

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

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 other agencies*



UNITED STATES DEPARTMENT OF THE INTERIOR

Douglas McKay, *Secretary*

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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 other agencies, by personnel of the Water Resources Division under the direction of:

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

Part 1. NORTHEASTERN

Introduction

By A. N. Sayre

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records for each year were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; 1939, 886. Since 1940 records have been published in six volumes, covering the northeastern, southeastern, north-central, south-central, northwestern, and southwestern sections of the country. Hawaii is included in the southwestern section. The following table gives the numbers of Water-Supply Papers from 1940 through 1951.

Year	North-eastern (1)	South-eastern (2)	North-central (3)	South-central (4)	North-western (5)	South-western (6)
1940	906	907	908	909	910	911
1941	936	937	938	939	940	941
1942	944	945	946	947	948	949
1943	986	987	988	989	990	991
1944	1016	1017	1018	1019	1020	1021
1945	1023	1024	1025	1026	1027	1028
1946	1071	1072	1073	1074	1075	1076
1947	1096	1097	1098	1099	1100	1101
1948	1126	1127	1128	1129	1130	1131
1949	1156	1157	1158	1159	1160	1161
1950	1165	1166	1167	1168	1169	1170
1951	1191	1192	1193	1194	1195	1196

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

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

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

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

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States. Verda M. Dougherty edited the reports; Rodney Hart edited the illustrations; and Penn Livingston had

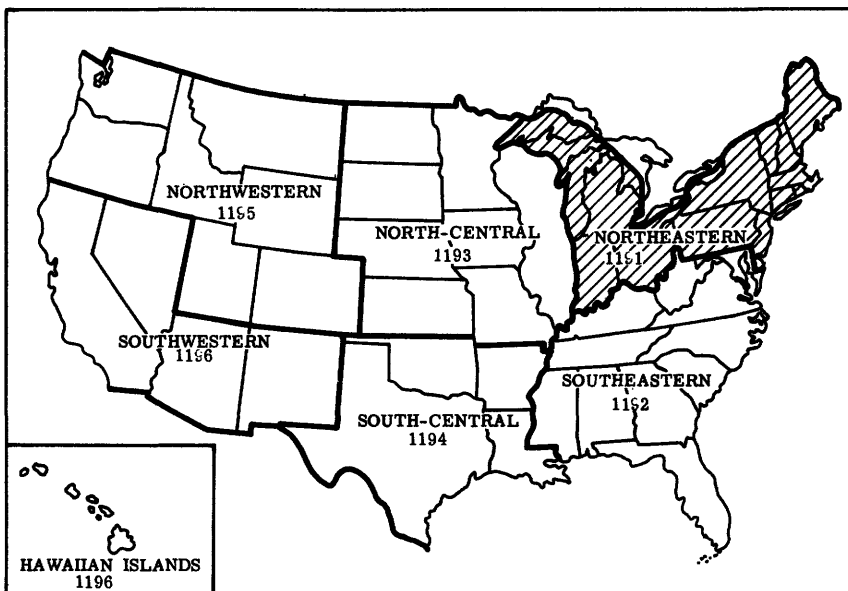


Figure 1. --Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1951. The shaded area indicates the States included in this volume.

general charge of the nation-wide observation-well program. This volume was typed by Charlotte Parker.

CONNECTICUT

By R. V. Cushman

Scope of Water-Level Program

The observation-well program in Connecticut was continued in 1951 in cooperation with the State Water Commission. The over-all program of work included collection of water-level data by means of a State-wide network of observation wells and areal surveys of ground-water conditions. The plan of study for the areal surveys consists of reconnaissance investigations of the entire State to be followed by more intensive work in areas of particular need or interest. As the reconnaissance investigations are extended to new areas, the observation-well program is expanded to include the areas of interest. Measurements were made in 33 wells in 1951. Tape measurements were made at monthly intervals in 30 wells and at weekly intervals in 3 wells.

Precipitation

According to the summary for 1951 by the U. S. Weather Bureau, the average annual precipitation for Connecticut was 51.72 inches, which was 6.32 inches or about 14 percent above normal. Above-normal precipitation was recorded for January, February, and March, and again in October, November, and December, the six months of the growing season being consistently deficient in rainfall. The months of March and November were marked by excessive moisture, the latter being the wettest November on record at Hartford, Conn. The winter of 1950-51 was one of the mildest of record. Frost-penetration was slight and the ground was frost-free by early March.

Pumpage

Records of ground-water pumpage in Connecticut are not available for all sources of withdrawal. Estimates based upon pumpage figures obtained from the Connecticut State Department of Health, industrial concerns, and private well owners indicate that ground water was withdrawn in the State in 1951 at the rate of about 53 million gallons per day. The average amount used daily for various purposes during the year is estimated as follows:

	Million gallons per day
Industrial (excluding water from municipal supplies)	40
Municipal	8
Rural (domestic and stock but excluding irrigation)	4
Irrigation	1

The most heavily pumped ground-water areas are at Waterbury, New Haven, Naugatuck, and Bridgeport. A survey of pumpage made in the Waterbury area in 1949 showed that an average of about 5 million gallons a day was pumped by industry in that year from glacial sand and gravel in the Naugatuck River valley. It is believed that there has been no significant change in pumpage through 1951. A survey made in the New Haven area in 1949 by the Geological Survey showed that approximately 4.5 million gallons a day was pumped in that year from glacial sands underlying the city. The chief uses were for air-conditioning, cold storage, and industrial purposes. A complete pumpage survey has not been made in the New Haven area since 1949. However, one large user has reduced its rate of withdrawal substantially since that time and it is estimated that the average daily pumpage in 1951 was about 4 million gallons. The effect of pumping upon the water levels in the area is discussed in the following section.

Interpretation of Water-Level Fluctuations

Water levels in Connecticut, when not affected by pumping, follow cyclical seasonal trends in response to natural recharge and discharge. The usual yearly trend of water levels consists of a rise during the nongrowing season when usage by vegetation and losses by evaporation are at a minimum. The rising trend usually extends for a short time into the growing season.

