947; lowest 55.16 below lsd, Mar. 6, 1954. Records available: 1942-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.57	54.04	53.66	50.55	50.35	51.15	50.91	51.17	52.21	53.12	53.75	53.73
2	53.51	54.09	53.64	50.53	50.34	51.17	50.83	51.22	52.33	53.12	53.76	53.76
3	53.47	54.13	53.56	50.49	50.40	51.18	50.75	51.25	52.21	53.11	53.80	53.78
4	53.54	54.15	53.46	50.48	50.45	51.18	50.70	51.30	52.28	53.16	53.85	53.80
5	53.58	54.15	53.37	50.52	50.50	51.15	50.65	51.34	52.31	53.18	53.86	53.78
6	53.61	54.15	53.18	50.55	50.55	51.08	50.60	51.38	52.34	53.20	53.86	53.82
7	53.59	54.15	52.89	50.57	50.58	51.06	50.57	51.42	52.36	53.22	53.88	53.85
8	53.52	54.19	52.74	50.59	50.60	51.10	50.55	51.46	52.40	53.22	53.92	53.92
9	53.44	54.22	52.65	50.59	50.60	51.10	50.51	51.50	52.42	53.23	53.95	53.96
10	53.37	54.23	52.61	50.57	50.64	51.10	50.47	51.55	52.48	53.23	53.97	54.00
11	53.37	54.21	52.55	50.50	50.68	51.07	50.45	51.58	52.49	53.25	54.02	54.03
12	53.39	54.15	52.45	50.50	50.72	51.05	50.46	51.64	52.50	53.27	54.04	54.08
13	53.45	54.10	52.27	50.50	50.76	51.02	50.43	51.66	52.55	53.31	54.04	54.15
14	53.46	54.03	52.04	50.48	50.77	51.00	50.43	51.69	52.58	53.33	54.06	54.20
15	53.45	54.10	51.95	50.47	50.77	51.00	50.43	51.72	52.62	53.34	54.07	54.25
16	53.45	54.14	51.83	50.47	50.80	51.01	50.47	51.78	52.65	53.34	54.09	54.32
17	53.45	54.16	51.75	50.44	50.84	51.02	50.50	51.80	52.68	53.35	54.05	54.38
18	53.51	54.18	51.67	50.42	50.89	51.02	50.55	51.85	52.72	53.40	53.93	54.40
19	53.57	54.20	51.57	50.45	50.93	51.00	50.60	51.91	52.75	53.46	53.76	54.46
20	53.63	54.18	51.49	50.47	50.95	50.94	50.64	51.93	52.77	53.50	53.63	54.52
21	53.68	54.10	51.40	50.45	50.96	50.95	50.68	51.95	52.81	53.54	53.53	54.56
22	53.71	54.08	51.31	50.44	50.95	50.95	50.75	52.00	52.85	53.57	53.51	54.63
23	53.71	54.06	51.23	50.40	50.97	50.96	50.76	52.05	52.87	53.57	53.51	54.67
24	53.70	53.98	51.13	50.40	51.01	50.99	50.79	52.07	52.91	53.55	53.50	54.70
25	53.76	53.93	51.05	50.35	51.03	51.00	50.83	52.10	52.95	53.57	53.50	54.70
26	53.80	53.86	50.96	50.30	51.06	50.98	50.88	52.12	52.97	53.61	52.51	54.69
27	53.87	53.82	50.88	50.35	51.09	50.93	50.95	52.12	53.00	53.65	53.51	54.73
28	53.93	53.75	50.80	50.33	51.11	50.94	51.00	52.13	53.05	53.67	53.55	54.80
29	53.96		50.73	50.36	51.07	50.94	51.05	52.13	53.07	53.69	53.62	54.87
30	53.96		50.65	50.36	51.09	50.93	51.08	52.15	53.12	53.69	53.67	54.93
31	53.99		50.59		51.14		51.13	52.18		53.72		54.97

St-4. Adessi Bros. Lat. 40°51'00", long. 81°20'00". Drilled unused well in gravel, diameter 4 inches, depth 190 feet. Highest water level 6.92 below lsd, Feb. 6, 1952; lowest 22.42 below lsd, Feb. 2, 1942. Records available: 1941-55.

St-4--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.11	18.30	15.72	.....	12.43	13.70	15.00	16.38	17.76	19.00	20.00	20.25
2	18.96	18.34	15.60	.....	12.43	13.74	15.05	16.42	17.81	19.04	20.02	20.26
3	18.65	18.37	15.29	.....	12.43	13.78	15.09	16.47	17.85	19.07	20.05	20.28
4	18.77	18.41	15.03	.....	12.43	13.83	15.13	16.51	17.90	19.11	20.08	20.30
5	18.82	18.44	14.80	.....	12.46	13.87	15.18	16.55	17.94	19.15	20.15	20.32
6	.....	18.47	14.35	.....	12.49	13.91	15.23	16.60	17.99	19.19	20.13	20.34
7	.....	18.49	14.00	.....	12.53	13.96	15.27	16.65	18.03	19.22	20.16	20.36
8	.....	18.49	13.79	.....	12.58	14.00	15.32	16.70	18.08	19.25	20.20	20.38
9	.....	18.49	13.65	.....	12.64	14.05	15.37	16.75	18.13	19.28	20.23	20.40
10	.....	18.49	13.56	.....	12.69	14.10	15.42	16.79	18.15	19.32	20.26	20.43
11	.....	18.45	13.51	12.36	12.75	14.15	15.46	16.84	18.20	19.35	20.29	20.47
12	.....	18.26	13.42	12.39	12.80	14.19	15.51	16.87	18.25	19.38	20.33	20.50
13	.....	17.99	13.16	12.42	12.86	14.25	15.56	16.92	18.30	19.41	20.36	20.54
14	.....	17.75	12.99	12.46	12.91	14.29	15.60	16.97	18.34	19.45	20.39	20.57
15	.....	17.60	12.87	12.50	12.96	14.33	15.63	17.02	18.39	19.48	20.43	20.60
16	.....	17.50	12.79	12.66	13.00	14.37	15.67	17.07	18.43	19.51	20.47	20.62
17	.....	17.42	12.73	12.58	13.05	14.41	15.71	17.13	18.48	19.55	20.48	20.65
18	.....	17.37	12.67	12.61	13.10	14.44	15.76	17.17	18.51	19.58	20.48	20.68
19	.....	17.30	12.63	12.65	13.13	14.48	15.80	17.22	18.55	19.61	20.46	20.69
20	.....	17.22	12.61	12.66	13.17	14.52	15.85	17.27	18.59	19.65	20.42	20.72
21	.....	17.15	12.61	12.66	13.23	14.57	15.90	17.31	18.63	19.68	20.39	20.75
22	.....	17.03	12.57	12.66	13.28	14.61	15.94	17.35	18.67	19.72	20.37	20.77
23	.....	16.81	12.42	12.64	13.33	14.65	15.99	17.40	18.70	19.75	20.35	20.79
24	.....	16.49	.....	12.63	13.37	14.70	16.04	17.43	18.75	19.78	20.35	20.82
25	.....	16.21	.....	12.61	13.42	14.74	16.08	17.47	18.78	19.81	20.34	20.85
26	.....	16.00	.....	12.60	13.46	14.79	16.12	17.51	18.82	19.84	20.31	20.87
27	18.10	15.90	.....	12.54	13.50	14.82	16.17	17.55	18.85	19.86	20.28	20.90
28	18.14	15.80	.....	12.46	13.54	14.87	16.22	17.59	18.89	19.89	20.26	20.93
29	18.18	.....	.....	12.43	13.57	14.91	16.26	17.63	18.93	19.91	20.24	20.96
30	18.22	.....	.....	12.43	13.61	14.95	16.30	17.67	18.96	19.94	20.24	20.99
31	18.26	.....	.....	.....	13.65	.....	16.34	17.72	19.07	19.97	.....	21.01

St-5A. City of Canton. 30th St. and Harrisburg Rd. Lat. 40°50', long. 81°21'. Drilled unused well in gravel, diameter 12 inches, depth 132 feet. Highest water level 26.45 below lsd, Mar. 11, 1950; lowest 52.32 below lsd, Dec. 14, 1955. Records available: 1949-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.70	48.70	48.10	42.15	41.55	42.30	44.40	47.05	47.95	50.35	50.30	51.10
2	49.70	48.90	48.15	42.10	41.55	42.45	44.50	47.55	48.00	50.35	50.40	51.25
3	49.75	48.95	48.15	42.05	41.60	42.65	44.55	47.90	48.15	49.60	50.45	51.35
4	49.75	49.00	47.65	41.65	41.55	42.65	43.85	48.20	48.30	49.65	50.50	51.40
5	49.80	49.10	47.30	41.60	41.60	42.80	43.65	48.45	48.40	49.75	50.55	.....
6	49.40	48.80	46.95	41.65	41.80	42.90	43.85	48.60	48.80	49.70	50.60	.....
7	49.65	48.55	46.60	41.70	41.85	43.10	44.00	48.30	49.25	49.75	50.45	.....
8	49.45	48.75	46.30	41.75	41.95	43.10	44.20	47.60	49.20	49.85	50.45	.....
9	49.45	48.85	46.10	41.65	41.75	43.15	44.25	47.60	49.45	49.70	50.55	.....
10	49.10	48.95	45.85	41.50	42.00	43.15	43.90	47.65	49.65	49.30	50.65	.....
11	49.20	49.10	45.55	41.25	42.40	43.15	44.20	47.70	49.60	49.45	50.70	.....
12	49.30	49.15	45.35	41.45	42.65	43.10	44.35	47.65	49.05	49.60	50.75	.....
13	49.40	48.80	45.00	41.65	42.80	42.50	44.75	47.70	49.00	49.75	50.75	.....
14	49.00	48.60	44.70	41.70	42.90	42.65	45.35	47.20	49.10	49.80	50.60	52.32
15	49.20	48.80	44.45	41.70	42.40	42.75	45.35	47.10	49.20	49.45	50.65	.....
16	49.00	48.90	44.15	41.65	42.65	42.95	45.15	47.25	49.25	49.40	50.75	.....
17	48.70	48.75	44.05	41.45	42.85	43.20	44.90	47.45	49.35	49.35	50.90	.....
18	48.90	48.85	43.75	41.45	42.90	43.20	45.10	47.60	49.35	49.50	51.15	.....
19	49.00	48.85	.....	41.55	43.00	43.20	45.20	47.70	49.40	49.65	51.30	.....
20	49.00	48.60	.....	41.70	43.10	43.35	45.70	47.80	49.50	49.75	50.70	.....
21	48.85	48.40	43.00	41.75	43.15	43.40	46.15	47.90	49.55	49.85	51.10	.....
22	49.00	48.60	42.75	41.85	43.15	43.40	46.60	47.95	49.60	49.95	51.30	.....
23	48.80	48.70	42.55	41.90	42.65	43.50	46.85	48.05	49.65	50.05	51.45	.....
24	48.50	48.75	42.30	41.75	42.60	43.55	46.75	48.15	49.70	50.05	51.50	.....
25	48.70	48.60	42.40	41.40	42.45	43.60	46.30	48.20	49.50	50.05	50.65	.....
26	48.80	48.65	42.45	41.45	42.45	43.45	46.80	48.20	49.45	50.15	50.00	.....
27	48.90	48.15	42.30	41.55	42.65	43.30	47.10	48.30	49.85	50.20	49.85	.....
28	48.60	47.90	42.00	41.60	42.65	43.75	46.90	48.35	50.00	50.25	50.55	.....
29	48.55	.....	42.05	41.80	42.65	44.05	46.70	48.35	50.15	50.35	50.80	.....
30	48.50	.....	42.25	41.75	42.30	44.30	46.65	48.40	50.25	50.35	50.95	.....
31	48.10	.....	42.20	.....	42.15	.....	46.65	48.25	.....	50.20	.....	51.65

St-6. City of Canton. Ninth Street pumping station. Lat. 40°47', long. 81°23'. Drilled unused well in gravel, diameter 12 inches, depth 80 feet. Highest water level 1.29 above lsd, May 22, 1953; lowest 33.11 below lsd, Feb. 21, 1945. Records available: 1944-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.69	6.73	6.71	6.14	6.15	6.26	6.59	6.91	7.42	7.65	8.03	8.33
2	5.65	6.74	6.58	6.13	6.15	6.29	6.59	6.93	7.43	7.67	8.04	8.34
3	5.64	6.79	6.59	6.11	6.14	6.30	6.60	6.96	7.34	7.68	8.06	8.35
4	5.61	6.83	6.58	6.12	6.14	6.31	6.60	6.99	7.18	7.70	8.07	8.36
5	5.71	6.84	6.40	6.12	6.15	6.31	6.59	7.02	7.07	7.71	8.08	8.36
6	5.80	6.83	6.39	6.11	6.17	6.31	6.57	7.04	6.98	7.72	8.10	8.37
7	5.90	6.80	6.41	6.12	6.17	6.31	6.55	7.03	6.90	7.74	8.11	8.38
8	5.97	6.79	6.43	6.15	6.16	6.31	6.53	6.94	6.86	7.75	8.12	8.38
9	6.01	6.79	6.43	6.18	6.17	6.31	6.51	6.96	6.83	7.77	8.15	8.39
10	6.06	6.79	6.43	6.19	6.18	6.32	6.44	6.99	6.79	7.77	8.16	8.41
11	6.11	6.77	6.42	6.19	6.20	6.32	6.44	7.02	6.89	7.78	8.17	8.42
12	6.14	6.79	6.34	6.17	6.22	6.32	6.47	7.06	7.01	7.80	8.19	8.44
13	6.17	6.83	6.33	6.18	6.23	6.32	6.48	7.07	7.13	7.81	8.21	8.46
14	6.21	6.83	6.35	6.18	6.24	6.33	6.32	7.09	7.21	7.82	8.22	8.48
15	6.23	6.83	6.34	6.15	6.26	6.35	6.28	7.11	7.28	7.84	8.24	8.49
16	6.27	6.83	6.33	6.15	6.25	6.37	6.34	7.14	7.34	7.85	8.24	8.51
17	6.31	6.86	6.33	6.15	6.25	6.41	6.40	7.16	7.39	7.86	8.22	8.53
18	6.34	6.88	6.34	6.15	6.26	6.43	6.45	7.18	7.45	7.87	8.22	8.55
19	6.37	6.86	6.35	6.14	6.26	6.43	6.51	7.22	7.45	7.88	8.23	8.56
20	6.43	6.88	6.36	6.13	6.28	6.43	6.55	7.25	7.48	7.90	8.24	8.58
21	6.46	6.86	6.36	6.13	6.29	6.44	6.59	7.27	7.52	7.91	8.25	8.59
22	6.47	6.84	6.25	6.13	6.29	6.45	6.64	7.27	7.53	7.93	8.26	8.59
23	6.51	6.78	6.10	6.13	6.29	6.47	6.66	7.28	7.54	7.94	8.27	8.60
24	6.52	6.78	6.12	6.13	6.28	6.49	6.69	7.30	7.56	7.95	8.27	8.60
25	6.55	6.79	6.13	6.08	6.26	6.51	6.72	7.33	7.57	7.96	8.28	8.62
26	6.58	6.79	6.13	6.07	6.27	6.53	6.76	7.35	7.59	7.97	8.28	8.63
27	6.62	6.78	6.10	6.08	6.29	6.55	6.78	7.37	7.61	7.98	8.28	8.65
28	6.64	6.74	6.12	6.11	6.30	6.58	6.81	7.39	7.62	7.99	8.29	8.66
29	6.67		6.13	6.13	6.29	6.60	6.84	7.39	7.63	8.00	8.29	8.66
30	6.70		6.15	6.15	6.24	6.60	6.86	7.40	7.64	8.01	8.31	8.67
31	6.72		6.15		6.24		6.89	7.40		8.02		8.68

St-10. City of Canton. Lat. 45°48'40", long. 81°27'36". Drilled unused well in gravel, diameter 12 inches, depth 188 feet. Highest water level 0.78 above lsd, Feb. 4, 1952; lowest 10.21 below lsd, Dec. 21, 1945. Records available: 1944-55.

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.59	-1.44	-0.58	+0.37	-0.08	-0.61	-0.91	-1.29	-1.58	-1.82	-1.87	-1.93
2	1.57	1.48	.39	.37	.10	.63	.94	1.31	1.58	1.82	1.87	1.91
3	1.56	1.49	.32	.36	.11	.63	.95	1.32	1.59	1.83	1.89	1.91
4	1.53	1.50	-.21	.36	.11	.63	.95	1.33	1.60	1.82	1.90	1.93
5	1.52	1.48	+ .10	.35	.15	.64	.96	1.35	1.62	1.82	1.90	1.94
6	1.47	1.47	.25	.35	.17	.66	.97	1.36	1.62	1.81	1.90	1.94
7	1.44	1.40	.30	.34	.18	.66	.98	1.35	1.64	1.81	1.91	1.94
8	1.39	1.35	.31	.33	.23	.66	.99	1.35	1.66	1.82	1.92	1.96
9	1.34	1.31	.31	.29	.25	.68	.99	1.36	1.66	1.82	1.92	1.98
10	1.32	1.27	.31	.26	.27	.70	1.00	1.36	1.69	1.82	1.91	2.00
11	1.30	1.20	.31	.23	.28	.69	1.02	1.38	1.69	1.63	1.94	2.00
12	1.30	1.17	.31	.19	.30	.71	1.03	1.40	1.71	1.81	1.95	2.02
13	1.30	1.15	.32	.16	.31	.72	1.05	1.39	1.71	1.82	1.95	2.02
14	1.31	1.10	.32	.13	.34	.73	1.05	1.41	1.72	1.82	1.96	2.01
15	1.30	1.06	.32	.11	.35	.75	1.06	1.42	1.73	1.82	1.96	2.02
16	1.31	1.07	.32	.10	.37	.76	1.08	1.42	1.74	1.82	1.93	2.03
17	1.34	1.07	.33	.06	.39	.79	1.10	1.43	1.75	1.81	1.88	2.04
18	1.35	1.07	.33	.05	.41	.79	1.11	1.44	1.75	1.83	1.87	2.06
19	1.37	1.07	.33	.04	.42	.80	1.12	.46	1.74	1.84	1.86	2.06
20	1.39	1.05	.33	.04	.46	.81	1.14	1.47	1.77	1.84	1.86	2.06
21	1.39	1.00	.33	.04	.47	.81	1.14	1.48	1.77	.85	1.89	2.06
22	1.38	.96	.33	0.00	.48	.83	1.15	1.48	1.78	1.85	1.89	2.05
23	1.40	.83	.36	0.00	.48	.83	1.16	1.48	1.78	1.84	1.90	2.07
24	1.41	.77	.36	+.01	.48	.84	1.17	1.49	1.79	1.83	1.90	2.08
25	1.43	.72	.37	-.01	.50	.85	1.19	1.50	1.81	1.83	1.88	2.10

St-10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-1.44	-0.68	+0.37	-0.01	-0.51	-0.87	-1.21	-1.51	-1.81	-1.82	-1.86	-2.11
27	1.45	.65	.37	.01	.52	.89	1.22	1.52	1.80	1.83	1.86	2.12
28	1.42	.63	.38	.03	.53	.90	1.24	1.52	1.80	1.83	1.88	2.12
29	1.42		.37	.05	.54	.90	1.26	1.53	1.79	1.83	1.90	2.13
30	1.43		.37	.07	.57	.91	1.28	1.55	1.81	1.84	1.92	2.13
31	1.44		.37		.59		1.29	1.56		1.86		2.13

St-11. City of Canton. Lat. 40°51'02", long. 81°24'03". Drilled unused well in gravel, diameter 6 inches, depth 87 feet. Highest water level 0.29 below lsd, June 7, 1947; lowest 47.85 below lsd, Dec. 29, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.00	34.90	30.55	29.00	30.00	31.15	34.00	.....	43.95	38.75	38.65	45.35
2	36.60	34.85	30.25	30.40	.....	28.10	30.65	.....	44.35	38.65	45.00	39.50
3	42.25	34.85	33.10	27.15	.....	31.85	30.40	.....	44.50	38.55	39.50	38.70
4	43.90	34.85	33.15	30.55	.....	32.30	30.20	.....	45.80	38.50	45.00	38.60
5	41.65	34.80	33.05	30.75	.....	32.45	34.15	.....	45.90	38.45	38.85	45.15
6	36.65	34.75	31.90	27.30	.....	33.00	34.80	.....	46.65	38.40	38.60	38.75
7	35.95	34.70	32.10	27.15	.....	33.10	34.40	.....	46.80	38.30	45.20	45.50
8	35.20	34.55	32.70	27.15	26.50	29.45	35.10	.....	46.00	38.25	40.00	45.80
9	34.95	34.30	33.45	27.15	26.40	.....	31.60	.....	46.40	38.15	45.70	41.00
10	34.85	34.10	33.55	27.15	26.35	.....	30.90	.....	46.50	44.55	45.40	39.10
11	34.85	33.45	33.95	27.15	26.30	.....	34.25	.....	42.00	38.50	46.05	39.00
12	34.80	32.80	33.70	27.10	29.15	.....	34.35	42.05	45.80	38.35	41.50	45.90
13	34.80	32.65	29.25	27.10	29.85	.....	35.10	42.10	41.50	38.15	39.40	46.20
14	34.80	32.50	32.45	27.10	26.75	.....	37.15	36.00	38.95	44.80	46.00	46.10
15	34.80	32.45	32.85	27.00	29.05	.....	37.65	41.60	45.35	38.90	41.00	46.50
16	34.80	32.50	33.15	26.90	30.60	.....	34.80	41.80	45.55	38.40	45.80	46.70
17	34.85	32.50	33.35	26.75	30.90	32.00	36.30	42.00	46.20	38.30	39.50	40.65
18	34.80	32.50	33.60	26.75	30.95	32.55	.....	42.25	46.15	38.25	44.40	39.95
19	34.80	32.55	33.40	26.75	31.55	32.65	.....	42.80	46.00	38.20	38.50	46.90
20	34.85	32.50	30.10	26.75	.....	32.85	.....	43.15	46.55	38.15	37.85	47.20
21	34.80	32.30	33.45	26.60	31.30	33.45	39.85	39.00	46.85	38.15	44.15	47.25
22	34.85	32.00	33.40	26.35	31.80	30.50	40.45	42.45	45.00	38.15	38.15	47.10
23	34.85	31.05	31.60	.....	.....	32.95	40.50	36.70	46.50	38.10	44.15	47.10
24	34.90	30.65	27.90	.....	.....	33.00	39.00	42.40	46.55	38.05	39.50	47.10
25	34.90	30.65	27.25	.....	31.10	30.40	38.65	42.35	39.70	44.65	44.20	40.60
26	34.90	30.70	27.15	.....	28.10	29.45	39.45	42.60	39.45	39.00	44.90	40.45
27	34.95	30.70	27.15	.....	31.10	33.10	39.55	38.50	39.30	38.25	45.00	47.20
28	34.95	30.65	30.60	.....	31.10	33.90	35.30	36.40	39.10	44.85	39.30	47.65
29	34.90		28.00	.....	.....	34.55	.....	42.40	39.00	38.70	45.15	47.85
30	34.90		.....	.....	.....	34.90	.....	43.00	38.85	38.35	38.90	47.55
31	34.90		.....	.....	.....	.....	.....	43.55		44.80		41.40

Summit County

Su-3. Goodyear Tire & Rubber Co. Akron. Lat. 41°03'09", long. 81°28'00". Drilled unused well in gravel, diameter 20 inches, depth 140 feet. Highest water level 14.75 below lsd, May 16, 1951; lowest 55.87 below lsd, Oct. 18-20, 26-28, 1944. Records available: 1943-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.90	25.40	22.45	17.70	18.80	22.10	31.45	45.30	53.10	55.30	54.65	37.50
2	29.70	25.25	22.25	17.60	18.80	22.25	31.85	45.75	53.15	55.35	54.20	37.20
3	29.55	25.20	22.15	17.50	18.75	22.75	31.90	46.10	53.20	55.35	53.65	36.85
4	29.40	25.15	22.00	17.50	18.55	23.25	31.85	46.50	53.20	55.35	53.30	36.55
5	29.20	25.05	21.65	17.45	18.30	23.75	31.50	46.90	53.15	55.35	53.00	36.25
6	28.95	24.90	21.40	17.30	18.45	24.25	31.75	47.30	53.10	55.40	52.80	36.00
7	28.85	24.75	21.25	17.20	18.50	24.80	32.10	47.60	53.15	55.45	52.45	35.70
8	28.65	24.70	21.20	17.20	18.55	25.40	32.60	48.00	53.30	55.45	52.00	35.40
9	28.45	24.55	21.10	17.15	18.65	26.00	33.15	48.30	53.45	55.45	51.45	35.15
10	28.25	24.45	21.00	17.10	18.65	26.60	33.80	48.60	53.50	55.50	50.90	34.90
11	28.15	24.30	20.90	17.00	18.75	27.15	34.40	49.00	53.65	55.50	50.30	34.70
12	28.00	24.20	20.20	16.90	18.80	27.20	35.00	49.30	53.80	55.50	49.65	34.45
13	27.80	24.20	19.75	16.85	18.85	27.15	35.65	49.55	53.95	55.50	49.05	34.20
14	27.65	24.10	19.55	16.80	18.95	26.70	36.25	49.85	54.10	55.55	48.40	33.95
15	27.50	23.90	19.35	16.65	18.90	26.30	36.85	50.10	54.20	55.55	47.75	33.70

Su-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	27.35	23.80	19.15	16.65	18.55	25.95	37.50	50.40	54.35	55.55	47.05	33.45
17	27.20	23.70	19.10	16.60	18.70	25.60	38.05	50.65	54.50	55.55	43.55	33.25
18	27.10	23.65	19.00	16.55	18.90	25.85	38.60	50.90	54.60	55.55	41.95	33.00
19	26.95	23.55	18.90	16.55	19.10	25.90	39.20	51.15	54.70	55.55	41.15	32.75
20	26.85	23.45	18.90	16.70	19.30	25.95	39.80	51.40	54.80	55.55	40.60	32.60
21	26.75	23.30	18.90	17.00	19.50	26.30	40.30	51.55	54.90	55.55	40.15	32.40
22	26.50	23.20	18.75	17.05	19.90	26.85	40.85	51.80	55.00	55.55	39.85	32.15
23	26.40	23.10	18.40	17.35	20.35	27.40	41.30	52.00	55.05	55.50	39.55	31.95
24	26.30	23.05	18.30	17.55	20.85	27.90	41.80	52.20	55.10	55.50	39.30	31.80
25	26.10	22.95	18.20	17.85	21.35	28.45	42.25	52.40	55.10	55.50	39.10	31.60
26	26.05	22.85	18.00	18.15	21.85	29.00	42.75	52.55	55.10	55.50	38.75	31.50
27	25.90	22.70	18.00	18.35	22.30	29.50	43.20	52.65	55.15	55.50	38.50	31.35
28	25.80	22.55	17.95	18.50	22.70	29.95	43.60	52.70	55.20	55.45	38.20	31.20
29	25.70		17.90	18.70	22.80	30.45	44.05	52.75	55.25	55.40	38.00	31.00
30	25.60		17.85	18.80	22.70	30.90	44.50	52.85	55.30	55.20	37.75	30.85
31	25.55		17.75		22.40		44.90	52.95		54.95		30.70

Trumbull County

T-2. Copperweld Steel Co. Mahoning Ave., Warren. Lat. 41°16'00", long. 80°50'30". Drilled unused well in sandstone, diameter 10 inches, depth 124 feet. Highest water level 25.95 below lsd, June 20, 1949; lowest 56.95 below lsd, Sept. 20, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.35	48.70	46.80	47.20	51.40	51.90	54.05	53.90	56.10	56.90	52.85	46.50
2	47.90	48.90	47.05	47.10	51.45	52.10	50.10	54.70	55.85	56.15	52.80	46.80
3	47.80	49.00	47.05	46.80	51.30	52.40	47.80	55.45	55.05	55.00	52.90	46.80
4	47.75	49.00	46.85	46.60	51.30	52.50	46.85	55.65	55.00	55.75	52.90	46.45
5	47.55	48.95	46.85	47.30	51.60	52.60	48.70	55.70	55.05	55.85	52.90	46.00
6	47.65	48.90	46.65	47.75	51.60	53.10	49.50	55.80	54.80	56.05	52.60	46.00
7	47.50	48.35	46.75	47.80	51.50	53.60	50.85	55.50	54.80	56.55	51.80	45.70
8	47.25	48.05	46.90	47.75	51.10	53.70	51.05	54.80	54.80	56.50	52.10	46.30
9	46.85	48.35	47.20	47.80	50.70	53.35	50.50	54.55	54.80	56.20	52.05	46.50
10	44.05	48.50	47.35	47.60	51.45	53.30	49.60	55.00	54.50	54.90	52.05	46.30
11	43.00	48.45	47.30	47.70	51.40	53.35	49.50	55.55	53.20	54.60	52.45	46.25
12	41.10	48.30	47.25	48.35	51.35	52.70	49.50	55.55	54.30	54.80	52.05	46.50
13	40.05	48.30	47.20	48.50	51.15	51.70	49.35	55.35	54.80	54.80	52.15	46.70
14	41.60	47.85	47.00	48.70	51.05	52.10	49.65	54.25	55.85	54.80	50.95	46.65
15	43.25	48.20	47.05	48.50	50.75	52.50	49.60	54.25	56.45	54.80	50.90	46.25
16	44.15	48.20	47.20	48.35	50.65	53.00	46.25	54.60	56.65	54.60	51.00	46.35
17	45.30	48.10	47.45	48.15	50.65	53.65	46.55	55.20	56.75	54.10	50.60	46.10
18	46.20	48.10	47.80	48.65	50.80	53.65	47.40	56.15	56.55	54.30	50.35	45.75
19	46.80	48.10	47.70	49.20	51.50	53.45	48.05	56.55	56.60	54.55	50.65	45.50
20	47.05	47.90	47.40	49.60	52.50	53.45	48.05	56.70	56.95	54.55	50.30	45.45
21	47.10	47.55	47.00	49.65	52.85	54.05	48.15	56.45	56.90	54.40	49.15	46.00
22	47.05	47.90	46.45	49.55	52.85	54.05	48.85	56.35	56.50	54.10	49.20	46.20
23	46.80	47.80	46.45	49.70	52.05	53.90	48.95	56.20	56.30	53.60	49.25	46.35
24	47.05	47.65	46.70	49.85	52.20	53.80	48.80	56.50	56.05	52.80	49.20	46.15
25	47.35	47.35	46.70	50.00	52.25	53.75	48.60	56.40	55.60	52.75	48.90	44.40
26	47.75	47.40	46.65	49.90	52.00	50.65	49.40	56.15	55.30	52.90	48.45	42.05
27	48.55	47.45	46.40	50.40	52.05	51.95	50.50	55.90	55.40	53.55	48.35	43.00
28	48.75	46.90		50.55	52.40	53.00	51.15	55.00	55.75	53.55	47.55	44.15
29	48.35		46.60	50.95	52.40	54.00	51.60	55.35	56.00	53.60	47.25	45.20
30	48.60		46.85	51.35	51.40	54.35	52.50	56.40	56.90	53.60	46.40	45.90
31	48.70		47.25		51.55		53.10	56.70		52.80		46.05

Tuscarawas County

Tu-1. Everett Waltz. Near Strasburg. Lat. 40°37'09", long. 81°32'00". Drilled unused well in gravel, diameter 4 inches, depth 23 feet. Highest water level 8.03 below lsd, Feb. 8, 1952; lowest 13.87 below lsd, Sept. 30-Oct. 3, 1954. Records available: 1946-55.

Tu-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.75	12.68	10.82	9.58	10.44	11.85	12.57	12.92	13.29	13.56	13.60	13.26
2	.....	12.72	10.77	9.62	10.52	11.88	12.60	12.94	13.30	13.56	13.60	13.26
3	.....	12.74	10.64	9.73	10.58	11.92	12.62	12.96	13.31	13.57	13.60	13.28
4	12.63	12.76	10.54	.....	10.63	11.93	12.62	12.98	13.32	13.57	13.60	13.28
5	12.63	12.77	10.01	.....	10.69	11.99	12.63	13.00	13.34	13.58	13.60	13.28
6	12.61	12.77	9.92	.....	10.75	12.02	12.64	13.03	13.34	13.58	13.60	13.28
7	12.52	12.75	9.94	.....	10.80	12.05	12.66	13.03	13.36	13.59	13.60	13.28
8	12.36	12.65	9.97	.....	10.87	12.08	12.68	13.04	13.37	13.58	13.60	13.30
9	12.27	12.57	9.89	.....	10.90	12.11	12.69	13.04	13.39	13.57	13.61	13.32
10	12.24	12.51	9.76	.....	10.94	12.13	12.70	13.05	13.41	13.56	13.61	13.33
11	12.22	12.37	9.68	.....	11.01	12.16	12.71	13.07	13.41	13.56	13.61	13.34
12	12.22	12.23	9.59	.....	11.05	12.18	12.72	13.08	13.42	13.57	13.62	13.35
13	12.24	12.11	9.52	.....	11.10	12.20	12.74	13.09	13.42	13.57	13.62	13.36
14	12.26	12.08	9.45	.....	11.15	12.22	12.76	13.11	13.43	13.58	13.63	13.38
15	12.28	12.09	9.44	.....	11.20	12.26	12.78	13.12	13.44	13.58	13.63	13.39
16	12.29	12.10	9.52	.....	11.24	12.28	12.79	13.12	13.44	13.58	13.63	13.40
17	12.34	12.10	9.55	.....	11.30	12.30	12.78	13.13	13.45	13.57	13.44	13.41
18	12.36	12.07	9.62	.....	11.34	12.33	12.79	13.15	13.47	13.57	13.27	13.42
19	12.39	12.02	9.68	.....	11.39	12.35	12.70	13.17	13.48	13.58	13.20	13.44
20	12.42	11.96	9.75	.....	11.44	12.38	12.66	13.18	13.50	13.58	13.20	13.45
21	12.42	11.85	9.75	.....	11.48	12.40	12.70	13.20	13.51	13.58	13.22	13.45
22	12.46	11.70	9.65	.....	11.53	12.40	12.74	13.20	13.52	13.59	13.23	13.46
23	12.50	11.32	9.52	.....	11.56	12.41	12.77	13.20	13.52	13.59	13.24	13.48
24	12.53	11.11	9.40	.....	11.59	12.43	12.79	13.19	13.54	13.59	13.24	13.49
25	12.56	11.00	9.35	.....	11.64	12.45	12.80	13.20	13.54	13.59	13.21	13.49
26	12.58	10.91	9.30	.....	11.68	12.47	12.82	13.21	13.55	13.56	13.20	13.49
27	12.60	10.89	9.31	.....	11.72	12.50	12.84	13.22	13.55	13.56	13.20	13.49
28	12.62	10.87	9.36	.....	11.75	12.51	12.85	13.23	13.55	13.56	13.22	13.51
29	12.64	.....	9.45	.....	11.74	12.54	12.86	13.25	13.55	13.55	13.24	13.51
30	12.66	.....	9.50	.....	11.77	12.57	12.87	13.27	13.56	13.56	13.25	13.51
31	12.67	.....	9.55	.....	11.81	.....	12.89	13.28	.....	13.59	.....	13.53

Warren County

W-1. Crosley Broadcasting Co. Near Mason. Lat. 39°20'36", long. 84°19'45". Dug unused well in gravel, diameter 4 feet, depth 50 feet. Highest water level 0.26 below lsd, Feb. 8, 1950; lowest 7.40 below lsd, Dec. 8-9, 1953. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.85	.....	.....	2.10	3.30	3.20	4.70	5.65	6.35	5.85	3.60	.....
2	1.65	.....	0.85	2.20	3.45	3.40	4.75	5.70	6.35	5.65	3.60	2.25
3	1.75	2.50	.90	2.45	3.55	3.60	4.80	5.75	6.40	5.55	2.40	.....
4	1.60	2.75	1.00	2.60	3.65	3.70	4.85	5.75	6.40	5.50	2.00	.....
5	.90	2.80	.55	2.70	3.70	3.85	4.90	5.80	6.45	5.50	2.05	.....
6	.95	2.40	.85	2.75	3.75	3.90	4.95	5.85	6.45	5.45	2.25	.....
7	1.20	1.80	1.30	2.85	3.80	3.90	4.95	5.90	6.50	4.65	2.40	1.40
8	1.30	1.55	1.35	3.00	3.90	3.85	4.95	5.95	6.50	3.30	2.55	1.35
9	1.30	1.25	1.60	3.10	3.95	3.75	5.00	5.95	6.55	3.05	2.60	1.70
10	1.35	.80	1.70	3.15	3.95	3.75	4.80	6.00	6.55	3.10	2.65	1.95
11	1.40	.70	1.70	3.20	4.00	3.60	4.80	6.00	6.60	3.15	2.80	2.20
12	1.35	.....	1.85	2.80	4.05	3.00	4.80	6.05	6.60	3.25	2.95	2.40
13	1.45	.....	2.00	1.50	4.05	2.90	4.85	6.05	6.65	3.25	3.00	2.55
14	1.50	.....	2.10	1.95	4.00	3.10	4.85	6.10	6.65	3.10	3.05	2.60
15	1.45	.....	2.10	2.00	3.85	3.30	4.90	6.15	6.65	3.10	3.05	2.60
16	1.50	.....	1.20	2.20	3.80	3.50	4.95	6.15	6.70	3.15	1.95	2.70
17	1.55	.....	1.35	2.50	3.85	3.65	5.00	6.20	6.70	3.20	1.55	2.85
18	1.75	.....	1.30	2.65	3.90	3.80	5.00	6.20	6.75	2.75	1.65	2.90
19	1.95	.....	1.50	2.80	4.00	3.90	5.05	6.25	6.75	2.55	1.55	2.95
20	2.00	1.70	1.55	2.80	4.05	4.00	5.10	6.30	6.80	2.60	1.30	3.05
21	.....	.....	.....	2.90	4.15	4.05	5.15	6.30	6.80	2.70	1.00	3.10
22	.....	.....	.....	3.00	4.15	4.15	5.20	6.25	6.60	2.85	1.15	3.15
23	.....	.....	.....	3.10	4.00	4.20	5.25	6.20	6.35	2.95	1.15	3.25
24	.....	.....	.....	3.10	3.80	4.30	5.30	6.20	6.30	2.95	.90	3.25
25	.....	.....	.....	2.70	3.60	4.30	5.35	6.25	6.30	2.95	1.05	3.00

W-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.25	....	....	2.50	3.40	4.35	5.40	6.25	6.30	3.05	1.20	2.55
27	2.55	3.55	4.45	5.45	6.25	6.30	3.15	1.30	2.55
28	2.75	3.60	4.50	5.50	6.25	6.30	3.20	....	2.65
29	2.95	3.00	4.55	5.50	6.30	6.25	3.30	....	2.65
30	1.65	3.15	2.70	4.60	5.55	6.30	5.90	3.40	....	2.65
31	1.90	....	2.95	....	5.60	6.35	....	3.50	....	....