Peak levels are generally reached in April or May but occasionally are reached as late as June or early July. After the growing season starts, evaporation and transpiration rates are higher and less water is available for recharge to ground water. Natural discharge to surface-water bodies from springs and seeps continues and as a result ground water levels decline steadily until recharge from precipitation is again greater than discharge. Minimum levels are usually reached in November. Over half of the observation wells in Connecticut are in stratified sand and gravel of glacial origin. The remaining wells penetrate glacial till with the exception of well Wil 1, in Willimantic, which is ended in bedrock. The water levels in wells penetrating till in Connecticut normally show greater ranges in fluctuation from season to season than do water levels in wells in stratified drift or bedrock. This condition is in part a function of the specific yield of the water-bearing formations and of the topographic location of the observation well. Wells on the upper slopes of drainage basins are commonly in till. The fluctuations of water levels in Connecticut followed the normal pattern in 1951. This general trend was modified slightly by a pattern of precipitation that produced rather large seasonal fluctuations of water levels. The levels were slightly below normal at the beginning of the year as the result of a general deficiency in precipitation which had persisted from May 1949. Under the influence of above-normal precipitation and numerous periods of above-freezing temperature during the early part of 1951, the water table rose at greater-than-normal rates and by the end of March was above average at all wells. Record seasonal highs were noted at 3 wells at the end of March, the level at well MF 1 in Middlefield being the highest ever recorded at that well. The record high levels continued into April and peak levels were reached by the end of that month. From then until the end of September generally below-normal rainfall and the demands of evapo-transpiration brought about a steady decline in the water table. Minimum stages were reached in October at which time water levels in most parts of Connecticut had fallen again to the low levels recorded at the end of October 1950. Precipitation was considerably above normal during the last quarter of 1951, and as a result water levels rose rapidly during the last two months of the year. Record-high levels were recorded at the end of November and December, and the year ended with water levels substantially above normal. In the pumped areas of New Haven the major fluctuations of the water table are the result of changes in the rate and distribution of pumping as well as the variations in the amount of precipitation. In 1951 these fluctuations followed the general pattern of unpumped wells in Connecticut. There were, however, several notable modifications of this pattern which resulted from changes in the rates of withdrawal. In contrast to other observation wells, the water table in the industrial area of New Haven showed a decline during March which was the result of an increase in pumping rates at several large plants. This decline may be noted in the measurements at wells NHn 131 and NHn 138. Similarly, a contrasting rise was noted in this area at the end of July, as shown in the measurements at wells NHn 131, 138, and 173, and was the effect of a decrease in withdrawal during the normal two-week July vacation period at many industrial plants. Water levels in all pumped areas were substantially above normal by the end of the year.

Net change, in feet, in water levels in observation wells

Well	Net rise (+) or net decline (-)	Well	Net rise (+) or net decline (-)
Fairfield County		New Haven County*--Continued.	
Be 1	+1.90	Wb 93	+1.48
Hartford County		Wb 119	-1.13
Bu 2	+1.53	Wb 176	-.02
EH 21	+.88	Wb 198	+8.27
SW 64	+1.08	Wb 336 (c)	+1.01
Litchfield County		Wb 340 (c)	+2.74
Wy 1	+4.17	New London County	
Middlesex County		NL 10	+1.06
MF 1	.15	Tolland County	
New Haven County*		U 3	+3.19
EHv 70	(a)	Windham County	
Na 10	(b)	Af 1	+1.93
Na 11	+1.50	Pl 1	+1.24
Sb 1	+1.03	Wil 1	+.82
Wb 1	+1.18		

a Measurements begun April 25, 1951.

b No measurements made in 1951.

c Nearby well being pumped.

* See following table for wells in the city of New Haven.

Net change, in feet, in water levels in observation wells in New Haven

Area	Well	Net rise	Area	Well	Net rise
Residential	NHn 170	0.17	Air-conditioning	NHn 250	0.77
	NHn 175	.37		Industrial	NHn 131	1.03
	NHn 183	.68		NHn 138	.89
	NHn 270	.81		NHn 178	.34
Cold-storage	NHn 108	1.06		NHn 235	1.30
	NHn 110	.89			

Well-Numbering System

In the well-numbering system in Connecticut a letter prefix followed by the well number is used. A letter or combination of two or three letters is used to indicate the town, or "township" and the wells are then numbered consecutively in each town. For example, the letters "Be" are prefixed to all well numbers in Bethel.

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 appropriate signs are placed to indicate a change; readings that are between minus (-) signs are considered to be below the plane of reference; and those between plus (+) signs are considered as above the plane of reference. A plus or minus sign is placed immediately preceding the first entry in each column of each mixed table. Water levels in the city of New Haven are reported with reference 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. Nearby well being pumped. Highest water level 1.26 above msl, May 8, 1940; lowest 3.40 below msl, Aug. 26, 1946. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-0.25	May 25	+0.39	Aug. 27	-0.73	Nov. 26	+0.21
Feb. 23	+0.06	June 29	-0.09	Sept. 25	-0.89	Dec. 26	+0.65
Apr. 25	+0.53	July 25	-0.66				

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. Nearby well being pumped. Highest water level 0.99 above msl, Apr. 27, 1949; lowest 2.20 below msl, Oct. 27, 1944. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-0.29	Apr. 25	+0.48	July 25	-0.75	Oct. 30	-1.26
Feb. 23	+0.05	May 25	+0.17	Aug. 27	-0.98	Nov. 26	-0.01
Apr. 4	+0.44	June 29	-0.25	Sept. 25	-1.19	Dec. 26	+0.50

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. Nearby well being pumped. Highest water level 0.38 below msl, May 26, 1949; lowest 5.65 below msl, May 26, 1944. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-2.28	Apr. 25	-2.61	July 25	-2.48	Oct. 30	-2.28
Feb. 23	-2.07	May 25	-2.66	Aug. 27	-2.13	Nov. 26	-1.81
Apr. 4	-2.58	June 29	-2.66	Sept. 25	-1.89	Dec. 26	-1.65

NHn 138. Associated Realty Co. Greene 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. Nearby well being pumped. Highest water level 0.13 above msl, May 26, 1949; lowest 5.70 below msl, June 23, 1944. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-1.40	Apr. 25	-1.71	July 25	-1.65	Oct. 30	-1.51
Feb. 23	-1.15	May 25	-1.75	Aug. 27	-1.43	Nov. 26	-0.98
Apr. 4	-1.60	June 29	-1.77	Sept. 25	-1.46	Dec. 26	-0.81