W-2. City of Lebanon. Lat. 29°26'06", long. 84°13'06". Drilled unused well in gravel, diameter 6 inches, depth 100 feet. Highest water level 11.89 below lsd, June 30, 1947; lowest 29.65 below lsd, Sept. 16-17, 1955. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.05	27.15	....	26.25	25.75	....	27.40	28.30	28.70	28.90	28.80	27.95
2	27.05	27.25	26.55	26.25	25.95	....	27.50	28.40	28.65	28.65	28.80	28.00
3	27.10	27.20	26.25	26.05	26.00	....	27.50	28.50	28.65	28.75	28.25	27.85
4	27.20	27.15	26.75	26.25	26.10	....	27.40	28.60	28.60	28.80	28.10	27.70
5	26.95	27.10	26.70	26.25	26.25	....	27.30	28.75	28.70	28.75	28.50	27.85
6	26.95	26.95	26.40	26.30	26.20	....	27.65	28.70	28.95	28.55	28.40	27.85
7	26.90	27.05	26.60	26.30	26.50	....	27.70	28.55	28.95	28.85	28.20	28.15
8	26.80	26.80	26.50	25.95	26.45	....	27.65	28.70	29.20	28.65	28.40	27.90
9	26.70	26.75	26.50	25.85	26.60	....	27.55	28.75	29.35	28.75	28.25	28.05
10	26.85	26.65	26.55	25.70	26.60	....	27.40	28.75	28.30	29.05	29.05	27.90
11	26.85	26.90	26.60	25.85	26.60	....	27.60	28.35	29.05	29.00	28.15	27.70
12	27.10	26.75	26.55	25.90	26.60	....	27.50	28.35	29.10	28.90	28.10	27.80
13	27.20	26.65	26.50	25.85	26.50	....	27.55	28.25	29.05	29.25	28.00	27.85
14	27.20	26.75	26.50	25.80	26.50	....	27.60	28.00	29.00	28.95	28.00	27.80
15	27.10	26.75	26.45	25.95	25.90	....	27.65	28.30	29.05	28.90	27.95	27.90
16	26.95	26.70	26.60	25.85	26.10	....	27.65	28.30	29.65	28.70	28.95	27.95
17	27.10	27.25	26.60	25.85	26.10	....	27.35	28.50	29.65	28.95	28.05	27.90
18	27.10	27.15	26.55	25.85	26.10	....	27.40	27.65	29.45	28.90	28.00	27.30
19	27.10	27.10	26.30	25.85	26.60	....	27.40	28.75	29.35	29.00	28.00	27.45
20	27.10	26.95	26.25	25.95	26.75	....	27.45	29.05	29.40	29.00	27.75	27.40
21	26.65	27.10	26.15	26.15	26.70	....	27.60	28.90	29.40	28.85	27.90	27.45
22	26.75	27.10	26.10	26.25	26.80	....	27.10	27.65	29.00	29.35	28.85	27.85
23	26.60	27.20	26.05	26.30	26.25	27.15	27.65	29.00	29.25	28.60	28.00	27.45
24	26.65	26.95	26.05	26.15	26.30	27.20	27.40	28.80	29.10	28.65	27.80	27.35
25	26.75	27.00	25.80	26.35	26.35	27.25	27.65	28.85	28.85	28.75	27.90	27.30
26	26.75	26.80	25.85	26.35	26.35	26.85	28.10	28.85	28.80	29.00	27.95	27.30
27	26.80	....	25.90	26.20	26.45	27.00	28.20	28.65	28.85	28.80	27.85	27.35
28	26.65	....	25.90	26.30	26.65	27.25	28.20	28.45	28.85	28.90	28.10	27.20
29	26.65	....	26.40	26.30	....	27.30	28.25	28.70	28.90	28.90	28.15	27.25
30	26.75	....	26.35	26.15	....	27.30	28.25	28.80	29.00	28.65	28.00	27.25
31	26.70	....	26.30	....	....	....	28.10	28.70	....	28.70	....	27.10

Washington County

Wa-1. Marietta Osteopathic Clinic. Fourth and Putnam Sts., Marietta. Lat. 39°25', long. 81°27'. Drilled unused well in gravel, diameter 6 inches, depth 42 feet. Highest water level 16.57 below lsd, Mar. 25, 1945; lowest 30.70 below lsd, Sept. 9, 1942. Records available: 1942-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.10	27.40	24.75	23.15	24.70	26.80	28.15	28.85	28.75	29.00	....	28.35
2	26.70	27.80	24.55	23.30	24.90	26.80	28.25	28.90	28.75	28.95	28.90	28.35
3	26.40	27.55	24.20	23.60	25.05	26.85	28.25	28.95	....	28.95	28.95	28.35
4	26.25	27.55	23.70	23.70	25.15	27.05	28.20	29.00	29.00	28.95	28.90	28.40
5	26.25	27.55	23.35	23.85	25.30	27.15	28.30	29.00	29.00	....	28.90	28.40
6	26.25	27.55	22.20	24.00	25.45	27.25	28.35	29.05	29.00	....	28.85	28.40
7	26.25	27.70	21.30	24.55	25.40	27.05	28.30	29.10	28.95	....	28.85	28.35
8	26.15	27.25	20.95	24.30	25.50	27.05	28.30	29.10	28.85	....	28.85	28.30
9	26.00	27.10	21.10	24.40	25.55	27.10	28.30	28.95	29.00	....	28.85	28.40
10	25.95	27.00	21.15	24.45	25.60	27.10	28.30	28.90	29.10	....	28.85	28.40
11	26.05	26.90	21.55	24.60	25.70	27.15	28.40	28.90	29.00	....	28.85	28.40
12	26.40	26.85	21.25	24.70	25.85	27.15	28.35	28.90	28.85	....	28.90	28.40
13	26.30	26.80	21.25	25.15	25.80	27.15	28.35	28.75	28.85	....	28.90	28.45
14	26.35	26.70	21.50	24.85	25.85	27.20	28.40	28.85	28.85	....	28.90	28.45
15	26.50	26.70	21.20	25.00	25.85	27.25	28.40	28.85	29.00	....	28.90	28.50

Wa-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	26.60	26.75	21.65	24.85	25.90	27.40	28.45	28.90	29.05	.....	29.00	28.50
17	26.75	26.75	21.70	24.95	26.00	27.50	28.55	29.00	29.05	.....	29.00	28.50
18	26.80	26.65	21.95	24.95	26.05	27.60	28.55	29.00	29.15	.....	28.85	28.50
19	26.85	26.55	22.15	25.05	26.20	27.65	28.50	29.00	29.15	.....	28.70	28.55
20	26.85	26.50	22.25	25.30	26.35	27.65	28.50	29.05	29.10	.....	28.60	28.55
21	26.90	26.50	22.35	25.05	26.35	27.75	28.55	29.05	28.95	.....	28.40	28.55
22	27.00	26.40	22.40	24.95	26.55	27.75	28.55	28.95	29.05	.....	28.40	28.55
23	27.05	26.20	22.35	24.85	26.60	27.85	28.55	28.85	29.10	.....	28.45	28.60
24	27.05	25.80	21.90	24.85	26.60	27.80	28.60	28.70	28.95	.....	28.45	28.60
25	27.15	25.40	21.65	24.90	26.45	27.75	28.60	28.65	28.95	.....	28.40	28.65
26	27.25	25.15	21.95	24.90	26.70	27.65	28.65	28.85	28.95	.....	28.35	28.65
27	27.25	25.00	22.15	24.80	26.80	27.65	28.65	28.85	28.95	.....	28.30	28.65
28	27.25	24.85	22.30	24.60	26.85	27.90	28.65	29.00	29.25	.....	28.35	28.65
29	27.30		22.55	24.50	26.80	27.95	28.70	28.95	29.00	.....	28.35	28.65
30	27.35		22.70	24.55	26.70	28.10	28.70	28.95	29.00	.....	28.40	28.65
31	27.40		23.00		26.75		28.85	28.95		.....		28.65

Wayne County

Wn-2a. City of Wooster. Lat. 40°48', long. 81°59'. Drilled unused well in gravel, diameter 6 inches, depth 65 feet. Highest water level 1.55 below lsd, Jan. 27, 1952; lowest 23.60 below lsd, Oct. 14, 1954. Records available: 1951-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.20	17.40	.....	.....	12.25	.....	19.50	19.40	.....	.....	21.75	13.55
2	18.80	17.85	.....	.....	13.80	.....	19.60	19.70	.....	.....	21.65	13.50
3	20.65	17.65	.....	.....	13.75	.....	18.05	19.95	.....	22.55	21.70	13.55
4	20.10	17.75	.....	.....	14.50	.....	17.30	20.10	.....	23.35	21.70	12.60
5	19.90	17.65	.....	13.45	16.75	.....	18.50	20.35	21.20	23.35	21.65	13.60
6	19.50	.....	.....	.....	16.00	.....	18.95	20.25	21.10	.....	.....	14.15
7	19.00	.....	.....	.....	.....	.....	19.00	18.95	21.35	23.40	21.50	15.20
8	17.95	.....	.....	.....	.....	.....	18.90	21.10	21.50	21.55	21.50	15.00
9	17.35	.....	.....	.....	.....	.....	19.15	19.90	21.45	21.20	21.70	15.30
10	18.45	.....	.....	.....	.....	18.00	17.20	20.60	21.55	22.65	21.70	14.40
11	18.55	.....	12.70	.....	15.50	18.00	18.90	20.20	21.50	22.35	21.80	14.50
12	18.10	.....	.....	.....	.....	16.15	18.70	20.00	21.65	.....	21.85	15.65
13	18.70	17.55	.....	.....	.....	17.85	18.80	18.60	21.55	.....	20.90	15.90
14	18.20	.....	.....	.....	.....	18.00	18.85	18.00	21.90	.....	21.65	15.90
15	17.15	.....	.....	.....	.....	18.20	18.75	19.70	21.95	.....	21.50	16.10
16	17.15	.....	.....	.....	15.15	18.20	19.25	20.10	22.15	.....	21.45	15.85
17	18.45	.....	.....	.....	17.25	18.40	17.20	.....	22.10	.....	16.50	15.20
18	16.85	.....	.....	13.25	17.00	18.35	18.85	.....	21.70	22.55	13.40	14.20
19	16.65	.....	.....	13.30	17.00	17.00	18.95	.....	22.05	23.30	13.20	16.10
20	16.65	.....	.....	13.45	17.30	18.85	19.45	.....	22.35	.....	12.65	16.55
21	.....	15.90	9.85	13.40	.....	19.10	19.00	.....	22.25	.....	13.00	15.50
22	.....	15.60	9.65	13.35	.....	18.85	19.10	.....	22.95	.....	13.05	16.70
23	.....	12.50	.....	13.20	.....	18.95	18.85	.....	22.25	22.15	13.30	16.90
24	17.05	.....	.....	11.35	.....	19.00	18.20	.....	20.90	22.80	13.10	15.60
25	17.15	.....	.....	11.70	.....	19.05	18.70	21.40	21.10	22.60	11.65	14.80
26	17.10	.....	.....	13.00	.....	17.10	19.00	.....	22.20	23.35	11.80	15.10
27	17.10	.....	.....	13.00	18.30	18.80	19.15	.....	22.55	23.05	11.70	16.70
28	16.80	.....	.....	14.40	.....	18.90	19.50	.....	22.35	22.05	12.65	16.80
29	16.65	.....	.....	14.25	.....	19.25	19.20	.....	23.10	21.90	13.30	15.70
30	16.35	.....	.....	14.60	.....	19.15	19.10	.....	.....	21.00	13.55	15.75
31	17.20	.....	.....	.....	.....	.....	20.40	.....	.....	21.85	.....	15.40

Williams County

Wm-1. City of Bryan. Lat. 41°20', long. 84°33'. Drilled unused well in gravel, diameter 8 inches, depth 118 feet. Highest water level 0.95 below lsd, Feb. 25, 1952; lowest 17.05 below lsd, Sept. 1-2, 4, 1953. Records available: 1951-55.

Wm-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.65	5.00	5.45	6.20	5.70	8.55	14.35	13.60	15.65	12.95	6.40	7.20
2	2.50	4.95	4.90	6.05	4.70	9.10	13.65	13.85	15.80	11.20	6.60	6.65
3	3.85	5.15	5.30	4.95	5.40	10.70	12.00	15.70	15.80	10.90	7.40	6.20
4	5.20	6.30	5.40	5.10	8.20	11.55	11.05	15.65	14.25	11.00	7.60	6.30
5	5.15	5.75	4.35	5.20	9.10	11.55	11.90	15.60	12.60	11.40	6.80	6.20
6	5.25	4.25	4.40	5.35	8.65	10.55	12.35	15.30	14.80	11.70	7.00	7.20
7	4.80	4.50	4.45	5.90	7.90	11.25	12.25	14.45	14.75	10.85	6.60	6.80
8	4.55	5.20	5.05	5.55	7.10	10.85	12.45	13.00	14.30	10.40	6.50	7.20
9	3.70	4.95	5.60	5.25	4.95	10.40	11.95	13.20	15.05	10.40	7.05	8.35
10	4.20	6.20	5.60	4.45	5.80	10.35	11.55	14.25	14.90	9.65	6.35	7.65
11	5.00	6.85	5.70	4.60	6.05	9.40	10.95	14.25	.....	9.75	6.90	6.55
12	5.10	6.40	6.00	4.55	5.55	8.70	11.70	15.25	.....	9.10	7.25	6.30
13	5.25	5.45	5.10	.....	5.80	8.15	13.10	14.75	14.50	9.25	6.70	7.35
14	5.50	5.00	4.55	5.25	6.10	8.05	13.40	13.05	14.75	9.70	6.10	7.00
15	4.60	7.75	5.35	5.25	5.70	8.05	13.40	12.35	14.85	9.25	6.15	7.00
16	3.80	7.75	5.65	5.10	4.90	9.70	12.70	13.10	15.80	8.55	6.30	7.60
17	3.30	6.30	5.65	4.60	6.90	9.80	12.65	13.80	.....	8.00	7.25	6.60
18	4.75	6.55	5.65	4.60	6.85	10.75	11.45	14.90	.....	7.45	7.55	5.85
19	5.10	6.45	5.50	5.40	7.70	10.75	12.95	15.20	14.85	8.30	6.50	6.20
20	5.10	5.40	5.05	5.80	8.40	10.30	13.70	15.45	16.65	8.30	5.45	7.40
21	5.30	4.80	4.15	6.05	8.60	11.00	14.00	15.05	16.25	7.85	4.80	7.75
22	4.75	4.80	4.95	6.30	8.75	11.90	14.65	14.75	16.05	8.35	4.45	7.05
23	4.55	4.80	6.00	6.75	8.45	12.10	14.60	15.40	16.40	7.30	.....	7.00
24	4.30	5.00	6.00	5.30	8.75	12.90	13.70	15.90	15.00	6.60	.....	7.10
25	4.95	6.30	6.00	4.40	8.70	13.15	12.50	16.00	14.30	7.65	.....	5.90
26	4.95	6.20	5.75	4.75	9.20	13.15	14.30	16.00	12.20	8.00	.....	4.25
27	5.00	5.20	4.35	.....	9.40	11.25	14.15	15.95	12.20	8.25	.....	4.80
28	5.55	.....	4.60	5.65	8.65	13.00	14.60	15.40	14.70	8.45	.....	5.70
29	5.55	.....	5.10	5.85	8.40	13.95	13.90	14.85	14.55	7.55	.....	5.65
30	4.10	.....	5.40	5.70	5.25	14.50	13.55	15.80	14.30	7.30	7.15	6.15
31	4.20	.....	5.80	.....	7.20	.....	13.40	16.10	.....	6.55	.....	6.15

Wyandot County

Wy-1. State of Ohio. State Highway Dept. Lat. 40°50'00", long. 83°17'00". Drilled unused well in limestone, diameter 5 inches, depth 90 feet. Highest water level 28.50 below lsd, Apr. 13, 1952; lowest 39.40 below lsd, Sept. 21, 1955. Records available: 1951-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	35.60	.....	35.50	33.55	35.95	.....	.....	38.00	36.55	35.10	33.40
2	.....	36.40	.....	34.55	35.50	35.65	36.15	.....	37.75	33.45	35.60	34.85
3	.....	36.40	.....	33.65	35.35	35.75	34.90	.....	37.35	37.75	35.80	36.95
4	.....	36.30	.....	35.35	35.20	35.15	35.95	.....	35.80	35.45	35.80	32.35
5	.....	34.80	.....	35.50	35.55	34.30	.....	.....	36.80	37.60	35.45	35.25
6	.....	34.00	32.55	33.15	35.45	36.30	.....	36.60	38.20	36.00	33.95	35.30
7	.....	35.35	.....	33.85	34.70	36.15	.....	35.80	38.70	37.40	36.00	35.45
8	.....	35.55	35.90	35.10	33.90	36.85	36.80	.....	38.95	37.50	35.75	35.25
9	.....	36.00	36.35	34.80	35.45	36.10	35.65	37.75	38.20	33.60	35.45	35.45
10	.....	35.30	33.75	33.80	35.80	36.55	35.45	38.45	38.00	38.20	35.50	36.95
11	.....	36.80	32.90	35.80	35.75	35.10	.....	37.80	35.10	35.50	36.00	33.35
12	35.20	34.95	33.95	36.20	35.85	34.85	.....	37.55	35.20	37.55	35.15	35.70
13	35.20	34.10	33.45	35.60	35.70	36.85	.....	36.00	35.55	38.25	33.75	37.65
14	35.45	.....	35.65	35.10	35.10	36.80	.....	34.90	38.20	35.80	36.15	37.35
15	34.45	.....	35.15	35.70	34.10	36.15	.....	38.30	38.50	37.10	36.00	36.00
16	33.60	.....	35.45	33.80	35.85	.....	36.05	38.10	35.80	34.25	34.90	37.35
17	35.35	.....	33.00	34.10	35.75	36.45	35.40	38.35	35.65	35.30	35.65	33.35
18	33.50	.....	32.55	35.40	35.05	35.50	.....	38.30	34.00	35.50	35.15	35.20
19	33.80	.....	32.95	34.70	35.15	34.95	.....	38.10	35.85	35.85	34.50	37.30
20	35.45	.....	33.50	35.40	35.70	36.80	.....	36.80	38.25	35.65	34.70	36.20
21	35.90	32.30	35.65	36.05	35.15	36.65	.....	36.95	39.40	35.55	36.00	36.80
22	34.40	32.05	35.20	36.00	34.25	36.85	.....	.....	36.00	36.95	35.30	37.60
23	34.20	31.65	35.55	34.50	35.85	36.55	36.25	.....	34.95	33.60	35.30	36.40
24	35.85	32.70	35.40	32.55	36.10	36.45	35.55	38.90	37.35	35.60	34.05	33.35
25	35.20	.....	35.25	35.95	35.95	35.45	.....	38.15	33.25	35.55	35.10	31.75

Wy-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	35.55	.....	35.05	36.35	35.50	35.50	.....	39.05	35.95	35.55	35.25	35.40
27	35.55	32.80	31.15	36.10	35.90	.....	33.80	36.90	35.35	35.65	33.55	36.60
28	36.10	.....	34.95	36.35	34.60	.....	36.80	35.10	34.90	35.60	35.50	36.50
29	34.40		35.55	36.25	34.95	33.90	.....	37.60	34.70	35.00	35.80	37.00
30	34.25		35.50	33.75	36.10	.....	36.35	38.00	34.75	33.55	36.00	37.15
31	35.80		35.50		36.20		35.65	38.25		35.55		35.50

PENNSYLVANIA

By D. R. Rima

Scope of Water-Level Program

The observation-well program in Pennsylvania was continued during 1955 in cooperation with the Topographic and Geologic Survey, Pennsylvania Department of Internal Affairs. This program consists of maintaining a statewide network of observation wells to provide information on the fluctuation of water levels in representative wells. Water-level measurements were made in 175 observation wells, 42 of which were equipped with recording gages. Included in this report are measurements made in 25 wells equipped with recording gages and periodic measurements made in 46 wells. The location of these wells is shown in figures 42-44. The unpublished water-level data are on file in the office of the U. S. Geological Survey, 100 North Cameron St., Harrisburg.

Weekly water levels reported for 16 observation wells in the drainage basin of the Susquehanna River in Pennsylvania are used by the Pennsylvania Water and Power Co. to predict the dry-weather flow of the stream 2 weeks in advance.

The following reports were published by the Pennsylvania Topographic and Geologic Survey: "Ground-water resources of the Lansdale area," 4th ser., Prog. Rept. 146, 24 p. and "Ground-water resources of Bucks County," 4th ser., Bull. W 11, 66 p., 1 pl.

Precipitation

The average of total precipitation in Pennsylvania during 1955 was 40.26 inches, 1.94 inches less than normal and the least since 1949, according to the records of the U. S. Weather Bureau. The maximum was 31.07 inches at Beaver Falls, Beaver County, in western Pennsylvania. During each of 8 months in 1955, precipitation was less than normal. New monthly lows were established during January and December when precipitation averaged only 0.53 inch and 1.03 inches, respectively. April, May, June, July, September, and November were below normal. In contrast, August and October were extremely wet. A record monthly high was established in August when an average of 9.12 inches of precipitation, nearly 2.2 times the normal, occurred. During October an average of 5.74 inches, or about 1.8 times the average long-term expectancy, was recorded.

Pumpage

Estimates based on information furnished by the Pennsylvania Department of Internal Affairs, industrial concerns, and individual well owners indicate that withdrawals of ground water from aquifers averaged about 500 mgd (million gallons per day) in 1955. (These estimates do not include the vast quantities of water pumped to dewater mine and quarry operations.) Of the total amount withdrawn, about 300 mgd was for industrial use, about 120 mgd for municipal supply, and the remainder for agricultural and domestic purposes.

The largest withdrawals were concentrated in the industrial areas of Pittsburgh and Greater Philadelphia, including southeastern Bucks and Montgomery Counties. In the Pittsburgh area, about 50 mgd was withdrawn from the unconsolidated deposits of Pleistocene age along the Ohio and Allegheny Rivers. In the Greater Philadelphia area withdrawals from deposits of Cretaceous and Pleistocene age along the Delaware River averaged about 40 mgd. An additional 20 mgd was withdrawn from bedrock aquifers in Bucks and Montgomery Counties.

Interpretation of Water-Level Fluctuations

A net rise in water level was recorded in most observation wells in Pennsylvania during 1955. A comparison of 1955 water-level data with similar data for previous years shows that in January 1955 water levels were slightly above normal for the first time since early 1953. A decline in February ended with a sharp rise in March, when rain and melting snow raised water levels to their highest stages for the year. The normal seasonal decline that began in April

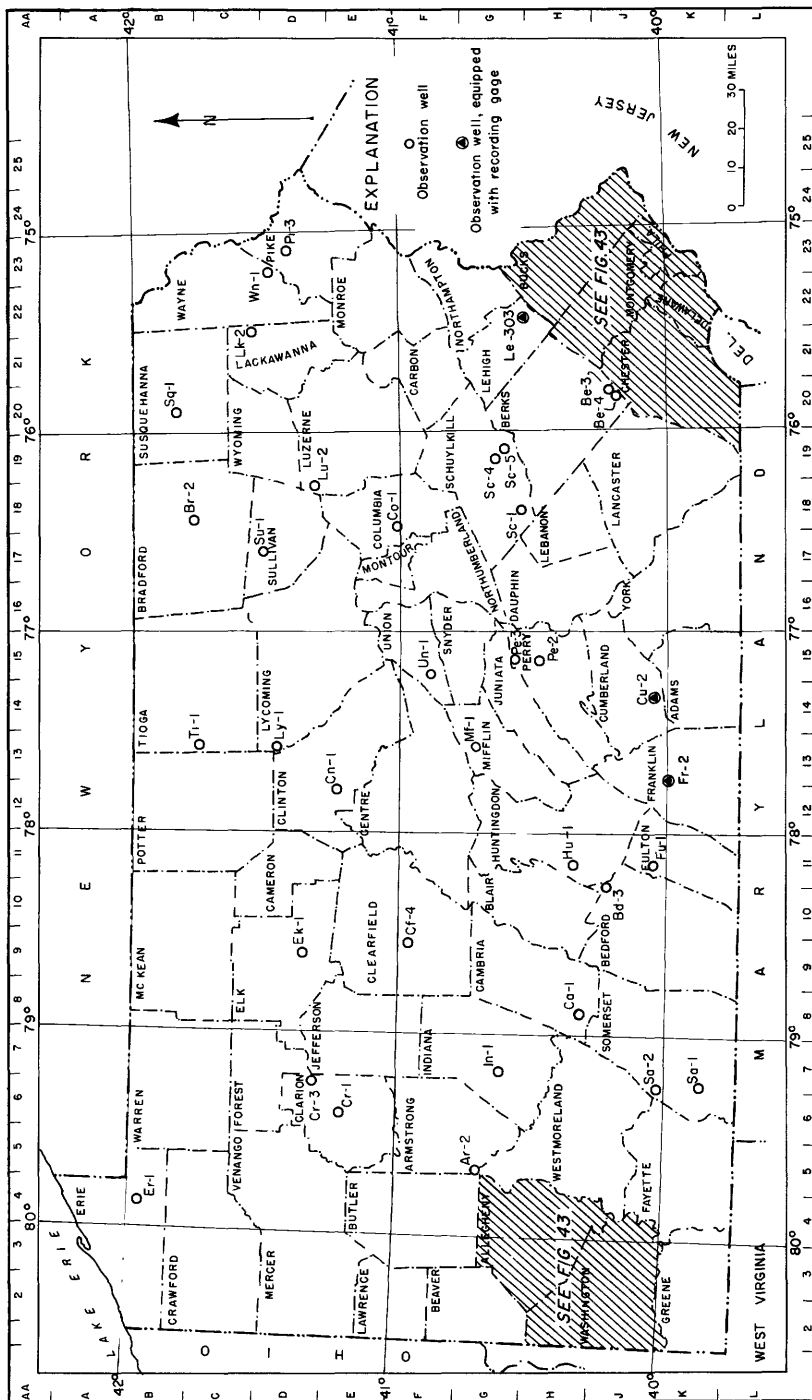


Figure 42. --Location of observation wells in Pennsylvania, 1955.

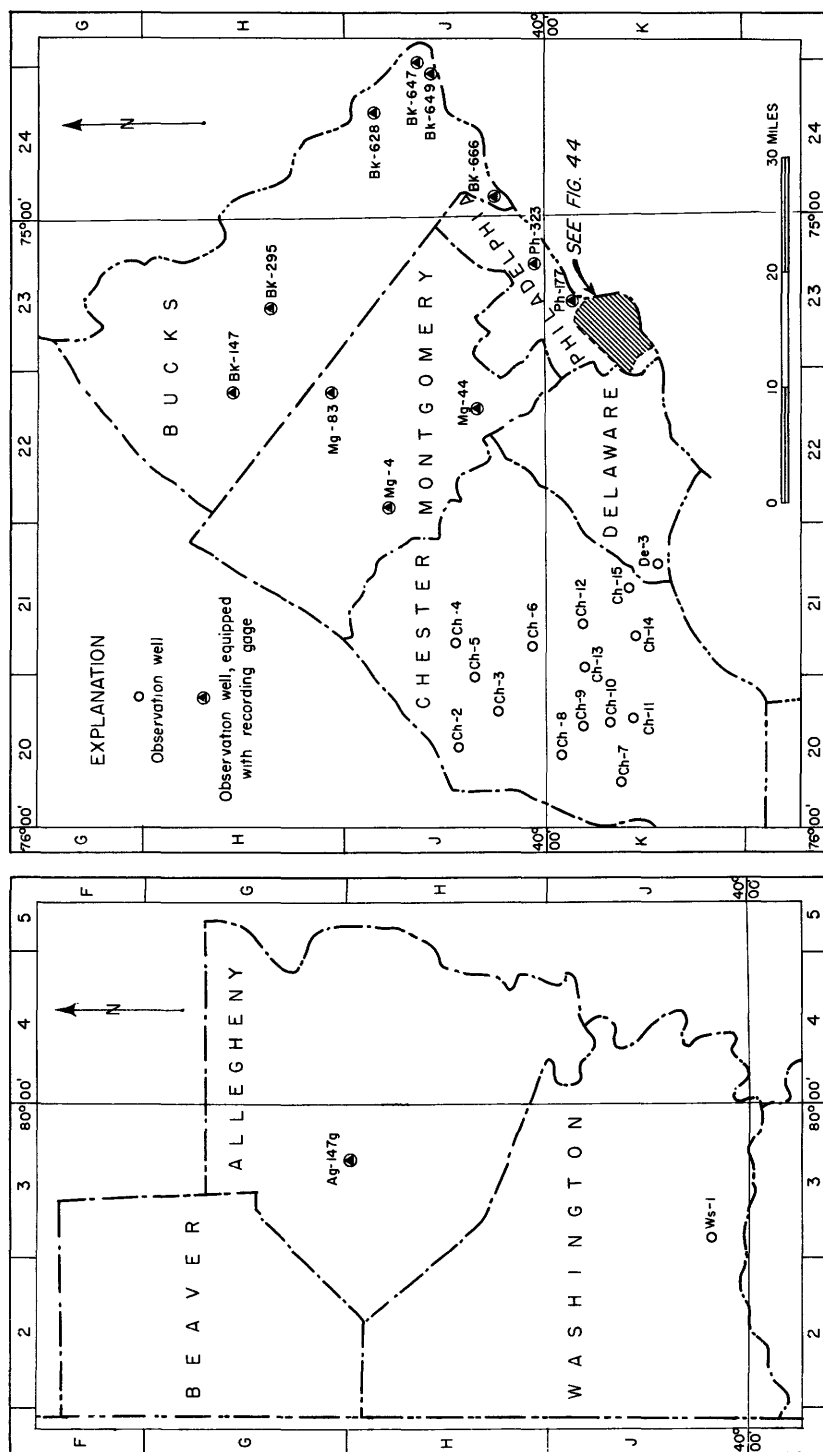


Figure 43.--Location of observation wells in Allegheny, Washington, Chester, Delaware, Bucks, Montgomery, and Philadelphia Counties, Pa., 1955.

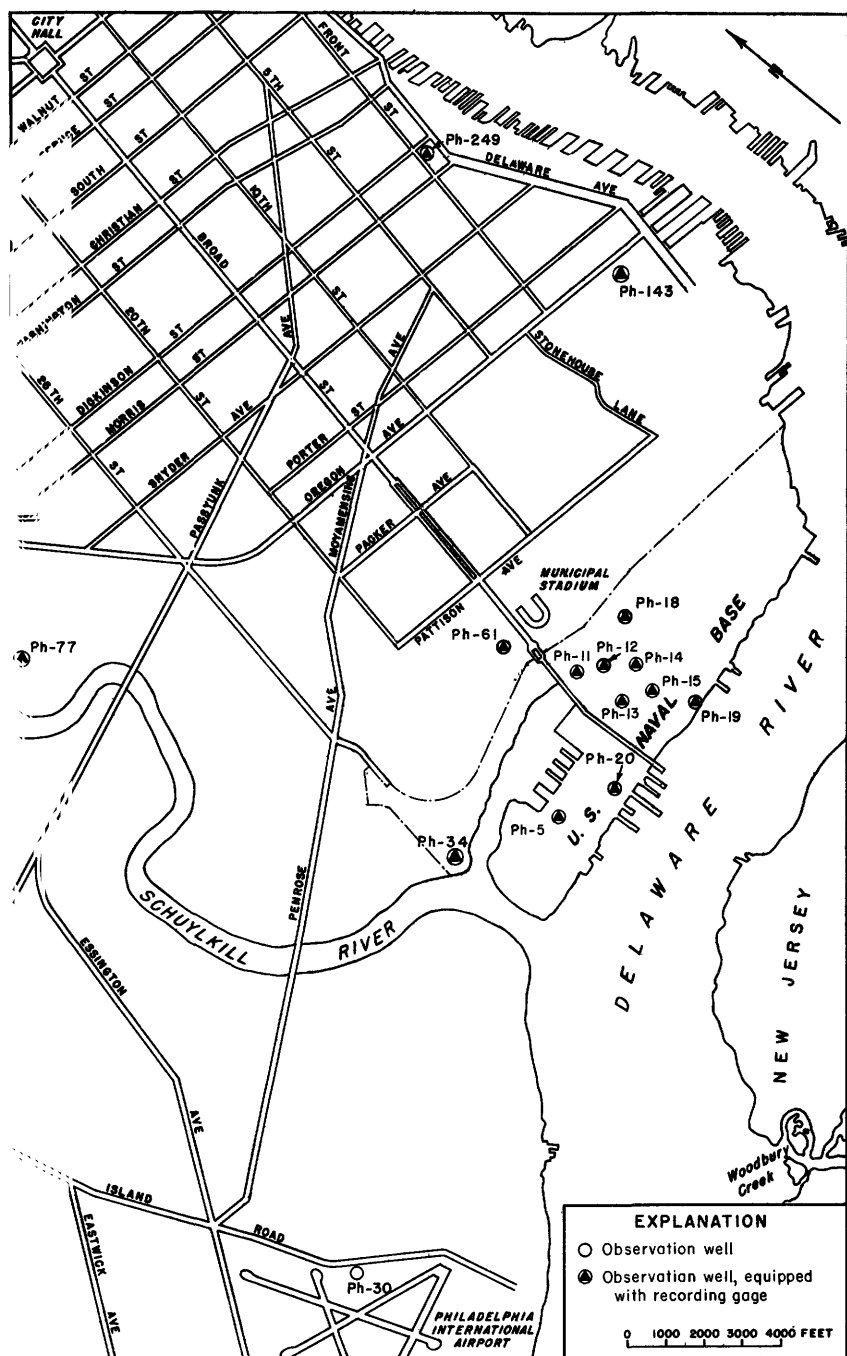


Figure 44. --Location of observation wells in southern part of Philadelphia County, Pa., 1955.

continued through July. Throughout this period, water levels were below normal because of deficient rainfall. In August the unusually heavy rainfalls that accompanied hurricanes "Connie" and "Diane" prevented declines by supplying more than enough recharge to offset the seasonally high rates of evaporation and transpiration. As a result, water levels began to rise and were above normal for the remainder of 1955. Below-normal rainfall in September had no noticeable effect. Heavy rains in late October contributed additional recharge to storage, causing water levels to reach their second highest stage for 1955 in early November. Although in December water levels declined appreciably, reflecting an increase in seepage losses to streams, they were still above normal at the end of 1955.

Because many of the observation wells are in rural areas and are unaffected by pumping from nearby wells, natural changes in ground-water storage are reflected by well records. A rise may be attributed to an increase of ground-water storage, resulting from either precipitation at the outcrop or recharge from a stream hydraulically related to the aquifer tapped by the observation well. A decline may be attributed to a local reduction of ground-water storage, resulting from seepage losses to a nearby stream, from flattening of the water table in an extensive aquifer, or from transpiration and evaporation losses to the atmosphere. The hydrologic significance of a unit rise or fall varies from well to well because of differences in the hydraulic characteristics of aquifers tapped, differences in the topographic situation of water-table wells and the resulting aquifer drainage factors, and differences in local transpiration losses.

In Philadelphia and Allegheny Counties, most observation wells tap aquifers from which moderate to large continuous withdrawals are made. Records from these wells primarily indicate changes in pressure head caused by changes in the rate or locus of the pumping. Interpretation of fluctuations of water level in any well in the Philadelphia or Pittsburgh area, therefore, requires careful study of the local pumping conditions.

Well-Numbering System

The well-numbering system includes an identification number followed by a location number in parentheses. The well-identification number consists of a two-letter symbol for the name of the county and a serial number beginning with 1 in each county. For example, Mg-83 identifies the 83d well recorded in Montgomery County. The well-location number is composed of two parts separated by a hyphen--J22b-1205. "J22b" refers to the coordinate system used to identify the individual $7\frac{1}{2}$ -minute quadrangle areas. The letters A through L (except I) appear along the west border of the map of Pennsylvania (fig. 42). The numbers 1 through 25 appear along the north border. Each pair of coordinates designates a 15-minute quadrangle, subdivided into four parts, "a" representing the northwest quarter, "b" the northeast, "c" the southwest, and "d" the southeast. "1205" identifies the northwest corner of a one-hundredth square-mile area within the $7\frac{1}{2}$ -minute quadrangle designated by "J22b." The first two figures "12" refer to the number of tenths of a mile between the northern boundaries of the $7\frac{1}{2}$ -minute quadrangle and the northern boundary of the one-hundredth square-mile area. The last two figures "05" represent the distance between the western boundaries of the $7\frac{1}{2}$ -minute quadrangle and the one-hundredth square-mile area. Thus, a well having the location number J22b-1205 is situated between 1.2 and 1.3 miles south and between 0.5 and 0.6 mile east of the north and west boundaries, respectively, of the $7\frac{1}{2}$ -minute quadrangle designated "J22b."

Well Descriptions and Water-Level Measurements

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

Allegheny County

Ag-147g(H3b-0428). West View Municipal Water Authority. Neville Island, Pittsburgh. Lat. $40^{\circ}29'30''$, long. $80^{\circ}04'20''$. Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 60 feet. Land-surface datum is 725 feet above m.s.l. Highest water level 23.30 below lsd, Aug. 4, 1950; lowest 46.6 below lsd, Feb. 28-Mar. 2, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.2	45.0	46.6	46.3	45.9	44.2	43.8	43.0	42.3	41.5	41.2	42.6
2	43.5	45.0	46.6	45.7	45.7	44.2	43.8	43.0	42.0	41.5	....	42.6
3	44.0	45.2	46.4	45.7	45.1	44.2	43.7	43.0	41.3	41.5	....	42.5
4	44.3	45.3	46.3	45.9	44.0	44.2	43.3	43.0	40.8	41.5	....	42.2
5	44.4	45.5	46.3	45.9	44.4	44.2	42.6	43.0	40.8	41.6	....	42.3

Ag-147g(H3b-0428)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	44.5	45.7	45.6	45.9	44.6	44.2	42.7	43.0	41.2	41.6	....	42.3
7	44.6	45.9	45.4	45.6	44.9	44.3	42.7	43.0	41.8	41.7	....	42.3
8	44.7	46.0	44.8	45.1	45.0	44.4	42.5	42.9	42.2	41.7	41.7	42.4
9	44.8	46.1	44.9	44.9	45.0	43.8	42.8	42.7	42.3	41.5	41.8	42.4
10	44.8	45.9	45.1	44.7	44.9	43.6	43.2	42.6	42.7	41.5	41.8	42.4
11	44.7	45.4	45.4	45.0	44.9	43.2	43.2	42.6	42.8	41.4	41.5	42.5
12	44.7	45.7	45.4	45.2	44.7	43.6	43.0	42.4	42.9	41.6	41.6	41.7
13	44.5	46.0	45.6	44.8	44.8	43.7	42.9	42.3	42.9	41.6	41.7	41.9
14	44.5	46.1	45.6	44.6	44.9	43.5	42.9	42.3	42.9	41.6	41.7	42.0
15	44.3	46.2	45.3	44.3	45.0	43.2	42.9	42.0	43.1	41.3	41.9	42.2
16	44.4	45.8	44.7	44.1	44.7	43.2	42.9	42.0	43.1	41.3	42.1	42.2
17	44.6	45.4	45.0	44.0	44.5	43.3	42.7	41.5	43.2	41.0	42.3	42.2
18	44.8	45.3	45.0	43.9	44.3	43.5	42.5	42.0	43.2	40.9	42.5	42.3
19	44.8	45.4	44.9	44.0	44.4	43.3	42.6	41.6	43.2	41.0	42.6	42.4
20	44.8	45.6	44.8	44.1	44.6	e43.3	42.8	42.1	43.2	41.1	42.6	42.5
21	44.8	45.6	44.9	43.8	44.7	43.0	42.8	42.7	43.2	41.2	42.6	42.5
22	44.8	45.7	44.6	44.5	44.7	43.1	42.8	41.9	41.6	41.3	42.6	42.5
23	44.8	45.9	44.5	45.4	44.7	43.2	43.0	42.4	41.5	41.3	42.5	42.6
24	44.8	46.1	44.4	46.0	44.7	43.3	43.2	42.4	41.3	41.4	42.5	42.6
25	44.8	46.3	44.8	46.3	44.6	43.4	43.2	42.2	40.9	41.4	42.6	42.6
26	44.8	46.4	45.6	46.3	44.6	43.5	43.2	42.4	41.0	41.6	42.6	42.6
27	44.8	46.5	46.2	46.0	44.6	43.6	42.9	42.3	41.0	41.6	42.6	42.5
28	44.8	46.6	46.5	46.0	44.5	43.7	42.9	42.2	41.2	41.6	42.6	42.6
29	44.9		46.5	46.0	44.5	43.8	42.9	41.8	41.3	41.6	42.5	42.6
30	44.9		46.4	45.9	44.5	43.8	42.9	42.2	41.4	41.6	42.5	42.7
31	44.9		46.5		44.2		42.9	42.3		41.3		42.7

e Estimated.

Armstrong County

Ar-2(G5a-4744). Martin J. Cordera. Schenley. Lat. 40°40'50", long. 79°39'50". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 82 feet. Land-surface datum is about 780 feet above msl. Highest water level 27.83 below lsd, Mar. 29, 1950; lowest 39.95 below lsd, Oct. 28, 1953. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	32.78	Apr. 6	36.42	July 6	38.89	Oct. 5	39.22
12	36.20	13	37.08	13	38.05	12	38.20
19	37.85	20	36.14	20	38.85	19	36.81
26	38.05	27	32.88	27	38.87	26	36.22
Feb. 2	38.80	May 4	36.89	Aug. 3	39.15	Nov. 2	37.25
9	35.26	11	38.00	10	38.99	9	38.02
16	36.25	18	38.34	17	37.50	16	37.14
23	31.27	25	37.92	24	38.65	23	35.29
Mar. 2	32.45	June 1	38.27	31	38.95	30	36.04
9	30.40	8	37.94	Sept. 7	39.09	Dec. 7	34.17
16	33.68	15	36.52	14	39.27	14	37.08
23	33.63	22	38.55	21	39.38	21	38.10
30	35.80	29	38.87	28	39.03	28	35.60

Bedford County

Bd-3(J10b-2363). W. M. Hoffman. Norris and Liberty Sts., Saxton. Lat. 40°12'50", long. 78°15'20". Dug unused water-table well in shale of Chemung formation or Portage group, diameter 5 feet, depth 58 feet, cased with stone. Land-surface datum is about 895 feet above msl. Highest water level 44.08 below lsd, Apr. 16, 1948; lowest 53.69 below lsd, Feb. 13, 1948. Records available: 1941-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	49.60	Apr. 8	50.48	July 8	51.80	Oct. 7	52.52
14	50.34	15	50.62	15	51.92	14	52.56
21	50.60	22	47.02	22	51.06	21	52.62
28	50.86	29	46.96	29	52.18	28	52.66
Feb. 4	51.04	May 6	49.52	Aug. 5	52.43	Nov. 4	52.70
11	50.82	13	50.32	12	52.32	11	52.72
18	50.96	20	50.60	19	52.02	18	52.60
25	50.46	27	50.80	26	51.94	25	52.64
Mar. 4	49.24	June 3	50.98	Sept. 2	52.06	Dec. 2	52.42
11	48.72	10	51.10	9	52.18	9	52.33
18	50.12	17	51.24	16	52.30	16	52.40
25	50.48	24	51.50	23	52.36	23	52.50
Apr. 1	49.98	July 1	51.60	30	52.40	30	52.59

Berks County

Be-3(J20b-3547). Commonwealth of Pennsylvania. French Creek State Park. Near Elver-son. Lat. 40°11'50", long. 75°47'00". Drilled unused water-table well in Vintage dolomite, diameter 4 inches, depth 39 feet. Land-surface datum is about 540 feet above msl. George L. Clouser, voluntary observer. Highest water level 22.43 below lsd, June 22, 1948; lowest below 50.0 below lsd, Nov. 19-Dec. 24, 1954. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	39.74	Apr. 1	35.10	June 17	32.18	Sept. 30	32.07
14	37.79	8	35.0	23	32.15	Oct. 7	32.02
21	37.76	15	34.59	July 1	32.24	14	31.89
28	37.80	22	34.0	8	32.56	21	32.03
Feb. 4	37.86	29	33.48	15	32.84	28	32.26
11	37.65	May 8	33.08	22	33.14	Nov. 4	32.47
18	37.53	13	32.83	Aug. 26	33.38	18	33.04
25	37.14	20	32.69	Sept. 2	33.20	Dec. 2	33.42
Mar. 4	36.43	27	32.68	9	32.96	9	33.60
11	36.04	June 3	32.49	16	32.60	16	34.04
18	35.91	10	32.42	23	32.32	23	34.24
25	35.57						

Be-4(J20b-4426). Commonwealth of Pennsylvania. French Creek State Park. Near Elver-son. Lat. 40°11'00", long. 75°49'30". Dug unused water-table well in sandstone or shale of Stockton formation, diameter 4 feet, depth 20 feet. Land-surface datum is 694 feet above msl. George L. Clouser, voluntary observer. Highest water level 5.04 below lsd, May 2, 1952; lowest dry, Aug. 12, 1949. Records available: 1948-55.

Jan. 7	11.58	Apr. 1	9.41	June 17	9.97	Sept. 30	13.62
14	12.81	8	11.14	23	10.86	Oct. 7	13.61
21	13.59	15	9.32	July 1	12.06	14	13.00
28	14.07	22	9.29	8	12.99	21	11.26
Feb. 4	14.72	29	9.42	15	13.56	28	12.33
11	11.86	May 6	10.03	22	14.15	Nov. 4	12.60
18	11.84	13	12.98	Aug. 26	9.21	18	12.94
25	10.03	20	12.60	Sept. 2	11.06	Dec. 2	13.38
Mar. 4	9.97	27	13.16	9	12.17	9	13.62
11	8.72	June 3	13.16	16	12.85	16	14.06
18	10.86	10	11.75	23	13.43	23	14.16
25	6.86						

Bradford County

Br-2(B18c-7333). C. Holon. East Towanda. Lat. 41°46'00", long. 76°26'00". Dug unused water-table well in shale of Chemung formation and/or drift of Pleistocene age, diameter 30 inches, depth 64 feet, cased with brick. Land-surface datum is about 820 feet above msl. Highest water level 17.00 below lsd, May 25, 1947; lowest 61.70 below lsd, Feb. 15, 1942. Records available: 1931-55.

Jan. 2	35.46	Apr. 3	32.78	July 3	48.39	Oct. 2	55.98
9	32.30	10	36.15	10	49.01	9	56.66
16	37.15	17	36.25	17	49.66	16	51.43
23	40.52	24	35.73	24	50.27	23	33.95
30	43.10	May 1	32.96	31	50.98	31	34.44
Feb. 6	45.10	8	37.22	Aug. 9	51.85	Nov. 6	32.47
13	45.85	15	39.95	14	52.28	13	35.66
20	45.97	22	41.98	21	52.81	21	29.00
27	44.44	29	43.53	28	53.29	27	30.27
Mar. 6	37.34	June 5	44.75	Sept. 4	53.84	Dec. 4	34.27
13	31.17	12	45.77	11	54.35	11	36.30
20	29.72	19	46.77	18	54.91	18	38.82
27	28.40	26	47.62	24	55.38	25	41.17

Bucks County

Bk-147(H22d-0338). Heat Transfer Products, Inc. Park Ave. north of 7th St. Perkasio. Lat. 40°22'11", long. 75°18'11". Drilled unused water-table well in Brunswick shale, diameter 8 inches, depth 350 feet. Land-surface datum is about 395 feet above msl. Highest water level 47.5 below lsd, Mar. 6, 1955; lowest 52.6 below lsd, Oct. 21, 1953. Records available: 1953-55. Recording gage removed Oct. 11.