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 18.63 above msl, June 25, 1948; lowest 15.64 above msl, Jan. 14, 1942. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+16.79	Apr. 25	+18.51	July 9	+17.77	Oct. 30	+16.59
Feb. 23	+17.15	May 25	+18.23	Aug. 27	+17.31	Nov. 26	+16.63
Apr. 4	+17.91	June 29	+17.79	Sept. 25	+16.89	Dec. 26	+16.81

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 4.51 above msl, June 23, 1939; lowest 2.27 above msl, Dec. 17, 1941. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	+3.25	Apr. 25	+4.28	July 25	+4.18	Oct. 30	+3.54
Feb. 23	3.41	May 25	4.41	Aug. 27	3.96	Nov. 26	3.55
Mar. 31	3.79	June 29	4.38	Sept. 25	3.76	Dec. 26	3.62
Apr. 4	3.84	July 9	4.34				

NHn 178. Atlantic Tire and Steel Co. Formerly Connecticut Co. Grand Ave. and Haven St. Lat. $41^{\circ}18'30''$, long. $72^{\circ}54'20''$. Driven unused water-table well in glacial sand, diameter 3 inches, depth 74 feet. Land-surface datum is 13.76 feet above msl. Nearby well being pumped. Highest water level 0.04 above msl, June 12, 1940; lowest 6.98 below msl, Oct. 28, 1947. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	-6.86	May 25	-6.28	Aug. 27	-5.94	Nov. 26	-5.81
Feb. 23	-6.96	June 29	-6.86	Sept. 25	-6.16	Dec. 26	-6.04
Apr. 4	-6.46	July 25	-6.28	Oct. 30	-6.32		

NHn 183. Frank X. Hald Storage Co. 370-376 Davenport Ave. Lat. $41^{\circ}18'00''$, long. $72^{\circ}56'45''$. Driven unused water-table well in glacial sand, diameter 2 inches, depth 24 feet. Land-surface datum is 23.94 feet above msl. Highest water level 5.97 above msl, Apr. 25, 1951; lowest 2.67 above msl, Dec. 3, 1941. Records available: 1939-51.

Jan. 25	+4.26	May 25	+5.62	July 25	+4.89	Oct. 30	+4.22
Feb. 23	4.19	June 29	5.24	Aug. 27	4.56	Nov. 26	4.72
Apr. 4	5.52	July 9	5.12	Sept. 25	4.35	Dec. 26	4.82
25	5.97						

NHn 235. C. Cowles & Co. Chestnut and Water Sts. Lat. $41^{\circ}18'05''$, long. $72^{\circ}54'55''$. 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. Nearby well being pumped. Highest water level 1.24 above msl, May 26, 1949; lowest 3.59 below msl, Feb. 1, 1945. Records available: 1940-51. Jan. 25, -1.15; Feb. 23, -.80; Apr. 25, -.09; June 29, -.02; Aug. 27, -0.22; Oct. 30, -0.35; Nov. 26, +0.11; Dec. 26, +0.35.

NHn 250. I. Newman & Sons. 43 Oak St. Lat. $41^{\circ}18'10''$, long. $72^{\circ}55'50''$. 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. Nearby well being pumped. Highest water level 4.98 above msl, Apr. 27, 1949; lowest 0.67 above msl, Sept. 25, 1947. Records available: 1940-51.

Jan. 25	+3.33	Apr. 25	+4.24	July 25	+3.85	Oct. 30	+3.73
Feb. 23	+3.53	May 25	+4.41	Aug. 27	+3.65	Nov. 26	+4.21
Apr. 4	+4.03	June 29	+4.21	Sept. 25	+3.30	Dec. 26	+4.35

NHn 270. Carl E. Altmann. 53 Auburn St. Lat. $41^{\circ}18'20''$, long. $72^{\circ}56'45''$. 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 7.10 above msl, May 26, 1949; lowest 3.78 above msl, Dec. 17, 1941. Records available: 1941-51.

Jan. 25	+5.13	May 25	+7.06	July 25	+6.40	Oct. 30	+5.51
Feb. 23	5.46	June 29	6.66	Aug. 27	6.10	Nov. 26	5.64
Mar. 31	6.08	July 9	6.56	Sept. 25	5.87	Dec. 26	5.76
Apr. 25	6.80						

Fairfield County

Be 1. Frederick J. Andrews. 248 Greenwood Ave., Bethel. Lat. $41^{\circ}22'20''$, long. $73^{\circ}25'10''$. 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 17.20 below lsd, Mar. 30, 1948; lowest 24.40 below lsd, Dec. 15, 1949. Records available: 1946-51.

Jan. 4	20.60	Apr. 5	18.30	July 5	20.70	Oct. 12	22.20
11	20.40	12	17.60	12	20.90	18	22.10
18	19.90	19	17.90	19	20.90	25	21.80
25	19.20	26	18.60	26	21.10	Nov. 1	21.80
Feb. 1	19.00	May 3	19.00	Aug. 2	21.20	8	20.50
8	18.60	17	19.90	9	21.20	15	19.10
15	18.60	24	20.00	16	21.20	23	19.30
22	18.70	31	20.00	23	21.70	29	19.30
Mar. 1	18.40	June 7	20.10	30	21.80	Dec. 6	19.30
8	18.50	15	20.00	Sept. 6	21.80	13	19.70
15	18.60	21	20.20	27	21.90	20	19.50
29	18.40	28	20.80	Oct. 4	22.10	27	19.30

Hartford County

Bu 2. E. E. Edman. Burlington. Lat. 41°46'15", long. 72°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 15.08 below lsd, July 5, 1948; lowest 37.41 below lsd, Dec. 22, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	20.98	Apr. 22	15.69	Aug. 19	22.88	Oct. 28	32.74
Feb. 11	16.17	May 6	15.89	26	24.58	Nov. 3	32.92
18	15.89	June 11	17.39	Sept. 1	24.78	18	31.69
Mar. 11	15.57	30	17.88	9	25.57	25	27.10
17	15.87	July 24	19.69	26	27.48	Dec. 1	25.23
Apr. 4	14.19	Aug. 4	21.01	Oct. 21	32.04	25	19.45