Bk-147(H22d-0338)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.3	50.2	48.7	49.0	49.4	50.5	50.3	51.0	49.9	49.3	....	....
2	49.2	50.4	49.3	48.9	49.4	50.5	50.4	51.0	49.9	49.3	....	....
3	49.3	50.6	49.6	48.8	49.5	50.5	50.4	51.2	49.8	49.4	....	....
4	49.3	50.8	48.0	48.9	49.3	50.4	50.3	51.3	49.9	49.4	....	....
5	49.3	50.7	49.0	49.2	49.2	50.3	50.3	51.3	49.9	49.5	....	....
6	49.3	49.2	47.5	49.0	49.3	50.3	50.3	51.3	50.0	49.6	....	....
7	49.4	49.1	48.5	49.0	49.5	50.5	50.2	51.1	49.8	49.7	....	....
8	49.4	50.1	49.2	49.2	49.3	50.5	50.3	51.0	49.7	49.8	....	....
9	49.4	50.2	49.0	49.3	49.4	50.4	50.3	51.2	49.6	49.8	....	....
10	49.4	51.1	49.0	49.2	49.6	50.5	50.3	51.2	49.6	49.9	....	....
11	49.5	49.6	48.9	49.2	49.5	50.3	50.3	51.0	49.6	50.0	....	....
12	49.5	49.7	49.2	49.4	49.7	50.2	50.3	48.5	49.5	....	....	....
13	49.4	50.2	49.1	49.5	49.8	50.2	50.3	46.2	48.8	....	....	....
14	49.6	50.0	49.3	49.4	49.7	50.4	50.2	50.0	48.7	....	....	....
15	49.5	49.9	49.3	49.3	49.8	50.4	50.1	50.0	48.9	....	....	....
16	49.5	50.0	49.0	49.4	49.8	50.5	50.1	50.0	48.7	....	....	....
17	49.7	49.9	49.2	49.5	49.8	50.6	50.2	50.0	48.6	....	....	....
18	49.8	50.0	49.2	49.4	49.9	50.7	50.2	50.0	48.7	....	....	....
19	49.8	50.0	49.3	49.3	49.9	50.4	50.3	50.3	49.0	....	....	....
20	50.0	49.9	49.4	49.3	50.0	50.2	50.6	50.2	49.6	....	....	....
21	50.0	49.9	48.7	49.4	50.1	50.3	50.6	50.1	49.4	....	....	....
22	49.9	49.8	46.8	49.2	50.2	50.3	50.7	50.2	49.3	....	....	....
23	49.9	48.3	48.2	49.2	50.1	50.3	50.8	50.2	49.2	....	....	....
24	49.9	49.8	48.8	49.1	50.1	50.3	50.7	50.1	49.2	....	....	....
25	50.0	49.7	48.9	49.0	50.1	50.4	50.7	50.1	49.4	....	....	....
26	50.1	49.7	48.4	49.2	50.3	50.3	50.9	50.0	49.2	....	....	....
27	50.2	49.4	48.5	49.3	50.5	50.3	51.0	50.1	49.3	....	....	....
28	50.2	49.4	48.7	49.3	50.6	50.4	51.0	50.0	49.4	....	....	....
29	50.2		48.8	49.3	50.3	50.4	51.1	50.1	49.4	....	....	....
30	50.2		49.0	49.3	50.6	50.4	51.2	50.0	49.4	....	....	....
31	50.3		49.1		50.4		51.1	50.0	..	....	....	....

Bk-295(H23c-4063). Modern Cleaners. Doylestown. Lat. 40°18'58", long. 75°07'49". Drilled unused water-table well in Stockton formation, diameter 6 inches, depth 67 feet. Land-surface datum is about 390 feet above msl. Highest water level 20.68 below lsd, May 7, 1953; lowest 46.40 below lsd, Nov. 6-7, 1953. Records available: 1953-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.9	29.6	29.7	23.4	26.0	29.3	33.2	42.7	....	26.8	23.9	....
2	33.4	29.7	29.7	23.4	26.2	29.7	33.7	....	....	26.9	24.0	....
3	33.0	29.7	29.7	23.4	26.5	30.0	34.2	....	....	27.0	24.0	....
4	32.9	29.8	29.6	23.4	26.6	30.3	34.8	....	....	27.2	....	....
5	32.8	29.8	29.4	23.5	26.6	30.7	35.3	....	25.3	27.4	....	....
6	32.4	29.8	28.9	23.5	26.6	31.1	35.8	....	25.4	27.5	....	....
7	31.9	29.8	28.4	23.6	26.6	31.2	36.2	....	25.5	27.6	....	....
8	31.5	29.9	27.9	23.7	26.7	31.2	36.5	....	25.8	27.6	....	....
9	31.2	30.1	27.4	23.7	26.7	31.2	36.9	....	26.0	27.6	....	....
10	30.8	30.2	27.1	23.7	26.7	31.1	37.2	....	26.2	27.7	23.7	....
11	30.6	30.3	26.8	23.9	26.9	31.1	37.5	....	26.3	27.4	23.8	....
12	30.4	30.3	26.7	24.1	27.0	31.0	37.8	....	26.3	27.5	24.0	....
13	30.3	30.3	26.5	24.2	27.1	30.9	38.1	....	26.3	27.5	24.0	27.5
14	30.3	30.3	26.4	24.3	27.1	30.9	38.6	....	23.9	27.5	24.2	27.6
15	30.2	30.3	26.3	24.4	27.3	30.9	39.3	....	24.1	27.4	24.3	27.6
16	30.0	30.4	26.2	24.5	27.3	30.9	39.8	....	24.3	26.5	....	27.7
17	29.8	30.7	26.3	24.6	27.3	31.1	40.2	....	24.6	25.5	....	27.8
18	29.8	30.9	26.3	24.7	27.4	31.2	40.7	35.9	24.7	24.6	....	27.9
19	29.7	30.9	26.4	24.7	27.5	31.2	41.0	26.0	24.9	24.2	....	28.0
20	29.7	30.8	26.4	24.8	27.7	31.3	41.3	25.3	25.1	23.9	....	28.0
21	29.7	30.7	26.4	24.9	27.9	31.4	41.7	....	25.3	23.7	....	28.1
22	29.6	30.8	26.3	24.9	28.0	31.5	42.0	....	25.5	23.5	....	28.1
23	29.6	30.8	25.9	25.0	28.1	31.7	42.5	....	25.6	23.5	....	28.2
24	29.6	30.8	25.3	25.1	28.2	31.8	42.4	....	25.8	23.3	....	28.4
25	29.6	30.6	25.0	25.3	28.4	31.9	42.4	....	26.1	23.4	....	28.6

Bk-295(H23c-4063)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	29.6	30.5	24.6	25.4	28.5	31.9	42.9	....	26.3	23.4	....	28.8
27	29.6	30.2	24.2	25.5	28.7	32.1	43.0	....	26.3	23.5	....	29.0
28	29.6	29.8	23.8	25.6	28.8	32.4	43.0	....	26.5	23.5	....	29.2
29	29.6		23.7	25.8	28.9	32.5	42.9	....	26.5	23.5	....	29.5
30	29.6		23.6	25.9	29.0	32.7	42.8	....	26.6	23.7	....	29.7
31	29.6		23.6		29.1		42.6	....	26.6	23.7		29.9

Bk-628(J24b-3857). Morrisville Borough. Pennsylvania Ave., Falls Township. Near Morrisville. Lat. 40°11'40", long. 74°46'00". Drilled unused artesian well in sand and gravel of Wisconsin or Recent age, diameter 16 to 10 inches, depth 175 feet, screen 139-164. Land-surface datum is about 15 feet above msl. Highest water level 15.2 below lsd, Apr. 3, 1953; lowest 18.9 below lsd, Dec. 2, 1953. Records available: 1953-55. Recording gage removed June 19.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	17.7	18.3	18.1	17.2	17.2	18.2
2	17.7	18.3	18.0	17.1	17.4	18.2
3	17.7	18.3	18.0	17.1	17.4	18.2
4	17.7	18.4	17.9	17.1	17.5	18.1
5	17.7	18.3	17.8	17.1	17.5	18.1
6	17.7	18.3	17.7	17.1	17.5	18.1
7	17.7	....	17.7	17.1	17.4	18.1
8	17.8	....	17.7	17.2	17.5	18.0
9	17.7	....	17.6	17.2	17.6	17.9
10	17.8	....	17.6	17.3	17.6	17.9
11	17.8	18.0	17.6	17.3	17.6	17.8
12	17.7	18.2	17.6	17.3	17.7	17.8
13	17.8	18.3	17.5	17.3	17.7	17.9
14	17.8	18.2	17.5	17.3	17.7	18.0
15	17.8	18.1	17.5	17.3	17.7	18.0
16	17.8	18.1	17.5	17.3	17.8	18.1
17	17.9	18.1	17.6	17.2	17.9	18.1
18	18.0	18.1	17.7	17.3	17.9	18.1
19	18.0	18.1	17.7	17.3	17.9	18.1
20	18.1	18.1	17.7	17.4	17.9	....
21	18.1	18.1	17.7	17.3	17.9	....
22	18.0	18.2	17.6	17.3	18.0	....
23	18.0	18.1	17.2	17.2	18.0	....
24	18.0	18.1	17.1	17.3	18.0	....
25	18.0	18.1	17.0	17.3	18.0	....
26	18.1	18.0	16.8	17.3	18.0	....
27	18.2	18.0	17.0	17.3	18.1	....
28	18.2	18.1	17.2	17.3	18.0	....
29	18.2		17.2	17.3	18.0	....
30	18.2		17.2	17.2	18.0	....
31	18.3		17.2		18.1	..

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

Bk-647(J25a-5506). United States Steel Corp. Fairless Works. Falls Township. Near Morrisville. Lat. 40°10'10", long. 74°44'10". Drilled unused water-table well in sand and gravel of Wisconsin or Recent age, diameter 6 inches, depth 62 feet, screen 34-53. Land-surface datum is about 15 feet above msl. Highest water level 9.98 below lsd, Mar. 15, 1951; lowest 15.97 below lsd, Oct. 25, 1951. Records available: 1950-55.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.9	14.4	13.8	13.7	....	13.6	13.7	13.7	....	....	11.6	....
2	13.8	14.4	13.8	13.7	....	13.6	13.6	13.7	....	....	11.6	....
3	13.7	14.4	13.8	13.6	....	13.5	13.6	13.8	....	....	12.0	....
4	13.7	14.6	13.8	13.6	13.1	13.5	13.6	13.7	....	....	12.0	....
5	13.7	14.5	13.6	13.5	13.1	13.4	13.5	13.9	....	....	12.0	11.0
6	13.6	14.4	13.5	13.5	13.1	13.3	13.6	13.9	....	....	12.0	....
7	13.8	14.1	13.4	13.6	13.1	13.3	13.5	13.9	....	....	12.0	....
8	14.0	13.9	13.5	13.8	13.1	13.3	13.5	....	....	....	....	....
9	13.7	13.9	13.5	13.7	13.4	13.0	13.5	13.7	....	....	....	....
10	13.7	14.0	13.6	13.7	13.3	13.0	13.5	13.7	....	....	....	....

Bk-647(J25a-5506)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	13.7	14.0	13.6	13.8	e13.3	13.0	13.5	13.7	....	....	....	....
12	13.6	14.4	13.5	13.7	13.4	13.0	13.6	13.6	....	....	....	h12.39
13	13.7	14.5	13.5	13.7	13.3	13.2	13.7	13.1	....	....	....	....
14	13.9	14.5	13.4	13.7	13.4	13.3	13.6	13.2	....	....	12.5	....
15	13.9	14.2	13.4	13.6	13.4	13.3	13.7	12.2	....	....	12.4	....
16	13.8	14.2	13.4	13.7	13.3	13.4	13.7	12.2	....	....	....	....
17	14.0	14.2	13.7	13.6	13.5	13.5	13.8	12.3	....	10.0	....	....
18	14.1	14.2	13.8	13.6	13.4	13.4	13.7	11.9	....	10.4	....	....
19	14.1	14.2	13.8	13.5	13.5	13.4	13.7	....	....	10.8	....	h12.52
20	14.2	14.1	13.8	13.5	13.5	13.4	13.7	....	....	10.8	....	....
21	14.2	14.0	13.8	13.4	13.5	13.4	13.7	....	....	....	11.2	....
22	e14.1	14.0	13.7	13.3	13.5	13.4	13.6	....	....	....	11.6	....
23	....	13.9	13.3	13.3	13.5	13.4	13.7	....	....	....	11.4	....
24	....	13.9	13.3	13.2	13.5	13.5	13.7	....	....	11.3	11.5	....
25	....	13.9	13.2	13.1	13.5	13.5	13.7	....	....	11.9	11.6	....
26	....	13.8	....	13.0	13.6	13.4	13.7	....	....	11.9	11.5	....
27	14.1	13.8	....	e13.0	13.6	13.5	13.7	....	....	11.9	11.5	h12.99
28	14.3	13.8	....	....	13.5	13.6	13.9	....	....	12.0	11.4	....
29	14.2	....	....	....	13.5	13.6	13.9	....	....	12.0	....	....
30	14.3	....	....	....	13.4	13.7	13.8	....	....	11.9	....	....
31	14.3	....	....	....	13.4	....	13.9	....	....	11.4	....	....

e Estimated.

h Tape measurement.

Bk-649(J24b-5665). United States Steel Corp. Fairless Works. Falls Township. 3.0 miles south of Morrisville. Lat. 40°10'08", long. 74°45'07". Drilled observation water-table well in sand and gravel of Wisconsin or Recent age, diameter 12 inches, depth 34 feet. Land-surface datum is about 20 feet above msl. Highest water level 14.5 below lsd, Oct. 17, 1955; lowest 18.9 below lsd, Feb. 10, 1955. Records available: 1953-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.9	....	18.2	e17.7	17.7	18.4	18.5	18.7	16.2	16.9	16.3	17.7
2	17.9	....	18.1	17.7	17.7	18.4	18.5	18.7	16.2	16.9	16.3	17.6
3	17.9	....	18.2	17.7	17.9	18.4	18.5	18.8	16.2	16.9	16.3	17.5
4	17.9	e18.7	18.2	17.6	17.8	18.4	18.5	18.8	16.2	17.0	16.4	17.5
5	17.8	18.7	e18.0	17.7	17.8	18.3	18.5	18.8	16.3	17.0	16.6	17.5
6	17.7	18.6	....	17.5	17.8	18.3	18.5	18.8	16.4	17.0	16.7	17.6
7	....	18.4	....	17.6	17.8	18.2	18.5	18.8	16.4	17.0	16.7	17.6
8	....	18.2	....	17.9	17.9	18.2	18.5	18.7	16.5	16.9	16.8	17.6
9	....	18.1	....	18.0	18.0	18.1	18.5	18.7	16.6	17.0	16.9	17.6
10	....	18.9	e17.1	17.9	18.0	18.0	18.5	18.6	16.6	17.0	16.9	17.7
11	....	18.1	17.1	18.0	18.0	18.0	18.5	18.7	16.6	17.1	16.9	17.7
12	....	18.3	17.1	18.0	18.1	17.9	18.6	18.6	16.7	17.1	16.9	17.8
13	....	18.6	17.1	18.0	18.1	18.0	18.5	18.4	16.8	17.1	17.0	18.0
14	....	18.6	17.0	18.0	18.1	18.1	18.6	17.1	16.8	17.0	17.0	17.9
15	e18.1	18.4	17.0	17.9	18.1	18.2	18.6	17.2	16.8	16.8	17.0	17.9
16	18.1	18.4	17.0	....	18.2	18.2	18.6	17.3	16.8	....	17.0	18.0
17	18.2	18.3	18.1	....	18.2	18.2	18.6	17.3	16.8	14.5	16.9	18.0
18	18.4	18.3	18.1	17.8	18.2	18.2	18.6	17.3	16.8	14.6	17.1	18.0
19	18.4	18.4	18.1	17.8	18.2	18.3	18.6	17.3	16.8	15.0	17.2	18.0
20	18.4	18.3	18.0	17.8	18.2	18.3	18.6	17.3	16.8	15.4	17.2	18.2
21	18.5	18.3	e18.0	17.8	18.2	18.3	18.6	17.3	16.9	15.6	17.2	18.2
22	18.3	18.3	....	17.7	18.2	18.2	18.6	17.4	16.8	15.9	17.2	18.2
23	18.2	18.2	....	17.7	18.2	18.2	18.6	17.4	16.9	16.1	17.2	18.2
24	18.2	18.2	....	17.7	18.2	18.2	18.6	17.2	16.8	16.1	17.2	18.2
25	18.2	18.2	....	17.7	18.2	18.2	18.7	17.2	17.0	16.4	17.3	18.1
26	18.2	18.2	....	17.5	18.2	18.3	18.6	17.2	16.9	16.4	17.3	18.1
27	e18.3	18.2	....	17.6	18.3	18.4	18.6	17.2	16.8	16.5	17.3	18.3
28	....	18.1	....	17.6	18.3	18.4	18.7	....	16.8	16.5	17.3	18.3
29	....	....	....	17.7	18.2	18.5	18.7	....	16.9	16.6	17.4	18.2
30	....	....	....	17.7	18.3	18.5	18.7	....	16.9	16.5	17.5	18.1
31	....	....	....	....	18.3	....	18.7	16.0	....	16.4	....	18.2

e Estimated.

Bk-666(J24c-4015). Mack Transportation Co. Andalusia, Bensalem Township. Lat. 40°03'58", long. 74°58'18". Drilled unused water-table well in Wissahickon formation, diameter 8 inches, depth 219 feet. Land-surface datum is about 45 feet above msl. Highest water level 7.6 below lsd, Mar. 26, 1955; lowest 13.6 below lsd, Nov. 10, 1953. Records available: 1953-55.

Bk-666(J24c-4015)--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.8	11.2	9.8	8.2	7.9	11.4	....	12.5	11.3	12.5	....	....
2	10.5	11.4	10.0	8.3	9.9	11.4	....	12.6	11.3	12.5	....	....
3	10.5	11.4	10.1	8.7	9.9	11.4	....	12.6	11.3	12.5	....	....
4	10.2	11.4	9.7	9.0	9.8	11.4	....	12.6	11.3	12.5	....	....
5	10.2	11.4	9.4	9.0	9.9	11.5	....	12.7	11.4	12.5	....	....
6	10.2	11.2	9.1	8.7	10.1	11.5	....	12.7	11.4	12.5	....	....
7	10.2	11.3	8.7	9.1	10.1	11.6	....	12.7	11.6	12.5	....	....
8	10.3	11.2	8.6	9.3	10.2	11.5	....	12.8	11.6	12.5	....	....
9	10.2	11.1	8.5	9.3	10.3	11.5	....	12.8	11.6	12.5	....	....
10	10.3	11.0	8.7	9.3	10.3	11.5	....	12.8	11.6	12.5	10.7	....
11	10.3	10.8	8.9	9.4	10.4	11.4	....	12.8	11.7	12.5	10.7	....
12	10.3	10.9	8.9	9.5	10.4	e11.2	....	12.8	11.8	12.2	10.7	11.3
13	10.3	10.8	9.3	9.5	10.5	....	....	12.8	12.0	12.2	10.7	11.3
14	10.4	10.7	9.4	9.1	10.6	....	....	12.8	11.9	12.2	10.6	11.2
15	10.4	10.4	9.2	9.0	10.7	....	11.7	12.8	12.0	12.1	10.6	11.4
16	10.5	10.4	9.3	9.3	10.6	11.4	11.8	12.7	12.1	11.9	10.5	11.4
17	10.6	10.4	9.4	9.3	10.8	11.5	11.9	12.4	12.1	11.7	10.7	11.4
18	10.7	10.4	9.3	9.3	10.8	11.5	12.0	12.4	12.1	11.5	10.8	11.4
19	10.7	10.3	9.4	9.1	10.9	e11.5	11.9	12.3	12.1	11.5	10.7	11.5
20	10.8	10.3	9.4	9.3	11.0	....	12.0	12.2	12.3	....	10.7	11.5
21	10.8	10.3	9.2	9.2	11.1	....	12.0	12.1	12.3	....	....	11.5
22	10.7	10.3	8.8	9.1	11.1	....	12.1	11.9	12.3	....	....	11.4
23	10.8	10.3	7.7	9.2	11.0	....	12.2	11.7	12.3	....	....	11.5
24	10.9	10.2	7.7	9.2	11.1	....	12.0	11.6	12.4	....	....	11.5
25	10.9	10.0	7.8	9.3	11.2	....	12.1	11.4	12.4	....	....	11.7
26	11.0	10.0	7.6	9.4	11.3	....	12.1	11.3	12.4	....	....	11.7
27	11.2	9.8	7.7	9.5	11.4	....	12.2	11.1	12.4	....	....	11.8
28	11.1	9.8	7.8	9.6	11.4	....	12.2	11.2	12.5	....	....	11.8
29	11.1		8.0	9.7	11.4	....	12.3	11.2	12.4	....	....	11.7
30	11.3		8.2	9.8	11.4	....	12.3	11.2	12.4	....	....	11.7
31	11.3		8.2		11.4	....	12.4	11.2	....	....	....	11.7

e Estimated.

Cambria County

Ca-1(H8c-3343). Johnstown Tribune Publishing Co. Lat. 40°19'38", long. 78°55'06".

Drilled unused water-table well in sandstone of Allegheny formation of Pennsylvanian age, diameter 12 to 8 inches, depth 45 feet. Land-surface datum is about 1,160 feet above msl. Highest water level 18.75 below lsd, Mar. 7, 1955; lowest 26.78 below lsd, July 23, 1953.

Records available: 1952-55. Measurement by owner.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	21.20	Apr. 7	20.90	July 7	20.70	Oct. 3	21.00
6	21.20	11	20.90	11	21.40	6	20.60
10	22.10	14	21.10	14	22.10	10	21.10
13	22.00	18	20.95	18	23.40	13	20.75
17	22.70	21	20.30	21	23.20	17	19.85
20	23.80	25	18.80	25	22.65	20	21.30
24	23.25	28	19.55	28	21.30	24	20.70
27	23.15	May 2	19.40	Aug. 1	21.10	27	21.30
31	22.60	5	20.00	4	23.40	31	20.35
Feb. 3	23.00	9	20.50	5	22.77	Nov. 3	20.75
7	21.70	12	20.70	8	21.65	7	20.10
10	21.75	16	20.55	11	22.70	10	20.55
14	21.40	19	20.85	15	19.60	14	20.20
17	22.55	23	20.70	18	22.80	17	19.00
21	21.65	26	21.10	22	22.45	21	19.35
24	20.35	30	20.70	25	21.90	24	19.45
28	20.40	June 2	21.10	29	22.95	28	19.60
Mar. 3	20.00	6	21.40	Sept. 1	21.70	Dec. 1	20.45
7	18.75	9	19.25	5	23.20	5	20.20
10	20.20	13	19.60	8	21.60	8	20.20
14	20.60	16	20.50	12	21.30	12	20.10
17	20.80	20	21.55	15	21.65	15	19.90
21	20.10	23	22.80	19	21.30	19	20.35
24	19.85	27	20.90	22	21.55	22	21.00
28	19.85	30	21.30	26	20.90	26	20.25
31	20.80	July 5	20.90	29	21.00	29	20.10
Apr. 4	20.90						

Chester County

Ch-2(J20d-0709). L. R. Shingle. Honeybrook Township. Lat. 40°06'50", long. 75°51'20". Dug unused water-table well in Precambrian granodiorite or quartz monzonite, diameter 36 inches, depth 15 feet, cased with stone. Land-surface datum is about 640 feet above msl. Highest water level 3.50 below lsd, Mar. 11, 1952; lowest 12.78 below lsd, Oct. 30, 1951. Records available: 1951-55. Jan. 12, 10.66; Mar. 17, 9.65; May 17, 9.94. Measurement discontinued.

Ch-3(J20d-4839). Fred M. Anderson. West Brandywine Township. Lat. 40°03'20", long. 75°48'00". Dug unused water-table well in Precambrian granodiorite, diameter 36 inches, depth 31 feet, cased with stone. Land-surface datum is about 600 feet above msl. Mrs. Fred M. Anderson, voluntary observer. Highest water level 17.88 below lsd, June 5, 1952; lowest 29.75 below lsd, Nov. 18, 1953. Records available: 1951-54. Measurement discontinued.

Ch-4(J21c-0838). Richland Rebmman, Jr. West Vincent Township. Lat. 40°06'40", long. 75°40'30". Dug unused water-table well in Precambrian quartz monzonite, diameter 4 feet, depth 30 feet, cased with stone. Land-surface datum is about 570 feet above msl. Highest water level 19.45 below lsd, May 2, 1952; lowest 28.03 below lsd, Oct. 23, 1951. Records available: 1951-55. Jan. 12, 26.59; Mar. 17, 25.41; May 17, 25.62; Sept. 14, 23.08; Oct. 11, 24.19; Nov. 10, 25.0; Dec. 13, 24.47.

Ch-5(J21c-2001). Richard Cadbury. Wallace Township. Lat. 40°05'40", long. 75°44'50". Dug unused water-table well in Precambrian quartz monzonite, diameter 30 inches, depth 12 feet, cased with stone. Land-surface datum is about 560 feet above msl. Highest water level 1.55 below lsd, Apr. 29, 1952; lowest dry, Nov. 6-Dec. 4, 1954. Records available: 1951-55. Richard Cadbury, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	10.92	Mar. 26	2.69	June 25	4.04	Oct. 1	1.99
22	10.60	Apr. 2	2.46	July 2	4.31	8	1.98
29	10.55	9	2.50	9	4.65	15	1.96
Feb. 5	10.55	16	2.52	16	5.06	22	2.17
7	10.55	23	2.47	23	5.64	29	2.26
8	10.55	29	2.48	Aug. 7	6.70	Nov. 5	2.32
10	10.53	May 7	2.49	13	4.89	12	2.42
12	10.48	14	2.64	15	2.50	19	2.32
19	10.29	21	2.92	20	1.87	26	2.80
26	9.95	28	3.23	27	2.11	Dec. 3	3.15
Mar. 5	9.35	June 4	3.54	Sept. 3	2.11	10	3.51
9	7.89	9	3.64	10	2.09	17	3.83
12	6.71	11	3.80	17	2.08	24	4.13
19	5.96	18	3.87	24	1.92	31	4.51
23	4.35						

Ch-6(J21c-7630). John J. Englerth. Downingtown. Lat. 40°00'40", long. 75°41'30". Dug unused water-table well in Ledger dolomite, diameter 5 feet, depth 20 feet, cased with stone. Land-surface datum is about 270 feet above msl. Highest water level 11.43 below lsd, May 17, 1955; lowest 18.15 below lsd, Oct. 23, 1953. Records available: 1951-55. Jan. 12, 16.84; Mar. 17, 15.42; May 17, 11.43.

Ch-7(K20a-7146). D. L. Gibbs. Cochranville. Lat. 39°53'40", long. 75°54'40". Dug unused water-table well in Peters Creek quartzite, diameter 4 feet, depth 40 feet, cased with stone. Land-surface datum is about 560 feet above msl. Highest water level 28.05 below lsd, May 2, 1952; lowest 38.60 below lsd, Nov. 12, 1954. Records available: 1951-55. Jan. 12, 36.95; Mar. 17, 35.97; May 17, 36.22; Sept. 14, 33.82; Oct. 12, 34.83; Nov. 11, 35.01, Dec. 13, 34.04.

Ch-8(K20b-1001). John Robinson. Valley Township. Lat. 39°59'00", long. 75°52'20". Dug unused water-table well in Baltimore gneiss, diameter 36 inches, depth 20 feet, cased with stone. Land-surface datum is about 660 feet above msl. Highest water level 6.86 below lsd, Apr. 27, 1952; lowest 19.30 below lsd, Nov. 12, 1954. Records available: 1951-55. Jan. 12, 17.66; Mar. 17, 15.76; May 17, 14.70; Oct. 12, 13.32; Nov. 11, 14.17; Dec. 13, 15.15.

Ch-9(K20b-3329). C. Raymond Young. Youngsburg. Lat. 39°57'00", long. 75°49'10". Dug unused water-table well in Peters Creek quartzite, diameter 30 inches, depth 25 feet, cased with stone. Land-surface datum is about 510 feet above msl. Highest water level 10.90 below lsd, June 6, 1952; lowest 23.05 below lsd, Nov. 12, 1954. Records available: 1951-55. Jan. 12, 20.45; Mar. 17, 18.30; May 17, 18.08; Aug. 18, 18.46; Sept. 14, 14.40; Oct. 12, 16.09; Nov. 11, 17.87; Dec. 13, 17.90.

Ch-10(K20b-5932). Robert J. Kleberg, Jr. Doe Run. Lat. 39°54'40", long. 75°48'50". Drilled unused water-table well in Cockeysville marble, diameter 6 inches, depth 34 feet. Land-surface datum is about 300 feet above msl. Highest water level 8.46 below lsd, Apr. 29, 1952; lowest 15.73 below lsd, Nov. 12, 1954. Records available: 1951-55. Clyde Jackson, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	14.67	Aug. 18	11.96	Nov. 13	11.9	Dec. 11	14.7
Mar. 17	13.46	Sept. 14	13.20	27	12.9	31	15.22
May 17	14.84	Oct. 12	14.08				

Ch-11(K20b-7632). J. E. Ryan. West Marlboro Township. Lat. 39°53'10", long. 75°48'50". Dug unused water-table well in Baltimore gneiss, diameter 24 inches, depth 20 feet, cased with stone. Land-surface datum is about 540 feet above msl. Highest water level 10.24 below lsd, Mar. 20, 1953; lowest 15.16 below lsd, Sept. 14, 1954. Records available: 1950-55.

Jan. 12	14.31	May 17	13.97	Sept. 14	20.30	Nov. 11	14.20
Mar. 17	13.76	Aug. 18	13.78	Oct. 12	13.47	Dec. 13	13.78

Ch-12(K21a-3149). Thomas P. Harney. East Bradford Township. Lat. 39°57'10", long. 75°39'20". Dug unused water-table well in Baltimore gneiss, diameter 30 inches, depth 40 feet, cased with stone. Land-surface datum is about 290 feet above msl. Highest water level 29.95 below lsd, Apr. 18, 1953; lowest dry several times, 1951-55. Records available: 1951-55. Jan. 12, dry; Mar. 17, dry.

Ch-13(K21a-3512). Everett S. Barr. West Bradford Township. Lat. 39°57'00", long. 75°43'40". Dug unused water-table well in Peters Creek quartzite, diameter 24 inches, depth 18 feet, cased with stone. Land-surface datum is about 360 feet above msl. Highest water level 11.70 below lsd, June 6, 1952; lowest 18.14 below lsd, Nov. 12, 1954. Records available: 1951-55.

Jan. 12	17.79	May 17	15.44	Sept. 13	13.53	Nov. 11	16.23
Mar. 17	15.24	Aug. 18	12.53	Oct. 12	15.86	Dec. 13	15.91

Ch-14(K21a-7841). John T. Crossland. Pocopson Township. Lat. 39°53'10", long. 75°40'20". Dug unused water-table well in gneiss of Wissahickon formation, diameter 36 inches, depth 26 feet, cased with stone. Land-surface datum is about 370 feet above msl. Highest water level 17.30 below lsd, June 6, 1952; lowest dry Nov. 12, 1954, Jan. 3, 12, Feb. 28, Mar. 17, 1955. Records available: 1950-55. John T. Crossland, voluntary observer.

Jan. 3	(f)	Mar. 17	(f)	Sept. 14	22.83	Nov. 10	21.56
12	(f)	May 17	24.40	Oct. 12	21.92	Dec. 13	21.14
Feb. 28	(f)	Aug. 18	24.39				

f Dry.

Ch-15(K21b-7407). W. C. Appleton. Chadds Ford. Lat. 39°53'30", long. 75°36'40". Dug unused water-table well in gneiss of Wissahickon formation, diameter 42 inches, depth 38 feet, cased with stone. Land-surface datum is about 220 feet above msl. Highest water level 20.94 below lsd, Feb. 14, 1952; lowest 31.98 below lsd, Oct. 23, 1953. Records available: 1950-54. Miss Appleton, voluntary observer. Measurement discontinued.

Clarion County

Cr-1(E6a-2560). John G. Meisinger. 614 Wood St., Clarion. Lat. 41°12'40", long. 79°23'00". Dug unused water-table well in sandstone of Allegheny formation, diameter 36 inches, depth 28 feet, cased with stone to 15. Land-surface datum is about 1,480 feet above msl. Highest water level 11.36 below lsd, Apr. 9, 1938; lowest 21.50 below lsd, Oct. 27, 1953. Records available: 1932-55. Pennsylvania Electric Co., voluntary observer.

Jan. 7	11.97	Apr. 8	14.24	July 15	15.66	Oct. 14	18.57
14	13.53	15	14.71	22	17.18	21	16.25
21	15.91	22	12.11	29	16.93	28	16.64
28	16.89	29	12.06	Aug. 5	17.98	Nov. 4	16.25
Feb. 4	17.62	May 13	15.83	12	17.52	12	17.38
11	13.52	20	16.70	19	15.65	18	13.78
18	13.82	27	16.22	26	17.70	25	12.98
25	12.09	June 3	16.96	Sept. 2	19.25	Dec. 2	14.56
Mar. 4	11.63	10	15.14	9	19.23	9	14.12
11	12.35	17	14.12	16	19.56	16	16.00
18	12.11	24	16.44	23	19.78	23	17.17
25	11.97	July 1	17.26	30	19.28	30	16.00
Apr. 1	12.28	8	16.62	Oct. 7	18.70		

Cr-3(D7c-2511). Commonwealth of Pennsylvania. Cook Forest Park. Lat. 41°20'20", long. 79°13'40". Drilled unused water-table well in sandstone of Pottsville or Pocono formation, diameter 6 inches, depth 130 feet, cased to 12. Land-surface datum is about 1,530 feet above msl. Highest water level 44.03 below lsd, May 6, 1955; lowest 92.20 below lsd, Dec. 6, 1952. Records available: 1950-55. Mr. James D. Leshner, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	54.51	Apr. 4	45.20	July 8	51.70	Oct. 7	74.0
10	52.65	11	45.40	15	53.45	14	75.0
17	51.55	23	45.47	22	56.10	21	75.4
24	52.20	29	44.35	29	58.5	28	77.0
31	54.20	May 6	44.03	Aug. 5	60.1	Nov. 4	78.0
Feb. 7	54.62	13	44.7	12	61.7	11	78.1
14	54.50	20	45.70	20	63.2	18	77.2
21	54.70	27	46.8	26	64.7	25	79.10
28	49.32	June 3	47.65	Sept. 2	66.1	Dec. 2	79.1
Mar. 9	46.54	10	48.30	9	67.0	9	76.6
16	45.62	18	49.00	16	69.0	16	76.0
23	45.59	24	48.70	23	71.2	23	75.4
30	45.09	July 1	49.85	30	72.7	30	71.00

Clearfield County

Cf-4(F9b-2051). Jared I. McNaull. Curwensville. Lat. 40°58'10", long. 78°31'30". Dug unused water-table well in sandstone of Allegheny formation, diameter 5 feet, depth 30 feet. Land-surface datum is about 1,160 feet above msl. Highest water level 15.57 below lsd, Mar. 5, 1951; lowest 21.30 below lsd, Aug. 31, 1946. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	19.18	Apr. 4	19.54	July 4	20.47	Oct. 3	20.87
10	19.42	11	19.86	11	20.48	10	20.81
17	20.92	18	19.98	18	20.54	17	20.37
24	20.26	25	19.76	25	20.61	24	20.40
31	20.32	May 2	19.32	Aug. 2	20.73	31	20.54
Feb. 10	20.52	9	19.80	10	20.84	Nov. 7	20.68
16	20.43	16	20.05	16	20.75	14	20.77
21	20.45	23	20.19	22	20.74	21	20.26
28	19.52	30	20.32	29	20.86	28	20.15
Mar. 7	18.52	June 6	20.41	Sept. 5	20.88	Dec. 5	20.42
16	18.76	13	19.78	12	20.86	12	20.54
22	18.85	20	20.14	19	21.09	19	20.68
28	18.86	27	20.37	26	20.06	27	20.48

Clinton County

Cn-1(E12b-0653). Commonwealth of Pennsylvania. Sproul State Forest, Renovo. Lat. 41°14'20", long. 77°46'20". Drilled unused water-table well in sandstone of Pottsville formation, diameter 6 inches, depth 78 feet, cased to 38. Land-surface datum is about 2,050 feet above msl. Highest water level 44.0 below lsd, Jan. 13, 1951; lowest 55.72 below lsd, Nov. 14, 1953. Records available: 1950-55. Clarence F. Billotte, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	51.61	Apr. 9	48.90	July 9	50.98	Oct. 8	53.19
8	51.60	16	49.14	16	51.00	15	52.47
15	50.90	23	49.13	23	51.60	22	51.87
22	50.81	30	49.12	30	51.62	29	51.85
29	51.04	May 7	49.10	Aug. 6	51.82	Nov. 5	51.88
Feb. 5	51.18	14	49.37	13	51.50	12	51.87
12	51.16	21	49.38	20	51.49	19	50.90
19	51.39	28	49.40	27	51.47	26	50.39
26	50.78	June 4	50.46	Sept. 3	52.59	Dec. 3	50.40
Mar. 5	49.79	11	50.54	10	52.89	10	50.60
12	49.60	18	50.42	17	52.89	17	50.60
23	49.61	25	50.59	24	53.19	24	50.40
26	48.63	July 2	50.82	Oct. 1	53.20	31	50.50
Apr. 2	48.72						

Columbia County

Co-1(E18c-8318). Fred E. Walters. Fernville. Lat. 41°00'10", long. 76°27'50". Dug unused water-table well in sand of Pleistocene age, diameter 36 inches, depth 19 feet, cased with stone. Land-surface datum is about 490 feet above msl. Highest water level 4.88 below lsd, Sept. 2, 1933; lowest 14.51 below lsd, Dec. 15, 1931. Records available: 1931-55.

Co-1(E18c-8318)--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	10.70	Apr. 9	11.17	July 9	12.35	Oct. 8	10.35
8	10.73	16	11.18	16	11.18	15	8.36
15	11.15	23	12.26	23	12.28	22	10.31
22	10.64	30	11.21	30	12.22	29	10.48
29	12.22	May 7	11.47	Aug. 6	13.17	Nov. 5	11.11
Feb. 5	11.69	14	11.88	13	12.82	12	11.14
12	10.92	23	12.11	20	10.25	19	11.40
19	10.90	28	12.36	27	10.84	26	11.32
26	10.69	June 4	12.24	Sept. 3	11.18	Dec. 3	10.83
Mar. 5	10.90	11	11.30	10	11.35	10	11.12
12	10.70	18	11.08	17	12.12	17	11.28
19	10.72	25	11.68	24	12.32	24	11.66
26	10.38	July 2	12.00	Oct. 1	11.06	31	11.85
Apr. 2	10.98						

Cumberland County

Cu-2(J14d-6335). Commonwealth of Pennsylvania. Michaux State Forest. Lat. 40°02'03", long. 77°18'30". Drilled unused water-table well in sandstone of Loudoun formation of Early Cambrian age, diameter 6 inches, depth 60 feet. Land-surface datum is about 940 feet above msl. Highest water level 10.50 below lsd, May 1, 1952; lowest 33.50 below lsd, Feb. 3, 1955. Records available: 1951-55. Mr. Hockley, voluntary observer.

Daily lowest water level from recorder graph

Day	Feb.	Mar.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.2	24.3	26.3	24.5	24.3
2	25.3	24.4	26.4	24.4	24.3
3	h33.50	.....	.....	25.5	24.4	26.4	24.4	24.3
4	25.6	24.4	26.4	24.4	24.3
5	25.7	24.5	26.5	24.4	24.2
6	25.8	24.5	26.5	24.4	24.2
7	25.9	24.5	26.6	24.4	24.2
8	26.0	24.6	26.6	24.4	24.2
9	26.1	24.6	26.7	24.4	24.2
10	h32.50	.....	.....	26.2	24.7	26.7	24.4	24.2
11	26.3	24.8	26.7	24.4	24.2
12	26.4	25.0	26.7	24.4	25.3
13	26.3	25.2	26.7	24.4	24.4
14	26.3	25.2	26.8	24.4	24.4
15	h24.44	.....	26.2	25.2	26.6	24.4	24.3
16	26.2	25.3	25.8	24.3	24.4
17	26.2	25.4	25.5	24.4	24.4
18	23.6	26.2	25.5	25.3	24.5	24.4
19	23.8	26.1	25.5	25.2	24.5	24.5
20	23.9	25.7	25.6	25.1	24.4	24.5
21	24.0	25.1	25.7	25.1	24.4	24.5
22	h24.50	24.1	25.9	25.8	25.0	24.4	24.5
23	24.2	24.8	25.9	25.0	24.4	24.5
24	24.3	24.7	26.0	24.9	24.3	24.6
25	24.4	24.6	26.0	24.7	24.4	24.6
26	24.6	24.5	26.1	24.7	24.4	24.7
27	24.7	24.5	26.1	24.6	24.3	24.8
28	24.8	24.4	26.2	24.6	24.2	24.8
29	24.9	24.4	26.2	24.5	25.2	24.8
30	25.0	24.4	26.3	24.5	24.3	24.8
31	25.1	24.3		24.4		24.8

* No record for January, April, May, and June.

h Tape measurement.

Delaware County

De-3(K21d-2125). Mrs. Hope W. Ebert. Birmingham Township. Lat. 39°50'40", long. 75°34'10". Dug unused water-table well in gneiss of Wissahickon formation, diameter 42 inches, depth 22 feet, cased with stone. Land-surface datum is about 260 feet above msl. Highest water level 7.90 below lsd, Aug. 22, 1955; lowest 19.04 below lsd, Nov. 22, 1954. Records available: 1950-55. Mrs. Hope W. Ebert, voluntary observer.

De-3(K21d-2125)--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	17.47	Apr. 11	13.79	July 18	16.30	Oct. 10	15.02
10	16.88	18	14.12	25	16.40	11	13.66
12	16.70	25	14.35	Aug. 1	16.53	17	15.29
17	16.32	May 2	14.66	8	16.65	24	15.52
24	15.90	9	14.87	13	14.33	31	15.73
31	15.67	16	15.16	15	13.29	Nov. 7	15.89
Feb. 7	15.25	17	15.81	18	12.34	10	17.07
14	15.10	23	15.22	22	7.90*	14	16.03
21	14.91	30	15.40	29	10.69	21	16.17
28	14.74	June 6	15.59	Sept. 5	12.16	28	16.27
Mar. 7	14.32	13	15.72	12	13.09	Dec. 5	16.38
14	14.00	20	15.86	14	13.44	12	16.49
17	13.90	27	16.01	19	13.74	13	16.50
21	13.83	July 4	16.13	26	14.30	19	16.54
28	13.55	11	16.20	Oct. 3	14.71	26	16.64
Apr. 4	13.53						

Elk County

Ek-1(D9d-0909). Mrs. Elizabeth Ernst. Kersey. Lat. 41°21'40", long. 78°36'20". Drilled unused water-table well in shale of Allegheny formation, diameter 4 inches, depth 87 feet. Land-surface datum is about 1,900 feet above msl. Highest water level 6.62 below lsd, June 11, 1943; lowest 13.43 below lsd, Sept. 24, 1954. Records available: 1941-55.

Jan. 7	11.65	Apr. 8	11.52	July 8	12.39	Oct. 7	12.94
14	11.80	15	11.35	15	12.45	14	12.46
21	12.00	22	11.18	22	12.45	21	12.22
28	12.10	29	11.05	29	12.60	28	12.02
Feb. 4	12.30	May 6	11.20	Aug. 5	12.66	Nov. 4	11.92
11	12.10	13	11.60	12	12.75	11	11.78
18	12.22	20	11.90	19	12.60	18	11.78
25	11.99	27	12.10	26	12.61	25	11.52
Mar. 4	11.40	June 3	12.18	Sept. 2	12.62	Dec. 2	11.51
11	11.55	10	12.12	9	12.74	9	11.51
18	11.52	17	12.02	16	12.81	16	11.48
25	11.12	24	12.15	23	12.92	23	11.70
Apr. 1	11.38	July 1	12.40	30	12.90	30	11.62

Erie County

Er-1(B4b-3203). Mrs. Grace P. Estes. Near Carters Corners. Lat. 41°57'10", long. 79°52'00". Dug unused water-table well in sand of Pleistocene age, diameter 4 feet, depth 19 feet. Land-surface datum is about 1,440 feet above msl. Highest water level 7.22 below lsd, Apr. 20, 1952; lowest dry, Sept. 8-Dec. 1, 1934. Records available: 1931-55. Julius Horvath, voluntary observer.

Jan. 2	9.56	Mar. 20	10.97	June 5	17.18	Sept. 11	17.69
23	13.66	Apr. 10	16.12	July 4	17.34	18	17.71
Feb. 20	14.19	May 1	13.71	16	17.35	Oct. 2	17.72
Mar. 13	10.28	15	15.55	Aug. 28	17.58	30	14.16

Franklin County

Fr-2(K13a-0047). U. S. Army. Letterkenny Ordnance Depot, Chambersburg. Lat. 39°59'59", long. 77°39'38". Drilled unused artesian well in Stones River limestone, diameter 8 to 6 inches, depth 441 feet, cased to 60. Land-surface datum is about 694 feet above msl. Highest water level 15.7 below lsd, Jan. 26, 1953; lowest 49.3 below lsd, Sept. 28-Oct. 4, Oct. 12-28, 1953. Records available: 1950-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.8	48.5	31.4	24.0	e29.7	47.3	h48.5	48.9	42.2	46.3	46.3	46.2
2	28.1	48.6	30.6	24.8	30.3	47.8	48.6	48.8	44.4	47.5	46.5	45.9
3	28.0	48.6	29.9	25.7	31.6	48.1	48.7	48.8	45.7	48.0	46.7	45.9
4	28.2	48.6	29.8	27.6	33.0	48.3	48.7	48.8	46.2	48.2	46.7	45.9
5	28.6	48.6	29.8	28.5	34.6	48.5	48.7	48.8	47.1	48.3	47.3	46.5

Fr-2(K13a-0047)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	29.0	48.7	29.1	29.6	36.9	48.6	48.7	48.8	47.1	48.4	47.5	46.8
7	29.5	48.7	26.9	30.6	38.7	48.6	46.7	48.9	47.4	46.9	47.7	47.6
8	30.1	33.4	....	31.9	e40.5	48.6	47.3	49.0	47.6	45.8	47.5	47.6
9	31.3	33.9	....	33.4	42.6	47.2	39.6	49.0	47.8	45.6	47.8	47.5
10	e33.2	35.1	....	e35.9	43.7	44.5	36.1	49.0	48.0	46.8	48.0	47.4
11	....	35.1	....	37.0	44.5	45.7	39.3	49.0	48.2	h46.7	47.7	48.2
12	....	34.6	....	37.2	45.7	41.9	44.8	49.1	48.3	47.2	43.9	48.3
13	....	36.5	....	33.7	45.7	32.7	46.4	49.1	48.4	47.5	45.7	48.4
14	....	40.1	....	34.1	45.7	34.5	46.6	49.1	48.5	47.6	45.8	48.4
15	....	40.1	....	33.6	e45.8	37.6	47.1	34.5	48.6	35.5	45.9	48.4
16	....	39.4	....	32.2	46.1	41.8	47.5	33.0	48.7	28.6	45.9	48.5
17	e43.2	40.1	....	32.8	46.5	45.8	47.9	35.2	48.8	28.0	38.2	48.5
18	45.5	42.3	....	34.2	46.9	45.8	48.2	37.8	48.8	28.4	39.5	48.6
19	45.5	42.7	....	35.0	47.1	....	48.3	39.1	48.8	28.9	39.9	48.6
20	45.8	43.5	....	34.9	47.4	46.5	48.4	35.0	48.7	29.8	39.4	48.7
21	46.3	44.3	h28.3	33.3	47.5	46.9	48.5	27.8	48.8	31.3	37.2	48.7
22	46.5	44.2	27.5	31.6	47.6	47.3	48.6	27.2	48.8	33.6	37.1	48.8
23	46.3	42.7	23.3	29.8	h47.6	47.6	48.7	27.3	48.8	36.3	37.1	49.0
24	46.6	38.4	20.7	29.4	47.6	47.8	48.8	27.8	45.0	38.8	37.1	49.0
25	46.8	33.0	19.7	h28.8	47.8	47.9	48.8	28.5	45.0	40.5	39.0	49.0
26	47.0	32.1	19.5	28.5	48.0	....	48.8	29.6	46.5	42.6	41.3	49.0
27	47.1	....	19.8	28.1	48.3	48.2	48.8	30.9	46.5	44.7	43.6	49.1
28	47.2	h31.3	21.1	28.0	48.4	48.3	48.8	32.7	46.4	45.6	45.8	49.2
29	48.0	....	21.7	28.2	48.4	48.4	48.8	39.0	46.4	45.6	h45.8	49.2
30	48.2	....	22.5	28.7	46.0	48.5	48.8	40.9	47.0	45.7	46.2	48.8
31	48.5	....	23.3	....	46.9	....	48.8	41.0	....	46.0	....	48.8

e Estimated.

h Tape measurement.

Fulton County

Fu-1(J11c-4954). Commonwealth of Pennsylvania. Buchanan State Forest. Lat. 40°03'12", long. 78°08'52". Drilled unused water-table well in shale or sandstone of Mauch Chunk formation, diameter 6 inches, depth 116 feet. Land-surface datum is about 1,180 feet above msl. Highest water level 2.50 below lsd, May 5, 1954; lowest 6.80 below lsd, Nov. 4, 11, 18, 1953. Records available: 1951-55. Mr. William E. Sprowl, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.00	June 29	4.90	Aug. 31	4.60	Nov. 2	5.05
12	3.20	July 6	5.00	Sept. 7	5.00	9	5.20
Feb. 9	4.00	13	4.90	14	5.30	16	3.70
16	3.80	20	5.30	21	5.52	23	3.90
23	3.00	27	5.40	28	5.00	30	4.40
Mar. 2	2.70	Aug. 3	5.73	Oct. 5	5.30	Dec. 7	4.60
16	3.20	10	5.80	12	5.40	14	5.00
Apr. 6	3.40	17	4.80	19	4.50	21	5.10
27	3.00	24	3.90	26	4.80	28	5.30
June 22	4.45						

Huntingdon County

Hu-1(H11c-1559). Fred M. Schell. Near Aitch and Marklesburg. Lat. 40°21'10", long. 78°08'20". Drilled unused water-table well in sandstone of Chemung formation, diameter 6 inches, depth 42 feet. Land-surface datum is about 720 feet above msl. Highest water level 0.00, Mar. 15, 1941; lowest 26.25 below lsd, Oct. 1, 1932. Records available: 1931-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	18.44	Apr. 9	20.24	July 16	22.13	Oct. 8	22.71
8	18.66	16	21.11	23	22.26	15	20.23
15	20.05	23	18.72	30	22.33	22	21.08
23	21.27	May 1	16.87	Aug. 5	22.67	29	21.62
29	21.57	7	19.12	6	22.68	Nov. 5	21.81
Feb. 5	21.82	14	20.89	13	17.80	12	21.98
12	21.81	21	21.55	20	17.21	19	20.24
19	21.26	28	21.85	27	18.75	26	20.49
26	19.97	June 4	21.96	Sept. 3	20.78	Dec. 3	21.24
Mar. 5	16.60	11	21.59	10	21.89	10	21.71
12	17.34	18	21.55	17	22.26	17	21.91
19	19.14	25	21.81	24	21.28	24	22.19
26	15.72	July 2	21.96	Oct. 1	22.56	31	22.21
Apr. 2	18.23	9	21.98				

Indiana County

In-1(G7c-0547). Commonwealth of Pennsylvania. Indiana State Teachers College, Indiana. Lat. 40°37'00", long. 79°09'30". Drilled unused artesian well in sandstone of Conemaugh formation, diameter 6 inches, depth 200 feet. Land-surface datum is about 1,300 feet above msl. Highest water level 73.80 below lsd, Apr. 7, 1953; lowest 92.45 below lsd, Sept. 27, 1952. Records available: 1944-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	76.25	Mar. 26	75.10	July 9	78.65	Oct. 10	80.30
8	76.10	Apr. 2	75.80	16	78.80	15	79.50
15	76.00	16	76.66	30	79.95	22	78.50
22	76.60	23	76.00	Aug. 6	80.20	29	77.20
29	77.23	30	76.00	13	79.76	Nov. 5	77.00
Feb. 5	77.70	May 14	77.06	20	79.70	12	76.75
19	76.60	28	78.00	27	79.80	19	75.60
26	76.0	June 4	78.20	Sept. 12	80.50	Dec. 3	76.50
Mar. 5	75.67	13	77.70	17	80.70	12	77.50
12	75.49	18	77.70	24	80.75	17	77.55
19	75.70	July 2	78.50	Oct. 1	80.70	22	78.30

Lackawanna County

Lk-2(C22c-4708). Orval J. Ransom. Near Carbondale. Lat. 41°33'20", long. 75°28'50". Dug unused water-table well in sand of Pleistocene age, diameter 24 inches, depth 18 feet, cased with stone. Land-surface datum is about 1,615 feet above msl. Highest water level 1.00 below lsd, Jan. 24, 1953; lowest 13.10 below lsd, Oct. 15, 1943. Records available: 1931-55. Measurement discontinued. Location number incorrectly given as (C22c-4709) in 1954.

Jan. 7	3.68	Feb. 18	6.90	Mar. 22	3.0	May 6	5.21
15	6.27	25	4.88	Apr. 1	4.35	12	6.8
21	7.50	Mar. 4	3.40	9	4.60	20	8.0
28	7.69	11	2.46	15	3.49	26	7.78
Feb. 4	8.28	18	2.89	22	4.17	June 2	8.55
11	7.97						

Lehigh County

Le-303(G22c-6350). Wilson H. Reichard. Near Center Valley. Lat. 40°32'00", long. 75°24'17". Drilled unused artesian well in Tomstown dolomite, diameter 6 inches, depth 163 feet. Land-surface datum is about 480 feet above msl. Highest water level 85.3 below lsd, July 11-12, 1953; lowest 108.4 below lsd, Mar. 3, 19-21, 1955. Records available: 1953-55. Recording gage removed June 3.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	106.3	107.6	108.3	106.0	105.7	106.9
2	106.3	107.7	108.3	105.9	105.8	107.0
3	106.5	107.7	108.4	105.9	105.8	107.0
4	106.4	107.8	108.2	105.9	105.7	.....
5	106.5	107.8	108.2	105.8	105.8	.....
6	106.5	107.8	108.2	105.7	105.8	.....
7	106.6	107.9	108.1	105.7	105.8	.....
8	106.6	107.7	108.1	105.7	105.8	.....
9	106.6	107.7	108.0	105.7	105.9	.....
10	106.7	107.8	108.0	105.6	105.9	.....
11	106.7	107.8	108.1	105.7	105.9	.....
12	106.7	107.9	108.1	105.5	106.0	.....
13	106.7	107.9	108.2	105.6	105.9	.....
14	106.8	107.9	108.2	105.5	106.0	.....
15	106.8	107.9	108.2	105.6	106.0	.....
16	106.9	108.0	108.2	105.7	106.0	.....
17	106.9	108.1	108.3	105.7	106.0	.....
18	106.9	108.1	108.3	105.7	106.0	.....
19	107.0	108.1	108.4	105.6	106.1	.....
20	107.1	108.1	108.4	105.7	106.2	.....
21	107.0	108.2	108.4	105.6	106.2	.....
22	107.1	108.2	108.3	105.6	106.3	.....
23	107.2	108.2	107.7	105.6	106.4	.....
24	107.2	108.2	107.3	105.6	106.4	.....
25	107.2	108.2	107.0	105.6	106.5	.....

Le-303(G22c-6350)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June
26	107.3	108.2	106.8	105.7	106.6	.....
27	107.4	108.2	106.5	105.6	106.7	.....
28	107.4	108.3	106.4	105.7	106.8	.....
29	107.5		106.3	105.7	108.8	.....
30	107.5		106.2	105.7	108.8	.....
31	107.5		106.1		108.9	.....

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

Luzerne County

Lu-2(D18d-5152). Commonwealth of Pennsylvania. Ricketts Glen State Park. Lat. 41°18'00", long. 76°16'20". Dug unused water-table well in sandstone or shale of Catskill formation, diameter 18 inches, depth 24 feet. Land-surface datum is about 1,290 feet above msl. Highest water level 9.29 below lsd, Dec. 31, 1949; lowest dry many times 1948-55. Records available: 1948-55. Measurement discontinued. Warren A. Cope, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	16.06	Feb. 21	(f)	Apr. 15	12.26	June 10	(f)
21	16.07	Mar. 11	10.98	22	12.13	24	(f)
Feb. 4	(f)	25	9.96	29	12.15		

f Dry.

Lycoming County

Ly-1(D13b-2229). Commonwealth of Pennsylvania. Tiadaghton State Forest. Lat. 41°28'00", long. 77°33'50". Drilled unused water-table well in sandstone of Pottsville or Pocono formation, diameter 4 inches, depth 74 feet. Land-surface datum is about 2,070 feet above msl. Highest water level 16.97 below lsd, Dec. 11, 1950; lowest 30.75 below lsd, Nov. 19, 1951. Records available: 1949-55. George B. Will, voluntary observer.

Jan. 4	27.48	Apr. 5	22.96	July 5	27.57	Oct. 3	28.08
10	25.79	11	23.67	11	27.60	10	28.15
18	25.70	19	24.56	19	27.90	17	26.75
24	25.66	27	24.00	25	28.31	24	25.19
Feb. 1	26.09	May 2	23.71	Aug. 1	28.29	31	24.74
7	26.40	9	23.75	8	28.57	Nov. 8	25.10
14	26.93	16	24.47	16	27.48	14	25.85
21	27.27	23	25.17	23	27.00	21	24.70
28	26.07	31	25.95	29	27.94	29	26.20
Mar. 8	23.60	June 6	26.30	Sept. 9	27.55	Dec. 2	25.14
14	22.97	13	28.24	13	27.78	5	24.73
21	22.70	21	26.60	21	27.65	12	25.17
28	21.74	29	25.89	26	27.98	27	25.30

Mifflin County

Mf-1(G13b-3237). C. C. Naginey. Naginey. Lat. 40°42'10", long. 77°33'10". Dug unused water-table well in limestone of Cambrian or Ordovician age, diameter 36 inches, depth 28 feet, cased with stone. Land-surface datum is about 680 feet above msl. Highest water level 5.88 below lsd, Dec. 4, 1950; lowest 23.77 below lsd, Nov. 18, 1953. Records available: 1941-55.

Jan. 3	15.77	Mar. 21	16.88	June 7	23.90	Aug. 29	18.90
10	17.63	28	15.77	13	18.75	Sept. 13	23.09
17	19.52	Apr. 5	18.03	20	22.43	19	23.22
24	19.78	11	18.10	27	23.21	26	22.16
Feb. 1	21.07	18	18.54	July 5	23.48	Oct. 3	23.34
7	19.52	26	17.02	14	23.40	10	23.00
14	18.53	May 2	17.05	18	23.48	24	17.71
21	18.00	9	17.38	Aug. 1	22.85	Nov. 7	19.08
28	17.29	17	18.90	8	23.47	21	15.90
Mar. 7	15.02	23	20.76	15	18.13	Dec. 20	20.36
14	16.77	31	22.40	22	16.44		

Montgomery County

Mg-4(J22a-4018). Collegeville-Trappe Joint Waterworks. West First Ave., Trappe. Lat. 40°11'30", long. 75°27'50". Drilled unused artesian well in Brunawick shale, diameter 8 inches, depth 275 feet. Land-surface datum is about 200 feet above msl. Water levels are affected by pumping of other municipal wells. Highest water level 12.80 below lsd, Apr. 30, 1952; lowest 88.5 below lsd, Aug. 25, 1954. Records available: 1949-55.

Mg-4(J22a-4018)--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.4	30.0	26.3	....	24.3	e30.7	32.9	42.1	26.2	33.8	23.0	25.3
2	e25.7	e31.9	22.6	24.7	27.2	....	33.6	43.2	23.2	30.6	24.0	24.3
3	28.7	29.1	25.4	25.0	28.6	e31.0	33.7	....	26.4	33.6	26.2	26.1
4	24.5	30.8	26.3	21.3	27.7	....	35.4	....	27.1	34.9	22.8	25.6
5	23.0	e30.8	21.9	22.7	27.7	....	31.2	....	23.1	31.2	22.3	25.8
6	23.3	30.1	20.9	25.0	29.3	e30.9	31.6	46.0	25.2	32.8	e22.4	26.4
7	23.1	30.8	23.1	21.3	26.0	33.7	30.9	49.1	....	35.0	22.8	26.5
8	26.2	31.6	23.3	20.7	30.3	34.0	35.5	50.5	....	30.9	25.0	28.0
9	27.6	27.2	18.7	25.1	30.9	30.6	37.2	47.7	....	33.1	27.1	29.1
10	23.9	28.4	22.0	21.7	27.0	32.1	34.1	48.6	25.1	34.8	23.6	31.1
11	26.0	29.5	22.9	25.8	29.4	33.3	37.1	50.3	25.2	31.6	26.5	28.2
12	28.1	26.0	19.4	27.1	30.7	29.4	38.1	47.6	29.1	34.2	27.7	31.5
13	24.0	24.8	21.3	23.0	27.4	30.3	35.3	47.3	30.1	34.9	23.8	28.9
14	26.6	28.7	23.5	24.6	30.2	31.3	38.7	48.1	26.3	31.2	24.0	28.1
15	28.6	24.8	20.2	26.2	31.4	27.6	40.0	42.4	29.7	29.4	24.0	28.1
16	24.9	25.6	23.0	22.7	27.5	26.5	37.0	40.4	30.7	24.2	23.9	28.6
17	27.8	28.3	24.1	21.9	29.9	29.8	40.5	41.4	27.0	23.3	26.8	29.1
18	29.4	25.0	20.8	23.8	31.6	30.4	41.6	36.5	29.0	25.3	28.4	30.9
19	25.7	27.3	20.4	22.3	28.4	25.9	38.7	31.8	30.5	25.9	24.3	27.4
20	29.4	28.4	21.2	25.2	31.1	29.5	40.8	30.7	27.0	22.1	23.9	26.8
21	e31.0	24.3	24.8	26.7	31.8	26.1	42.5	25.0	30.3	24.7	23.3	31.1
22	27.4	25.3	21.3	22.8	29.6	30.6	39.6	22.6	31.5	25.5	....	27.6
23	29.2	27.3	20.8	22.0	e30.8	31.7	44.2	21.4	28.2	21.8	....	29.3
24	30.8	23.7	21.6	26.7	e31.0	29.2	45.5	21.7	30.7	25.1	....	30.6
25	28.2	26.0	16.8	23.9	29.6	30.5	42.1	24.7	31.9	26.0	....	27.3
26	29.8	27.2	18.3	26.2	e31.0	31.7	42.7	26.1	28.7	22.6	22.9	30.2
27	30.9	22.8	e18.8	27.1	e31.0	28.2	42.7	22.0	30.9	21.6	26.5	32.0
28	28.2	25.4	17.3	24.0	e31.0	31.7	42.5	24.5	30.5	21.7	23.2	28.5
29	30.0	....	17.4	26.8	e31.0	32.7	44.5	25.1	30.3	21.9	25.4	27.5
30	e31.1	....	e18.0	27.5	....	29.3	45.7	21.8	32.4	25.9	27.3	31.2
31	29.1	....	....	....	....	....	43.2	24.5	....	27.3	....	28.0

e Estimated.

Mg-44(J22d-1530). Pittsburgh Screw and Bolt Co. Near Conshohocken. Lat. 40°06'08", long. 75°18'59". Drilled unused artesian well in Stockton formation, diameter 6 inches, depth 74 feet. Land-surface datum is about 100 feet above msl. Highest water level 32.1 below lsd, Dec. 17, 1953; lowest 42.5 below lsd, Aug. 6, 1955. Records available: 1953-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.6	40.7	39.2	36.1	....	40.8	41.2	42.4	....	....	38.1	40.4
2	38.6	40.8	39.2	36.2	....	40.8	41.3	42.4	....	....	....	40.5
3	38.6	40.8	39.2	....	....	40.8	41.3	42.4	....	....	....	40.5
4	38.6	40.9	39.1	....	....	40.9	41.4	42.4	....	....	....	40.6
5	38.6	40.9	38.6	....	....	40.9	41.4	42.4	....	....	....	40.7
6	38.6	40.9	37.1	....	....	41.0	41.4	42.5	....	....	....	40.7
7	38.7	39.9	36.9	....	....	41.0	41.4	....	....	....	....	40.7
8	38.8	39.8	36.4	....	....	41.0	41.5	....	....	....	....	40.8
9	38.9	39.0	36.2	....	....	40.6	41.5	....	....	....	39.3	40.9
10	39.0	39.1	36.1	....	....	40.2	41.5	....	....	38.7	39.3	41.0
11	39.1	39.1	36.2	....	....	40.1	41.5	....	....	38.8	39.3	41.0
12	39.2	39.1	36.4	....	....	39.9	41.5	....	....	38.8	39.1	41.1
13	39.3	39.1	36.4	....	....	39.9	41.5	....	37.0	38.8	39.1	41.1
14	39.4	39.1	36.4	....	....	40.0	41.5	....	37.3	38.8	39.2	41.1
15	39.5	39.1	36.4	....	....	40.1	41.6	....	37.5	38.3	39.3	41.1
16	39.6	39.2	36.4	....	....	40.1	41.7	....	37.7	36.5	39.4	41.1
17	39.7	39.2	36.4	....	e40.1	40.3	41.7	37.4	37.8	35.6	39.5	41.2
18	39.8	39.2	36.4	....	40.1	40.4	41.8	37.3	37.9	35.2	39.6	41.3
19	39.9	39.2	36.4	....	40.2	40.5	41.8	35.0	38.1	35.4	39.6	41.4
20	40.0	39.3	36.4	37.8	40.2	40.6	41.8	31.1	....	35.6	29.6	41.3
21	40.0	39.3	36.4	37.8	40.3	40.7	41.8	31.3	....	35.9	39.6	41.3
22	40.1	39.3	36.4	37.8	40.4	40.8	41.9	31.5	....	36.2	39.6	41.4
23	40.2	39.3	35.8	37.8	40.5	40.8	41.9	31.5	....	36.5	39.6	41.5
24	40.2	39.2	36.4	38.0	40.5	40.9	42.0	32.3	....	36.8	39.7	41.6
25	40.3	39.1	35.2	e38.1	40.5	41.0	42.0	32.6	....	37.0	39.8	41.6

Mg-44(J22d-1530)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	40.4	39.1	35.2	....	40.6	41.0	42.1	33.1	....	37.4	40.0	41.7
27	40.4	39.2	35.3	....	40.6	41.0	42.2	33.5	....	37.6	40.0	41.7
28	40.5	39.2	35.5	....	40.7	41.1	42.2	33.8	....	37.9	40.1	41.8
29	40.6		35.6	....	40.7	41.1	42.3	34.1	....	38.1	40.2	41.8
30	40.7		35.8	....	40.8	41.2	42.3	34.4	....	38.1	40.4	41.8
31	40.7		36.0		40.8		42.3	....		38.1		41.8

e Estimated.

Mg-83(J22b-0045). Lansdale Forest Products Co. Lansdale. Lat. 40°14'58", long. 75°17'27". Drilled unused artesian well in Brunswick shale, diameter 8 inches, depth 425 feet. Land-surface datum is about 330 feet above msl. Highest water level 71.1 below lsd, July 6, 1954; lowest 118.3 below lsd, Dec. 18, 1953. Records available: 1953-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	83.5	82.9	81.0	80.2	80.0	84.0	....	....	....	....	....
2	83.6	83.2	80.7	79.6	80.4	84.0	....	....	....	....	....
3	83.9	83.1	79.9	79.9	80.6	83.4	....	....	....	....	....
4	83.9	83.3	79.6	80.6	80.5	82.6	....	....	....	....	....
5	83.8	83.0	80.1	81.1	80.0	82.7	....	....	....	....	....
6	83.2	81.8	80.6	81.0	80.0	83.3	....	....	....	....	....
7	82.7	81.5	81.0	80.7	80.5	83.5	....	....	....	....	....
8	83.2	81.8	81.0	79.5	80.6	83.6	....	....	....	....	....
9	83.8	81.8	80.2	79.0	80.9	83.4	....	....	....	....	....
10	84.2	82.0	79.1	79.8	81.1	82.9	....	....	....	h94.8	....
11	84.4	82.2	79.3	79.8	81.0	83.1	....	....	h90.1	....	....
12	81.8	79.7	80.0	80.8	83.5	....	....	....	....	....
13	81.0	80.2	80.0	81.1	83.7	....	85.9	....	....	....
14	81.4	80.4	80.0	81.6	83.9	....	86.4	....	....	....
15	81.7	80.1	79.9	81.9	....	....	86.7	....	....	....
16	82.5	80.1	79.8	82.1	....	....	86.7	....	....	....
17	82.6	79.5	80.1	82.4	....	....	86.5	....	....	....
18	82.6	79.3	80.1	82.4	....	....	85.9	....	....	....
19	82.5	80.1	80.0	82.0	....	....	86.1	....	....	....
20	81.9	80.4	79.9	82.0	....	....	86.4	....	....	....
21	81.5	80.6	79.9	82.8	....	....	86.9	....	....	....
22	82.2	81.0	79.6	83.3	....	....	87.1	....	....	....
23	82.5	80.9	79.5	83.5	....	....	....	....	....	....
24	83.5	82.6	79.1	79.8	83.7	....	....	....	....	....	....
25	83.5	82.5	79.3	80.3	83.7	....	....	....	....	....	....
26	83.3	82.2	80.1	80.7	82.8	....	....	....	....	....	....
27	84.4	82.6	81.0	80.7	81.0	82.5	....	....	....	....	....	....
28	84.4	82.1	80.4	81.0	80.9	83.0	....	....	....	....	....	....
29	84.4		80.9	81.3	80.3	83.4	....	....	....	....	....	....
30	84.0		81.0	81.0	79.7	83.8	....	....	....	....	....	....
31	83.4		81.1		79.7		....	....	....	....	....	....

h Tape measurement.

Perry County

Pe-2(H15a-1461). Bertha Demaree. 29 North Third St., Newport. Lat. 40°28'40", long. 77°08'00". Dug unused water-table well in sandstone of Chemung formation, diameter 36 inches, depth 20 feet, cased with stone. Land-surface datum is about 400 feet above msl. Highest water level 7.18 below lsd, Apr. 27, 1940; lowest 18.19 below lsd, May 28, 1943. Records available: 1931-55. Mrs. Frances K. Fry, voluntary observer.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	15.09	Apr. 9	14.05	July 9	14.91	Oct. 8	15.17
15	14.97	17	14.08	16	15.18	15	14.80
22	15.01	23	14.08	23	15.46	22	15.33
29	15.13	30	14.29	30	15.61	29	15.16
Feb. 5	15.30	May 7	14.36	Aug. 6	15.74	Nov. 6	15.21
13	15.28	14	14.53	14	15.25	13	15.10
19	15.41	21	14.71	21	15.36	20	15.00
26	15.35	28	14.91	28	15.13	27	15.16
Mar. 6	15.38	June 4	15.09	Sept. 3	14.98	Dec. 4	15.18
12	14.80	11	14.02	10	15.16	11	15.31
19	14.60	18	15.00	17	15.33	18	15.45
26	14.17	25	14.88	25	15.20	26	15.58
Apr. 2	13.99	July 2	15.04	Oct. 2	15.66	31	15.72

Pe-3(G15c-4363). I. L. Zeigler. Near Millerstown. Lat. 40°33'40", long. 77°07'40". Dug unused water-table well in weathered shale of Cayuga group, diameter 4 feet, depth 12 feet, cased with stone. Land-surface datum is about 460 feet above msl. Highest water level 0.63 below lsd, May 17, 1943; lowest 8.33 below lsd, Dec. 11, 1939. Records available: 1936-48, 1950-54. Measurement discontinued.

Philadelphia County

Ph-5(K23a-7634). U. S. Naval Base. Porter Ave. and 5th St. League Island, Philadelphia. Lat. 39°53'20", long. 75°11'00". Drilled standby artesian well in sand and gravel of Cretaceous age ("lower" aquifer), diameter 30 to 12 inches, depth 203 feet (about 15 feet into rock), cased to 148, screen 148-173. Land-surface datum is 14.76 feet above msl. Mean daily range of fluctuation 1.4 feet. Highest water level 31.5 below lsd, Nov. 25, 1950; lowest 52.89 below lsd, Dec. 30, 1953. Records available: 1944-51, 1953-54. Measurement discontinued.

Ph-11. U. S. Naval Base. Davis Ave. League Island, Philadelphia. Lat. 39°53'40", long. 75°10'20". Drilled observation artesian well in sand of Cretaceous age ("middle" aquifer), diameter 8 inches, depth 237 feet (10 feet into rock), cased to 94, screen 94-104. Water levels are affected by pumping of well 1,800 feet distant. Mean daily range of fluctuation caused by tidal loading, 0.2 foot. Highest water level 24.98 below lsd, June 1, 1952; lowest 37.15 below lsd, Nov. 30, 1954. Records available: 1945-54. Measurement discontinued.

Ph-12(K23a-7241). U. S. Naval Base. Barracks and East Fourth St. NW. Philadelphia. Lat. 39°53'40", long. 75°10'20". Drilled observation artesian well in sand of Cretaceous age ("middle" aquifer), diameter 8 inches, depth 110 feet, cased to 94, screen 94-104. Water levels are affected by pumping of well 1,100 feet distant. Mean daily range of fluctuation caused by tidal loading, 0.2 foot. Highest water level 23.9 below lsd, May 31, 1953; lowest 39.6 below lsd, July 20, 1955. Records available: 1944-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.2	36.0	35.9	37.1	35.6	37.1	38.0	37.9	37.3	....	....	....
2	34.7	36.1	36.2	36.7	37.0	37.1	37.9	38.0	37.4	....	....	....
3	35.2	36.5	36.4	36.6	37.2	37.2	36.2	38.0	36.4	....	....	....
4	35.2	36.7	36.2	37.2	37.2	37.1	35.9	38.0	34.9	....	....	....
5	35.4	36.3	35.1	37.0	37.0	35.0	37.2	38.0	34.6	....	....	....
6	35.1	34.9	34.7	36.6	37.3	36.9	37.7	37.2	36.3	....	....	....
7	35.4	35.4	35.9	36.8	35.9	37.3	37.8	36.0	36.6	....	....	....
8	35.4	35.7	36.1	36.7	35.6	37.4	38.0	36.0	36.9	....	....	34.6
9	34.6	36.0	36.0	35.2	37.1	37.6	38.1	37.5	36.3	....	....	34.3
10	35.4	36.0	36.2	34.9	37.3	37.7	37.9	37.7	35.9	....	34.1	34.3
11	35.6	35.7	36.2	36.4	37.4	36.5	37.2	37.6	34.1	....	33.0	33.4
12	35.6	36.0	36.0	37.0	37.6	35.9	37.2	37.2	36.3	....	32.7	34.4
13	35.3	36.2	35.1	38.9	37.6	37.3	37.1	36.0	37.1	....	32.2	34.3
14	35.6	36.3	36.3	36.6	35.9	37.7	37.0	35.8	37.0	....	33.2	34.6
15	35.6	36.8	36.2	36.8	35.9	37.7	36.9	36.6	37.0	....	33.5	34.3
16	34.3	36.9	36.1	36.0	36.8	38.0	36.8	37.1	36.6	....	33.3	34.7
17	35.3	36.8	36.5	36.3	37.0	38.2	37.2	37.1	36.1	34.6	33.8	34.0
18	e35.5	36.4	36.3	36.7	37.1	37.0	38.0	36.5	34.9	35.4	....	33.1
19	35.5	35.1	35.4	37.0	37.1	36.4	38.4	....	35.9	35.7	....	34.6
20	36.0	35.1	35.2	37.0	37.2	37.4	39.6	....	35.9	35.6	....	35.0
21	36.0	35.0	35.9	36.8	36.6	37.4	....	....	36.5	35.5	....	34.9
22	35.6	34.8	35.7	36.8	36.2	37.3	....	36.7	36.6	34.8	....	34.6
23	35.2	36.0	36.0	35.1	36.6	37.3	....	37.3	36.6	35.3	....	34.6
24	35.6	36.3	36.2	35.0	36.8	37.2	....	37.5	35.1	....	....	33.2
25	35.8	36.4	36.4	36.6	36.9	36.0	....	37.6	35.2	....	....	33.5
26	36.1	35.4	34.8	37.0	37.3	36.6	....	37.5	36.5	....	....	33.9
27	36.1	34.6	34.9	37.2	37.5	36.9	....	36.8	36.8	....	....	35.0
28	36.1	35.5	36.1	37.3	37.2	37.0	38.6	35.7	37.1	....	....	35.2
29	36.1	....	36.3	37.3	35.6	37.8	38.7	36.8	....	....	....	34.9
30	35.7	....	36.6	35.3	36.7	38.0	36.9	36.9	....	....	....	34.5
31	36.2	....	37.0	....	36.8	....	37.0	37.2	....	....	....	33.6

e Estimated.

Ph-13(K23a-7440). U. S. Naval Base. Farragut Ter. and East Second St. SE. Philadelphia. Lat. 39°53'30", long. 75°10'20". Drilled observation artesian well in sand and gravel of Pleistocene or Recent age, diameter 8 inches, depth 73 feet, cased to 54, screen 54-63. Mean daily range of fluctuation caused by tidal loading, 0.1 foot. Highest water level 21.3 below lsd, June 1, 1953; lowest 35.0 below lsd, July 15, 1955. Records available: 1945-55.

Ph-13(K23a-7440)--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.3	33.2	33.2	34.0	34.4	34.5	34.6	33.7	31.8	....	28.5	26.5
2	33.2	33.4	33.4	33.8	34.5	34.6	34.6	33.5	31.8	....	27.9	26.6
3	33.4	33.7	33.8	33.7	34.5	34.6	34.7	33.2	31.9	....	27.8	26.6
4	33.1	33.9	33.7	34.0	34.5	34.5	34.7	33.2	31.9	....	27.6	26.5
5	33.2	33.8	33.6	34.2	34.0	34.3	34.7	33.2	32.0	....	27.5	26.3
6	32.8	33.6	33.5	34.0	34.3	34.4	34.6	33.2	31.9	....	27.2	26.5
7	33.3	33.5	33.3	33.8	34.4	34.4	34.5	33.1	31.7	....	27.0	26.5
8	33.2	33.2	33.7	34.2	34.2	34.4	34.4	33.0	31.6	....	27.1	26.4
9	33.1	33.3	33.6	34.4	34.5	34.4	34.6	32.9	31.6	....	26.8	26.4
10	33.0	33.2	33.6	34.2	34.5	34.5	34.6	32.9	31.9	....	26.5	26.9
11	33.1	33.0	33.5	34.0	34.4	34.5	34.7	32.9	32.0	....	26.0	26.9
12	33.1	33.7	33.5	34.2	34.6	34.5	34.6	32.7	32.0	....	26.0	26.9
13	32.8	34.0	33.8	34.3	34.5	34.3	34.7	32.5	31.7	31.1	26.0	27.0
14	33.1	34.0	34.0	34.2	34.5	34.4	34.9	32.3	31.7	31.0	25.7	27.0
15	33.1	33.5	33.9	33.8	34.5	34.5	35.0	32.4	31.9	30.8	25.5	26.7
16	32.9	33.6	33.4	34.2	34.5	34.6	34.9	32.4	31.6	30.6	25.2	27.0
17	33.0	33.6	34.0	34.3	34.3	34.7	34.7	32.2	....	30.6	25.4	27.0
18	33.0	33.7	33.9	34.2	34.3	34.9	34.6	32.1	....	30.7	25.8	27.0
19	33.0	33.7	33.9	34.1	34.2	34.9	34.6	31.9	....	31.0	25.9	27.2
20	33.4	33.7	34.0	34.2	34.5	34.8	34.6	32.0	....	31.2	25.5	27.3
21	33.4	33.6	33.9	34.2	34.6	34.5	34.7	32.0	....	31.1	25.3	27.4
22	32.9	33.5	33.5	33.8	34.6	34.4	34.8	31.9	....	31.1	25.3	27.2
23	33.1	33.6	33.4	33.9	34.5	34.4	34.8	31.8	....	31.0	25.3	27.2
24	33.0	33.7	33.6	33.9	34.2	34.6	34.5	31.7	....	30.5	25.3	27.2
25	33.0	33.7	33.9	33.8	34.1	34.6	34.3	31.8	....	30.2	25.4	27.1
26	33.1	33.7	33.8	34.0	34.4	34.6	34.1	32.1	....	30.1	25.1	27.4
27	33.1	33.6	33.3	34.2	34.7	34.6	33.8	32.1	....	30.0	25.0	27.7
28	33.2	33.2	33.6	34.2	34.7	34.7	33.9	32.1	....	29.9	24.2	27.8
29	33.2	....	33.8	34.3	34.6	34.6	33.8	31.9	....	29.6	25.0	27.7
30	33.4	....	34.0	34.4	34.2	34.6	33.8	31.9	....	29.0	25.8	27.1
31	33.5	....	34.0	....	34.3	....	33.8	31.8	....	28.8	....	27.1

Ph-14. U. S. U. S. Naval Base. 4th St. and Preble Ave. League Island, Philadelphia. Lat. 39°53'30", long. 75°10'10". Drilled observation artesian well in sand and gravel of Pleistocene or Recent age, diameter 3 inches, depth 70 feet, cased to 46, screen 46-56. Land-surface datum is 11.28 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.1 foot. Highest water level 24.08 below lsd, June 15, 1953; lowest 34.20 below lsd, Nov. 30, 1954. Records available: 1945-54. Measurement discontinued.

Ph-15. U. S. Naval Base. Porter Ave. League Island, Philadelphia. Lat. 39°53'20", long. 75°10'10". Drilled observation artesian well in sand and gravel of Pleistocene or Recent age, diameter 3 inches, depth 82 feet, cased to 59, screen 59-69. Land-surface datum is 11.87 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.1 foot. Highest water level 23.33 below lsd, June 15, 1953; lowest 34.46 below lsd, Nov. 30, 1954. Records available: 1945-54. Measurement discontinued.

Ph-18(K23a-7144). U. S. Naval Base. North of Mustin Field, 2,400 feet east of Broad St. Lat. 39°53'40", long. 75°10'00". Drilled observation artesian well in sand and gravel of Cretaceous age ("lower" aquifer), diameter 8 inches, depth 218 feet (2 feet into rock), cased to 207, screen 207-212. Land-surface datum is about 13 feet above msl. Water levels are affected by pumping of 6 Naval Base water-supply wells and 2 Pennsylvania RR wells. Mean daily range of fluctuation caused by tidal loading, 0.4 foot. Highest water level 31.3 below lsd, Apr. 27, 1953; lowest 57.5 below lsd, July 29, 1955. Records available: 1946-55. Recording gage removed.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	47.6	52.1	51.2	54.2	....	52.0	54.9	55.6
2	47.1	52.1	52.1	54.5	....	52.3	53.2	56.4
3	49.0	52.5	52.4	51.5	....	53.1	49.0	55.7
4	49.4	52.5	52.0	52.6	....	52.9	48.6	55.9
5	49.7	51.4	50.8	53.2	54.0	48.0	50.1	55.9
6	49.7	48.4	46.7	53.3	54.5	53.0	54.4	55.8
7	50.1	50.3	50.3	53.1	54.0	54.3	53.7	50.4
8	50.0	51.4	50.9	52.9	50.0	54.8	54.0	54.0
9	48.1	51.7	51.5	50.0	54.1	55.0	55.7	54.2
10	49.7	52.0	52.2	45.9	54.0	55.1	50.8	55.2

Ph-18(K23a-7144)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
11	50.0	51.8	52.1	52.0	54.6	55.0	52.0	55.1
12	50.1	51.2	51.5	52.0	54.8	47.6	54.0	55.1
13	49.9	49.2	48.0	52.0	54.4	54.0	56.4	54.0
14	50.3	51.7	51.0	52.0	53.2	55.1	54.6	49.0
15	50.3	54.5	51.5	53.6	47.4	55.0	53.2	51.3
16	47.8	54.6	51.5	52.5	52.4	55.2	50.2	53.4
17	49.3	54.6	52.0	e50.0	53.1	55.4	48.5	54.4
18	49.9	53.8	52.2	....	53.2	55.7	48.3	55.1
19	49.8	52.4	51.0	....	53.0	49.8	52.2	54.9
20	50.5	48.9	47.8	....	53.1	53.0	55.9	54.0
21	50.5	48.5	50.8	....	53.0	54.8	56.5	....
22	50.3	48.3	50.3	....	47.4	54.7	56.7	....
23	48.5	51.1	51.3	....	51.3	54.8	56.5	....
24	49.8	52.0	51.3	....	52.4	54.8	50.1	....
25	51.2	52.0	51.6	....	52.9	54.8	50.6	....
26	52.0	52.1	51.1	....	52.9	50.3	56.1	....
27	52.3	48.5	46.3	....	53.1	46.4	55.6	....
28	52.1	51.0	50.7	....	52.7	53.3	57.3	....
29	51.8		51.5	....	51.0	54.7	57.5	....
30	48.9		51.4	....	47.8	54.7	57.2	....
31	51.8		53.4		51.5		50.2	....

e Estimated.

Ph-19(K23a-7743). U. S. Naval Base. Delaware Ave. and East Fourth St. NE. Philadelphia. Lat. $39^{\circ}53'10''$, long. $75^{\circ}10'00''$. Drilled observation artesian well in sand and gravel of Cretaceous age ("lower" aquifer), diameter 8 to 6 inches, depth 274 feet (15 feet into rock), cased to 242, screen 242-247. Land-surface datum is about 11 feet above msl. Water levels are affected by pumping of 6 Naval Base water-supply wells and by Texas Co. wells on New Jersey side of river. Mean daily range of fluctuation caused by tidal loading, 2.1 feet. Highest water level 29.55 below lsd, Nov. 25, 1950; lowest 78.6 below lsd, Sept. 3, 1954. Records available: 1946-55. Recording gage removed Feb. 8.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	68.9	Jan. 11	74.1	Jan. 21	74.8	Jan. 31	74.9
2	69.2	12	74.0	22	73.1	Feb. 1	75.8
3	71.8	13	74.4	23	e72.0	2	75.9
4	72.6	14	74.7	24	73.6	3	76.8
5	73.2	15	74.6	25	74.1	4	76.7
6	73.4	16	71.4	26	75.6	5	75.5
7	74.2	17	73.4	27	75.9	6	74.4
8	72.7	18	e73.5	28	75.8	7	72.0
9	70.8	19	73.7	29	75.5	8	e73.0
10	73.4	20	74.7	30	72.3		

e Estimated.