EH 21. Burnside Ice Co. 790 Tolland St., East Hartford. Lat. 41°47', long. 72°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, 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	17.24	Apr. 24	14.84	July 27	17.74	Nov. 2	18.34
26	16.57	May 29	15.10	Aug. 28	18.01	28	17.20
Feb. 28	16.22	June 27	16.70	Sept. 24	18.50	Dec. 27	16.36
Mar. 30	16.00						

SW 64. H. F. Church. Station 37, South Windsor. Lat. 41°49', long. 72°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, 1938; lowest 13.84 below lsd, Dec. 31, 1949. Records available: 1934-39, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	12.43	Apr. 24	10.15	July 27	12.11	Nov. 2	13.07
26	11.91	May 29	10.98	Aug. 28	12.47	28	12.01
Feb. 28	10.60	June 27	11.50	Sept. 24	12.88	Dec. 27	11.35
Mar. 30	10.67						

Litchfield County

Wy 1. George H. Wadsworth. Formerly James Crowfut. 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 19.89 below lsd, Mar. 30, 1948; lowest 33.50 below lsd, Oct. 10, 1914. Records available: 1913-16, 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	26.14	May 1	20.95	July 25	25.58	Nov. 5	28.64
Feb. 2	21.85	31	22.07	Aug. 29	27.96	30	25.86
27	20.70	June 29	23.38	Sept. 26	29.18	Dec. 28	21.97
Apr. 4	19.98						

Middlesex County

Mf 1. Lyman Gun Sight Corp. Near Baileyville, Middlefield. 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 12.95 below lsd, Oct. 27, 1949. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	4.45	May 1	5.90	July 31	9.90	Nov. 5	10.25
28	4.17	June 4	6.70	Aug. 29	11.05	30	5.36
Feb. 27	4.16	28	7.95	Sept. 24	12.36	Dec. 28	4.65
Apr. 3	3.12						

New Haven County

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 3.90 below lsd, Mar. 30, 1948; lowest 16.45 below lsd, Oct. 24, 1947. Records available: 1946-50. No measurement made in 1951.

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 340 feet above msl. Highest water level 3.86 below lsd, Mar. 30, 1948; lowest 16.64 below lsd, Oct. 24, 1947. Records available: 1946-51. Jan. 5, 5.28; Feb. 27, 4.15; May 1, 4.48; June 29, 13.95 nearby well being pumped; Nov. 5, 6.88; Nov. 30, 5.82; Dec. 26, 4.73.

Na 30. U. S. Rubber Co. Naugatuck. Records available: 1949. Measurement discontinued.

Sb 1. Francis Bower. Formerly James Fleming. State Route 67, Southbury. 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 13.17 below lsd, June 6, 1946; lowest 18.40 below lsd, Oct. 14, 1916. Records available: 1913-16, 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	15.11	May 1	13.87	July 25	14.85	Nov. 5	15.19
Feb. 2	14.75	31	14.04	Aug. 29	15.27	30	14.63
27	14.43	June 29	14.53	Sept. 26	15.66	Dec. 28	14.08
Apr. 4	13.72						

Wb 1. Waterbury Ash Removal Co., Thomaston Ave., Waterbury. Lat. 41°34', long. 73°03'30". Drilled unused water-table well in glacial sand and gravel, diameter 6 inches, depth 82 feet. Land-surface datum is about 270 feet above msl. Highest water level 6.85 below lsd, Mar. 23, 1948; lowest 10.99 below lsd, Sept. 11, 1944. Records available: 1943-51.

Jan. 12	9.27	Apr. 30	9.22	July 5	10.29	Oct. 4	10.72
26	8.63	May 7	9.65	16	10.48	15	10.37
Feb. 1	9.08	14	9.68	30	10.60	23	10.57
12	8.44	21	9.97	Aug. 9	10.63	Nov. 5	9.35
Mar. 8	8.84	28	9.74	16	10.40	15	9.02
19	8.96	June 6	9.74	22	10.35	21	9.22
26	8.75	13	10.03	31	10.55	Dec. 3	9.50
Apr. 10	8.10	20	9.93	Sept. 11	10.60	12	9.24
21	8.99	26	10.17	25	10.70	27	8.52

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 24.99 below lsd, Apr. 4, 1951; lowest 28.39 below lsd, Aug. 29, 1944. Records available: 1944-51.

Jan. 5	26.63	May 1	26.34	July 25	27.50	Nov. 5	27.17
Feb. 2	25.93	31	26.88	Aug. 29	27.70	30	26.43
27	25.22	June 29	27.23	Sept. 26	27.88	Dec. 28	25.15
Apr. 4	24.99						

Wb 119. James O'Connor. 947 Pearl Lake Rd., Waterbury. Lat. 41°32', long. 73°01'15". Dug unused water-table well in glacial till, diameter 24 inches, depth 28 feet, lined with stone. Land-surface datum is about 440 feet above msl. Highest water level 2.68 below lsd, Nov. 5, 1951; lowest 13.85 below lsd, Oct. 27, 1948. Records available: 1944-51. Jan. 5, 3.09; Feb. 27, 4.30; Apr. 4, 3.42; May 31, 5.83; July 25, 7.20; Nov. 5, 2.68; Nov. 30, 4.68; Dec. 28, 4.22.

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: 1944-51.

Jan. 5	4.28	Apr. 4	2.80	July 25	11.34	Nov. 30	5.28
Feb. 2	3.87	May 1	6.29	Aug. 29	12.92	Dec. 28	4.30
27	3.55	31	7.68	Nov. 5	8.96		

Wb 198. E. L. Bronson. 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: 1944-51. May 1, 9.13; May 31, 11.73; June 29, 12.80; Aug. 29, 15.85; Nov. 5, 17.35; Nov. 30, 12.63; Dec. 28, 9.82.

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. Nearby well being pumped. Highest water level 11.14 below lsd, May 1, 1947; lowest 20.40 below lsd, Aug. 29, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	15.01	May 31	14.94	Aug. 29	17.45	Nov. 30	17.77
Feb. 27	13.25	June 29	16.44	Nov. 5	16.70	Dec. 28	14.00
May 1	13.76						

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. Nearby well being pumped. Highest water level 15.83 below lsd, May 19, 1945; lowest 24.87 below lsd, Sept. 27, 1945. Records available: 1944-51. Feb. 27, 19.44; Apr. 4, 18.10; May 31, 20.12; Aug. 29, 20.04; Nov. 5, 19.05; Nov. 30, 19.67; Dec. 28, 17.00.

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 7.32 below lsd, Mar. 19, 1936; lowest 16.03 below lsd, Nov. 22, 1935. Records available: 1935-39, 1951. Apr. 25, 9.58; May 25, 10.67; July 9, 12.22; July 25, 12.90; Aug. 27, 13.98; Nov. 26, 10.54; Dec. 27, 9.08.

New London County

NL 10. Formerly NL 2. 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 12.88 below lsd, Feb. 26, 1948; lowest 17.99 below lsd, Aug. 16, 1937. Records available: 1937-39, 1946-51.

Jan. 2	14.92	May 29	15.22	July 21	16.85	Nov. 28	14.15
Feb. 28	13.74	June 27	16.30	Sept. 24	16.93	Dec. 27	13.86

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 14.23 below lsd, Mar. 30, 1951; lowest dry, Dec. 1, 1949. Records available: 1946-51.

Jan. 2	19.86	Apr. 24	14.63	July 27	19.64	Nov. 2	22.88
26	17.85	May 29	16.45	Aug. 28	20.76	28	19.84
Feb. 28	14.60	June 27	18.15	Sept. 24	21.76	Dec. 27	16.67
Mar. 30	14.23						

Windham County

Af 1. Yale University Forest. Near Ashford. 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 3.83 below lsd, Mar. 29, 1948; lowest dry, Oct. 27, 1949. Records available: 1946-51.

Jan. 2	6.83	Apr. 24	3.90	July 27	9.18	Nov. 2	11.20
26	4.66	May 29	4.72	Aug. 28	8.43	28	5.52
Feb. 28	4.37	June 27	8.13	Sept. 24	11.05	Dec. 27	4.90
Mar. 30	4.18						

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 28.10 below lsd, Apr. 27, 1948; lowest 31.72 below lsd, Feb. 3, 1944. Records available: 1942-51.

Jan. 2	31.04	Mar. 30	29.19	July 27	30.50	Nov. 2	31.60
26	30.72	May 29	29.33	Aug. 28	31.00	28	30.48
Feb. 28	29.50	June 27	29.89	Sept. 24	31.36	Dec. 27	29.80

Wil 1. American Thread Co. 322 Main St., Willimantic. Lat. 41°42'30", long. 72°12'15". Drilled unused water-table well in gneiss, diameter 6 inches, depth 83 feet. Land-surface datum is about 190 feet above msl. Highest water level 5.45 below lsd, Mar. 29, 1948; lowest 8.90 below lsd, Oct. 27, 1947. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	6.89	Apr. 24	5.84	July 27	7.40	Nov. 2	7.93
26	6.30	May 29	6.43	Aug. 29	7.85	28	6.91
Feb. 28	5.76	June 27	6.96	Sept. 24	8.26	Dec. 27	6.07
Mar. 30	5.76						

DELAWARE

By I. W. Marine and W. C. Rasmussen

Scope of Water-Level Program

The program of ground-water investigation in Delaware was begun in 1943 in cooperation with the towns of Lewes and Rehoboth. Measurements were made in two wells at Fort Miles in an attempt to determine the extent of salt-water encroachment in aquifers from which public supplies were obtained. In 1947 a third well, Ni 3, was established as an observation well in the Lewes well field. Measurements were discontinued in the first two wells in 1950. In December 1949, the U. S. Geological Survey, in cooperation with the Agricultural Extension Service of the University of Delaware and the Highway Department began a reconnaissance study of ground water within the State. Measurements were made in 13 wells in 1950. Beginning July 1, 1951, cooperation was transferred to the State Geological Survey and the program enlarged to include a detailed study of the Newark area. The location of the observation wells is shown in figure 2.

Precipitation

Precipitation in Delaware in 1951 was 0.72 inch above normal as determined from 13 stations which have an average period of record of 33 years. From January through May, precipitation was 2.56 inches below normal. From June through July, it was 0.88 inch above normal. From August through October, it was 3.08 inches below normal. For November and December, it was 5.48 inches above normal.

Interpretation of Water-Level Fluctuations

The average water level in 13 water-table wells measured monthly rose from January until the end of March in response to rainfall. In April there was a decrease in precipitation and a corresponding lowering of water levels. Although rainfall increased from May through July, water levels continued to decline owing to increased evapotranspiration. From July through September rainfall decreased. From October until the end of the year, rainfall increased sharply and water levels rose to the highest of the year, 6.43 feet. Thus, the average fluctuation during the year was about $2\frac{1}{2}$ feet. This average rise of $2\frac{1}{2}$ feet, in response to a rainfall averaging $5\frac{1}{2}$ inches, indicates a gross specific yield of approximately 18 percent in the zone of water-table fluctuation.

Acknowledgments

The recording gages at New Castle and Lewes are checked voluntarily each week by employees of the Water Departments. Two recording gages, Rf 1 and Rf 2 are operated by the Soil Conservation Service, U. S. Department of Agriculture.

Well-Numbering System

The State of Delaware is divided into 5-minute quadrangles of latitude and longitude as shown in figure 2. The quadrangles are lettered north to south with upper case letters and west to east with lower case letters. A quadrangle is indicated by two letters with the capital letter being given first. Within the quadrangles the wells were numbered in the order they were scheduled.

Well Descriptions and Water-Level Measurements

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

Kent County

Ic 4. State Highway Department. Lat. $39^{\circ}14'$, long. $75^{\circ}39'$. Driven observation water-table well, diameter 1 inch, depth 12 feet. Land-surface datum is about 60 feet above msl. Highest water level 3.62 below lsd, Dec. 28, 1951; lowest 5.54 below lsd, Oct. 1, 1951. Records available: 1950-51.