Ph-20(K23a-7737). U. S. Naval Base. West Third St. NE. Lat. $39^{\circ}53'10''$, long. $75^{\circ}10'40''$. Drilled observation artesian well in sand and gravel of Cretaceous age ("lower" aquifer), diameter 8 inches, depth 269 feet (19 feet into rock), cased to 238, screen 238-243. Land-surface datum is 13 feet above msl. Water levels are affected by tidal loading, 1.7 feet. Highest water level higher than 28.17, Nov. 25, 1950; lowest 63.7 below lsd, July 29, 1955. Records available: 1946-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.6	59.7	60.1	60.6	55.6	58.8	60.0	62.3	61.6	58.0	60.0	57.9
2	55.6	59.7	60.3	58.5	58.9	58.6	58.7	62.7	62.0	51.2	59.9	57.7
3	56.9	60.6	50.4	47.7	59.7	59.2	54.3	62.9	60.9	58.6	60.1	56.0
4	57.5	60.3	60.0	59.1	60.6	59.3	53.7	63.0	53.5	58.5	60.1	49.6
5	58.0	58.9	58.5	58.0	60.2	53.2	57.9	62.9	54.0	60.2	51.0	51.6
6	58.1	57.7	53.1	58.9	50.5	58.9	60.0	57.8	58.6	60.2	50.0	58.7
7	58.7	57.3	58.5	59.0	58.5	60.4	59.2	58.8	60.5	51.2	57.5	60.1
8	58.0	59.1	59.1	58.1	54.5	61.0	60.7	60.1	60.6	52.0	57.8	60.3
9	56.7	59.4	59.7	55.6	58.9	61.1	61.2	....	59.7	72.2	58.5	59.9
10	58.1	59.8	60.4	54.3	59.7	61.3	56.1	....	57.0	55.7	54.9	57.2
11	58.6	59.6	60.2	57.5	60.2	60.0	59.6	....	50.6	56.0	53.3	53.8
12	58.5	59.3	59.0	58.5	60.5	56.5	61.5	....	58.6	57.8	51.0	55.9
13	59.0	58.2	57.4	58.5	60.9	60.2	60.4	....	60.5	59.6	52.6	57.1
14	59.1	59.9	58.8	58.2	59.6	61.2	57.5	....	61.5	57.9	55.6	58.4
15	58.9	60.2	59.4	58.9	56.9	61.0	55.3	....	61.9	54.7	57.0	58.4

Ph-20(K23a-7737)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	53.8	60.2	59.6	57.8	58.3	61.7	52.1	....	61.7	49.1	57.0	58.6
17	57.6	60.4	60.2	53.0	59.2	62.3	51.6	....	60.0	55.5	58.2	56.9
18	58.3	60.6	60.2	58.5	59.8	60.7	52.6	....	52.6	59.5	58.3	53.1
19	58.3	59.2	58.8	59.5	59.5	56.8	56.0	....	58.8	59.9	53.8	57.5
20	59.1	57.9	55.0	59.4	59.5	60.2	61.3	....	60.2	60.0	52.6	58.5
21	59.1	57.6	59.0	60.0	59.1	61.2	61.5	....	61.8	59.9	55.7	58.5
22	58.1	55.0	58.7	60.3	56.5	60.8	61.7	60.4	52.3	52.7	56.8	58.3
23	54.7	59.2	59.9	57.0	57.8	60.3	57.8	52.0	61.5	57.0	56.0	58.4
24	58.2	59.8	60.0	52.4	58.8	60.0	56.0	52.2	58.5	59.0	50.0	54.3
25	59.3	60.1	59.8	58.1	59.1	56.9	60.3	62.2	49.4	59.5	53.4	55.9
26	59.9	58.4	58.0	59.5	59.4	53.0	60.1	62.0	57.5	59.9	54.8	56.3
27	60.2	57.0	56.2	60.3	59.4	58.3	62.2	60.8	58.1	59.9	48.6	58.5
28	60.0	58.9	59.1	60.4	58.8	59.8	63.6	56.8	61.0	60.0	55.4	59.0
29	59.2		59.4	60.4	56.1	58.7	63.7	60.1	62.2	59.1	56.9	58.7
30	57.6		60.0	55.7	57.7	60.0	58.0	61.0	59.9	53.0	58.8	58.5
31	58.9		60.0		57.1		56.0	61.7		59.2		57.1

Ph-30(K23a-8311). City of Philadelphia. Island Ave. at Philadelphia International Airport. Lat. 39°52'40", long. 75°13'40". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 16 to 10 inches, depth 198 feet, cased to 117, screen 117-137. Land-surface datum is about 10 feet above msl. Highest water level 7.5 below lsd, Apr. 29-May 2, 1954; lowest 14.76 below lsd, Nov. 19, 1948. Records available: 1943-55. Jan. 18, 11.26.

Ph-34(K23a-7127). Pennsylvania RR. Philadelphia. Lat. 39°53'48", long. 75°11'55". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 6 inches, depth 154 feet, cased to 100. Land-surface datum is about 8 feet above msl. Highest water level 23.6 below lsd, Jan. 6, 1954; lowest 28.1 below lsd, July 31, Sept. 4, 1954. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.0	26.9	26.9	27.0	26.6	....	27.2	27.4	27.7	27.1	....	....
2	26.0	27.0	27.4	27.0	26.5	26.9	27.3	27.5	27.8	27.0	....	....
3	25.9	27.3	27.8	26.9	26.5	26.9	27.2	27.6	27.7	26.4	....	....
4	26.0	27.6	27.1	26.8	26.7	26.9	26.9	27.7	27.5	26.4	....	....
5	26.0	27.4	e26.9	25.6	26.9	26.7	26.7	28.0	27.0	26.5	....	....
6	26.1	27.1	e26.7	26.6	26.9	26.4	26.8	28.0	26.8	26.6	....	....
7	26.6	26.7	e26.6	26.7	27.0	26.5	26.9	27.6	26.9	26.6	....	25.3
8	26.7	26.8	26.9	27.1	26.9	26.4	27.0	27.6	26.9	26.5	....	25.7
9	26.3	26.8	26.8	26.8	26.9	26.8	27.3	27.5	27.0	26.2	....	26.0
10	26.3	27.0	27.1	26.5	26.8	e26.7	27.4	27.7	27.0	25.9	25.6	26.5
11	26.2	27.2	27.1	26.3	27.1	....	27.4	27.7	26.8	26.0	25.5	26.2
12	26.2	27.7	27.2	26.3	27.2	e26.9	27.5	27.7	26.3	25.9	25.3	26.0
13	26.5	27.5	27.0	26.4	27.2	27.2	27.6	....	26.5	25.8	25.2	25.9
14	26.8	27.0	27.0	26.4	27.2	27.3	27.6	....	26.7	25.8	24.7	25.8
15	26.7	27.1	26.8	26.5	27.1	27.5	27.9	....	27.0	25.5	24.9	....
16	26.4	27.0	26.7	26.8	26.9	27.7	27.1	....	27.3	25.5	25.0	26.0
17	26.3	27.2	27.3	26.4	27.0	27.9	26.9	....	27.2	25.1	25.7	25.9
18	26.6	27.4	27.2	26.3	27.0	27.9	26.5	....	27.0	25.1	26.0	25.7
19	26.3	27.4	27.2	26.4	27.2	27.8	26.6	....	26.5	....	26.0	....
20	26.9	27.6	27.1	26.6	27.3	27.4	26.9	....	26.4	....	25.2	....
21	26.7	27.2	26.8	26.7	27.3	27.5	27.3	....	26.8	....	24.7	....
22	26.5	27.1	26.5	26.7	27.3	27.6	27.5	27.2	27.1	....	25.0	25.9
23	26.5	26.8	27.0	26.9	26.9	27.8	27.6	27.3	27.1	....	25.9	25.9
24	26.3	27.0	27.1	26.5	26.9	27.8	27.6	27.5	27.0	....	25.1	25.6
25	26.4	27.1	27.1	26.1	27.0	27.7	27.4	27.6	26.8	....	25.0	....
26	26.8	27.2	26.9	26.3	27.1	27.3	27.5	27.8	26.2	....	25.8	....
27	27.3	27.0	27.3	26.6	27.1	27.0	27.6	27.8	26.3	....	25.8	26.0
28	27.1	26.9	27.2	26.7	27.1	27.0	27.7	27.8	26.7	....	24.4	26.0
29	27.1		26.9	26.9	26.9	26.8	27.9	27.5	26.8	....	....	26.1
30	27.1		27.0	26.9	e26.8	27.0	27.9	27.4	27.0	....	....	26.3
31	26.9		26.9		....		27.7	27.7		....		....

e Estimated.

Ph-61(K23a-6838). City of Philadelphia. League Island Park, Philadelphia. Lat. 39°54'00", long. 75°10'30". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 8 inches, depth 176 feet. Land-surface datum is about 16 feet above msl. Highest water level 21.7 below lsd, June 1, 1952; lowest 43.9 below lsd, June 10, 1955. Records available: 1943-55.

Ph-61(K23a-6838)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.3	e34.6	35.2	36.7	33.3	36.0	43.3	42.5	41.2	36.9	35.1	36.3
2	33.0	34.6	35.5	36.4	35.2	36.0	43.3	43.0	41.3	36.7	35.2	35.0
3	33.8	34.7	35.5	34.2	36.6	36.2	40.1	43.2	41.0	33.0	35.1	34.7
4	34.0	34.5	35.2	36.2	37.7	36.1	39.9	43.4	37.8	35.2	35.0	33.0
5	34.2	34.3	34.8	35.8	37.0	33.2	42.8	43.0	30.8	35.3	34.7	32.5
6	34.2	....	32.8	36.0	36.9	41.2	42.9	42.0	35.4	35.9	31.5	37.8
7	34.4	....	34.6	36.2	36.5	42.8	42.1	39.8	35.6	36.9	34.0	38.2
8	....	e34.5	34.9	36.1	33.6	43.2	42.5	41.1	36.0	37.0	34.3	38.7
9	....	....	35.1	34.7	37.1	43.3	42.5	42.4	36.0	33.3	35.6	38.2
10	....	....	35.3	32.0	36.5	43.9	42.1	41.5	34.5	33.0	35.3	36.0
11	34.4	....	35.4	35.3	36.9	43.5	42.1	41.6	31.7	34.1	34.0	34.8
12	34.5	....	35.3	36.1	37.0	39.8	42.6	41.3	34.2	34.3	32.7	35.3
13	34.4	....	34.0	36.1	37.1	42.7	42.7	40.8	36.9	34.7	31.0	35.6
14	34.6	....	34.8	35.9	36.5	43.3	41.5	31.0	37.0	....	33.4	36.0
15	34.6	36.7	35.0	36.2	33.9	43.3	40.5	39.8	37.4	....	34.3	36.0
16	e34.5	36.7	35.1	36.0	35.8	43.5	40.0	40.7	37.3	....	34.5	36.2
17	....	36.3	35.4	34.4	36.4	43.8	38.6	41.0	36.2	33.8	35.3	36.2
18	34.4	36.0	38.1	35.7	36.5	43.5	39.9	41.0	34.3	35.6	36.3	33.0
19	34.4	35.3	35.1	36.2	36.5	40.4	42.1	34.8	34.8	35.3	36.3	35.3
20	34.8	34.1	33.6	36.3	36.5	42.6	42.9	36.3	36.0	35.3	31.3	36.1
21	34.8	34.0	34.6	36.5	36.2	43.2	43.0	33.0	36.0	35.3	33.0	36.1
22	34.5	33.8	34.5	37.6	33.7	43.2	43.0	40.6	36.5	35.0	34.3	36.1
23	e33.8	35.0	35.1	36.3	35.6	43.2	43.0	41.3	36.5	32.4	34.5	36.0
24	....	35.3	35.2	32.5	36.0	43.2	40.2	41.5	36.3	34.4	33.2	35.8
25	e34.9	35.4	35.2	35.1	36.2	35.1	42.6	41.6	34.9	34.7	32.8	34.5
26	35.2	35.3	34.7	36.5	36.4	33.5	42.6	41.6	32.4	35.9	33.2	34.8
27	35.4	34.0	33.1	36.8	36.5	40.5	43.1	41.2	35.9	35.1	33.1	36.0
28	35.3	34.6	34.9	36.8	36.3	41.8	43.4	38.4	35.2	35.1	32.3	36.2
29	35.3	....	35.2	35.9	34.3	43.0	43.5	40.6	37.7	34.6	35.2	36.4
30	34.2	....	35.4	36.0	34.0	43.2	42.2	40.9	37.8	31.1	36.3	36.2
31	....	....	36.4	....	35.6	....	39.5	41.1	....	35.6	....	36.1

e Estimated.

Ph-77(K23a-5223). Atlantic Refining Co. Philadelphia. Lat. 39°55'28", long. 75°12'22". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 20 to 16 inches, depth 83 feet, cased to 83, screen 66-76. Land-surface datum is about 12 feet above msl. Highest water level 13.1 below lsd, Feb. 24, 1954; lowest 18.4 below lsd, Sept. 6, 1954. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.4	14.5	14.3	15.1	14.9	17.1	17.6	17.9	16.4	17.0	....	....
2	14.3	14.6	14.7	15.1	15.0	16.9	17.9	18.0	16.4	17.1	....	....
3	14.4	15.0	14.6	15.0	15.0	17.0	17.9	18.0	16.4	16.9	....	....
4	14.3	15.0	14.4	15.2	15.5	17.0	17.9	18.1	16.3	17.0	....	....
5	14.3	14.8	14.4	15.2	16.6	17.0	17.9	18.1	16.4	17.0	....	....
6	14.1	14.4	14.2	14.6	17.0	17.2	17.8	18.1	16.4	16.9	....	....
7	14.4	14.4	14.5	14.8	17.1	17.3	17.8	18.1	16.5	16.9	....	h13.8
8	14.5	14.4	14.8	15.1	17.2	17.2	17.9	18.1	16.5	17.0	....	....
9	14.3	14.4	14.7	15.1	17.3	17.0	17.8	18.1	16.4	17.1	....	....
10	14.3	14.4	14.6	15.1	17.3	17.0	17.9	18.0	16.4	17.1	h13.7	....
11	14.3	14.3	14.6	15.1	16.5	17.0	17.9	17.9	16.3	17.1	....	....
12	14.3	15.0	14.6	15.0	16.6	16.8	18.0	17.9	16.7	17.1	....	....
13	14.1	15.1	14.7	15.0	16.5	17.1	17.5	17.6	16.7	17.0	....	....
14	14.4	15.0	14.7	14.8	16.5	17.2	17.7	17.5	....	16.2	....	....
15	14.5	14.5	14.7	14.8	16.6	17.3	17.8	17.7	....	15.9	....	....
16	14.3	14.5	14.8	15.0	16.6	16.8	17.9	17.9	16.4	15.7	....	....
17	14.5	14.6	15.0	14.9	16.9	17.2	18.0	17.9	....	15.5	....	....
18	14.6	14.6	15.0	14.8	16.9	17.3	18.1	17.7	....	15.5	....	....
19	14.5	14.6	14.9	14.8	16.9	17.3	18.2	15.7	16.9	15.7	....	....
20	14.8	14.6	15.0	14.9	17.0	17.2	18.1	14.8	16.9	15.8	....	....
21	14.7	14.6	15.0	14.8	17.1	17.2	18.0	14.9	17.1	16.3	....	....
22	14.2	14.4	14.7	14.6	17.1	17.2	18.1	15.1	17.1	16.5	....	....
23	14.3	14.6	14.8	14.7	17.0	17.2	18.0	14.9	17.0	....	....	....
24	14.4	14.7	14.9	14.7	17.0	17.2	18.0	15.9	16.8	....	....	....
25	14.3	14.6	15.0	14.6	17.0	17.2	18.0	16.2	17.1	....	....	....
26	14.5	14.6	14.7	14.8	17.2	17.3	18.0	16.3	17.3	....	....	....
27	14.7	14.3	15.2	14.8	17.2	17.3	18.1	16.3	17.2	....	....	....
28	14.6	14.3	15.4	14.8	17.1	17.3	18.1	16.4	17.9	....	....	....
29	14.6	....	15.4	14.9	16.8	17.4	18.0	16.4	17.0	....	....	....
30	14.7	....	15.4	14.9	16.9	17.4	18.0	16.4	16.9	....	....	....
31	14.7	....	15.2	....	17.1	....	17.9	15.9	....	....	....	....

h Tape measurement.

Ph-143(K23a-6056). General Cold Storage. Philadelphia. Lat. 39°54'48", long. 75°08'57". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 18 to 10 inches, depth 159 feet, cased to 143, screen 143-158. Land-surface datum is about 12 feet above msl. Highest water level 43.3 below lsd, May 29, 1955; lowest 57.5 below lsd, Aug. 3-4, 1954. Records available: 1954-55. Recording gage removed Aug. 1.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July
1	51.0	55.4	48.7	54.0	49.7	47.6	50.2
2	48.4	52.7	47.3	50.6	51.3	50.0	49.5
3	51.7	54.8	47.6	49.0	52.8	51.9	48.1
4	53.4	55.0	47.5	53.0	52.9	49.5	47.7
5	53.3	53.1	45.8	54.2	52.7	47.1	47.4
6	54.1	50.1	45.0	52.7	53.2	52.7	49.8
7	54.8	52.7	48.9	51.0	50.5	53.0	49.4
8	52.5	54.3	48.0	52.3	48.7	54.4	49.7
9	50.7	52.2	49.9	49.5	52.6	53.0	48.0
10	54.3	51.2	51.8	46.8	53.7	51.9	47.2
11	55.1	53.3	53.5	50.9	54.1	48.8	49.0
12	52.0	52.4	52.4	51.2	53.7	47.3	49.3
13	52.5	50.6	50.3	51.6	53.5	49.0	48.3
14	54.4	52.9	51.2	51.6	50.5	49.3	48.7
15	53.0	53.2	52.3	51.3	48.2	49.7	48.9
16	50.4	52.0	50.5	47.9	51.8	49.7	47.3
17	53.7	50.4	50.6	45.1	52.9	50.8	46.1
18	54.9	53.9	51.1	50.4	53.2	48.3	46.9
19	52.6	52.7	49.7	51.0	54.1	40.4	47.4
20	52.5	50.7	48.4	52.6	55.0	47.6	47.5
21	54.0	51.6	....	52.8	51.8	49.5	48.0
22	51.7	54.4	....	53.4	48.4	49.0	48.5
23	50.6	51.9	....	49.2	52.1	50.3	48.0
24	53.6	52.1	....	46.0	53.8	51.3	46.7
25	53.6	52.2	51.0	49.1	54.5	50.0	47.8
26	52.5	50.2	51.2	50.1	53.4	47.6	48.7
27	53.3	48.0	48.3	50.8	49.3	49.7	49.7
28	54.6	48.6	51.0	51.2	44.6	50.5	50.1
29	53.3		52.0	51.8	43.3	50.8	49.6
30	52.5		54.0	45.5	45.2	51.7	48.2
31	54.8		53.2		46.1		48.8

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

Ph-177(K23a-3957). Quaker City Cold Storage Co. Philadelphia. Lat. 39°56'40", long. 75°08'38". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 18 to 12 inches, depth 78 feet, cased to 63, screen 63-78. Land-surface datum is about 15 feet above msl. Highest water level 9.2 below lsd, Nov. 10, 1955; lowest 19.2 below lsd, Aug. 12-13, 1954. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.6	18.4	17.9	18.2	17.2	17.8	17.8	17.3	17.1	18.7	....	....
2	17.3	18.3	18.0	18.2	17.6	e16.6	17.7	17.5	17.0	16.5	....	....
3	17.7	18.4	18.5	18.0	17.6	....	17.3	17.5	16.9	16.4	....	....
4	17.5	18.8	18.3	17.6	17.6	....	17.2	17.4	16.6	16.5	....	....
5	17.6	18.4	18.0	17.8	17.6	....	17.5	17.5	16.4	16.7	....	....
6	17.4	17.8	17.5	17.8	17.7	....	17.6	17.5	17.0	16.9	....	....
7	18.0	17.9	17.8	18.1	17.6	....	17.7	17.3	16.9	16.8	....	h10.6
8	18.3	18.1	18.1	18.5	17.3	....	17.5	17.6	17.1	16.7	....	....
9	17.5	18.1	18.0	18.3	17.8	....	17.3	17.5	17.0	16.5	....	....
10	17.8	18.0	18.3	17.9	17.7	....	17.1	17.5	16.7	16.5	h9.2	....
11	17.7	18.0	18.0	17.9	17.8	....	17.3	17.4	16.8	16.8	....	....
12	17.5	18.7	18.1	18.0	17.8	....	17.5	17.5	16.4	16.8	....	....
13	18.0	18.8	17.9	17.9	17.9	....	17.4	16.4	17.1	16.7	....	....
14	18.2	18.4	17.6	17.8	17.6	....	17.5	16.2	17.1	16.2	....	....
15	18.0	18.2	17.9	18.0	17.4	....	17.4	16.7	17.0	15.6	....	....
16	17.6	18.3	17.7	18.1	17.7	....	17.3	16.9	17.2	15.1	....	....
17	17.7	18.2	18.3	17.3	17.9	....	17.1	17.0	17.1	....	....	....
18	18.5	18.3	18.4	17.8	17.7	....	17.2	16.9	16.7	....	....	....
19	18.0	18.2	18.1	17.9	17.8	....	17.4	16.5	16.9	....	....	....
20	18.5	17.9	18.0	17.9	17.9	....	17.3	16.0	16.5	....	....	....

Ph-177(K23a-3957)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	18.3	18.1	17.8	17.8	17.8	....	17.3	15.6	17.0	....	....	....
22	17.7	18.1	17.8	17.8	17.6	....	17.3	16.1	17.1	....	....	....
23	17.8	17.9	17.5	17.6	17.6	....	17.3	16.7	17.0	....	....	....
24	18.0	18.3	17.9	17.4	17.8	....	17.1	16.8	16.2	....	....	....
25	18.0	18.2	17.8	17.4	17.7	....	17.4	16.7	16.5	....	....	....
26	18.2	18.1	18.0	17.4	18.0	....	17.4	16.8	16.6	....	....	....
27	18.6	17.9	17.6	17.7	17.9	....	17.5	16.7	16.7	....	....	....
28	18.6	17.9	18.4	17.7	17.5	....	17.8	16.4	16.6	....	....	....
29	18.1		18.8	17.7	17.3	17.9	17.6	16.7	16.9	....	....	....
30	18.1		18.6	17.4	17.3	17.8	17.3	16.7	16.8	....	....	....
31	18.4		18.4		17.2		16.9	17.0		....		....

e Estimated.

h Tape measurement.

Ph-249(K23a-4954). Crown Paper Board Co., Inc. Philadelphia. Lat. 39°55'40", long. 75°08'40". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 8 to 6 inches, depth 156 feet. Land-surface datum is about 13 feet above msl. Highest water level 26.6 below lsd, May 25, 1952; lowest 47.9 below lsd, May 18, 1951. Records available: 1947-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.4	....	42.4	46.6	40.9	43.3	43.9	39.5	42.7	40.6	41.2	....
2	39.0	....	41.3	45.5	41.4	43.7	42.8	40.1	42.2	38.1	41.6	....
3	41.5	e40.3	41.7	43.3	42.2	45.0	40.1	40.3	40.8	39.9	42.2	....
4	41.4	42.2	40.6	45.7	42.7	41.2	39.2	39.7	38.6	40.8	41.5	....
5	40.5	42.3	41.3	44.9	42.5	37.4	40.6	40.5	38.0	42.0	39.2	....
6	41.5	39.6	41.0	44.5	42.3	42.5	38.3	39.0	41.0	42.1	38.1	....
7	42.3	41.3	42.4	41.3	40.8	43.5	38.5	38.5	41.9	42.0	40.4	h41.0
8	40.9	42.2	40.6	41.7	37.9	43.1	38.8	39.2	42.2	39.8	41.2	41.5
9	39.4	41.4	41.4	41.6	42.0	43.0	37.0	40.6	43.9	38.2	41.9	40.9
10	42.3	41.2	42.8	34.7	42.6	45.4	35.7	39.9	41.6	39.9	41.9	39.5
11	43.2	41.9	43.8	42.7	42.2	41.9	39.3	40.4	39.3	41.9	42.2	....
12	42.6	42.1	44.3	42.7	42.9	39.2	38.8	41.6	42.2	41.1	41.5	....
13	40.2	41.6	40.6	43.2	43.1	42.7	37.6	40.2	42.9	41.4	38.6	....
14	42.4	41.9	43.2	42.5	41.1	44.0	42.2	39.4	43.1	41.1	39.5	....
15	42.3	42.8	44.0	42.6	38.3	44.1	41.5	42.0	43.2	39.1	41.5	....
16	40.0	41.9	42.9	40.4	41.3	44.5	40.8	43.0	42.8	37.1	41.4	....
17	41.8	41.1	43.5	39.0	42.4	45.4	40.4	42.9	41.7	39.3	41.9	....
18	43.0	42.3	44.5	42.9	42.9	42.3	40.6	43.0	40.2	41.3	43.3	....
19	41.7	42.3	45.1	43.5	42.2	39.2	41.2	43.6	41.5	42.7	40.4	....
20	40.9	42.4	43.3	44.1	42.7	43.0	42.7	41.3	42.9	43.1	38.5	....
21	41.8	41.5	44.0	44.4	40.9	45.1	43.5	39.7	43.6	41.8	41.3	....
22	40.7	42.3	44.6	44.0	38.0	44.4	42.7	41.2	42.0	38.5	42.3	....
23	39.4	42.6	42.3	40.6	41.7	44.0	41.7	44.0	42.1	36.3	42.4	....
24	41.2	41.5	43.3	40.7	43.2	45.0	40.9	43.9	40.0	40.5	40.5	....
25	42.3	42.7	45.1	42.0	44.7	42.0	42.6	43.7	38.1	43.0	40.9	....
26	41.3	41.7	43.8	42.6	43.8	42.0	41.0	44.3	40.0	42.7	39.9	....
27	40.1	40.7	42.9	42.9	43.3	43.3	41.6	41.6	40.5	42.9	37.9	....
28	41.7	42.3	46.4	44.0	39.3	43.4	41.6	39.4	42.9	41.8	39.1	....
29	41.8		47.3	44.2	40.0	44.5	42.0	41.2	41.6	40.2	....	....
30	....		45.0	38.8	40.4	45.5	39.3	42.8	42.5	38.0	....	....
31	....		44.5		43.1		38.5	43.2		40.2		....

e Estimated.

h Tape measurement.

Ph-323(K23b-0629). Liberty Corp. Philadelphia. Lat. 39°58'25", long. 75°04'08". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 6 inches, depth 110 feet. Land-surface datum is about 10 feet above msl. Highest water level 11.7 below lsd, Mar. 3, 1954; lowest 17.5 below lsd, Oct. 25, 1955. Records available: 1954-55.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.2	13.5	13.1	13.7	13.7	....	14.5	....	14.7	14.9	....	15.5
2	12.8	13.6	13.2	13.5	13.9	....	14.4	....	14.7	14.9	....	15.1
3	13.0	13.8	13.6	13.4	14.0	....	14.1	....	14.6	14.9	....	14.5
4	12.8	14.4	13.1	13.6	14.0	....	13.9	....	14.3	15.0	....	14.4
5	12.7	13.8	12.8	13.3	14.0	....	14.1	....	14.4	15.1	....	14.3

Ph-323(K23b-0629)--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	12.7	13.2	12.5	13.4	14.0	....	14.2	....	14.6	15.0	....	14.7
7	13.4	13.0	13.0	13.9	13.9	....	14.2	....	14.7	14.9	....	14.7
8	13.6	13.1	13.5	14.4	13.8	....	14.1	....	14.9	14.9	....	14.4
9	12.7	13.2	13.3	14.1	14.2	....	14.2	....	14.9	15.1	....	14.5
10	12.9	13.2	13.4	14.0	14.3	....	14.0	....	14.7	15.1	14.3	15.1
11	12.8	13.2	13.2	14.1	14.1	....	14.3	....	14.6	15.2	14.3	14.9
12	12.7	14.3	13.3	13.9	14.3	....	14.5	....	15.1	15.0	14.3	15.2
13	12.6	14.6	13.1	13.8	14.1	....	14.3	....	15.1	17.1	14.2	15.2
14	13.4	14.4	13.1	13.6	14.1	....	14.5	....	14.9	16.8	14.3	15.1
15	13.4	13.3	12.9	14.0	14.1	....	14.6	....	14.9	15.8	14.4	14.8
16	12.9	13.5	13.4	14.1	14.1	....	14.5	....	14.9	15.2	14.2	15.3
17	13.3	13.1	13.7	13.7	14.4	....	14.4	....	14.7	15.3	14.9	15.4
18	13.8	13.5	13.7	13.9	14.2	....	14.7	....	14.7	15.6	15.2	14.9
19	13.7	13.5	13.6	14.0	14.3	....	14.8	....	14.8	16.6	15.3	14.6
20	13.9	13.3	13.4	14.0	14.4	....	14.7	....	14.9	16.8	15.8	14.9
21	13.7	13.2	13.2	13.7	14.3	....	14.7	....	15.1	17.3	14.5	14.9
22	12.7	13.2	12.9	13.7	14.2	....	14.8	13.6	15.1	17.4	14.9	14.5
23	12.9	13.3	13.0	13.6	14.1	....	14.7	14.1	15.1	16.9	14.7	14.5
24	13.0	13.5	13.0	13.5	14.0	....	14.6	14.5	14.9	17.3	14.6	14.4
25	12.9	13.4	13.0	13.4	13.9	....	14.7	14.4	14.9	17.5	14.6	14.2
26	13.2	13.3	12.9	13.5	14.0	....	14.7	14.5	15.1	17.3	14.5	14.5
27	14.0	13.2	14.4	13.8	14.0	....	14.9	14.3	14.8	17.3	14.4	14.6
28	14.0	13.2	14.9	13.7	13.6	....	15.2	14.3	15.0	17.1	14.5	14.5
29	13.5		14.4	13.8	13.3	14.5	15.1	14.5	15.0	....	14.1	14.1
30	13.5		14.0	13.7	13.4	14.5	14.8	14.5	14.8	....	14.4	13.8
31	13.6		13.7	e13.3			14.6	14.8		....		14.3

e Estimated.

Pike County

Pi-3(D23b-5615). Commonwealth of Pennsylvania. Delaware State Forest. Lat. 41°25'00", long. 75°05'40". Drilled unused water-table well in shale or sandstone of Catskill formation, diameter 6 inches, depth 43 feet. Land-surface datum is about 1,310 feet above msl. Highest water level 17.17 below lsd, Mar. 28, 1953; lowest 45.76 below lsd, Oct. 23, 1949. Records available: 1948-54. Fred Hatton, voluntary observer. Measurement discontinued.

Schuylkill County

Sc-1(G18c-5864). Nick C. Donofrio. Pine Grove. Lat. 40°32'30", long. 76°22'40". Dug domestic water-table well in shale of Portage group, diameter 36 inches, depth 31 feet, cased with stone. Land-surface datum is about 560 feet above msl. Highest water level 4.14 below lsd, Aug. 31, 1940; lowest 31.78 below lsd, Nov. 5, 1944. Records available: 1931-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	10.79	Apr. 9	16.30	July 9	22.00	Oct. 8	18.70
8	12.00	16	14.66	16	22.20	15	16.00
15	16.26	23	12.28	23	22.60	22	13.76
22	14.70	30	14.58	30	23.00	29	14.08
29	15.80	May 7	15.70	Aug. 6	23.27	Nov. 5	14.80
Feb. 5	15.66	14	25.17	13	20.47	12	15.36
12	14.50	21	23.48	20	14.40	19	14.97
19	15.00	28	19.18	27	15.20	26	16.17
26	13.38	June 4	21.68	Sept. 3	17.60	Dec. 3	17.00
Mar. 5	11.60	11	19.00	10	18.07	10	17.17
12	12.28	18	18.08	17	18.80	17	17.98
19	14.50	25	20.60	24	19.57	24	18.76
26	11.70	July 2	21.06	Oct. 1	20.36	31	19.60
Apr. 2	13.28						

Sc-4(G19a-7963). Paul Fritz. Adamsdale. Lat. 40°38'00", long. 76°07'40". Dug unused water-table well in shale of Portage group or Hamilton formation, diameter 5 feet, depth 19 feet. Land-surface datum is about 500 feet above msl. Highest water level 2.07 below lsd, Oct. 9, 1950; lowest 13.40 below lsd, Apr. 15, 1955. Records available: 1948-55.

Jan. 21	5.35	Apr. 15	13.40	Aug. 24	3.09	Nov. 8	3.76
Feb. 18	4.92	June 28	7.30	Oct. 14	2.31	Dec. 9	5.37
Mar. 18	3.90	July 27	10.50				

Sc-5(G19d-1216). George Mingle. Near Auburn. Lat. 40°36'20", long. 76°05'30". Dug unused water-table well in Marcellus shale, diameter 36 inches, depth 34 feet. Land-surface datum is about 490 feet above msl. Highest water level 23.48 below lsd, Feb. 4, 1952; lowest 29.54 below lsd, Nov. 22, 1954. Records available: 1948-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	28.06	Apr. 15	25.80	July 27	27.79	Nov. 8	24.94
Feb. 18	28.00	May 4	25.78	Aug. 24	27.13	Dec. 9	25.17
Mar. 18	26.75	June 28	26.96	Oct. 14	26.43		

Somerset County

So-1(K7c-0912). N. B. Sanner. Markleton. Lat. 39°51'40", long. 79°13'30". Dug unused water-table well in Allegheny formation, diameter 18 inches, depth 19 feet, cased with tile. Land-surface datum is about 1,680 feet above msl. Highest water level 10.46 below lsd, Mar. 21, 1955; lowest 17.45 below lsd, Nov. 30, 1953. Records available: 1931-55. R. E. Carpenter, voluntary observer. Measurement discontinued.

Jan. 3	13.04	Apr. 5	13.39	July 7	15.00	Oct. 3	16.05
10	13.10	12	13.76	14	14.95	11	17.08
17	13.70	18	14.11	18	15.15	17	15.90
24	14.10	27	13.30	26	14.90	24	15.90
Feb. 1	14.45	May 2	13.47	Aug. 2	15.20	Nov. 1	16.08
8	13.76	9	13.90	8	15.15	8	16.15
15	13.68	16	14.16	15	14.65	14	16.20
23	12.82	24	14.52	22	14.48	22	15.55
Mar. 2	12.47	June 1	14.64	29	14.70	27	15.48
7	11.95	7	14.85	Sept. 5	15.08	Dec. 5	15.68
14	12.48	14	13.70	12	15.45	13	15.50
21	10.46	20	14.00	20	15.73	23	15.60
28	12.75	27	14.45	26	16.00	28	15.60

So-2(J7c-8404). Commonwealth of Pennsylvania. Laurel Hill Recreational Area. Bakersville. Lat. 40°00'00", long. 79°14'20". Drilled unused artesian well in sandstone of Pottsville formation, diameter 4 to 6 inches, depth 450 feet, cased to 311. Land-surface datum is 2,040 feet above msl. Highest water level 29.35 below lsd, May 3, 1948; lowest 35.97 below lsd, Aug. 21, 1937. Records available: 1937-55. Fred W. Eakin, voluntary observer.

Jan. 5	30.84	May 3	30.59	July 13	30.95	Sept. 26	32.12
12	30.84	10	30.65	22	31.10	Oct. 10	32.80
Feb. 2	30.75	18	30.64	27	31.10	20	32.20
10	30.78	24	30.59	Aug. 3	31.25	Nov. 2	32.26
Mar. 10	30.61	June 1	30.74	4	31.32	18	32.25
21	30.42	8	30.49	16	31.35	23	32.19
29	30.45	16	30.60	25	31.56	Dec. 6	32.17
Apr. 13	30.56	21	30.60	30	31.61	17	32.15
22	30.47	28	30.76	Sept. 13	32.0	22	32.11
27	30.37	July 6	30.80	21	32.07		

Sullivan County

Su-1(C17d-8117). Carl D. Molyneux. Near Forksville. Lat. 41°30'20", long. 76°35'20". Dug unused water-table well in sand and gravel of Pleistocene age, diameter 4 feet, depth 28 feet, cased with stone. Land-surface datum is about 1,280 feet above msl. Highest water level 18.11 below lsd, Dec. 2, 1950; lowest dry several times 1935-55. Records available: 1935-55.

Jan. 1	23.66	Apr. 9	25.48	July 9	(f)	Oct. 7	26.38
8	24.54	16	25.29	16	(f)	15	21.77
15	24.88	23	25.85	23	(f)	22	24.44
22	23.17	30	25.92	30	(f)	31	24.26
29	25.92	May 7	26.33	Aug. 6	(f)	Nov. 5	23.64
Feb. 5	26.28	14	26.47	13	(f)	12	24.49
12	25.62	21	(f)	20	24.87	19	24.72
19	25.84	28	26.31	27	25.81	26	25.04
26	23.76	June 4	26.27	Sept. 5	25.93	Dec. 3	25.46
Mar. 5	23.08	11	26.42	10	26.29	10	25.82
12	23.46	18	(f)	17	(f)	17	25.98
19	23.93	25	(f)	24	(f)	26	26.12
26	23.71	July 2	(f)	Oct. 1	(f)	31	26.41
Apr. 2	24.64						

f Dry.

Susquehanna County

Sq-1(B20c-2461). Carlton farm. Montrose. Lat. 41°50'20", long. 75°52'50". Dug unused water-table well in drift of Pleistocene age, diameter 36 inches, depth 38 feet, cased with stone. Land-surface datum is about 1,685 feet above msl. Highest water level 0.70 below lsd, Mar. 18, 1936; lowest 9.41 below lsd, Nov. 9, 1953. Records available: 1930-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	2.9	Apr. 5	4.9	July 6	7.70	Oct. 5	7.95
11	3.87	12	5.43	13	7.79	12	7.02
18	5.47	19	4.9	19	8.09	19	4.38
25	6.39	27	4.32	27	8.40	26	4.26
Feb. 1	7.47	May 3	4.17	Aug. 3	8.65	Nov. 2	3.00
8	7.63	10	5.66	10	8.61	9	2.95
16	7.47	17	6.9	17	8.40	16	2.85
22	7.48	26	7.62	24	8.15	24	3.98
Mar. 1	4.72	June 1	8.38	31	7.00	Dec. 1	5.04
9	4.20	7	8.49	Sept. 7	7.09	8	5.17
15	3.9	15	8.55	14	7.40	15	5.69
22	3.80	22	8.08	21	7.44	22	6.58
29	3.62	28	7.39	28	7.70	30	7.69

Tioga County

Ti-1(B13d-8436). Lewis Robert Kohler. Gaines. Lat. 41°45'00", long. 77°33'30". Dug used water-table well in sand of Pleistocene age, diameter 4 feet, depth 23 feet, cased with stone. Land-surface datum is about 1,290 feet above msl. Highest water level 4.65 below lsd, Mar. 21, 1936; lowest 21.18 below lsd, Sept. 16, 1939. Records available: 1935-55.

Jan. 1	13.75	Apr. 9	12.34	July 9	18.09	Oct. 8	15.00
8	11.88	16	13.30	16	18.46	15	4.86
15	12.49	23	13.60	23	18.78	22	7.33
22	14.90	30	13.38	30	18.89	29	9.13
29	17.20	May 7	14.27	Aug. 6	19.10	Nov. 5	11.80
Feb. 5	17.94	14	16.09	13	18.85	12	14.29
12	17.69	21	16.70	20	12.54	19	10.15
19	17.50	28	17.00	27	15.70	26	9.43
26	13.17	June 4	17.08	Sept. 3	16.87	Dec. 3	11.90
Mar. 5	5.95	11	16.09	10	18.13	10	14.43
12	6.17	18	17.50	17	18.41	17	16.06
20	6.64	25	18.17	24	18.35	24	17.45
27	5.94	July 2	18.54	Oct. 1	18.49	31	17.64
Apr. 2	9.56						

Union County

Un-1(F15a-8127). D. R. Pursley. Laurelton. Lat. 40°52'50", long. 77°51'50". Dug unused water-table well in shale or limestone of Cayuga group, diameter 5 feet, depth 13 feet. Land-surface datum is about 655 feet above msl. Highest water level 2.84 below lsd, Mar. 22, 1952; lowest 9.18 below lsd, Oct. 26, 1951. Records available: 1946-55.

Jan. 7	4.27	Apr. 8	3.85	July 22	6.98	Oct. 14	3.11
14	4.26	15	3.85	29	7.94	21	3.55
21	4.36	22	3.8	Aug. 5	7.95	28	3.95
28	4.37	May 5	3.80	15	6.75	Nov. 3	3.79
Feb. 4	4.36	12	4.93	19	3.97	11	3.58
11	4.30	20	4.94	26	3.96	18	3.50
18	5.03	27	4.95	Sept. 3	3.97	25	3.35
25	5.04	June 3	7.00	9	3.99	Dec. 2	3.35
Mar. 4	3.90	10	6.99	16	3.95	9	3.28
11	3.90	17	7.00	26	3.96	16	3.29
18	3.85	24	7.00	30	3.95	23	3.30
25	3.87	July 1	6.00	Oct. 7	3.96	30	3.33
Apr. 1	3.86	16	6.98				

Washington County

Ws-1(J3c-5924). Albert Mankey. Amity. Lat. 40°02'20", long. 80°12'10". Dug unused water-table well in limestone of Washington formation, diameter 40 inches, depth 36 feet, cased with stone to 4. Land-surface datum is about 1,190 feet above msl. Highest water level 8.39 below lsd, June 22, 1946; lowest 34.14 below lsd, Oct. 1, 1938. Records available: 1936-55.

Ws-1(J3c-5924)--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	16.66	Mar. 12	12.69	June 20	16.71	Aug. 20	22.17
11	15.45	Apr. 2	16.56	July 2	19.21	27	22.54
22	15.21	9	17.49	18	24.25	Sept. 17	29.26
28	17.61	16	16.52	25	24.56	Oct. 11	28.72
Feb. 8	13.67	May 7	17.85	30	25.11	18	28.45
19	12.71	21	19.63	Aug. 4	26.29	26	23.11
26	11.91	June 4	20.51	8	26.90	Dec. 12	23.76

Wayne County

Wn-1(D23a-0933). Arthur H. Tyce. Near Hawley. Lat. 41°29'10", long. 75°11'10". Dug unused water-table well in sand and gravel of Pleistocene age, diameter 30 inches, depth 17 feet, cased with stone. Land-surface datum is about 920 feet above msl. Highest water level 2.08 below lsd, May 23, 1942; lowest dry, several times, in 1941, and October 1953, October 1954. Records available: 1931-42, 1944-55.

Jan. 1	10.70	Apr. 9	7.96	July 9	12.85	Oct. 8	10.10
8	10.22	16	8.39	16	3.65	15	2.16
15	10.36	23	8.82	23	14.35	22	7.07
22	10.71	30	8.89	30	14.80	29	3.74
29	11.11	May 7	9.19	Aug. 6	14.84	Nov. 5	5.24
Feb. 5	11.63	14	9.80	13	11.40	12	6.72
12	11.47	21	10.12	20	4.73	19	6.61
19	11.40	28	10.60	27	8.45	26	6.74
26	6.65	June 4	10.78	Sept. 3	9.42	Dec. 3	8.27
Mar. 5	9.67	11	11.20	10	10.57	10	7.91
12	9.24	18	11.90	17	11.01	17	9.07
19	8.86	25	11.80	24	12.00	24	9.48
26	6.65	July 2	12.27	Oct. 1	11.60	31	9.50
Apr. 2	8.30						

RHODE ISLAND

By G. W. Hahn

Scope of Water-Level Program

The collection of water-level data in cooperation with the Rhode Island Development Council was continued in 1955 in 75 observation wells, 23 more than in 1954. In 6 wells, readings were made daily, in 14 weekly, and in 43 monthly; 12 wells were equipped with recording gages. Most of the observation wells are in outwash and till deposits of Pleistocene age; four wells penetrate bedrock. Figures 45 and 46 show the location of observation wells. Monthly sampling of ground water for chloride content was continued during 1955 in the Woonasquatucket River valley in Providence. Field work for quadrangle investigations of ground-water conditions was completed in the Carolina, Quonochontaug, and Narragansett Pier quadrangles in southern Rhode Island. Reports on the ground-water resources of East Greenwich, Kingston, and Providence quadrangles will be published as Geological Bulletins 8, 9, and 10, respectively, by the Rhode Island Development Council. More detailed investigation of the water resources of the State was continued, special emphasis being given to quantitative estimates of available ground water in the Upper Pawcatuck River basin in the southern part of the State.

Precipitation

Statewide precipitation averaged 47.97 inches in 1955, 5.67 inches less than in 1954 and 4.85 inches above normal. Precipitation at the Theodore Francis Green Airport in Warwick, representative of the Providence area, totaled 51.71 inches, 0.18 inch more than in 1954 and 12.08 inches above normal. In 1955 precipitation was heaviest in August (10.21 inches)--principally because of hurricanes "Connie" and "Diane" which contributed 2.97 and 6.16 inches, respectively--in October (7.73 inches), and in November (5.27 inches), and normal or below normal during the other months. The annual temperature in the State averaged about normal.