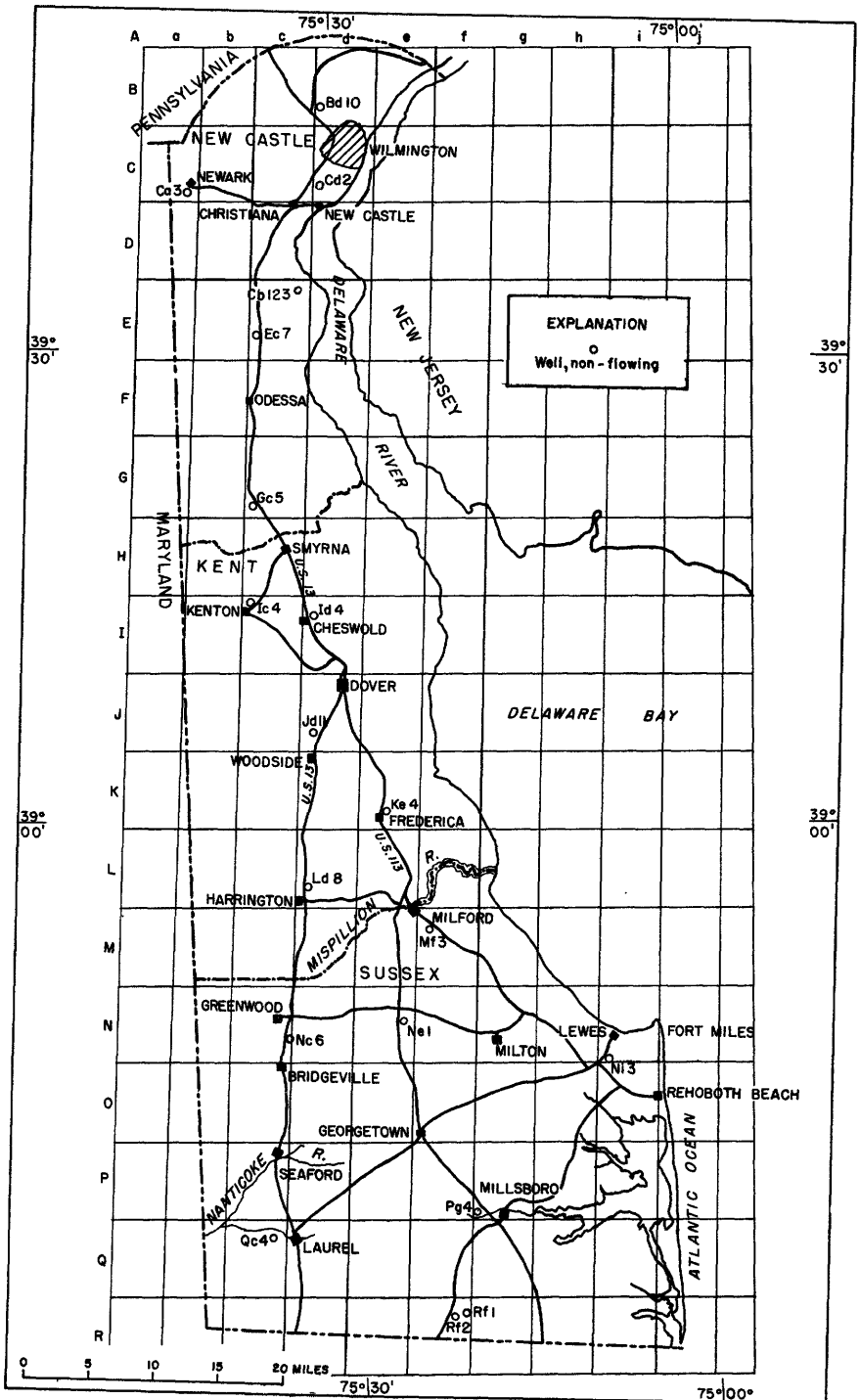


Figure 2. --Location of observation wells in Delaware, 1951.

Ic 4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	4.95	Apr. 30	4.59	July 30	5.14	Oct. 29	5.41
31	4.89	May 30	4.64	Aug. 31	5.40	Nov. 28	4.39
Feb. 28	4.10	July 2	5.06	Oct. 1	5.54	Dec. 28	3.62

Id 4. State Highway Department. Lat. 39°13', long. 75°34'. Near Cheswold. Driven observation water-table well, diameter 1 inch, depth 14 feet. Land-surface datum is about 40 feet above msl. Highest water level 3.30 below lsd, Dec. 28, 1951; lowest 8.61 below lsd, Oct. 10, 1950. Records available: 1950-51.

Jan. 2	6.72	Apr. 30	4.80	July 30	6.42	Oct. 29	8.60
31	6.30	May 30	4.73	Aug. 31	7.29	Nov. 28	4.95
Feb. 28	5.22	July 2	5.89	Oct. 1	8.23	Dec. 28	3.30
Apr. 2	4.28						

Jd 11. State Highway Department. Lat. 39°06', long. 75°33'. Near Camden. Driven observation water-table well, diameter 1 inch, depth 15 feet. Land-surface datum is about 50 feet above msl. Highest water level 5.90 below lsd, Dec. 29, 1951; lowest 9.16 below lsd, Oct. 30, 1951. Records available: 1950-51.

Jan. 2	8.50	Apr. 30	7.51	July 30	7.92	Oct. 30	9.16
31	8.57	May 30	7.77	Aug. 31	8.35	Nov. 28	7.43
Feb. 28	7.87	July 2	7.67	Oct. 1	8.85	Dec. 29	5.90
Apr. 2	7.49						

Ke 4. State Highway Department. Lat. 39°01', long. 75°27'. Near Frederica. Driven observation water-table well, diameter 1 inch, depth 17 feet. Land-surface datum is about 22 feet above msl. Highest water level 8.87 below lsd, Dec. 28, 1951; lowest 12.89 below lsd, Dec. 1, 1950. Records available: 1950-51.

Jan. 2	12.41	Apr. 30	11.12	July 30	11.31	Oct. 29	12.66
31	12.38	May 30	11.33	Aug. 31	11.84	Nov. 30	11.65
Feb. 28	11.58	July 2	11.14	Oct. 1	12.30	Dec. 28	8.87
Apr. 2	11.00						

Ld 8. State Highway Department. Lat. 38°56', long. 75°34'. Driven observation water-table well, diameter 1 inch, depth 13 feet. Land-surface datum is about 52 feet above msl. Highest water level 2.27 below lsd, Dec. 29, 1951; lowest 7.26 below lsd, Oct. 1, 1951. Records available: 1950-51.

Jan. 2	6.24	Apr. 2	4.92	July 30	5.64	Oct. 29	6.44
31	6.18	30	5.36	Aug. 31	6.58	Nov. 28	4.60
Feb. 28	4.80	May 30	5.73	Oct. 1	7.26	Dec. 29	2.27

New Castle County

Bd 10. F. B. Crowninshield. Lat. 39°47', long. 75°34'. 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 12.68 below lsd, Dec. 29, 1951; lowest 15.44 below lsd, Oct. 29, 1951. Records available: 1950-51.

Jan. 2	14.04	Apr. 30	13.30	July 31	13.90	Oct. 29	15.44
30	14.96	May 30	13.47	Aug. 31	14.71	Nov. 29	14.42
Feb. 28	13.21	July 2	13.73	Oct. 1	15.31	Dec. 29	12.68
Apr. 2	12.98						

Ca 3. City of Newark. Lat. 39°40', long. 75°45'. In Newark. Academy St. and Water Works 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 27.75 below lsd, Sept. 11, 1950; lowest 33.56 below lsd, Jan. 20, 1951. Records available: 1950-51.

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.31	33.22	31.93	31.65	31.37	31.01	31.43	31.49	30.48	30.59	30.91	30.95
2	32.39	33.30	31.96	31.23	31.37	31.27	31.09	31.59	30.55	30.57	30.97	30.81
3	32.55	33.17	31.85	31.11	31.37	31.40	31.17	31.80	30.39	30.67	30.87	30.71
4	32.72	33.17	31.61	30.95	31.35	31.11	31.27	31.82	30.04	30.65	30.87	30.78
5	32.95	33.05	31.57	31.17	31.36	31.05	31.09	31.57	30.01	30.57	30.57	30.70

Ca 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	32.98	33.12	32.77	31.25	31.32	31.23	31.14	31.13	30.17	30.65	30.83	30.95
7	32.95	33.19	31.87	31.07	31.00	31.21	31.14	31.22	30.25	30.71	30.81	30.95
8	32.94	33.29	31.92	30.87	31.13	31.41	31.00	31.49	30.32	30.63	30.89	30.15
9	32.93	33.34	31.89	30.80	31.25	31.49	30.72	31.61	30.29	30.61	30.94	30.65
10	33.11	33.37	31.88	31.05	31.37	31.37	30.82	31.77	30.01	30.61	30.94	30.65
11	33.23	33.45	31.78	31.17	e31.37	31.09	31.31	31.88	30.01	30.66	30.79	30.75
12	33.28	33.17	31.63	31.49	31.09	31.11	31.45	31.86	30.20	30.81	30.62	30.73
13	33.21	33.24	31.58	31.11	31.11	31.15	31.66	31.55	30.27	30.90	30.64	30.79
14	33.29	33.23	31.73	31.27	30.49	30.94	31.75	31.65	30.61	30.80	30.77	30.83
15	33.32	33.31	31.89	31.23	30.68	31.11	31.58	31.37	30.75	30.63	30.80	30.81
16	33.47	33.35	31.97	30.95	e30.95	31.24	31.47	31.22	30.69	30.51	30.77	30.81
17	33.49	33.37	32.08	31.01	31.09	31.03	31.50	31.10	30.52	30.67	30.82	30.75
18	33.44	32.05	31.83	31.10	31.28	30.61	31.57	30.98	30.42	30.66	30.81	30.74
19	33.53	30.40	31.59	31.11	31.36	30.89	31.64	30.85	30.38	30.75	30.61	30.80
20	33.56	29.35	31.43	31.12	31.38	31.07	31.62	30.49	30.34	30.77	30.65	31.00
21	33.46	29.32	31.69	31.14	31.07	30.85	31.69	30.38	30.52	.....	30.75	30.72
22	33.43	20.51	31.83	31.24	31.09	31.15	31.67	30.33	30.62	.....	30.78	30.72
23	33.41	30.15	31.97	30.87	31.31	31.25	31.35	30.48	30.69	.....	30.75	30.71
24	33.45	31.05	31.99	31.37	31.15	31.31	31.49	30.37	30.65	.....	30.73	30.39
25	33.43	31.19	31.91	31.37	31.05	31.61	30.27	30.45	30.53	.....	30.73	30.28
26	33.41	31.30	31.33	31.20	31.47	30.93	31.63	30.31	30.65	30.93	30.60	30.05
27	33.45	31.41	31.53	31.29	31.55	31.07	31.64	29.27	30.54	31.00	30.75	30.09
28	33.32	31.68	31.61	31.41	31.41	31.23	31.51	29.99	30.89	30.91	30.83	29.89
29	33.34		31.59	31.35	31.28	31.47	31.77	30.20	30.96	30.57	30.93	29.92
30	33.15		31.70	31.25	31.13	31.56	31.31	30.23	30.90	30.61	30.93	29.91
31	33.08		31.71		30.91		31.43	30.36		30.75		29.83

e Estimated.

Ch 123. University of Delaware, Agricultural Experiment Station. Lat. 39°40', long. 75°44'. Near Newark. Driven observation water-table well, diameter 1½ inches, depth 26 feet. Land-surface datum is about 90 feet above msl. Highest water level 9.32 below lsd, Dec. 29, 1951; lowest 11.25 below lsd, Oct. 29, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 4	9.63	July 30	10.00	Oct. 1	10.97	Nov. 28	10.60
July 2	9.86	Aug. 31	10.49	29	11.25	Dec. 29	9.32

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 6.14 below msl, July 8, 1951; lowest 13.09 below msl, Aug. 1, 1950. Records available: 1950-51.