Pumpage

The total gross withdrawal of ground water in 1955 was estimated to be 30 mgd (million gallons per day), an increase since 1954 of about 1 mgd. The largest was in the Providence area where more than 5.6 mgd was pumped. (The estimated gross of 34 mgd reported in 1954 was about 5 mgd too high according to present calculations.)

Interpretation of Water-Level Fluctuations

Water levels in Rhode Island fluctuate seasonally in response to variations in precipitation and evapotranspiration and, in some areas, to heavy pumping. In general, the yearly fluctuations are more or less cyclical: water levels rise during the nongrowing season, when losses by evaporation, transpiration, and artificial withdrawals are low, and decline during the growing season, when such losses and withdrawals are high. The yearly peaks are usually reached in March but occasionally as late as June, the yearly lows in October.

With few exceptions, the natural trend was more or less normal for the first half of 1955. As based on data for eight representative wells, water levels were normal or slightly below normal in the spring and early summer. In 23 of the 51 wells where natural water-level fluctuations were recorded, 16 yearly peaks were measured in March and 7 in January, February, April, and May; however, the normal trend was changed appreciably by the unusual pattern of heavy precipitation during the last half of 1955. Large unseasonal rises after the heavy rains in August, October, and November resulted in yearly peak stages in August in 2 wells in the northern part, in September in 1 well in the central part, in October in 7 wells throughout the State, and in November in 18 wells in the central and southern parts. During these 4 months, water levels ranged from less than 1 foot to almost 5 feet above normal in 4 representative wells in outwash (averaging about 2 feet above normal for this period) and from almost 1 foot to more than 9 feet above normal in 4 representative wells in till (averaging about 4 feet above normal). By the end of December, however, water levels had declined to about normal or slightly below. The sum total of all climatic and hydrologic factors was such that, in general, by the end of 1955 storage in the ground-water reservoirs had decreased slightly from that at the end of 1954.

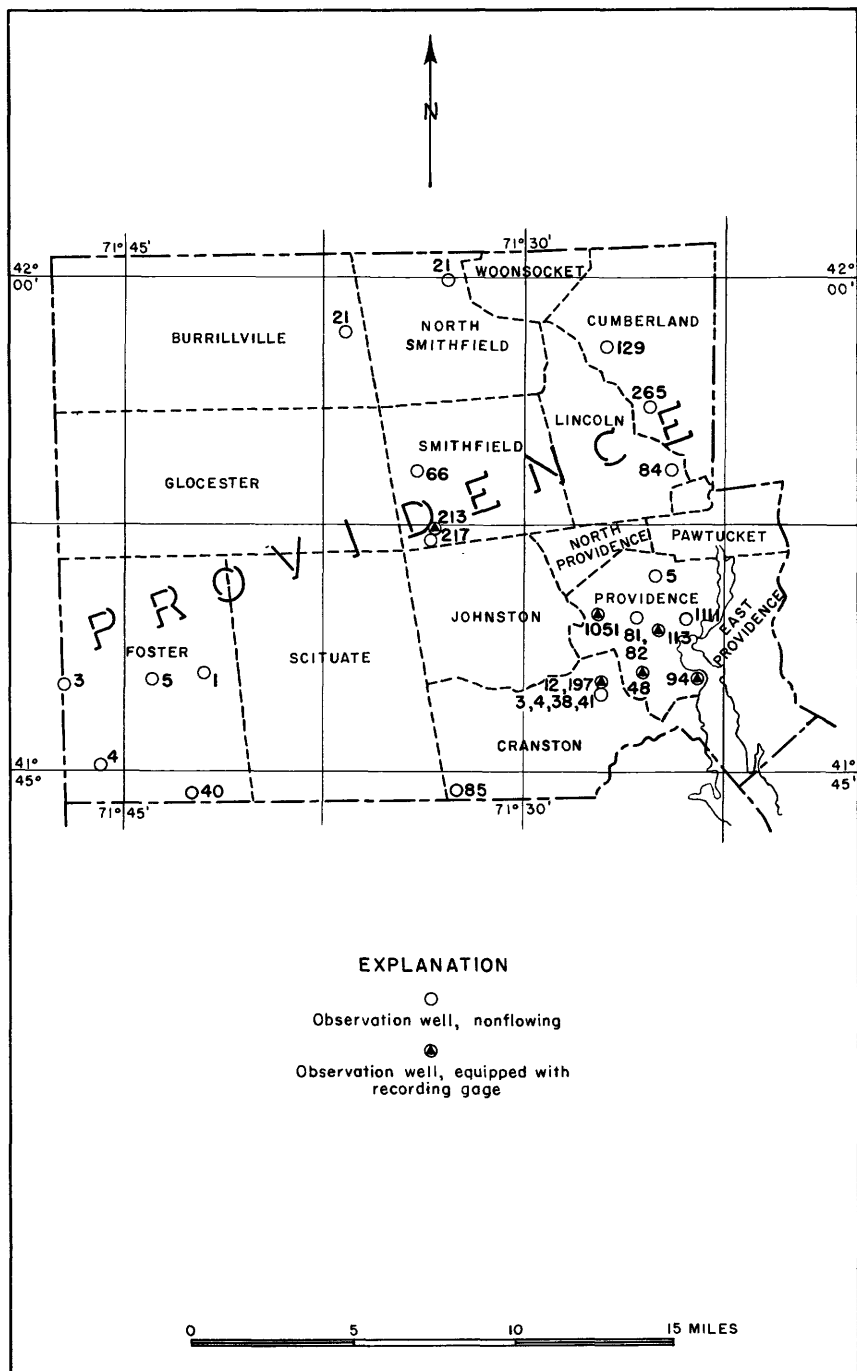


Figure 45. --Location of observation wells in Providence County, R. I., 1955.

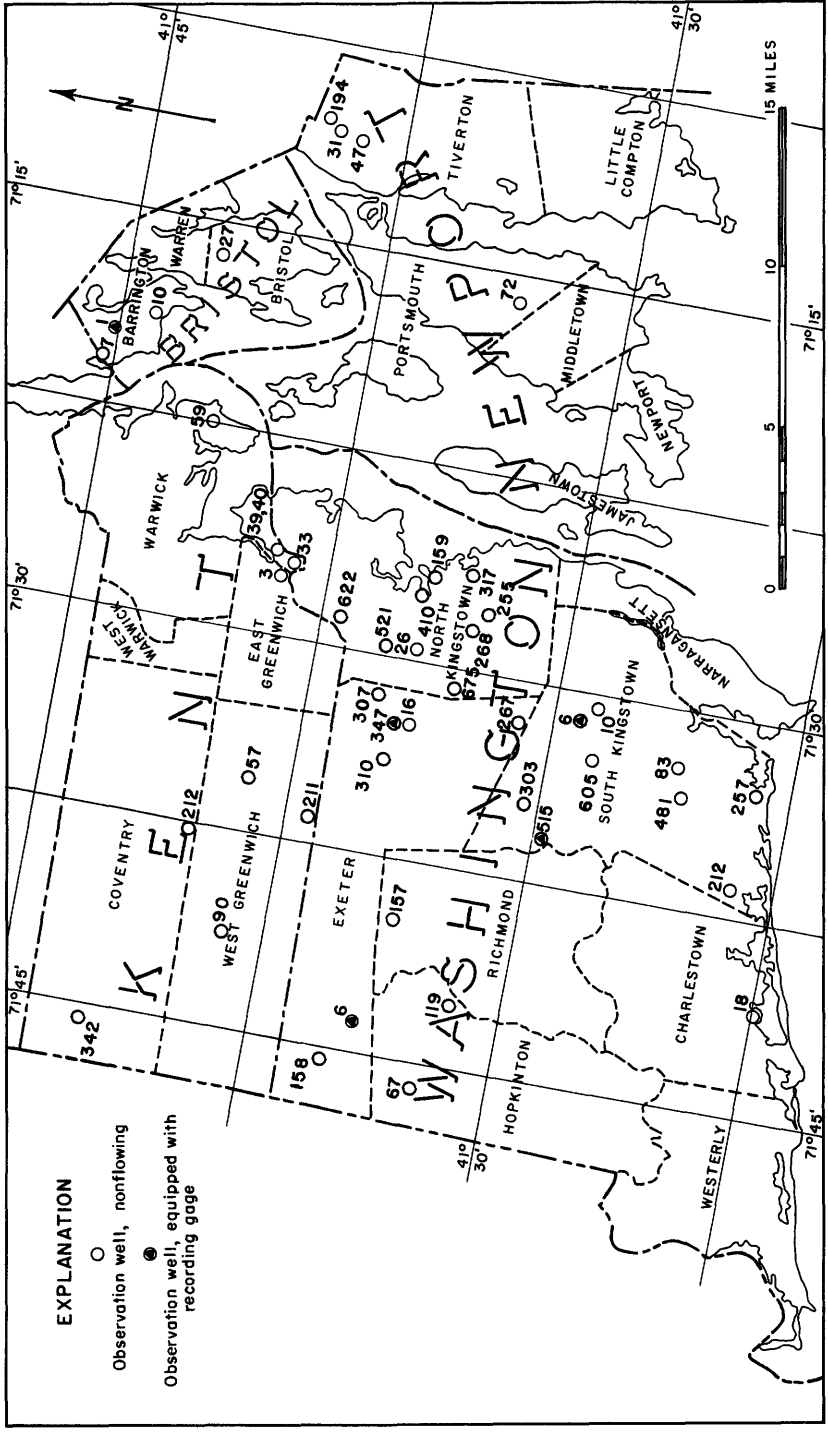


Figure 46. --Location of observation wells in Bristol, Kent, Newport, and Washington Counties, R. I., 1955.

Well-Numbering System

The identifying symbols for wells consist of the name of the town or city followed by a number. Wells in each town or city are numbered independently.

Well Descriptions and Water-Level Measurements

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

Bristol County

Barrington 1. Barrington. Lat. 41°44'35", long. 71°19'31". Drilled unused water-table well in bedrock, diameter 10 inches, depth 232 feet. Land-surface datum is 50.90 feet above msl. Highest water level 42.71 below lsd, May 29, 1948; lowest 46.92 below lsd, Dec. 15, 1945. Records available: 1945-55. Recording gage in operation from Jan. 13 to Sept. 27.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	43.89	43.83	43.44	43.66	44.16	44.61	44.97	44.28	.....	.....	.....
2	.....	43.91	43.80	43.45	43.67	44.17	44.63	45.01	44.30	.....	.....	.....
3	.....	43.94	43.82	43.46	43.66	44.18	44.63	45.04	44.30	.....	.....	.....
4	.....	43.97	43.80	.....	43.71	44.19	44.66	45.05	44.31	.....	.....	.....
5	.....	43.98	43.77	.....	43.71	44.20	44.67	45.09	44.32	.....	.....	.....
6	.....	43.98	43.75	43.48	43.71	44.24	44.69	45.11	44.32	.....	.....	.....
7	.....	43.92	43.69	43.49	43.73	44.22	44.61	45.12	44.34	.....	.....	.....
8	.....	43.93	43.67	43.54	43.73	44.24	44.60	45.11	44.37	.....	.....	.....
9	.....	43.96	43.63	43.55	43.75	44.25	44.62	45.13	44.40	.....	.....	.....
10	.....	43.96	43.63	43.56	43.75	44.26	44.63	45.15	44.41	.....	.....	.....
11	.....	43.96	43.60	43.61	43.77	44.28	44.68	45.15	44.42	.....	.....	.....
12	.....	43.86	43.60	43.62	43.79	44.27	44.70	45.16	44.45	.....	.....	.....
13	43.51	43.86	43.59	43.64	43.81	44.25	44.73	45.07	44.49	.....	.....	.....
14	43.55	43.86	43.61	43.63	43.82	44.27	44.74	45.05	44.52	.....	.....	.....
15	43.55	43.85	43.60	43.64	43.85	44.29	44.77	45.07	44.52	.....	.....	.....
16	43.58	43.88	43.57	43.68	43.86	44.32	44.78	45.09	44.54	.....	.....	.....
17	43.60	43.87	43.58	43.69	43.86	44.35	44.80	45.12	44.52	.....	.....	.....
18	43.62	43.80	43.58	43.72	43.88	44.36	44.84	45.12	44.53	.....	.....	.....
19	43.64	43.80	43.60	43.73	43.90	44.38	44.86	45.00	44.54	.....	.....	.....
20	43.67	43.80	43.61	43.75	43.93	44.39	44.89	44.67	44.56	.....	.....	.....
21	43.68	43.81	43.62	43.76	43.96	44.41	44.89	44.51	44.63	.....	.....	.....
22	43.69	43.79	43.60	43.77	43.97	44.42	44.90	44.45	44.65	.....	.....	.....
23	43.72	43.80	43.49	43.78	43.98	44.43	44.91	44.43	44.67	.....	.....	.....
24	43.73	43.81	43.47	43.79	43.99	44.46	44.91	44.35	44.67	.....	.....	.....
25	43.73	43.82	43.46	43.77	44.01	44.49	44.87	44.32	44.64	.....	.....	.....
26	43.75	43.83	43.43	43.74	44.05	44.49	44.86	44.30	44.66	44.28	.....	.....
27	43.77	43.82	43.39	43.75	44.06	44.52	44.88	44.28	44.66	.....	.....	.....
28	43.79	43.83	43.42	43.74	44.07	44.54	44.89	44.27	.....	.....	.....	44.22
29	43.81	.....	43.41	43.70	44.10	44.57	44.92	44.29	.....	.....	.....	.....
30	43.84	.....	43.44	43.67	44.12	44.58	44.95	44.28	.....	.....	.....	.....
31	43.87	.....	43.43	.....	44.13	.....	44.95	44.29	.....	.....	.....	.....

Barrington 7. Rhode Island Lace Works, Inc. Narragansett and Bay Spring Aves. Lat. 41°45'00", long. 71°20'57". Dug unused water-table well in sand and gravel, diameter 4½ feet, depth 12 feet. Land-surface datum is about 15 feet above msl. Highest water level 4.99 below lsd, June 1, 1948; lowest 10.91 below lsd, Oct. 31, 1949. Records available: 1947-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	6.03	Feb. 21	6.33	Apr. 11	6.31	June 6	7.08
10	6.11	28	6.42	18	6.48	13	7.02
17	6.36	Mar. 7	6.10	25	6.13	20	7.32
24	6.58	14	6.17	May 1	6.36	27	7.36
31	6.77	21	6.28	9	6.22	July 18	7.46
Feb. 7	6.65	28	5.89	23	6.75	25	7.26
14	6.40	Apr. 4	6.09	31	6.91	Aug. 8	7.75

Barrington 7--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 16	7.56	Sept. 19	7.33	Oct. 24	6.72	Nov. 28	6.50
22	6.31	26	6.34	31	6.92	Dec. 5	6.69
30	6.50	Oct. 3	7.36	Nov. 7	6.38	12	6.88
Sept. 6	6.78	10	7.40	14	6.27	19	7.02
12	7.03	17	6.84	21	6.21	27	7.17

Barrington 10. Charles Douglas. Lat. $41^{\circ}43'33''$, long. $71^{\circ}18'57''$. Dug unused water-table well in sand and gravel, diameter 30 inches, depth 38 feet. Land-surface datum is about 40 feet above msl. Highest water level 32.81 below lsd, June 30, 1948; lowest dry, Oct. 31, Nov. 28, Dec. 27, 1952, Oct. 2, 30, 1953. Records available: 1947-55.

Jan. 26	35.91	Apr. 25	35.58	July 26	37.04	Oct. 26	37.22
Feb. 23	35.97	May 25	35.79	Aug. 25	37.47	Nov. 25	36.55
Mar. 28	35.70	June 27	36.38	Sept. 27	37.50	Dec. 28	36.43

Bristol 27. H. T. Sullivan. Hope and Tupelo Sts. Lat. $41^{\circ}42'14''$, long. $71^{\circ}16'53''$. Dug unused water-table well in till, diameter 30 inches, depth 26 feet. Land-surface datum is about 120 feet above msl. Highest water level 9.21 below lsd, Mar. 26, 1950; lowest 18.51 below lsd, Oct. 30, 1951. Records available: 1949-55.

Jan. 26	13.60	Apr. 25	13.90	July 26	15.01	Oct. 26	12.05
Feb. 23	12.27	May 25	13.79	Aug. 25	12.59	Nov. 25	11.72
Mar. 28	11.21	June 27	14.64	Sept. 27	14.44	Dec. 28	14.09

Kent County

Coventry 212. Victor A. Francis. Lat. $41^{\circ}40'06''$, long. $71^{\circ}37'37''$. Dug unused water-table well in sand, diameter 30 inches, depth 14 feet. Land-surface datum is about 270 feet above msl. Highest water level 4.37 below lsd, Dec. 28, 1954; lowest 10.90 below lsd, Sept. 29, 1955. Records available: 1953-55.

Jan. 28	6.53	Apr. 28	6.74	July 28	10.74	Oct. 28	5.45
Feb. 25	5.38	May 27	7.54	Sept. 1	9.10	Nov. 29	4.90
Mar. 29	4.75	June 29	9.56	29	10.90	Dec. 30	7.63

Coventry 342. Emma G. Inman. Lat. $41^{\circ}42'23''$, long. $71^{\circ}45'37''$. Dug unused water-table well in sand and gravel, diameter 30 inches, depth 13 feet. Land-surface datum is about 380 feet above msl. Highest water level 6.47 below lsd, Dec. 29, 1954; lowest 10.64 below lsd, Aug. 2, 1954. Records available: 1953-55.

Jan. 28	8.51	Apr. 28	8.38	July 28	10.35	Oct. 28	6.54
Feb. 25	8.03	May 27	8.77	Sept. 1	7.86	Nov. 29	7.36
Mar. 30	7.05	June 29	9.70	29	8.90	Dec. 30	9.28

East Greenwich 3. Kent County Water Authority. Lat. $41^{\circ}38'06''$, long. $71^{\circ}28'10''$. Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 107 feet. Land-surface datum is about 34 feet above msl. Highest water level 4.0 below lsd, Mar. 24, 26, 1949; lowest 23.5 below lsd, Aug. 15-Sept. 11, 1944. Records available: 1944-47, 1949-51, 1955. Water level influenced by nearby pumping well. Measurement discontinued.

Daily water level by tape measurement from pumping well

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	k5.58	7.75	k5.58	k5.92	k6.17	k6.17	13.25	....	9.92	9.33	....
2	....	7.67	7.67	k5.58	k5.92	8.25	8.25	13.25	10.75	9.92	9.17	....
3	....	7.67	k5.58	7.83	k5.92	8.33	8.42	13.17	10.67	9.92	9.17	....
4	....	k5.50	k5.58	7.83	7.83	8.33	8.67	13.17	10.67	9.83	9.00	....
5	....	k5.67	k5.50	7.83	7.92	8.25	8.67	13.00	10.58	9.83	9.00	....
6	....	7.50	k5.58	7.83	7.92	8.33	8.83	13.00	10.50	9.67	9.00	....
7	....	7.58	7.67	7.83	7.92	k6.33	9.08	13.00	10.42	9.67	9.00	....
8	....	7.67	7.67	7.92	7.92	k6.25	9.17	12.67	10.42	9.58	9.00	....
9	....	k5.50	7.67	k5.67	7.92	k6.33	9.33	12.33	10.42	9.58	8.83	....
10	....	k5.50	7.58	k5.67	7.92	k6.33	9.50	12.00	10.42	9.58	8.67	....
11	7.83	k5.50	7.58	k5.67	k8.00	k6.33	9.83	11.67	10.25	9.58	8.67	....
12	7.83	7.67	7.67	k5.75	k6.08	k6.42	10.00	10.92	10.25	9.50	8.50	....
13	k5.50	7.67	7.50	k5.67	k6.00	k6.50	10.00	10.92	10.25	9.50	8.50	....
14	k5.50	7.67	k5.67	k5.75	k6.08	k6.50	10.17	10.92	10.25	9.50	8.42	....
15	k5.58	k5.50	k5.67	k5.83	k6.08	k6.50	10.25	10.92	10.08	9.50	8.42	....
16	7.75	k5.58	k5.67	7.92	8.00	k6.58	10.42	10.92	10.08	9.50	8.33	....
17	7.83	k5.67	k5.67	7.92	8.08	k6.58	10.58	10.92	10.08	9.50	8.33	....
18	7.75	7.67	k5.58	7.83	8.08	k6.67	10.67	10.83	10.08	9.50	8.33	....
19	7.75	7.75	k5.50	7.83	8.00	k6.67	10.83	10.83	10.08	9.42	8.33	....
20	k5.42	k7.67	k5.58	k5.75	8.08	k6.67	10.83	10.92	10.08	9.42	8.33	....

East Greenwich 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	k5.50	k5.58	7.75	k5.67	8.17	8.42	11.00	10.92	10.08	9.33	8.25	....
22	k5.50	k5.58	7.87	k5.75	8.17	8.42	11.17	10.83	10.00	9.33	8.25	....
23	k5.42	k5.58	7.67	k5.67	8.25	8.42	11.17	10.83	10.00	9.33	8.25	....
24	7.83	k5.50	7.67	k5.75	8.17	8.42	11.42	10.83	10.00	9.33	8.25	....
25	7.75	7.83	7.67	7.83	8.08	8.50	11.42	10.83	10.00	9.33	8.25	....
26	k5.58	7.83	k5.58	7.83	8.17	8.50	11.50	10.75	10.00	9.33	8.25	....
27	k5.67	7.83	k5.67	7.92	k6.00	8.50	11.50	10.75	9.92	9.33	8.25	....
28	7.67	7.83	k5.58	7.92	k6.08	8.58	11.50	10.75	9.92	9.33	8.25	....
29	7.75		k5.50	7.92	k8.08	8.50	11.50	10.75	9.92	9.33	8.25	....
30	7.83		k5.50	5.92	k6.17	8.58	11.50	10.75	9.92	9.33	8.17	....
31	7.75		k5.58		k6.17		13.25	10.75		9.33		....

k Not pumping.

Warwick 33. Kent County Water Authority. Lat. 41°38'08", long. 71°28'05". Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 118 feet. Land-surface datum is about 32 feet above msl. Highest water level 5.0 below lsd, Dec. 27, 1945; lowest 23.5 below lsd, Aug. 16-Sept. 12, 1944. Records available: 1944-47, 1949-51, 1955. Measurement discontinued.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	a8.67	5.67	a8.67	a8.83	a9.25	a9.25	a11.33	....	8.83	8.33	....
2	....	5.58	5.67	a8.75	a8.75	a9.25	a9.25	a11.33	9.50	8.83	8.33	....
3	....	5.67	a8.75	5.67	a8.83	a9.25	a10.50	a11.25	9.33	8.83	8.00	....
4	....	a8.75	a8.75	5.58	5.92	a9.33	a10.42	a11.25	9.25	8.67	8.00	....
5	....	a8.83	a8.67	5.58	5.92	a9.33	a10.50	a11.00	9.25	8.67	8.00	....
6	....	5.67	a8.75	5.67	6.00	a9.33	a10.58	a11.00	9.25	8.58	8.00	....
7	....	5.67	5.50	5.67	6.00	a9.33	a10.58	a11.00	9.17	8.50	8.00	....
8	....	5.58	5.42	5.67	6.08	a9.33	a10.58	a10.83	9.17	8.50	8.00	....
9	....	a8.75	5.50	a8.83	6.08	a9.42	a10.58	a10.50	9.17	8.50	8.00	....
10	....	a8.83	5.42	a8.83	6.08	a9.42	a10.67	a10.00	9.17	8.50	8.00	....
11	5.75	a8.75	5.50	a8.92	a9.00	a9.33	a10.75	a9.83	9.00	8.42	....	....
12	5.83	5.83	5.50	a8.83	a9.08	a9.33	a10.75	a9.67	9.00	8.42	7.50	....
13	a8.50	5.67	5.50	a8.92	a9.00	a9.42	a10.83	a9.58	9.00	8.42	7.50	....
14	....	5.58	a8.75	a8.83	a9.00	a9.42	a10.92	a9.67	9.00	8.33	6.83	....
15	a8.50	a8.83	a8.75	a8.92	a9.08	a9.42	a10.92	a9.87	9.00	8.33	6.50	....
16	a8.50	a8.83	a8.75	5.75	6.17	a9.50	a10.92	a9.67	9.00	8.33	6.33	....
17	5.67	a8.75	a8.67	5.83	6.08	a9.58	a10.92	a9.67	9.00	8.33	6.25	....
18	5.58	5.67	a8.75	5.83	6.17	a9.58	a11.00	a9.75	9.00	8.33	6.25	....
19	5.83	5.67	a8.58	5.75	6.08	a9.67	a11.17	a9.67	9.00	8.33	6.25	....
20	a8.58	5.58	a8.67	a8.92	6.17	a9.67	a11.17	a9.50	9.00	8.33	6.25	....
21	a8.67	a8.92	5.67	a8.83	6.08	a9.75	a11.17	a9.50	9.00	8.33	6.25	....
22	a8.58	a8.83	5.87	a8.83	6.17	a9.75	a11.25	a9.58	8.92	8.33	6.25	....
23	a8.58	a8.75	5.75	a8.83	6.17	a9.75	a11.33	a9.58	8.92	8.33	6.17	....
24	5.83	a8.83	5.67	a8.83	6.17	a9.75	a11.33	a9.67	8.92	8.33	6.17	....
25	5.75	5.75	5.58	5.75	6.25	a9.75	a11.33	a9.58	8.92	8.33	6.17	....
26	a8.67	5.67	5.67	5.83	6.25	a9.75	a11.33	a9.58	8.92	8.33	6.17	....
27	a8.58	5.67	a8.75	5.83	a9.08	a9.75	a11.42	a9.50	8.83	8.33	6.17	....
28	5.83	5.67	a8.75	5.92	a9.17	a9.75	a11.42	a9.50	8.83	8.33	8.17	....
29	5.75		a8.67	5.83	a9.25	a9.83	a11.42	a9.50	8.83	8.33	6.17	....
30	5.67		a8.58	a8.83	a9.25	a9.83	a11.50	a9.50	8.83	8.33	8.17	....
31	5.67		a8.67		a9.25		a11.33	a9.50		8.33		....

a Pumping.

Warwick 39. U. S. Naval Advance Base Depot. Davisville. Lat. 41°38'19", long. 71°27'54". Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 61 feet. Land-surface datum is 35.9 feet above msl. Highest water level 9.8 below lsd, Mar. 21, 1948; lowest 39.8 below lsd, Sept. 10, 1944. Records available: 1943-55.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.70	11.20	10.80	10.20	11.00	11.70	18.30	18.00	18.00	a25.80	a23.30	11.40
2	11.40	11.20	10.80	11.00	10.90	13.40	18.20	a26.50	17.00	a25.50	a23.30	a12.40
3	11.40	11.40	10.90	10.90	11.00	14.65	18.20	a26.40	16.00	a25.30	a23.40	11.00
4	a13.70	11.40	10.90	10.80	11.00	12.20	12.20	....	14.80	a25.50	a23.50	11.00
5	a14.00	11.35	10.90	10.90	11.10	12.20	12.20	....	14.40	a25.50	12.00	11.00

Warwick 39--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	11.20	11.30	10.90	10.80	11.15	11.80	12.20	.....	14.15	a25.60	11.00	11.00
7	11.40	11.40	10.80	11.00	10.90	11.60	12.60	23.90	16.60	a25.70	11.00	11.00
8	11.95	10.70	10.90	11.40	10.80	11.60	16.70	21.10	17.60	a25.60	11.00	11.00
9	11.80	11.10	11.00	10.90	10.70	11.30	29.00	22.50	16.70	a25.00	11.00	11.20
10	11.80	11.10	10.90	10.70	10.90	11.30	13.70	13.40	a23.40	a25.20	11.00	11.70
11	12.00	11.40	11.00	10.50	10.90	12.45	12.50	15.80	a25.00	a25.30	11.00	a15.50
12	11.95	10.70	10.50	10.50	10.90	12.00	19.90	14.00	a25.00	a25.30	11.00	a21.10
13	11.70	10.70	10.50	10.20	10.90	11.75	21.50	12.00	a25.50	a25.20	11.20	a22.70
14	12.00	10.50	10.30	10.40	11.30	11.60	a23.20	12.00	a25.70	a25.00	a16.20	12.50
15	11.70	10.50	10.20	10.50	11.20	11.85	a24.10	12.00	a26.00	a24.00	a18.60	12.10
16	11.70	10.50	10.20	11.35	11.10	12.30	24.00	12.30	a26.30	a24.50	a21.10	11.90
17	11.70	10.70	10.40	11.20	11.45	16.00	14.00	12.40	a26.40	a23.20	11.90	11.30
18	11.70	10.70	10.40	11.00	11.40	13.70	a18.50	12.50	a26.30	a18.50	11.50	11.00
19	12.20	10.80	11.00	11.30	11.40	13.70	a24.50	11.20	a26.20	a13.20	11.00	11.00
20	12.20	10.70	11.00	11.30	11.55	12.20	a26.00	11.60	a26.30	a14.80	11.00	11.00
21	11.20	10.60	10.80	11.40	11.20	12.20	a25.00	11.40	a26.20	a20.50	11.00	.....
22	11.35	10.75	11.00	11.40	11.00	12.00	a26.60	11.30	a26.30	a14.50	11.00	11.20
23	11.25	10.70	10.95	11.40	11.20	12.20	.....	11.70	a26.50	a14.70	11.00	11.20
24	11.15	10.90	10.55	11.20	11.25	12.40	22.90	11.60	a26.50	a14.50	11.00	a22.50
25	11.45	10.80	a11.60	11.20	11.20	14.80	18.40	11.90	a26.00	a23.30	11.30	a23.80
26	11.10	10.50	10.50	11.40	11.40	12.35	19.70	11.80	a25.50	a23.30	11.40	14.40
27	11.35	10.20	10.50	11.40	11.20	12.15	18.50	12.00	a25.60	a23.50	11.30	12.80
28	11.35	10.50	10.20	11.20	12.15	16.15	23.30	12.00	a25.50	a23.50	a18.90	12.90
29	11.20		10.50	11.20	11.65	17.50	20.00	12.00	a25.60	a23.80	11.90	15.50
30	11.20		10.50	11.20	11.60	16.30	20.00	12.00	a25.40	a23.50	11.70	a22.50
31	11.20		10.40		11.65		18.30	17.00		a23.30		16.00

a Pumping.

Warwick 40. U. S. Naval Advance Base Depot. Davisville. Lat. 41°38'16", long. 71°27'54". Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 80 feet. Land-surface datum is 31.4 feet above msl. Highest water level 4.50 below lsd, Apr. 2, 1948; lowest 22.60 below lsd, Sept. 6, 1944. Records available: 1943-55.

Daily water level by tape measurement from pumping well

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.30	8.40	8.20	7.90	7.70	9.35	10.90	13.20	10.20	k8.90	8.20	8.20
2	8.30	8.20	8.40	7.80	7.80	9.80	10.70	14.20	10.50	k8.60	7.60	8.30
3	8.40	8.40	8.40	7.90	7.65	9.85	10.50	14.00	10.80	k8.60	k7.10	8.20
4	8.40	8.20	8.60	7.90	8.00	9.60	10.50	15.00	10.40	k8.70	k7.20	8.30
5	8.20	8.75	7.70	7.90	8.00	9.40	10.70	14.50	10.60	k8.80	8.00	8.00
6	8.20	8.60	7.45	7.85	8.00	9.20	10.50	14.60	10.40	k9.00	8.00	8.00
7	8.40	8.20	7.40	7.90	8.20	9.70	10.70	14.90	10.20	10.10	7.30	8.00
8	7.95	8.20	7.70	7.60	8.00	9.50	12.40	14.60	10.50	k9.00	7.40	8.20
9	8.00	8.40	7.85	7.60	8.20	9.20	10.20	14.60	11.10	k8.00	7.20	8.30
10	7.95	8.30	7.70	7.20	8.60	9.20	10.40	14.50	k9.00	k8.00	7.40	8.90
11	8.15	8.60	7.90	7.20	7.90	9.45	10.50	14.60	k9.00	k8.20	7.20	k7.10
12	8.20	8.24	7.90	7.50	7.80	9.35	10.90	14.30	k9.00	k8.50	k6.50	8.10
13	8.10	8.40	k6.20	7.50	7.80	9.10	11.30	14.30	k9.00	k8.50	k6.40	8.20
14	8.20	8.40	7.20	7.50	k6.90	9.30	11.60	14.50	k9.00	k8.50	k6.20	9.20
15	8.20	7.80	7.40	7.50	8.10	9.40	11.80	12.00	9.70	k9.60	7.60	8.60
16	8.20	7.80	7.40	8.10	8.20	9.60	11.70	12.00	9.70	k7.50	k6.30	9.30
17	8.40	7.80	7.70	7.90	8.90	9.20	11.50	12.50	9.80	k8.90	7.80	9.20
18	8.40	7.80	7.70	7.90	8.70	9.20	11.60	12.50	9.70	6.90	8.00	8.30
19	8.20	7.85	7.80	8.00	8.70	9.40	11.60	11.70	9.80	k6.60	8.00	8.00
20	6.40	7.80	7.65	8.20	9.00	9.20	12.50	9.80	k9.70	k6.70	8.20	8.20
21	8.20	7.90	7.70	8.20	8.50	9.40	12.70	10.00	k9.40	8.80	8.00	8.40
22	8.20	7.60	7.95	8.20	8.70	9.20	12.50	10.30	k9.60	k7.00	8.20	8.50
23	8.10	7.85	7.15	8.20	8.50	9.20	13.90	10.60	k9.80	k7.00	8.00	8.50
24	8.10	8.10	7.20	8.20	8.50	9.20	13.50	10.60	k9.60	k7.20	8.00	k9.20
25	8.20	8.10	k6.25	8.40	8.90	k8.50	13.10	10.60	k9.00	8.20	8.00	k7.60
26	8.25	8.20	7.20	8.20	8.70	9.90	13.10	10.00	k9.00	k7.00	8.00	9.10
27	8.30	8.20	7.20	8.40	8.60	9.80	13.30	10.00	k9.00	k7.20	7.90	9.30
28	8.25	8.40	7.30	8.60	9.40	10.10	13.70	10.20	10.20	8.20	k6.60	9.60
29	8.20		7.20	7.60	k7.50	10.10	13.40	10.00	10.00	k7.40	8.10	8.90
30	8.40		8.20	6.35	9.30	10.70	13.30	10.00	k9.00	k7.30	8.20	8.50
31	8.20		8.20		9.30		13.00	10.00		k7.00		8.50

k Not pumping.

Warwick 59. Our Lady of Providence Seminary. Warwick Neck and Aldrich Aves. Lat. 41°41'06", long. 71°22'39". Dug unused water-table well in till, diameter 30 inches, depth 27 feet. Land-surface datum is about 125 feet above msl. Highest water level 4.26 below lsd, Apr. 29, 1952; lowest 24.77 below lsd, Oct. 31, 1949. Records available: 1949-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	5.39	Apr. 27	4.84	July 26	10.48	Oct. 27	5.00
Feb. 23	4.57	May 25	5.80	Aug. 25	6.54	Nov. 25	4.64
Mar. 28	4.56	June 28	8.26	Sept. 27	9.04	Dec. 29	5.98

West Greenwich 57. Frank Altieri. Division St. Lat. 41°38'45", long. 71°35'27". Dug unused water-table well in sand, diameter 30 inches, depth 13 feet. Land-surface datum is about 270 feet above msl. Highest water level 1.62 below lsd, Feb. 25, 1954; lowest 8.71 below lsd, Nov. 1, 1952. Records available: 1952-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	5.08	Apr. 28	3.08	July 28	7.12	Oct. 28	3.67
Feb. 25	3.01	May 27	5.90	Sept. 1	4.76	Nov. 29	2.43
Mar. 29	2.44	June 29	5.04	29	4.77	Dec. 30	5.42

West Greenwich 90. Mrs. H. Clegg. Lat. 41°38'37", long. 71°41'25". Dug unused water-table well in till, diameter 30 inches, depth 31 feet. Land-surface datum is about 540 feet above msl. Highest water level 12.16 below lsd, May 25, 1953; lowest 22.73 below lsd, Sept. 29, 1955. Records available: 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	16.90	Apr. 28	17.91	July 28	22.05	Oct. 28	16.25
Feb. 25	16.96	May 27	18.58	Sept. 1	22.55	Nov. 29	15.18
Mar. 29	17.00	June 29	20.50	29	22.73	Dec. 30	17.89

West Greenwich 211. L. M. Harris. Lat. 41°36'17", long. 71°36'29". Dug unused water-table well in sand, diameter 24 inches, depth 16 feet. Land-surface datum is about 355 feet above msl. Highest water level 9.58 below lsd, Mar. 29, 1955; lowest 13.48 below lsd, Sept. 29, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 17, 1954	11.00	Oct. 29, 1954	11.52	Jan. 27, 1955	9.93	July 28, 1955	12.57
23	10.79	Nov. 5	11.49	Feb. 25	9.86	Sept. 1	12.77
30	10.82	12	11.34	Mar. 29	9.58	29	13.48
Oct. 7	11.03	19	11.46	Apr. 28	10.38	Oct. 28	11.30
15	11.20	26	11.28	May 27	10.84	Nov. 29	9.65
22	11.40	Dec. 28	9.84	June 29	11.74	Dec. 30	10.48

Newport County

Portsmouth 72. St. Mary's Church. East Main Rd. Lat. 41°32'47", long. 71°15'42". Dug unused water-table well in till, diameter 36 inches, depth 42 feet. Land-surface datum is about 235 feet above msl. Highest water level 6.96 below lsd, Feb. 20, 1948; lowest 29.94 below lsd, Nov. 22, 1949. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.85	Mar. 30	14.84	June 22	21.36	Sept. 14	18.23
12	13.90	Apr. 6	16.47	29	21.88	21	18.73
19	16.57	13	17.42	July 6	22.37	28	19.10
26	17.94	20	18.10	13	22.56	Oct. 5	18.97
Feb. 2	18.80	27	18.65	20	23.04	11	18.47
9	19.18	May 6	17.52	27	23.52	19	11.08
16	18.05	11	17.42	Aug. 3	23.98	26	13.46
23	15.91	18	18.12	10	24.37	Nov. 1	15.86
Mar. 2	16.03	25	18.89	17	23.98	8	12.35
10	12.74	June 1	19.55	24	21.90	25	15.15
17	14.66	8	20.20	31	19.78	Dec. 28	18.74
23	15.97	15	20.76	Sept. 7	18.46		

Tiverton 31. North Tiverton Water District. Lat. 41°39'11", long. 71°11'15". Driven unused water-table well in sand and gravel, diameter 8 inches, depth 21 feet. Land-surface datum is about 250 feet above msl. Highest water level flowing several times, 1948-49, 1951, 1954-55; lowest 12.37 below lsd, Aug. 26, 1950. Records available: 1947-55. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	3.13	Feb. 26	2.96	Apr. 11	2.80	May 21	2.22
22	2.70	Mar. 7	3.34	16	3.54	28	2.11
29	2.37	12	3.27	23	2.31	June 4	1.93
Feb. 5	2.22	19	3.02	30	2.56	11	1.84
12	2.90	26	(j)	May 7	2.26	18	1.70
19	2.97	Apr. 2	3.01	14	2.41	27	1.46

j Flowing.

Tiverton 47. North Tiverton Water District. Lat. 41°38'08", long. 71°11'08". Driven unused water-table well in sand and gravel, diameter 2½ inches, depth 27 feet. Land-surface datum is about 180 feet above msl. Highest water level flowing, 1948, 1954; lowest 18.88 below lsd, Oct. 18, 1948. Records available: 1947-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	-1.65	Apr. 11	-3.89	July 9	-3.30	Oct. 8	-3.33
22	1.34	16	-3.94	25	6.86	15	+4.49
29	2.42	23	-2.93	30	9.18	22	-4.14
Feb. 5	-.78	30	+5.54	Aug. 8	11.10	29	+1.77
12	+3.35	May 7	-4.91	13	-4.65	Nov. 8	+4.86
19	-.08	14	4.49	20	+1.21	12	-4.16
26	.32	21	4.74	27	-4.72	19	-2.21
Mar. 7	2.77	28	4.93	Sept. 2	2.43	26	+1.19
12	1.84	June 4	5.14	10	.14	Dec. 3	-1.10
19	3.09	11	5.38	17	4.11	10	3.11
26	2.00	18	3.41	24	4.69	17	.72
Apr. 2	3.99	27	5.17	Oct. 1	.76		

Tiverton 194. North Tiverton Water District. Osborn well field, well 27. Lat. 41°39'44", long. 71°10'36". Driven unused water-table well in sand and gravel, diameter 6 inches, depth 21 feet. Land-surface datum is about 175 feet above msl. Highest water level flowing, Nov. 12, 1955; lowest 7.28 below lsd, July 20, 1952. Records available: 1952-55. Nearby wells being pumped.

Jan. 15	-1.48	Apr. 11	-3.13	July 9	-3.90	Oct. 8	-2.48
22	2.02	16	3.39	25	5.22	15	1.52
29	2.28	23	1.76	30	5.77	22	.93
Feb. 5	2.27	30	2.83	Aug. 8	6.60	29	1.48
12	1.20	May 7	2.03	13	3.64	Nov. 8	-1.18
19	1.56	14	2.90	20	-2.08	12	(j)
26	1.86	21	2.36	27	+0.04	19	+4.69
Mar. 7	.49	28	3.62	Sept. 2	-3.09	26	-1.48
12	1.44	June 4	3.34	10	3.44	Dec. 3	.07
19	.99	11	4.20	17	2.17	10	1.67
26	1.88	18	6.13	24	3.36	17	1.75
Apr. 2	2.69	27	4.88	Oct. 1	2.36	31	2.37

j Flowing.

Providence County

Burrillville 21. Cyrille Bruynel. Lat. 41°57'26", long. 71°36'15". Dug unused water-table well in till, diameter 24 inches, depth 15 feet. Land-surface datum is about 400 feet above msl. Highest water level 3.62 below lsd, Mar. 28, 1953; lowest dry, Nov. 1, 28, 1952, Oct. 2, 30, 1953. Records available: 1947-55.

Jan. 26	7.30	Apr. 25	7.08	July 26	10.32	Oct. 26	4.80
Feb. 23	6.56	May 25	7.92	Aug. 25	4.03	Nov. 25	5.63
Mar. 28	5.42	June 27	8.61	Sept. 27	7.35	Dec. 28	8.12

Cranston 3. Narragansett Brewing Co. Lat. 41°47'59", long. 71°26'36". Drilled industrial water-table well in sand and gravel, diameter 24 inches, depth 56 feet. Land-surface datum is 65.29 feet above msl. Highest water level 24.5 below lsd, Aug. 26, 1938; lowest 36.3 below lsd, Jan. 28, 1951. Records available: 1938-55. Measurement made 30 minutes after pump shut off.

Jan. 2	29.3	Mar. 27	28.0	July 10	28.4	Oct. 9	32.0
9	28.8	Apr. 3	27.9	17	30.0	23	31.7
16	28.9	10	27.9	24	29.0	30	31.7
23	29.0	17	27.9	31	31.0	Nov. 6	31.7
30	28.9	24	27.9	Aug. 7	31.5	13	31.7
Feb. 6	28.7	May 1	27.8	21	31.6	20	31.7
13	28.4	8	27.7	28	31.5	27	31.7
27	28.2	15	27.9	Sept. 5	30.8	Dec. 4	29.5
Mar. 6	28.1	22	27.7	11	31.5	11	29.5
13	28.2	29	27.7	18	31.5	18	29.5
20	28.1	June 5	28.0	Oct. 2	32.0	27	29.5

Cranston 4. Narragansett Brewing Co. Lat. 41°47'51", long. 71°26'39". Drilled industrial water-table well in sand and gravel, diameter 24 inches, depth 69 feet. Land-surface datum is 65.57 feet above msl. Highest water level 22.3 below lsd, June 22, 1939; lowest 36.8 below lsd, Feb. 6, Aug. 7, 1955. Records available: 1939-55. Measurement made 30 minutes after pump shut off.

Cranston 4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	31.7	Mar. 27	30.2	July 17	36.7	Oct. 23	35.2
9	31.5	Apr. 3	30.1	24	36.3	30	33.4
16	30.4	10	30.2	31	36.7	Nov. 6	35.4
23	30.7	17	30.3	Aug. 7	36.8	13	33.7
30	30.6	24	30.9	21	36.4	20	35.1
Feb. 6	36.8	May 1	30.9	28	35.2	27	35.1
13	30.7	8	31.1	Sept. 5	35.2	Dec. 4	33.6
27	30.5	15	30.7	11	36.2	11	34.7
Mar. 6	30.4	22	31.1	18	35.4	18	32.4
13	30.3	June 5	33.1	Oct. 2	36.2	27	32.2
20	30.4	July 10	34.7	9	35.4		

Cranston 12. Narragansett Brewing Co. Lat. 41°47'59", long. 71°26'36". Drilled unused water-table well in sand and gravel, diameter 24 inches, depth 56 feet. Land-surface datum is 68.91 feet above msl. Highest water level 28.36 below lsd, May 11, 1953; lowest 34.14 below lsd, Aug. 12, 1955. Records available: 1938-55. Nearby wells being pumped.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.82	30.40	30.08	30.01	30.31	31.01	32.40	33.69	33.88	34.10	33.26	32.15
2	30.80	30.39	30.12	30.01	30.33	31.05	32.47	33.74	33.94	34.10	33.22	32.17
3	30.79	30.40	30.16	29.98	30.33	31.12	32.48	33.79	33.95	34.06	33.24	32.18
4	30.79	30.41	30.19	29.98	30.35	31.20	32.46	33.85	33.90	34.06	33.25	32.15
5	30.79	30.41	30.21	29.98	30.39	31.31	32.47	33.91	33.81	34.08	33.24	32.10
6	30.76	30.37	30.19	29.97	30.43	31.46	32.52	33.97	33.77	34.10	33.19	32.11
7	30.74	30.32	30.16	30.03	30.47	31.52	32.55	33.98	33.83	34.11	33.19	32.10
8	30.71	30.32	30.16	30.07	30.47	31.55	32.61	34.03	33.88	34.09	33.13	32.09
9	30.68	30.33	30.12	30.10	30.51	31.61	32.66	34.07	33.90	34.04	33.06	32.09
10	30.64	30.33	30.12	30.11	30.51	31.66	32.70	34.10	33.90	33.98	33.02	32.14
11	30.63	30.33	30.13	30.12	30.52	31.67	32.77	34.13	33.85	34.00	32.99	32.13
12	30.62	30.30	30.13	30.12	30.53	31.66	32.83	34.14	33.85	34.01	32.95	32.09
13	30.58	30.30	30.10	30.11	30.57	31.69	32.88	34.11	33.89	34.01	32.89	32.09
14	30.55	30.28	30.07	30.10	30.61	31.74	32.94	34.10	33.96	34.01	32.81	32.10
15	30.53	30.23	30.07	30.11	30.62	31.79	33.01	34.04	33.99	34.00	32.77	32.08
16	30.48	30.23	30.07	30.17	30.64	31.86	33.06	34.01	34.03	33.94	32.68	32.07
17	30.44	30.22	30.13	30.16	30.68	31.93	33.12	34.08	34.04	33.84	32.65	32.05
18	30.47	30.20	30.13	30.17	30.69	31.94	33.19	34.10	33.99	33.76	32.62	32.02
19	30.49	30.19	30.13	30.15	30.73	31.93	33.25	34.08	33.95	33.70	32.61	31.99
20	30.54	30.18	30.13	30.18	30.74	31.97	33.30	33.72	33.98	33.70	32.56	31.96
21	30.53	30.15	30.08	30.20	30.81	32.01	33.36	33.72	34.03	33.70	32.52	31.94
22	30.51	30.12	30.06	30.25	30.82	32.06	33.42	33.70	34.07	33.69	32.48	31.95
23	30.45	30.12	30.08	30.26	30.84	32.11	33.45	33.74	34.11	33.65	32.42	31.97
24	30.40	30.13	30.11	30.26	30.84	32.16	33.45	33.76	34.11	33.58	32.39	31.96
25	30.39	30.14	30.12	30.23	30.86	32.19	33.50	33.79	34.06	33.54	32.34	31.92
26	30.44	30.15	30.10	30.23	30.91	32.18	33.54	33.80	34.02	33.52	32.30	31.92
27	30.47	30.12	30.03	30.25	30.95	32.18	33.57	33.80	34.02	33.51	32.26	31.90
28	30.49	30.08	30.02	30.26	30.98	32.21	33.61	33.74	34.02	33.48	32.18	31.90
29	30.50		30.01	30.28	30.99	32.27	33.64	33.67	34.04	33.47	32.14	31.90
30	30.49		29.98	30.31	31.00	32.33	33.64	33.74	34.07	33.42	32.14	31.90
31	30.43		29.97		31.00		33.64	33.81		33.35		31.92

Cranston 38. Narragansett Brewing Co. Lat. 41°47'44", long. 71°26'43". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 30 feet. Land-surface datum is 52.43 feet above msl. Highest water level 15.1 below lsd, May 7, 1946; lowest 30.0 below lsd, Aug. 29, 1955. Records available: 1947-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	23.6	Mar. 28	19.3	July 11	25.5	Oct. 10	26.4
10	22.1	Apr. 4	19.9	18	28.5	24	25.6
17	22.4	11	20.0	25	26.0	31	27.2
24	21.0	18	20.0	Aug. 1	28.9	Nov. 7	25.4
31	21.0	25	21.7	8	26.6	14	24.4
Feb. 7	20.6	May 2	20.3	22	29.0	21	24.4
14	19.7	9	20.6	29	30.0	28	24.5
28	19.8	16	22.5	Sept. 6	29.7	Dec. 5	23.3
Mar. 7	19.2	25	23.9	12	29.2	12	23.2
14	20.7	31	22.1	19	29.3	19	23.3
21	19.3	June 5	22.5	Oct. 3	26.1	27	23.2

Cranston 41. Narragansett Brewing Co. Lat. 41°47'41", long. 71°26'45". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 33 feet. Land-surface datum is 56.53 feet above msl. Highest water level 17.54 below lsd, May 7, 1946; lowest 26.9 below lsd, Sept. 6, 19, 1955. Records available: 1946-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	22.7	Mar. 28	21.2	July 11	25.3	Oct. 10	26.3
10	22.3	Apr. 4	21.5	18	26.3	24	25.6
17	22.3	11	21.6	25	26.4	31	25.8
24	21.6	18	21.6	Aug. 1	26.8	Nov. 7	25.2
31	22.4	25	22.1	8	26.8	14	24.5
Feb. 7	21.9	May 2	21.8	22	26.8	21	24.6
14	22.1	9	22.3	29	26.8	28	24.2
28	21.3	16	22.7	Sept. 6	26.9	Dec. 5	24.1
Mar. 7	21.4	25	23.4	12	26.8	12	23.8
14	21.3	31	23.2	19	26.9	19	24.0
21	21.3	June 5	23.3	Oct. 3	26.3	27	24.1

Cranston 85. E. E. Searle. Hope Rd. Lat. 41°44'27", long. 71°32'30". Dug domestic water-table well in till, diameter 30 inches, depth 25 feet. Land-surface datum is about 300 feet above msl. Highest water level 8.18 below lsd, May 28, 1953; lowest dry, Nov. 29, Dec. 27, 1952, Oct. 1, 28, 1953. Records available: 1952-55.

Jan. 26	16.49	Apr. 28	18.75	July 26	22.73	Oct. 26	12.42
Feb. 25	16.44	May 25	18.42	Sept. 1	22.54	Nov. 25	12.13
Mar. 28	15.39	June 29	21.69	27	21.67	Dec. 28	19.06

Cranston 197. Narragansett Brewing Co. Lat. 41°47'44", long. 71°26'43". Drilled unused water-table well in sand and gravel, diameter 6 inches, depth 53 feet. Land-surface datum is about 54 feet above msl. Highest water level 22.08 below lsd, Dec. 27, 1955; lowest 26.64 below lsd, Aug. 13, 1955. Records available: 1955. Nearby wells being pumped.

Daily lowest water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	25.29	25.90	25.66	24.08	22.73
2	.....	25.62	26.10	25.60	24.29	22.91
3	.....	25.91	26.12	25.30	24.49	22.99
4	.....	26.16	.....	25.28	24.63	22.96
5	.....	26.35	.....	25.40	24.63	22.72
6	.....	26.46	.....	25.51	24.57	22.68
7	.....	26.46	25.26	25.53	24.27	22.68
8	23.96	26.24	25.58	25.55	24.08	22.70
9	24.19	26.22	25.79	25.50	24.10	22.75
10	24.25	26.36	25.80	25.27	24.18	22.79
11	.....	26.51	25.57	25.27	24.19	22.77
12	.....	26.62	25.05	25.30	24.06	22.53
13	24.78	26.64	25.34	25.19	23.73	.....
14	24.93	26.55	25.53	25.23	23.38	22.56
15	25.12	25.93	25.77	25.27	23.34	22.57
16	25.25	25.35	25.90	25.09	23.48	22.57
17	25.26	25.66	25.90	24.70	23.59	22.52
18	.....	26.01	25.59	24.73	23.66	22.45
19	25.35	26.21	25.09	24.68	23.67	22.25
20	25.57	26.21	25.35	25.04	23.65	22.19
21	25.74	26.05	25.55	25.13	23.32	22.33
22	25.91	25.27	25.71	25.14	23.15	22.47
23	25.94	25.45	25.88	25.00	23.21	22.57
24	25.90	25.65	25.88	24.60	23.21	22.57
25	25.64	25.82	25.74	24.56	22.94	22.50
26	25.63	25.94	25.43	24.68	22.77	22.30
27	25.75	25.95	.....	24.77	22.60	22.08
28	25.91	25.62	25.43	24.84	22.22	22.13
29	26.03	25.06	25.51	24.85	22.35	22.29
30	26.04	25.31	25.65	24.50	22.55	22.43
31	25.73	25.64	.....	23.93	.....	22.45

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

Cumberland 129. Thomas Cooney Estate. Lat. 41°58'20", long. 71°27'14". Dug unused water-table well in till, diameter 30 inches, depth 30 feet. Land-surface datum is about 330 feet above msl. Highest water level 5.35 below lsd, Mar. 28, 1953; lowest 17.99 below lsd, Aug. 31, 1949. Records available: 1946-55.

Cumberland 129--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	9.60	Apr. 25	9.14	July 26	12.62	Oct. 26	7.20
Feb. 23	7.66	May 25	10.17	Aug. 25	6.33	Nov. 25	7.45
Mar. 28	6.30	June 27	10.94	Sept. 27	7.26	Dec. 28	10.52

Cumberland 265. Clarence Lawton. Lat. 41°56'26", long. 71°25'45". Dug unused water-table well in sand and gravel, diameter 30 inches, depth 20 feet. Land-surface datum is about 130 feet above msl. Highest water level 10.67 below lsd, Feb. 26, 1948; lowest 17.20 below lsd, Sept. 29, 1949. Records available: 1946-55.

Jan. 26	12.97	Apr. 25	13.44	July 26	15.54	Oct. 26	11.17
Feb. 23	12.01	May 25	13.36	Aug. 25	11.72	Nov. 25	11.80
Mar. 28	11.26	June 27	14.80	Sept. 27	13.45	Dec. 28	13.51

Foster 1. Old Staples Farm. Lat. 41°48'53", long. 71°42'18". Dug unused water-table well in sand and gravel, diameter 20 inches, depth 15 feet. Land-surface datum is about 380 feet above msl. Highest water level 5.06 below lsd, May 28, 1951; lowest dry, Oct. 28, 1949, Oct. 2, 1953. Records available: 1947-55.

Jan. 28	8.55	Apr. 28	6.02	July 28	10.85	Oct. 28	6.81
Feb. 25	6.66	May 27	8.24	Sept. 1	7.35	Nov. 29	7.04
Mar. 30	6.12	June 29	8.10	29	6.60	Dec. 30	9.35

Foster 3. Clarence S. Cook. Lat. 41°47'42", long. 71°47'33". Dug unused water-table well in till, diameter 24 inches, depth 36 feet. Land-surface datum is about 610 feet above msl. Highest water level 13.19 below lsd, Apr. 25, 1953; lowest 34.32 below lsd, Oct. 30, 1953. Records available: 1947-55.

Jan. 28	16.35	Apr. 28	17.24	July 28	22.00	Oct. 28	13.52
Feb. 25	17.38	May 27	17.83	Sept. 1	16.49	Nov. 29	14.79
Mar. 30	15.55	June 29	19.99	29	17.88	Dec. 30	17.86

Foster 4. Cucumber Hill. Lat. 41°45'17", long. 71°46'01". Dug unused water-table well in till, diameter 24 inches, depth 17 feet. Land-surface datum is about 605 feet above msl. Highest water level 7.11 below lsd, Mar. 28, 1953; lowest 16.71 below lsd, Oct. 28, 1949. Records available: 1947-55.

Jan. 28	9.75	Apr. 28	8.94	July 28	10.49	Oct. 28	8.69
Feb. 25	9.49	May 27	9.22	Sept. 1	8.55	Nov. 29	8.79
Mar. 30	8.10	June 29	10.69	29	7.64	Dec. 30	10.07

Foster 5. S. J. Chatterson. Lat. 41°48'29", long. 71°43'45". Dug unused water-table well in sand and gravel, diameter 30 inches, depth 12 feet. Land-surface datum is about 465 feet above msl. Highest water level 7.39 below lsd, May 28, 1953; lowest 11.48 below lsd, July 29, 1949. Records available: 1947-55.

Jan. 28	9.63	Apr. 28	9.27	July 28	10.80	Oct. 28	8.02
Feb. 25	8.71	May 27	9.83	Sept. 1	8.29	Nov. 29	8.83
Mar. 30	8.41	June 29	10.02	29	8.94	Dec. 30	9.88

Foster 40. E. Bennett. Lat. 41°44'20", long. 71°42'23". Dug unused water-table well in till, diameter 30 inches, depth 15 feet. Land-surface datum is about 630 feet above msl. Highest water level 1.29 below lsd, May 27, 1954; lowest 9.65 below lsd, Oct. 2, 1953. Records available: 1953-55.

Jan. 28	5.40	Apr. 28	3.04	July 28	7.12	Oct. 28	3.76
Feb. 25	2.93	May 27	2.78	Sept. 1	3.97	Nov. 29	3.29
Mar. 30	3.06	June 29	6.08	29	3.65	Dec. 30	6.02

Lincoln 84. Lincoln Bleachery & Dye Works. Lonsdale. Lat. 41°54'38", long. 71°24'24". Driven unused water-table well in sand and gravel, diameter 3 inches, depth 107 feet. Land-surface datum is about 60 feet above msl. Highest water level 2.70 below lsd, Mar. 20, 1948, Apr. 17, 1953, Sept. 18, 1954; lowest 7.22 below lsd, Oct. 28, 1950. Records available: 1946-55. Nearby wells being pumped.

Jan. 7	4.10	Apr. 8	5.05	July 8	5.55	Oct. 7	5.10
14	5.19	15	5.35	15	5.99	14	5.50
21	5.55	22	5.50	22	6.04	21	3.09
29	6.04	29	3.39	29	6.14	28	4.68
Feb. 4	6.14	May 6	4.85	Aug. 5	6.49	Nov. 4	3.03
11	5.39	13	5.09	12	6.29	12	2.87
19	4.55	20	5.48	20	(j)	19	4.12
25	5.03	27	5.85	27	3.60	25	4.51
Mar. 4	4.72	June 3	5.75	Sept. 2	4.61	Dec. 2	5.23
11	4.44	10	5.96	10	5.49	9	5.27
18	4.46	17	5.68	16	5.79	16	5.74
25	3.59	24	5.54	23	5.84	24	6.06
Apr. 1	4.79	July 1	5.79	30	5.51	30	6.13

j Flood stage at 11.70 above lsd.

North Smithfield 21. James W. Shaw. Branch Village. Lat. 41°59'48", long. 71°32'53". Dug unused water-table well in sand and gravel, diameter 24 inches, depth 16 feet. Land-surface datum is about 250 feet above msl. Highest water level 5.07 below lsd, Aug. 25, 1955; lowest 11.31 below lsd, Oct. 28, 1949. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	7.70	Apr. 25	7.59	July 26	8.77	Oct. 26	6.21
Feb. 23	7.32	May 25	8.09	Aug. 25	5.07	Nov. 25	6.63
Mar. 28	6.34	June 27	8.48	Sept. 27	8.18	Dec. 28	8.19

Providence 5. American Silk Spinning Co. Lat. 41°50'21", long. 71°25'12". Drilled unused water-table well in bedrock, diameter 6 inches, depth 472 feet. Land-surface datum is 28.28 feet above msl. Highest water level 7.55 below lsd, Apr. 24, 1953; lowest 9.52 below lsd, Nov. 22, 1954. Records available: 1944-55.

Jan. 26	8.19	Apr. 25	7.94	July 26	8.90	Oct. 26	6.38
Feb. 23	8.06	May 25	8.22	Aug. 25	8.52	Nov. 25	8.04
Mar. 28	7.77	June 27	8.49	Sept. 27	8.85	Dec. 28	8.47

Providence 48. Gorham Manufacturing Co. Lat. 41°47'47", long. 71°25'56". Drilled unused water-table well in sand, diameter 8 inches, depth 121 feet. Land-surface datum is 45.79 feet above msl. Highest water level 5.08 below lsd, May 4, 1953; lowest 10.20 below lsd, Oct. 20, 1947. Records available: 1944-55. Nearby wells being pumped.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.01	6.08	6.53	6.80	7.13	6.92	....	6.57	6.30
2	6.34	6.10	6.00	6.11	6.57	6.82	7.17	6.94	....	6.52	6.30
3	6.15	6.00	6.17	6.60	6.79	7.20	6.97	....	6.51	6.34
4	6.14	6.01	6.18	6.57	6.80	7.21	6.98	....	6.48	6.33
5	6.23	....	6.12	6.00	6.24	6.56	6.86	7.21	6.95	....	6.32	6.37
6	6.10	5.99	6.24	6.65	6.85	7.25	6.98	....	6.18	6.41
7	6.04	6.02	6.24	6.65	6.80	7.21	7.03	....	6.09	6.42
8	6.03	6.05	6.22	6.62	6.80	7.25	....	....	6.02	6.43
9	6.01	6.06	6.27	6.66	6.83	7.23	....	....	5.99	6.43
10	6.04	6.05	6.26	6.65	6.81	7.22	....	....	5.95	6.47
11	6.02	6.10	6.27	6.62	6.89	7.26	....	....	5.90	6.45
12	6.20	....	6.01	6.11	6.29	6.58	6.92	7.22	....	7.30	5.85	6.49
13	6.01	6.10	6.32	6.52	6.92	7.10	....	7.32	5.81	6.51
14	6.07	6.09	6.31	6.51	6.93	7.04	7.15	....	5.77	6.52
15	6.06	6.08	6.29	6.95	6.96	7.03	7.16	....	5.74	6.52
16	6.16	6.04	6.09	6.31	6.86	6.97	7.10	7.22	7.15	5.71	6.54
17	6.07	6.07	6.33	9.02	6.96	7.13	7.20	6.96	5.72	6.57
18	6.06	6.04	6.35	6.64	7.01	7.12	7.14	6.85	5.69	6.55
19	6.25	....	6.03	6.05	6.35	6.57	7.06	7.03	7.15	6.84	5.67	6.59
20	6.01	6.05	6.42	6.59	7.06	6.70	7.16	6.83	5.60	6.62
21	5.98	6.07	6.39	6.66	7.07	6.63	7.21	6.82	5.65	6.60
22	6.00	6.14	6.37	6.53	7.11	6.66	7.22	6.83	5.65	6.62
23	6.06	6.00	6.15	6.43	....	7.08	6.66	7.28	6.79	5.73	6.66
24	6.02	6.13	6.44	....	7.06	6.68	7.25	6.79	5.79	6.62
25	6.03	6.09	6.44	....	7.04	6.73	7.19	6.83	5.88	6.61
26	6.30	....	6.02	6.09	6.47	....	7.05	6.75	....	6.82	5.96	6.61
27	5.96	6.05	6.48	....	7.06	6.78	....	6.87	6.00	6.66
28	6.00	6.08	6.47	....	7.07	6.76	7.16	6.86	6.08	6.66
29	5.98	6.07	6.46	6.76	7.10	6.83	....	6.80	6.17	6.66
30	5.99	6.07	6.49	6.78	7.07	6.86	....	6.73	6.24	6.68
31	5.99	....	6.51	....	7.05	6.89	....	6.65	....	6.67

Providence 81. Nicholson File Co. well 2. Lat. 41°49'40", long. 71°25'47". Drilled industrial water-table well in sand and gravel, diameter 10 inches, depth 145 feet. Land-surface datum is about 10 feet above msl. Highest water level 12.0 below lsd, Jan. 23, 1955; lowest 25.0 below lsd, Feb. 2, 1947, Aug. 28, Sept. 23, 25, 1949, June 6, 1951. Records available: 1941, 1944-55. Measurement made when pump shut off.

Providence 81--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	14.0	Mar. 27	15.0	June 26	23.0	Oct. 9	18.0
9	15.0	Apr. 3	14.0	July 3	16.0	16	18.0
16	15.0	10	14.0	10	22.0	25	18.0
23	12.0	25	14.0	17	23.0	30	18.0
30	15.0	May 1	15.0	24	24.0	Nov. 6	17.0
Feb. 6	15.0	8	16.0	Aug. 17	17.0	13	17.0
13	17.0	15	16.0	21	22.0	20	20.0
20	15.0	22	13.0	28	23.0	27	18.0
27	15.0	30	21.0	Sept. 11	23.0	Dec. 4	17.0
Mar. 6	15.0	June 5	19.0	16	23.0	12	19.0
13	18.0	12	19.0	25	23.0	18	19.0
20	16.0	19	19.0	Oct. 2	22.0	26	15.0

Providence 82. Nicholson File Co. well 1. Lat. 41°49'40", long. 71°25'47". Drilled industrial water-table well in sand and gravel, diameter 8 inches, depth 150 feet. Land-surface datum is 8 feet above msl. Highest water level 8.0 below lsd, May 16, 30, Sept. 12, 19, 27, 1954; lowest 22.8 below lsd, Aug. 4, 1946. Records available: 1946-55. Measurement made when pump shut off.

Jan. 2	9.0	Mar. 27	11.0	June 26	18.0	Oct. 9	13.0
9	10.0	Apr. 3	9.0	July 3	11.0.	16	13.0
16	11.0	10	9.0	10	17.0	25	13.0
23	15.0	25	9.0	17	18.0	30	13.0
30	10.0	May 1	10.0	24	18.0	Nov. 6	12.0
Feb. 6	10.0	6	11.0	Aug. 17	11.0	13	13.0
13	13.0	15	9.0	21	17.0	20	15.0
20	10.0	22	18.0	28	18.0	27	13.0
27	10.0	30	16.0	Sept. 11	18.0	Dec. 4	12.0
Mar. 6	11.0	June 5	14.0	18	18.0	12	14.0
13	13.0	12	14.0	25	18.0	18	14.0
20	11.0	19	14.0	Oct. 2	17.0	26	10.0

Providence 94. Providence Gas Co. Sassafraz Point Plant. Lat. 41°47'58", long. 71°23'33". Drilled unused water-table well in sand, diameter 16 inches, depth 120 feet. Land-surface datum is 12.32 feet above msl. Highest water level 2.60 above lsd, Aug. 31, 1954; lowest 28.34 below lsd, Sept. 1, 1945. Records available: 1944-55. Water level influenced by tides.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.74	11.27	10.54	10.51	10.53	10.75	10.70	10.90	10.43	11.05	10.70	11.58
2	10.73	11.22	10.98	10.64	10.59	10.75	10.81	10.87	10.56	11.21	10.69	11.25
3	10.57	11.66	11.05	10.49	10.68	10.81	10.83	10.92	10.61	11.21	10.56	11.17
4	10.77	11.70	10.92	10.66	10.58	10.67	10.85	11.00	10.74	11.23	10.40	10.98
5	10.50	11.51	10.90	10.66	10.66	10.64	10.82	10.93	10.67	11.11	10.11	10.68
6	10.82	11.40	11.07	10.54	10.48	10.70	10.89	10.95	10.79	11.14	9.80	10.77
7	11.12	11.41	11.11	10.48	10.47	10.68	10.77	10.93	10.54	10.76	9.86	10.70
8	11.20	11.33	11.27	10.89	10.37	10.49	10.67	11.11	10.63	10.74	10.15	10.84
9	11.05	11.25	11.16	10.78	10.49	10.36	10.57	11.15	10.66	10.88	10.30	10.86
10	10.89	11.11	11.02	10.76	10.56	10.46	10.67	10.90	10.61	10.81	10.27	11.17
11	10.88	11.04	10.64	10.72	10.48	10.61	10.80	10.73	10.61	10.81	10.17	11.36
12	10.85	11.31	10.92	10.97	10.52	10.45	10.87	10.62	10.72	10.76	10.49	11.35
13	10.47	11.29	10.65	10.56	10.52	10.36	10.87	10.48	10.98	10.75	10.44	11.20
14	10.77	.....	10.64	10.56	10.44	10.46	10.86	10.82	10.96	10.61	10.43	11.17
15	10.46	.....	10.55	10.37	10.50	10.44	10.75	11.01	10.88	10.14	10.34	11.03
16	10.54	10.55	10.25	10.53	10.55	10.71	10.70	11.03	11.02	9.98	10.97	11.15
17	11.03	10.57	.....	10.73	10.58	10.88	10.95	10.98	11.03	10.93	10.57	11.34
18	10.84	10.76	.....	10.82	10.61	11.08	11.09	10.86	11.04	9.85	10.83	11.23
19	10.72	10.80	.....	10.90	10.75	11.25	11.11	10.76	11.07	9.90	10.58	11.21
20	11.18	10.91	.....	10.88	10.85	11.11	11.07	10.36	10.51	10.07	10.33	11.46
21	10.81	10.96	.....	11.07	11.14	11.06	11.11	10.07	10.74	10.15	10.69	.....
22	10.72	10.97	.....	11.07	11.21	10.85	11.04	10.03	10.96	10.31	10.58	.....
23	10.81	11.00	10.90	10.92	11.11	10.85	10.92	10.03	10.85	10.15	10.21	.....
24	10.92	11.23	10.80	10.98	10.91	10.85	10.92	9.91	10.49	10.44	10.56	.....
25	10.95	11.12	10.90	10.74	10.76	10.77	10.77	9.87	10.65	10.39	10.66	.....
26	11.24	11.12	10.68	10.75	10.83	10.73	10.73	9.86	10.78	10.37	10.87	.....
27	11.52	11.01	10.96	10.62	10.83	10.72	10.73	9.80	10.82	10.53	10.87	.....
28	11.61	10.85	11.25	10.52	10.75	10.73	10.74	10.04	10.84	10.70	10.82	11.62
29	11.48	10.74	10.42	10.71	10.71	10.71	10.80	10.12	10.92	10.71	11.25	11.65
30	11.23	10.70	10.33	10.69	10.70	10.70	10.76	10.15	10.96	10.69	11.49	11.45
31	11.40	10.60	10.67	10.67	10.67	10.67	10.88	10.25	10.58	10.58	11.55	.....

Providence 113. Providence Young Men's Christian Association. 160 Broad St. Lat. 41°49'07", long. 71°24'55". Drilled unused water-table well in bedrock, diameter 12 inches, depth 208 feet. Land-surface datum is 79.89 feet above msl. Highest water level 44.30 below lsd, Jan. 13, 1955; lowest 49.12 below lsd, Nov. 9, 1945. Records available: 1944-55. Recording gage installed Jan. 3.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	44.45	44.43	44.48	44.47	44.62	44.87	45.02	45.07	45.07	44.83	44.58
2	.....	44.46	44.38	44.48	44.49	44.66	44.90	45.06	45.08	45.07	44.83	44.58
3	44.39	44.53	.....	44.48	44.49	44.67	44.91	45.09	45.08	45.06	44.82	44.48
4	44.37	44.59	.....	44.54	44.46	44.64	44.92	45.11	45.08	45.06	44.77	44.48
5	44.36	44.59	.....	44.53	44.41	44.63	44.86	45.11	45.03	45.04	44.68	44.38
6	44.32	44.53	.....	44.50	44.45	44.68	44.85	45.13	44.99	45.05	44.68	44.43
7	44.36	44.46	44.48	44.42	44.47	44.69	44.87	45.12	44.99	44.99	44.70	44.43
8	44.39	44.47	44.51	44.53	44.46	44.68	44.89	45.14	45.03	44.98	44.68	44.42
9	44.39	44.50	44.50	44.54	44.50	44.68	44.89	45.17	45.06	45.01	44.66	44.42
10	44.39	44.50	44.48	44.49	44.52	44.71	44.89	45.16	45.06	44.97	44.66	44.47
11	44.40	44.42	44.47	44.52	44.51	44.71	44.91	45.13	44.99	44.95	44.65	44.47
12	44.40	44.49	44.50	44.55	44.52	44.70	44.94	45.13	44.99	44.97	44.69	44.48
13	44.30	44.57	44.52	44.55	44.52	44.64	44.96	45.16	45.05	44.99	44.68	44.51
14	44.33	44.57	44.55	44.49	44.54	44.71	44.93	45.20	45.06	44.98	44.62	44.51
15	44.33	44.47	44.55	44.40	44.55	44.76	44.92	45.18	44.99	44.94	44.61	44.46
16	44.33	44.53	44.42	44.53	44.52	44.79	44.95	45.14	45.06	44.90	44.61	44.46
17	44.34	44.50	44.54	44.52	44.51	44.85	44.95	45.16	45.06	44.87	44.57	44.47
18	44.38	44.52	44.53	44.47	44.50	44.87	44.95	45.16	45.03	44.90	44.64	44.47
19	44.39	44.54	44.60	44.44	44.54	44.83	45.01	45.11	44.97	44.92	44.64	44.45
20	44.46	44.56	44.60	44.47	44.60	44.76	45.01	45.12	44.92	44.94	44.52	.....
21	44.46	44.55	44.56	44.43	44.65	44.79	44.98	45.12	45.02	44.94	44.53	44.47
22	44.44	44.51	44.52	44.39	44.66	44.79	44.97	45.12	45.03	44.97	44.57	44.46
23	44.44	44.52	44.47	44.41	44.60	44.83	44.97	45.09	45.05	44.98	44.57	44.50
24	44.45	44.54	44.48	44.47	44.53	44.84	44.95	45.14	45.04	44.87	44.55	44.48
25	44.41	44.56	44.52	44.39	44.53	44.83	44.99	45.15	45.01	44.85	44.54	44.45
26	44.43	44.56	44.52	44.38	44.65	44.83	45.01	45.12	45.05	44.84	44.48	44.51
27	44.44	44.52	44.38	44.43	44.70	44.86	45.01	45.06	45.05	44.87	44.48	44.58
28	44.44	44.44	44.47	44.42	44.70	44.88	45.04	45.09	44.98	44.87	44.43	44.59
29	44.95	.....	44.48	44.41	44.62	44.87	45.07	45.07	45.02	44.85	44.48	44.59
30	44.45	.....	44.51	44.45	44.59	44.88	45.10	45.06	45.02	44.84	44.53	44.44
31	44.49	.....	44.51	.....	44.60	.....	45.09	45.08	.....	44.78	.....	44.43

Providence 1051. U. S. Rubber Co. Lat. 41°49'40", long. 71°26'08". Drilled unused water-table well in sand and gravel, diameter 8 inches, depth 82 feet. Land-surface datum is about 10 feet above msl. Highest water level 3.90 above lsd, Aug. 31, 1954; lowest 16.10 below lsd, Jan. 16, 1948. Records available: 1948-55. Nearby wells being pumped.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.30	8.37	8.97	8.74	9.38	9.85	13.91	.....	12.02	.....	9.90	11.62
2	7.10	8.79	8.65	8.44	7.91	10.70	13.97	.....	12.33	.....	10.21	11.94
3	5.71	9.11	9.29	6.40	8.65	11.18	13.58	7.10	12.34	.....	10.46	11.97
4	6.84	9.23	9.72	4.55	9.35	11.26	11.45	7.18	11.91	.....	10.64	11.78
5	8.15	9.23	9.75	4.02	9.83	11.17	10.20	7.21	10.61	12.55	10.65	11.04
6	8.85	8.62	9.47	3.96	10.22	10.08	11.40	7.10	9.71	12.85	10.33	11.11
7	9.40	6.80	7.39	4.06	10.23	10.55	12.42	6.79	10.80	13.03	9.51	11.39
8	9.42	7.58	8.26	4.66	9.82	10.90	13.18	5.97	11.73	13.05	10.27	11.67
9	8.95	8.15	8.96	4.72	7.99	11.18	13.37	5.92	12.38	12.87	10.87	11.96
10	6.92	8.73	9.50	4.38	8.75	11.48	13.02	6.01	12.40	.....	11.35	11.98
11	7.99	9.36	9.95	4.58	9.40	11.53	11.28	6.10	.....	.....	11.40	11.91
12	8.75	9.41	9.97	6.31	9.90	11.27	13.32	6.56	.....	12.03	10.70	11.35
13	9.30	9.18	9.70	7.55	10.33	9.91	13.03	6.59	.....	12.08	10.22	11.36
14	9.66	8.25	8.08	8.35	10.38	9.50	13.67	6.17	12.89	12.42	9.93	11.52
15	9.69	8.74	8.91	9.11	9.82	9.57	14.08	5.66	13.20	12.46	10.46	11.69
16	9.23	9.20	9.50	9.29	8.12	9.95	14.17	6.55	13.48	12.39	11.14	11.88
17	7.16	9.60	9.94	9.25	8.98	11.05	13.80	8.54	13.50	11.37	11.57	11.93
18	8.16	9.89	10.15	7.75	9.70	11.34	12.08	9.92	13.33	10.55	11.89	11.82
19	9.01	9.89	10.15	8.42	10.31	11.34	12.11	10.50	12.56	10.48	11.92	10.99
20	9.63	9.44	9.67	9.06	10.87	10.58	12.34	10.53	12.90	10.74	12.89	10.71
21	10.04	7.42	7.46	9.56	10.92	10.90	12.46	10.40	13.20	10.97	11.26	11.06
22	10.04	8.06	8.09	9.89	10.66	6.47	12.62	9.78	13.38	10.99	11.43	11.32
23	9.56	8.66	8.57	9.89	9.66	9.42	12.55	10.39	13.50	10.82	11.59	11.51
24	7.52	9.06	9.07	9.51	10.29	11.31	12.01	10.75	13.50	11.01	11.60	11.53
25	8.43	9.37	9.40	7.63	10.86	11.87	11.10	11.24	13.39	10.16	10.59	11.26

Providence 1051--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	9.05	9.37	9.40	8.30	11.41	11.87	11.08	11.71	.....	10.50	10.66	10.47
27	9.49	9.10	8.93	8.90	11.80	11.47	11.34	11.76	.....	10.79	10.66	8.05
28	9.75	7.22	6.90	9.35	11.81	12.33	11.47	11.34	12.87	10.98	10.30	9.06
29	9.75		7.68	9.70	11.60	13.03	11.47	10.71	.....	10.99	10.81	9.90
30	9.28		8.27	9.72	.....	13.55	11.39	11.05	.....	10.74	11.22	10.48
31	8.03		8.71		.....		9.60	11.57		9.84		10.66

Providence 1111. Brown University. Rhode Island Hall. Lat. 41°49'31", long. 71°24'46". Dug unused water-table well in till, diameter 30 inches, depth 24 feet. Land-surface datum is about 120 feet above msl. Highest water level 9.18 below lsd, Jan. 28, 1952; lowest 18.40 below lsd, Nov. 2-3, 1949. Records available: 1946-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.35	Apr. 4	11.61	July 5	14.39	Oct. 3	13.75
10	9.99	11	12.53	11	14.32	10	13.93
17	11.32	18	13.14	18	14.52	17	13.18
24	12.30	25	13.52	25	14.82	24	10.76
31	12.95	May 2	13.76	Aug. 1	15.13	31	11.15
Feb. 7	12.80	9	13.58	8	15.38	Nov. 7	9.29
14	10.43	16	13.68	15	15.60	14	9.41
21	10.09	23	13.92	22	11.90	21	9.75
28	11.32	30	14.19	29	11.07	28	10.85
Mar. 7	11.42	June 8	14.55	Sept. 6	11.74	Dec. 5	11.91
14	10.81	13	14.75	12	12.27	12	12.60
23	11.75	20	14.87	19	12.88	19	13.06
27	10.60	27	14.79	26	13.38	27	13.45

Smithfield 66. E. Sheffield. Lat. 41°54'23", long. 71°34'39". Dug unused water-table well in sand and gravel, diameter 21 inches, depth 17 feet. Land-surface datum is about 415 feet above msl. Highest water level 1.96 below lsd, Mar. 28, 1953; lowest 15.52 below lsd, Oct. 2, 1953. Records available: 1947-55.

Jan. 26	9.53	Apr. 25	9.59	July 26	12.55	Oct. 26	5.29
Feb. 23	7.68	May 25	9.86	Aug. 25	5.87	Nov. 25	7.05
Mar. 28	5.93	June 27	10.92	Sept. 27	10.35	Dec. 28	10.32

Smithfield 213. Northwestern Water Co. Greenville. Lat. 41°51'47", long. 71°33'07". Drilled unused water-table well in sand and gravel, diameter 6 inches, depth 28 feet. Land-surface datum is about 285 feet above msl. Highest water level 10.67 below lsd, Apr. 19, 1953; lowest 16.48 below lsd, Nov. 29, 1949. Records available: 1945, 1949-55. Recording gate removed May 10. Nearby wells being pumped.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.28	12.00	11.66	11.54	11.49	.....	.....	.....	.....	.....	.....	.....
2	11.29	12.00	11.66	11.57	11.47	.....	.....	.....	.....	.....	.....	.....
3	11.29	11.99	11.66	11.58	11.49	.....	.....	.....	.....	.....	.....	.....
4	11.31	12.01	11.66	11.60	11.52	.....	.....	.....	.....	.....	.....	.....
5	11.32	12.03	11.66	11.60	11.54	.....	.....	.....	.....	.....	.....	.....
6	11.34	12.04	11.66	11.60	11.54	.....	.....	.....	.....	.....	.....	.....
7	11.36	11.98	11.65	11.61	11.59	.....	.....	.....	.....	.....	.....	.....
8	11.40	11.89	11.60	11.62	11.60	.....	.....	.....	.....	.....	.....	.....
9	11.43	11.87	11.59	11.64	11.61	.....	.....	.....	.....	.....	.....	.....
10	11.48	11.86	11.59	11.66	11.61	.....	.....	.....	.....	.....	.....	.....
11	11.53	11.87	11.59	11.69	.....	.....	.....	.....	.....	.....	.....	.....
12	11.54	11.67	11.58	11.71	.....	.....	.....	.....	.....	.....	.....	.....
13	11.56	11.60	11.58	11.71	.....	.....	.....	.....	.....	.....	.....	.....
14	11.60	11.55	11.60	11.72	.....	.....	.....	.....	.....	.....	.....	.....
15	11.63	11.53	11.60	11.73	.....	.....	.....	.....	.....	.....	.....	.....
16	11.67	11.53	11.60	11.74	.....	.....	.....	.....	.....	.....	.....	.....
17	11.70	11.53	11.60	11.75	.....	.....	.....	.....	.....	.....	.....	.....
18	11.72	11.50	11.60	11.83	.....	.....	.....	.....	.....	.....	.....	.....
19	11.72	11.49	11.62	11.84	.....	.....	.....	.....	.....	.....	.....	.....
20	11.74	11.51	11.65	11.85	.....	.....	.....	.....	.....	.....	.....	.....
21	11.75	11.54	11.65	11.85	.....	.....	.....	.....	.....	.....	.....	.....
22	11.75	11.57	11.65	11.85	.....	.....	.....	.....	.....	.....	.....	.....
23	11.76	11.57	11.55	11.85	.....	.....	.....	.....	.....	.....	.....	.....
24	11.85	11.58	11.51	11.85	.....	.....	.....	.....	.....	.....	.....	.....
25	11.88	11.61	11.45	11.85	.....	.....	.....	11.42	.....	.....	11.51	.....

Smithfield 213--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	11.89	11.63	11.44	11.80	.....	.....	12.58	.....	.....	11.18	.....	.....
27	11.90	11.63	11.43	11.67	.....	11.94	.....	.....	12.08	.....	.....	.....
28	11.92	11.66	11.44	11.67	.....	.....	.....	.....	.....	.....	.....	12.11
29	11.94		11.47	11.51	.....	.....	.....	.....	.....	.....	.....	.....
30	11.96		11.49	11.52	.....	.....	.....	.....	.....	.....	.....	.....
31	11.99		11.50		.....	.....	.....	.....	.....	.....	.....	.....

Smithfield 217. Northwestern Water Co. Greenville. Lat. 41°51'47", long. 71°33'07". Drilled unused water-table well in sand and gravel, diameter 6 inches, depth 57 feet. Land-surface datum is about 300 feet above msl. Highest water level 17.19 below lsd, Mar. 28, 1952; lowest 24.29 below lsd, Nov. 29, 1949. Records available: 1945, 1949-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	18.59	Apr. 25	18.68	July 26	19.38	Oct. 26	18.03
Feb. 23	18.44	May 25	18.82	Aug. 25	18.21	Nov. 25	18.43
Mar. 28	18.26	June 27	18.70	Sept. 27	18.92	Dec. 28	18.94

Washington County

Charlestown 18. U. S. Naval Auxiliary Air Station. Lat. 41°22'21", long. 71°39'43". Drilled unused water-table well in sand and clay, diameter 8 inches, depth 32 feet. Land-surface datum is 26.4 feet above msl. Highest water level 12.79 below lsd, Apr. 25, 1953; lowest 21.43 below lsd, Oct. 28, Nov. 30, 1949. Records available: 1946-55.

Jan. 27	16.33	Apr. 27	16.85	July 27	19.27	Oct. 27	16.12
Feb. 24	17.18	May 26	17.03	Aug. 26	17.40	Nov. 28	15.37
Mar. 29	16.19	June 28	18.44	Sept. 29	18.30	Dec. 29	17.20

Exeter 6. Wood River Picnic Area. Lat. 41°34'23", long. 71°43'19". Dug unused water-table well in sand and gravel, diameter 30 inches, depth 10 feet. Land-surface datum is about 130 feet above msl. Highest water level 3.83 below lsd, Nov. 6, 1955; lowest 7.49 below lsd, Sept. 6, 1949. Records available: 1946, 1948-55. Recording gage installed July 6. Water level probably influenced by nearby Wood River.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.92	6.07	6.10	4.40	4.90
2	6.94	....	6.10	4.46	4.94
3	6.95	....	6.12	4.53	4.96
4	6.96	....	6.15	4.54	4.96
5	6.98	....	6.19	3.90	4.85
6	6.55	6.99	....	6.21	3.83	4.86
7	6.55	7.00	....	6.05	3.95	4.97
8	6.44	6.69	....	5.55	4.09	5.02
9	6.47	6.24	....	5.59	4.21	5.11
10	6.50	6.35	....	5.66	4.28	5.18
11	6.53	6.43	....	5.75	4.20	5.24
12	6.56	6.50	....	5.83	4.20	5.27
13	6.60	6.54	....	5.89	4.27	5.35
14	6.63	6.48	....	5.91	4.26	5.39
15	6.65	5.43	....	5.63	4.19	5.40
16	6.68	5.32	....	....	4.17	5.45
17	6.70	....	....	....	4.21	5.50
18	6.71	....	....	....	4.33	5.54
19	6.73	....	....	....	4.36	5.59
20	6.75	....	....	....	4.40	5.65
21	6.77	....	....	....	4.44	5.70
22	6.79	....	....	....	4.52	5.74
23	6.81	....	....	....	4.53	5.76
24	6.82	....	....	....	4.57	5.78
25	5.15	....	....	....	....	6.82	....	....	....	4.61	5.82
26	6.12	....	6.83	....	....	....	4.67	5.84
27	5.59	....	....	....	....	....	6.84	....	....	4.78	4.71	5.87
28	5.34	....	....	6.79	....	....	4.82	4.71	5.91
29	4.92	....	....	6.33	6.82	....	6.07	4.86	4.75	5.93
30	6.86	....	6.10	4.88	4.83	5.95
31	6.89	....	....	4.78	....	5.97

Exeter 16. State of Rhode Island. Exeter School. Lat. $41^{\circ}33'07''$, long. $71^{\circ}32'37''$. Driven unused water-table well in sand and gravel, diameter $2\frac{1}{2}$ inches, depth 27 feet. Land-surface datum is about 100 feet above msl. Highest water level 7.38 below lsd, Apr. 15, 1953; lowest 14.88 below lsd, Dec. 29, 1948. Records available: 1946-55. Nearby wells being pumped.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	8.32	Apr. 20	9.44	July 27	11.87	Oct. 26	9.39
12	8.32	27	9.55	Aug. 3	12.09	Nov. 2	9.23
19	8.30	May 5	9.67	10	12.38	3	9.25
28	8.80	11	9.80	17	11.40	9	8.74
Feb. 2	9.00	18	9.99	24	10.81	16	8.19
9	9.28	25	10.17	31	10.90	17	8.39
16	9.12	June 1	10.66	Sept. 7	11.24	23	8.44
23	9.21	8	10.77	14	11.43	30	8.48
Mar. 2	9.38	15	10.75	21	11.99	Dec. 1	8.57
9	9.30	22	11.10	28	11.17	7	8.68
16	9.20	29	10.97	Oct. 5	11.29	14	8.91
23	9.03	July 6	11.25	11	11.08	15	8.93
30	9.08	13	11.46	18	9.67	21	8.90
Apr. 6	9.10	20	11.67	19	9.68	28	9.38
13	9.08						

Exeter 158. State of Rhode Island. Lat. $41^{\circ}35'05''$, long. $71^{\circ}45'28''$. Dug unused water-table well in till, diameter 36 inches, depth 18 feet. Land-surface datum is about 310 feet above msl. Highest water level 4.90 below lsd, Nov. 30, 1953; lowest 16.05 below lsd, Sept. 14, 1953. Records available: 1953-55.

Jan. 27	8.10	Apr. 28	8.30	July 28	15.08	Oct. 27	5.93
Feb. 25	6.78	May 26	9.99	Aug. 26	8.11	Nov. 28	6.43
Mar. 29	6.18	June 29	13.38	Sept. 29	9.63	Dec. 30	9.41

Exeter 267. A. Brown. Lat. $41^{\circ}30'23''$, long. $71^{\circ}31'56''$. Dug unused water-table well in sand and gravel, diameter 36 inches, depth 7 feet. Land-surface datum is about 105 feet above msl. Highest water level 3.35 below lsd, Oct. 18, 1955; lowest 5.07 below lsd, July 27, 1955. Records available: 1954-55.

Aug. 6, 1954	4.83	Oct. 22, 1954	4.45	Mar. 29, 1955	4.01	Oct. 27, 1955	4.07
27	4.95	29	4.39	Apr. 27	4.09	Nov. 3	4.05
Sept. 3	4.34	Nov. 5	3.84	May 26	4.69	17	3.63
10	4.57	12	4.24	June 28	4.68	28	3.92
17	3.56	19	4.30	July 27	5.07	Dec. 1	4.02
23	3.85	26	3.91	Aug. 26	4.57	15	4.22
30	4.10	Dec. 28	3.85	Sept. 28	4.25	28	4.53
Oct. 7	4.25	Jan. 27, 1955	4.28	Oct. 18	3.35	29	4.56
15	4.37	Feb. 24	4.04				

Exeter 307. G. Thomas. Lat. $41^{\circ}34'32''$, long. $71^{\circ}31'31''$. Dug domestic water-table well in sand and gravel, diameter 36 inches, depth 35 feet. Land-surface datum is about 215 feet above msl. Highest water level 20.57 below lsd, Nov. 28, 1955; lowest 31.12 below lsd, Sept. 28, 1955. Records available: 1954-55.

Aug. 19, 1954	29.00	Oct. 7, 1954	25.26	Nov. 26, 1954	25.93	June 28, 1955	27.92
27	29.63	15	25.61	Dec. 28	21.65	July 26	30.23
Sept. 3	29.75	22	26.07	Jan. 27, 1955	22.13	Aug. 26	30.16
10	29.92	29	26.73	Feb. 24	23.81	Sept. 28	31.12
17	26.88	Nov. 5	26.52	Mar. 29	22.17	Oct. 27	25.77
23	25.54	12	26.31	Apr. 27	24.09	Nov. 28	20.57
30	25.11	19	26.50	May 26	25.28	Dec. 29	23.72

Exeter 310. E. Bell. Lat. $41^{\circ}33'51''$, long. $71^{\circ}33'56''$. Dug domestic water-table well in sand and gravel, diameter 40 inches, depth 10 feet. Land-surface datum is about 155 feet above msl. Highest water level 6.15 below lsd, Sept. 17, 1954; lowest 9.17 below lsd, Sept. 28, 1955. Records available: 1954-55.

Aug. 20, 1954	8.28	Oct. 22, 1954	7.78	Mar. 29, 1955	6.73	Oct. 27, 1955	6.58
27	8.39	29	7.81	Apr. 27	6.92	Nov. 3	7.76
Sept. 3	7.62	Nov. 5	7.38	May 26	7.64	17	7.22
10	7.99	12	7.74	June 28	8.17	28	7.61
17	6.15	19	7.79	July 27	8.79	Dec. 1	7.74
23	6.64	26	7.25	Aug. 26	8.16	15	8.15
30	7.09	Dec. 28	6.62	Sept. 28	9.17	28	8.57
Oct. 7	7.40	Jan. 27, 1955	7.25	Oct. 18	7.04	29	8.61
15	7.61	Feb. 24	7.01				

Exeter 347. State of Rhode Island. Exeter School. Lat. $41^{\circ}33'38''$, long. $71^{\circ}32'41''$. Dug unused water-table well in sand and gravel, diameter 36 inches, depth 37 feet. Land-surface datum is about 175 feet above msl. Highest water level 26.87 below lsd, Nov. 23, 1955; lowest 33.14 below lsd, Aug. 13, 1955. Records available: 1955. Recording gage installed Jan. 20.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	28.22	28.42	27.47	28.96	29.83	31.08	32.62	31.90	32.50	28.92	27.30
2	.....	28.32	28.50	27.51	28.97	29.87	31.13	32.66	31.90	32.50	28.94	27.30
3	.....	28.42	28.53	27.52	28.95	29.90	.....	32.71	31.91	32.50	28.95	27.39
4	.....	28.51	28.51	27.60	28.95	29.94	.....	32.75	31.92	32.50	28.94	27.41
5	.....	28.55	28.50	27.61	28.96	30.00	.....	32.80	31.93	32.49	28.94	27.49
6	.....	28.59	28.45	27.59	28.97	30.05	31.30	32.85	31.95	32.49	28.86	27.57
7	.....	28.69	28.44	27.68	28.99	30.07	31.35	32.90	31.97	32.49	28.60	27.59
8	.....	28.72	28.41	27.78	29.00	30.13	31.40	32.95	31.99	32.48	28.26	27.67
9	.....	28.77	28.32	27.79	29.04	30.19	31.45	33.01	32.01	32.47	27.99	27.71
10	.....	28.78	28.23	27.83	29.04	30.26	31.50	33.05	32.02	32.44	27.79	27.82
11	.....	28.80	28.14	27.91	29.09	30.30	31.55	33.10	32.04	32.39	27.57	27.86
12	.....	28.87	28.12	27.94	29.09	30.32	31.60	33.13	32.07	32.38	27.50	27.93
13	.....	28.80	28.04	27.96	29.11	30.36	31.65	33.14	32.09	32.34	27.42	28.00
14	.....	28.67	28.02	27.99	29.15	30.39	31.68	33.13	32.11	32.31	27.31	28.03
15	.....	28.50	27.97	28.07	29.17	30.42	31.71	33.08	32.15	32.27	27.27	28.06
16	.....	28.50	27.95	28.17	29.19	30.46	31.76	33.04	32.20	32.24	27.20	28.17
17	.....	28.45	27.98	28.20	29.22	30.51	31.84	33.02	32.24	32.15	27.12	28.23
18	26.91	28.41	27.94	28.25	29.25	30.55	31.91	.....	32.28	31.75	27.09	28.29
19	.....	28.38	27.99	28.33	29.30	30.58	31.96	.....	32.31	31.02	27.02	28.37
20	27.19	28.35	27.99	28.39	29.34	30.63	32.07	.....	32.36	30.28	26.94	28.43
21	27.23	28.33	27.99	28.43	29.37	30.67	32.05	.....	32.40	29.65	26.90	28.49
22	27.34	28.28	27.95	28.51	29.41	30.71	32.10	.....	32.43	29.25	26.90	28.55
23	27.44	28.31	27.97	28.58	29.45	30.76	32.15	.....	32.46	29.04	26.87	28.65
24	27.52	28.32	27.96	28.64	29.49	30.80	32.21	32.29	32.49	28.86	26.94	28.67
25	27.59	28.34	27.85	28.69	29.50	30.84	32.26	32.22	32.52	28.81	26.94	28.79
26	27.69	28.35	27.75	28.76	.....	30.88	32.33	32.11	32.52	28.76	26.97	28.86
27	27.80	28.35	27.61	28.83	29.61	30.93	32.38	32.04	32.50	28.79	27.00	28.94
28	27.87	28.40	27.60	28.85	29.68	30.95	32.43	31.99	32.49	28.79	27.05	28.99
29	27.96	.....	27.57	28.91	29.70	30.99	32.48	31.95	32.50	28.81	27.15	29.01
30	28.04	.....	27.51	28.93	29.73	31.03	32.53	31.92	32.49	28.82	27.23	29.09
31	28.13	.....	27.49	.....	29.77	.....	32.57	31.90	.....	28.87	.....	29.16

Hopkinton 67. Boy Scouts of America. Lat. $41^{\circ}31'26''$, long. $71^{\circ}45'55''$. Dug unused water-table well in till, diameter 30 inches, depth 22 feet. Land-surface datum is about 335 feet above msl. Highest water level 11.08 below lsd, Dec. 28, 1954; lowest 21.09 below lsd, Aug. 2, 1954. Records available: 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	13.88	Apr. 28	14.40	July 28	18.67	Oct. 27	11.60
Feb. 24	12.50	May 26	15.31	Aug. 26	13.39	Nov. 28	11.40
Mar. 29	11.42	June 28	16.94	Sept. 29	16.47	Dec. 30	15.06

Hopkinton 119. Alice Clark. Lat. $41^{\circ}30'51''$, long. $71^{\circ}42'34''$. Dug unused water-table well in outwash, diameter 30 inches, depth 18 feet. Land-surface datum is about 100 feet above msl. Highest water level 11.42 below lsd, Dec. 28, 1954; lowest 15.27 below lsd, July 28, 1955. Records available: 1953-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	12.12	Apr. 28	12.59	July 28	15.27	Oct. 27	11.72
Feb. 24	11.94	May 26	13.32	Aug. 26	13.26	Nov. 28	11.43
Mar. 29	11.48	June 28	14.28	Sept. 29	14.19	Dec. 30	13.08

North Kingstown 26. North Kingstown Water Commission pumping station. Lat. $41^{\circ}33'25''$, long. $71^{\circ}29'01''$. Drilled public-supply water-table well in sand and gravel, diameter 12 inches, depth 50 feet. Land-surface datum is about 56 feet above msl. Highest water level 9.40 below lsd, June 1, 1948; lowest 16.50 below lsd, Aug. 7, 1955. Records available: 1947-55. Measurement made about 10 hours after pump shut off.

Tape measurements

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.17	12.00	11.58	11.67	11.58	12.67	13.50	13.92	12.50	11.83	11.75	11.75
2	11.25	12.00	11.58	11.75	11.58	13.08	13.92	15.17	12.67	12.00	11.92	11.75
3	11.17	12.00	11.75	12.00	11.75	12.17	13.83	15.92	12.33	12.08	11.92	11.75
4	11.33	12.00	11.75	11.67	11.75	12.50	14.42	15.17	12.67	12.58	11.75	10.92
5	11.42	12.00	11.67	11.75	11.92	12.75	14.50	15.15	12.83	11.83	11.17	11.67

North Kingstown 26--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	11.50	12.08	11.58	11.75	.....	12.67	14.92	16.42	12.83	12.08	10.67	11.75
7	11.33	11.75	11.50	11.75	.....	13.50	13.58	16.50	12.83	11.92	11.00	11.83
8	11.58	11.75	11.50	11.83	.....	12.50	12.92	14.75	13.00	12.00	11.17	12.00
9	11.50	11.92	11.50	11.75	10.42	12.33	13.42	13.67	12.67	12.00	11.33	11.75
10	11.42	11.83	a17.50	11.75	11.33	12.25	14.00	13.42	12.75	11.92	11.58	12.00
11	11.58	11.83	11.58	11.83	11.75	12.50	13.25	13.08	12.92	12.25	11.42	11.83
12	11.67	11.33	11.75	12.08	.....	12.42	13.83	13.42	12.67	12.25	11.25	11.83
13	11.75	11.33	11.83	12.00	.....	11.92	13.67	12.08	12.83	12.33	11.25	12.00
14	11.67	11.33	11.67	11.92	.....	12.25	13.67	12.00	12.83	12.25	11.42	12.08
15	11.58	11.50	11.75	11.92	.....	12.25	14.08	12.58	12.75	11.92	11.33	11.92
16	11.67	11.50	11.83	12.00	.....	12.75	14.08	12.67	12.83	11.50	11.42	12.17
17	11.67	11.67	11.75	12.08	.....	13.17	13.75	13.08	13.00	10.67	11.33	12.08
18	11.75	11.33	11.67	11.92	10.33	13.17	15.08	13.00	12.83	10.83	11.42	12.00
19	11.75	11.42	11.67	12.17	11.75	13.75	14.25	12.50	13.00	11.08	11.50	12.00
20	11.83	11.67	11.75	12.00	12.00	13.42	14.00	11.75	13.00	11.17	11.50	12.00
21	11.83	11.58	11.83	12.00	12.08	12.67	14.25	12.17	12.50	11.42	11.42	12.17
22	11.83	11.58	11.83	12.00	12.33	13.08	15.42	12.33	12.58	11.58	11.58	12.08
23	12.00	11.50	11.42	11.83	a17.50	13.17	15.75	12.75	12.67	11.67	11.58	12.25
24	11.92	11.58	11.58	12.08	12.00	13.50	16.33	12.25	12.42	11.75	11.67	12.67
25	11.92	11.75	11.50	11.83	12.92	12.83	14.50	12.25	11.58	11.75	11.50	12.50
26	11.83	11.75	11.58	11.58	13.17	12.83	13.50	12.42	11.58	11.67	11.67	12.17
27	12.00	11.67	11.50	11.50	12.42	12.25	13.58	12.67	11.83	11.92	11.67	12.17
28	11.92	11.50	11.42	11.50	12.67	12.33	14.08	12.50	11.83	11.75	11.67	12.17
29	11.92		11.58	11.58	12.83	12.50	13.17	12.42	11.83	11.75	11.67	12.67
30	12.00		11.58	11.25	12.67	13.33	13.17	12.75	11.83	11.92	11.67	12.17
31	11.92		11.58	12.83			13.58	12.58		11.83		12.08

a Pumping.

North Kingstown 159. H. G. Carpenter. Wickford. Lat. 41°33'54", long. 71°26'39".

Dug unused water-table well in sand and gravel, diameter 24 inches, depth 11 feet. Land-surface datum is about 10 feet above msl. Highest water level 5.10 below lsd, Dec. 28, 1954; lowest 7.41 below lsd, July 27, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 22, 1954	7.10	Oct. 4, 1954	6.18	Jan. 27, 1955	5.37	July 27, 1955	7.41
Aug. 24	7.19	11	6.28	Feb. 24	5.45	Aug. 26	7.01
31	7.04	18	6.32	Mar. 29	5.14	Sept. 28	7.08
Sept. 8	6.50	25	6.44	Apr. 27	5.44	Oct. 26	6.33
14	5.54	Nov. 1	6.24	May 26	6.02	Nov. 28	5.27
20	5.96	23	6.00	June 28	6.64	Dec. 29	6.03
27	6.07	Dec. 28	5.10				

North Kingstown 255. Lawrence Smith. Allenton. Lat. 41°31'48", long. 71°28'16".

Dug unused water-table well in sand and gravel, diameter 24 inches, depth 14 feet. Land-surface datum is about 50 feet above msl. Highest water level 5.72 below lsd, Sept. 14, 1954; lowest 9.32 below lsd, July 27, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 11, 1954	6.40	Oct. 4, 1954	7.43	Jan. 27, 1955	7.11	July 27, 1955	9.32
24	8.24	11	7.79	Feb. 24	6.78	Aug. 26	8.25
31	8.12	18	8.08	Mar. 29	6.19	Sept. 28	8.83
Sept. 8	8.34	25	8.32	Apr. 27	7.17	Oct. 27	7.84
14	5.72	Nov. 1	8.12	May 26	7.64	Nov. 28	6.96
20	6.52	23	7.49	June 28	8.49	Dec. 29	8.07
27	7.01	Dec. 28	6.44				

North Kingstown 268. Nelson Porter. Allenton. Lat. 41°32'29", long. 71°28'58".

Dug unused water-table well in sand and gravel, diameter 24 inches, depth 26 feet. Land-surface datum is about 85 feet above msl. Highest water level 19.35 below lsd, Nov. 28, 1955; lowest 21.34 below lsd, July 27, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 12, 1954	21.00	Oct. 4, 1954	20.02	Jan. 27, 1955	19.78	July 27, 1955	21.34
24	20.96	11	20.29	Feb. 24	19.80	Aug. 26	20.96
31	21.02	18	20.53	Mar. 29	19.54	Sept. 28	21.17
Sept. 8	20.96	25	20.72	Apr. 27	20.10	Oct. 27	20.14
14	20.45	Nov. 1	20.77	May 26	20.46	Nov. 28	19.35
20	19.90	23	20.72	June 28	20.94	Dec. 29	20.26
27	19.79	Dec. 28	19.69				

North Kingstown 317. H. A. Reynolds. Hamilton. Lat. 41°32'44", long. 71°26'38".

Dug unused water-table well in sand and gravel, diameter 24 inches, depth 8 feet. Land-surface datum is about 20 feet above msl. Highest water level 3.58 below lsd, Dec. 28, 1954; lowest 6.51 below lsd, July 27, 1955. Records available: 1954-55.

North Kingstown 317--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 19, 1954	6.30	Oct. 18, 1954	4.93	Feb. 24, 1955	3.89	Aug. 26, 1955	5.12
24	5.66	25	5.18	Mar. 29	3.69	Sept. 28	4.80
Sept. 20	3.97	Nov. 1	4.84	Apr. 27	4.19	Oct. 27	4.14
27	4.26	23	4.46	May 26	5.14	Nov. 28	3.70
Oct. 4	4.46	Dec. 28	3.58	June 28	5.65	Dec. 29	4.69
11	4.80	Jan. 27, 1955	4.34	July 27	6.51		

North Kingstown 410. North Kingstown High School. Wickford. Lat. 41°34'02", long. 71°27'38". Drilled unused water-table well in bedrock, diameter 8 inches, depth 425 feet. Land-surface datum is about 40 feet above msl. Highest water level 24.22 below lsd, Dec. 28, 1954; lowest 27.18 below lsd, July 27, 1955. Records available: 1954-55.

Sept. 17, 1954	25.10	Oct. 25, 1954	25.67	Mar. 29, 1955	24.49	Aug. 26, 1955	26.39
20	24.99	Nov. 1	25.66	Apr. 27	25.08	Sept. 28	27.17
27	24.83	23	25.33	May 26	25.55	Oct. 27	24.67
Oct. 4	24.96	Dec. 28	24.22	June 28	26.45	Nov. 28	24.50
11	25.15	Jan. 27, 1955	24.66	July 27	27.18	Dec. 29	25.13
18	25.42	Feb. 24	24.98				

North Kingstown 521. State of Rhode Island. Lafayette. Lat. 41°34'19", long. 71°29'48". Dug unused water-table well in sand and gravel, diameter 24 inches, depth 26 feet. Land-surface datum is about 110 feet above msl. Highest water level 22.14 below lsd, Dec. 28, 1954; lowest 23.27 below lsd, July 26, 1955. Records available: 1954-55.

Oct. 4, 1954	22.50	Jan. 27, 1955	22.63	May 26, 1955	22.80	Sept. 28, 1955	23.05
Nov. 8	22.52	Feb. 24	22.38	June 28	22.98	Oct. 27	22.30
23	22.74	Mar. 28	22.41	July 26	23.27	Nov. 28	22.33
Dec. 28	22.14	Apr. 27	22.77	Aug. 26	22.43	Dec. 29	22.81

North Kingstown 622. Town of North Kingstown. Davisville. Lat. 41°36'55", long. 71°28'20". Dug unused water-table well in sand and gravel, diameter 24 inches, depth 24 feet. Land-surface datum is about 60 feet above msl. Highest water level 19.02 below lsd, Mar. 29, 1955; lowest 21.91 below lsd, Sept. 28, 1955. Records available: 1954-55.

Oct. 19, 1954	20.50	Jan. 27, 1955	19.29	May 26, 1955	20.03	Sept. 28, 1955	21.91
Nov. 8	20.75	Feb. 24	19.54	June 28	20.94	Oct. 27	20.46
23	20.76	Mar. 29	19.02	July 26	21.60	Nov. 28	19.31
Dec. 28	19.13	Apr. 27	19.70	Aug. 26	21.58	Dec. 29	20.25

North Kingstown 675. B. H. Brow. Lat. 41°31'55", long. 71°30'39". Dug domestic water-table well in sand and gravel, diameter 36 inches, depth 29 feet. Land-surface datum is about 145 feet above msl. Highest water level 23.85 below lsd, Jan. 27, 1955; lowest 26.26 below lsd, Sept. 28, 1955. Records available: 1954-55.

Aug. 11, 1954	25.57	Oct. 22, 1954	24.94	Mar. 29, 1955	24.14	Oct. 27, 1955	24.97
27	25.50	29	25.05	Apr. 27	24.35	Nov. 3	24.75
Sept. 3	25.52	Nov. 5	25.19	May 26	24.79	17	24.27
10	25.59	12	25.24	June 28	25.40	28	23.96
17	24.81	19	25.31	July 27	25.90	Dec. 1	23.95
23	24.60	27	25.41	Aug. 26	26.02	15	23.96
30	24.58	Dec. 28	24.31	Sept. 28	26.26	28	24.25
Oct. 7	24.71	Jan. 27, 1955	23.85	Oct. 18	26.02	29	24.26
15	24.81	Feb. 24	24.15				

Richmond 157. Walter Beck. Lat. 41°33'17", long. 71°40'04". Dug unused water-table well in till, diameter 30 inches, depth 38 feet. Land-surface datum is about 480 feet above msl. Highest water level 7.85 below lsd, Nov. 29, 1955; lowest 24.15 below lsd, Oct. 29, 1953. Records available: 1953-55.

Jan. 27	10.37	Apr. 28	10.84	July 28	20.07	Oct. 27	9.42
Feb. 25	9.00	May 27	12.40	Sept. 1	14.96	Nov. 29	7.85
Mar. 29	8.26	June 29	16.08	29	18.74	Dec. 30	11.58

South Kingstown 6. Rhode Island University. Lat. 41°28'50", long. 71°32'11". Drilled unused water-table well in sand and gravel, diameter 10 inches, depth 34 feet. Land-surface datum is about 110 feet above msl. Highest water level 9.32 below lsd, Nov. 6, 1955; lowest 12.95 below lsd, Aug. 11-12, 1955. Records available: 1955. Recording gage installed Feb. 7.

South Kingstown 6--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.47	10.05	10.83	11.72	12.33	12.81	12.10	12.13	10.57	9.86
2	10.46	10.08	10.85	11.75	12.35	12.83	12.12	12.13	10.60	9.88
3	10.41	10.10	10.86	11.77	12.37	12.84	12.14	12.11	10.61	9.93
4	10.39	10.14	10.87	11.80	12.39	12.86	12.16	12.10	10.62	9.94
5	10.33	10.16	10.91	11.83	12.41	12.88	12.19	12.11	10.46	9.97
6	10.24	10.15	10.94	11.86	12.43	12.89	12.21	12.11	9.32	10.01
7	10.45	10.15	10.19	10.97	11.88	12.42	12.90	12.24	12.11	9.42	10.03
8	10.33	9.89	10.25	10.99	11.90	12.40	12.91	12.27	12.08	9.51	10.07
9	10.41	9.89	10.27	11.04	11.92	12.42	12.92	12.28	12.02	9.57	10.09
10	10.49	9.93	10.31	11.05	11.95	12.43	12.93	12.30	11.97	9.61	10.16
11	10.51	9.97	10.36	11.07	11.97	12.45	12.95	12.32	11.94	9.62	10.20
12	10.18	9.99	10.41	11.10	11.99	12.48	12.95	12.34	11.95	9.46	10.25
13	9.81	10.04	10.44	11.13	12.00	12.49	12.54	12.37	11.96	9.49	10.30
14	10.01	10.07	10.46	11.16	12.02	12.51	12.27	12.38	11.98	9.50	10.33
15	10.15	10.07	10.50	11.20	12.04	12.53	12.22	12.40	11.98	9.37	10.35
16	10.26	10.08	10.56	11.22	12.06	12.55	12.26	12.42	11.94	9.45	10.42
17	10.28	10.13	10.59	11.26	12.09	12.57	12.30	12.45	10.64	9.46	10.46
18	10.03	10.13	10.62	11.28	12.11	12.59	12.33	12.47	10.08	9.53	10.50
19	10.01	10.17	10.65	11.33	12.12	12.61	12.33	12.48	10.16	9.57	10.54
20	10.14	10.20	10.68	11.36	12.14	12.64	12.06	12.48	10.23	9.61	10.59
21	10.23	10.20	10.71	11.40	12.16	12.65	11.83	12.43	10.28	9.62	10.63
22	10.21	10.74	11.43	12.18	12.67	11.82	12.42	10.34	.....	10.66
23	10.06	10.78	11.45	12.20	12.70	11.86	12.44	10.35	9.60	10.72
24	10.38	9.90	10.82	11.50	12.22	12.72	11.89	12.44	10.36	9.65	10.74
25	10.41	9.90	10.85	11.52	12.24	12.74	11.92	12.42	10.40	9.66	10.80
26	10.43	9.90	10.86	11.56	12.25	12.76	11.94	12.30	10.42	9.68	10.86
27	10.44	9.93	10.86	11.59	12.27	12.79	11.97	12.22	10.46	9.70	10.91
28	10.47	9.98	10.87	11.61	12.28	12.79	12.00	12.18	10.48	9.71	10.95
29	9.99	10.87	11.63	12.29	12.78	12.03	12.17	10.52	9.74	10.97
30	10.02	10.64	11.67	12.31	12.78	12.06	12.15	10.55	9.81	11.01
31	10.02	.....	11.69	.....	12.79	12.09	.....	10.56	.....	11.05

South Kingstown 10. Village of Kingston. South and Kingston Rds. Lat. 41°28'48", long. 71°28'24". Dug unused water-table well in till, diameter 36 inches, depth 18 feet. Land-surface datum is about 240 feet above msl. Highest water level 2.86 below lsd, Nov. 17, 1955; lowest 14.45 below lsd, Dec. 1, 1949. Records available: 1947-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	4.54	June 28	7.69	Oct. 20	3.68	Nov. 28	3.51
Feb. 24	3.25	July 27	9.47	.....	4.22	Dec. 1	3.85
Mar. 29	3.34	Aug. 26	5.65	Nov. 3	4.11	15	4.10
Apr. 27	3.92	Sept. 28	6.81	17	2.86	30	5.37
May 26	5.93	.....	.....	.....	.....	.....	.....

South Kingstown 83. Wakefield Water Co. Lat. 41°26'04", long. 71°32'11". Drilled unused water-table well in sand and gravel, diameter 8 inches, depth 26 feet. Land-surface datum is 92.77 feet above msl. Highest water level 0.57 above lsd, Nov. 18, 1955; lowest 14.75 below lsd, Aug. 28, 1949. Records available: 1944, 1948-55. Nearby wells being pumped.

Jan. 1, 1948.			Records available 1944, 1945-'50.			Nearby wells being pumped.		
1	-8.41	Jan. 12	-8.69	Jan. 23	-8.63	Feb. 3	-8.93	
2	.80	13	.97	24	8.83	4	8.95	
3	.73	14	8.30	25	8.77	5	8.92	
4	.75	15	8.63	26	8.90	6	8.88	
5	8.57	16	8.36	27	1.29	7	.91	
6	8.45	17	8.85	28	9.45	Oct. 21	1.51	
7	8.52	18	8.75	29	8.92	Nov. 4	-1.10	
8	8.67	19	8.77	30	8.75	18	+ .57	
9	8.73	20	8.76	31	8.87	Dec. 2	+ .03	
10	8.51	21	.69	Feb. 1	8.65	16	-6.90	
11	8.37	22	8.79	2	8.85	29	- .53	

South Kingstown 212. A. Guastini. Lat. 41°23'19", long. 71°36'32". Driven unused water-table well in sand, diameter 1½ inches, depth 15 feet. Land-surface datum is about 35 feet above msl. Highest water level 8.36 below lsd, Mar. 29, 1955; lowest 10.80 below lsd, July 27, 1955. Records available: 1954-55.

South Kingstown 212--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 29, 1954	10.54	Nov. 5, 1954	9.94	Feb. 24, 1955	8.80	Aug. 26, 1955	9.73
Sept. 30	8.94	12	9.87	Mar. 29	8.36	Sept. 29	10.73
Oct. 7	9.33	19	10.06	Apr. 27	9.10	Oct. 27	9.08
15	9.68	27	9.76	May 26	9.51	Nov. 28	8.59
22	9.95	Dec. 28	8.45	June 28	10.24	Dec. 29	9.48
29	10.20	Jan. 27, 1955	8.79	July 27	10.80		

South Kingstown 257. Weedon Farms, Inc. Lat. 41°22'51", long. 71°33'05". Dug unused water-table well in sand and gravel, diameter 36 inches, depth 23 feet. Land-surface datum is about 25 feet above msl. Highest water level 16.66 below lsd, Dec. 28, 1954; lowest 22.13 below lsd, July 27, 1955. Records available: 1954-55.

Aug. 11, 1954	21.82	Nov. 5, 1954	20.78	Feb. 24, 1955	19.97	Aug. 26, 1955	19.79
Sept. 30	17.65	12	20.64	Mar. 29	18.60	Sept. 29	21.06
Oct. 7	18.85	19	20.57	Apr. 27	19.95	Oct. 27	18.91
15	19.77	27	20.44	May 26	20.61	Nov. 28	18.06
22	20.21	Dec. 28	16.66	June 28	21.58	Dec. 29	20.85
29	20.64	Jan. 27, 1955	19.29	July 27	22.13		

South Kingstown 303. N. E. Hargraves. Lat. 41°30'17", long. 71°34'44". Dug domestic water-table well in sand and gravel, diameter 30 inches, depth 9 feet. Land-surface datum is about 115 feet above msl. Highest water level 5.30 below lsd, Oct. 20, 1955; lowest 7.24 below lsd, July 16, 1954. Records available: 1954-55.

July 16, 1954	7.24	Oct. 22, 1954	6.10	Mar. 29, 1955	5.52	Oct. 27, 1955	5.61
Aug. 27	6.71	29	6.17	Apr. 27	5.80	Nov. 3	5.67
Sept. 3	6.26	Nov. 5	5.64	May 26	6.15	17	5.36
10	6.29	12	5.79	June 28	6.37	28	5.57
17	5.34	19	5.90	July 27	7.11	Dec. 2	5.69
23	5.57	26	5.59	Aug. 26	5.93	15	5.85
30	5.77	Dec. 28	5.47	Sept. 28	6.29	28	6.10
Oct. 7	6.04	Jan. 27, 1955	5.85	Oct. 20	5.30	29	6.10
15	6.04	Feb. 24	5.54				

South Kingstown 481. A. E. Lownes. Lat. 41°25'44", long. 71°33'37". Dug unused water-table well in sand and gravel, diameter 36 inches, depth 14 feet. Land-surface datum is about 105 feet above msl. Highest water level 10.83 below lsd, Oct. 5, 1954; lowest 13.93 below lsd, July 27, 1955. Records available: 1954-55.

Oct. 5, 1954	10.83	Apr. 27, 1955	12.37	Sept. 28, 1955	13.36	Nov. 28, 1955	12.02
Dec. 28	11.87	May 26	12.97	Oct. 21	12.12	Dec. 2	12.14
Jan. 27, 1955	12.27	June 28	13.44	27	12.20	16	12.45
Feb. 24	12.35	July 27	13.93	Nov. 4	12.19	29	12.76
Mar. 29	12.08	Aug. 26	12.93	18	11.82		

South Kingstown 515. R. R. Holley. Lat. 41°29'23", long. 71°36'16". Dug unused water-table well in sand and gravel, diameter 36 inches, depth 30 feet. Land-surface datum is about 125 feet above msl. Highest water level 25.04 below lsd, Nov. 16, 1955; lowest 28.74 below lsd, Aug. 11, 1955. Records available: 1955. Recording gage installed May 10.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.15	27.77	28.53	28.77	27.60	25.65	.....
2	27.17	27.80	28.56	28.80	27.60	25.66	25.50
3	27.19	27.83	28.58	28.83	27.59	25.64	.....
4	27.21	27.85	28.60	28.87	27.59	25.62	.....
5	27.24	27.88	28.62	28.92	27.62	25.61	25.64
6	27.27	27.91	28.64	28.96	27.64	25.60	25.69
7	27.30	27.94	28.67	27.02	27.65	25.56	25.71
8	27.32	27.96	28.70	27.07	27.64	25.49	25.75
9	27.35	27.97	28.71	27.12	27.63	25.41	25.78
10	26.71	27.38	27.99	28.73	27.15	27.59	25.34	25.85
11	26.72	27.40	28.02	28.74	27.19	27.55	25.25	25.89
12	26.73	27.42	28.05	28.73	27.23	27.52	25.20	25.95
13	26.75	27.44	28.07	28.70	27.28	27.51	25.16	26.01
14	26.77	27.44	28.09	28.59	27.31	27.51	25.10	26.05
15	26.78	27.44	28.12	28.43	27.35	27.52	25.06	26.10
16	26.80	27.46	28.15	28.27	27.40	27.51	25.04	26.16
17	26.82	27.48	28.18	28.25	27.44	27.44	25.00	26.21
18	26.85	27.49	28.21	28.11	27.48	27.43	.....	26.26
19	26.87	27.51	28.24	28.02	27.51	27.43	.....	26.32
20	26.90	27.53	28.27	27.93	27.57	26.86	.....	26.36

South Kingstown 515--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	26.93	27.55	28.30	27.81	27.60	26.66	.....	26.32
22	26.95	27.57	28.33	27.67	27.63	26.49	.....	26.35
23	26.97	27.59	28.36	27.50	27.66	26.22	25.12	.....
24	26.99	27.62	28.40	27.30	27.69	26.03	.....	.....
25	27.01	27.64	28.44	27.24	27.71	25.87	.....	.....
26	27.05	27.67	28.46	27.11	27.71	25.75	.....	.....
27	26.71	27.07	27.69	28.49	27.00	27.69	25.68	.....	.....
28	27.08	27.71	28.51	26.91	27.64	25.64	.....	26.77
29	25.89	.....	27.09	27.73	28.52	26.85	27.62	25.61	.....	26.80
30	27.11	27.75	28.52	26.79	27.60	25.63	25.41	26.84
31	27.13	.....	28.52	26.75	.....	25.66	.....	.....

South Kingstown 605. H. Shackleton. Lat. $41^{\circ}28'58''$, long. $71^{\circ}33'33''$. Dug unused water-table well in sand and gravel, diameter 36 inches, depth 14 feet. Land-surface datum is about 115 feet above msl. Highest water level 10.15 below lsd, Nov. 17, 1955; lowest 13.00 below lsd, July 27, 1955. Records available: 1954-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 30, 1954	11.45	Apr. 27, 1955	11.43	Sept. 28, 1955	12.50	Nov. 28, 1955	10.33
Dec. 28	10.23	May 26	11.82	Oct. 20	10.88	Dec. 1	10.48
Jan. 27, 1955	10.69	June 28	12.44	27	10.77	15	10.82
Feb. 24	10.98	July 27	13.00	Nov. 3	10.97	29	11.35
Mar. 29	10.60	Aug. 26	12.16	17	10.15		

VERMONT

By Henry G. Healy

Scope of Water-Level Program

The observation-well program in Vermont, begun in 1942, was continued in 1955. Weekly water-level measurements were made in 1 well; its location is shown on figure 47.

Precipitation

U. S. Weather Bureau records show that average precipitation for Vermont in 1955 was 38.44 inches, 0.11 inch below normal and 8.61 inches below the 1954 average. August was the wettest month with 7.89 inches, and January was the driest month with 0.99 inch. The total precipitation at the Middlesex station was 34.37 inches, 9.72 inches below the 1954 total.

Interpretation of Water-Level Fluctuations

The water level in Middlesex 1, which was above average at the end of 1954, declined 1 foot in January because of deficient precipitation and below-freezing temperatures. In February, March, and early April, the water level rose in response to above-normal precipitation and rising temperatures, reaching a record high on April 12. The usual seasonal decline which accompanies the growing season began at the end of April and continued through September, except for a short reversal due to above-normal rainfall in late August. The rise in October and in the early part of November reflected above-normal precipitation and a decrease in evapotranspiration. Although the water level declined in December because of below-normal precipitation, it was above average but lower than at the end of 1954.

Well-Numbering System

The Vermont observation well is designated by the name of the town in which the well is located.

Well Description and Water-Level Measurements

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

Washington County

Middlesex 1. Lynford Royce. Lat. 44°18'08", long. 72°35'12". Dug unused water-table well in sandy glacial till, diameter 24 inches, depth 12 feet. Land-surface datum is about 760 feet above msl. Highest water level 4.28 below lsd, Apr. 12, 1955; lowest dry many times, 1944, 1947, 1948-49, 1952-53. Records available: 1942-55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	6.05	Mar. 21	5.49	May 30	7.08	Aug. 22	8.95
9	6.35	28	5.32	June 5	6.88	Sept. 5	8.60
17	6.58	Apr. 5	4.64	14	7.35	13	9.35
24	6.99	12	4.28	21	7.85	19	9.40
Feb. 7	7.05	17	5.09	July 10	7.90	Oct. 10	9.34
14	6.65	25	4.32	18	8.44	Nov. 1	7.86
21	6.77	May 2	5.76	25	9.28	6	6.80
27	5.90	10	6.38	Aug. 1	9.98	15	6.30
Mar. 7	5.61	16	6.85	8	10.52	Dec. 26	7.73
14	5.08	22	7.40	18	9.78		

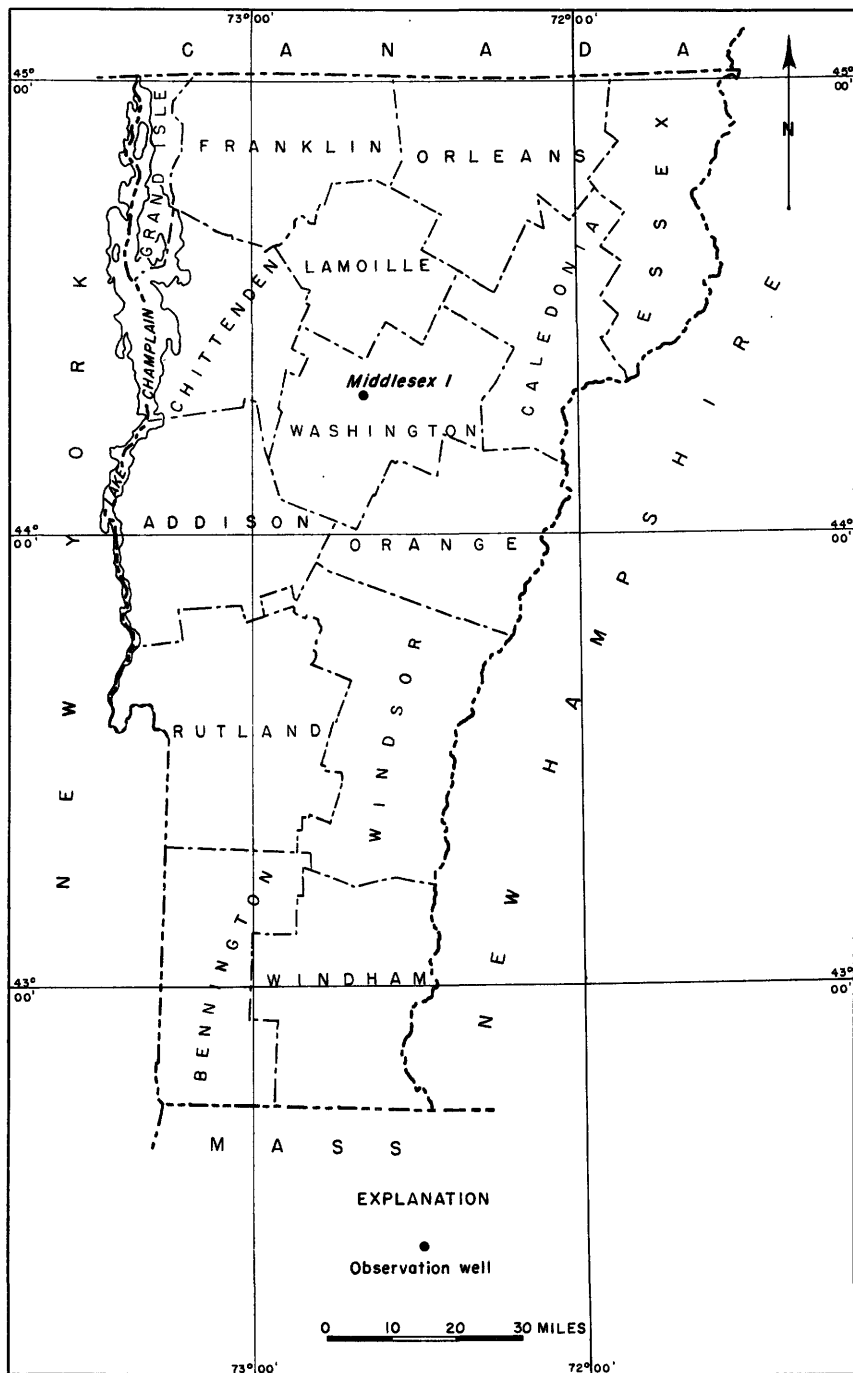


Figure 47. --Location of observation well in Vermont, 1955.