Daily lowest water level, below msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.43	12.12	11.59	10.95	10.57	10.31	9.37	9.96	10.84	9.27	8.86	8.76
2	11.84	12.16	11.53	10.91	10.63	10.44	8.76	9.04	10.55	9.40	8.89	8.37
3	12.04	12.17	11.48	10.84	10.37	10.42	8.80	10.07	9.81	9.53	8.76	8.61
4	12.22	11.48	11.47	10.86	10.41	10.04	8.75	10.08	9.63	9.89	8.64	8.77
5	12.59	11.52	11.45	10.84	10.41	10.21	8.39	10.11	9.32	9.80	8.54	8.83
6	12.16	11.64	11.54	10.84	10.36	10.37	8.31	10.14	10.04	9.73	8.57	8.84
7	12.75	11.71	11.61	10.79	10.36	10.46	8.51	10.22	10.16	10.69	8.54	8.75
8	11.29	11.89	11.55	10.76	10.46	10.83	8.52	10.20	10.13	9.27	8.44	8.83
9	11.73	12.04	11.53	.....	10.61	10.85	8.54	10.23	9.89	9.57	8.51	8.42
10	12.16	11.72	11.46	10.64	10.64	.....	8.75	10.27	9.42	9.61	8.56	8.50
11	12.44	11.77	11.44	10.69	10.71	.....	9.09	10.20	9.74	9.59	8.56	8.32
12	12.24	11.49	11.32	10.66	10.75	.....	9.14	10.20	9.95	9.21	8.32	8.88
13	12.09	11.74	11.43	10.64	10.62	.....	9.30	10.01	10.03	9.23	8.32	9.15
14	12.04	11.94	11.39	10.56	10.64	.....	9.41	9.94	10.06	9.27	8.44	9.47
15	11.86	12.00	11.39	10.56	10.79	9.96	9.46	10.01	10.07	9.03	8.50	9.45
16	12.24	12.05	11.38	.....	10.84	9.99	9.40	10.02	9.91	9.12	8.55	9.52
17	12.27	12.06	11.38	10.69	10.91	9.92	9.44	10.14	9.46	9.20	8.64	9.05
18	12.59	12.08	11.35	10.91	10.96	9.44	9.58	10.19	9.69	9.27	8.67	9.35
19	12.56	11.96	11.24	10.76	11.03	9.57	9.68	10.21	9.83	9.87	8.44	9.42
20	12.53	11.98	11.23	10.74	11.00	9.72	9.73	10.17	9.89	9.97	8.57	9.14
21	12.32	11.92	11.15	10.74	10.85	9.72	9.78	9.99	9.06	9.91	8.69	9.13
22	11.97	11.92	11.14	10.42	10.85	9.76	9.81	10.02	9.87	9.75	8.64	9.00
23	12.17	11.93	11.04	10.67	10.85	9.76	9.79	10.06	9.74	9.78	8.69	8.46
24	12.42	11.78	11.06	10.71	10.83	9.66	9.70	10.17	9.47	9.84	8.60	8.39
25	12.62	11.79	10.94	10.67	10.84	9.29	9.76	10.44	9.49	9.89	8.46	8.45

Cd 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	12.19	11.60	10.81	10.67	10.84	9.31	9.82	10.29	9.53	9.95	8.39	8.11
27	12.33	11.61	10.92	10.70	10.76	....	9.84	10.24	9.59	9.02	8.39	8.19
28	12.15	11.64	10.94	10.67	10.22	....	9.84	10.36	9.62	8.84	8.52	8.24
29	11.73		10.97	10.55	10.36	9.39	9.84	10.40	9.56	8.61	8.59	8.26
30	11.87		10.94	10.51	10.41	9.41	9.84	11.04	9.56	8.78	8.66	8.39
31	12.19		10.94		10.26		9.93	11.11		8.89		8.02

Ec 7. State Highway Department. Lat. 39°31', long. 75°39'. Driven observation water-table well, diameter 1 inch, depth 11 feet. Land-surface datum is about 35 feet above msl. Highest water level 1.48 below lsd, May 30, 1951; lowest 2.79 below lsd, July 30, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	2.26	Apr. 30	1.66	July 30	2.79	Oct. 29	2.69
30	2.09	May 30	1.48	Aug. 31	2.37	Nov. 28	2.36
Feb. 28	1.62	July 2	1.91	Oct. 1	2.64	Dec. 28	1.64
Apr. 2	1.55						

Gc 5. State Highway Department. Lat. 39°21', long. 75°38'. Near Blackbird. Driven observation water-table well, diameter 1 inch, depth 10 feet. Land-surface datum is about 40 feet above msl. Highest water level 0.61 below lsd, Dec. 28, 1951; lowest 2.72 below lsd, Oct. 1, 1951. Records available: 1950-51.

Jan. 2	2.03	Apr. 30	1.89	July 30	1.53	Oct. 29	2.45
31	1.34	May 30	1.99	Aug. 31	2.11	Nov. 28	1.01
Feb. 28	1.13	July 2	2.30	Oct. 1	2.72	Dec. 28	.61
Apr. 2	1.37						

Sussex County

Mf 3. State Highway Department. Lat. 38°53', long. 75°23'. Driven observation water-table well, diameter 1 inch, depth 27 feet. Land-surface datum is about 40 feet above msl. Highest water level 17.93 below lsd, Dec. 28, 1951; lowest 20.87 below lsd, Dec. 1, 1950. Records available: 1950-51.

Jan. 2	20.67	Apr. 30	19.40	July 30	18.98	Oct. 29	20.38
31	20.62	May 30	19.54	Aug. 31	19.43	Nov. 30	19.53
Feb. 28	20.34	July 2	19.14	Oct. 1	19.92	Dec. 28	17.93
Apr. 2	19.49						

Nc 6. P. H. Cannon. Lat. 38°46', long. 75°35'. Near Greenwood, on east side of U. S. Highway 13. Driven observation water-table well, diameter 1 inch, depth 15 feet. Land-surface datum is about 43 feet above msl. Highest water level 7.31 below lsd, Dec. 28, 1951; lowest 9.71 below lsd, Oct. 2, 1951. Records available: 1950-51.

Feb. 1	9.09	Apr. 30	9.02	Aug. 1	8.54	Nov. 3	9.15
Mar. 1	8.48	June 1	9.37	29	9.36	28	8.56
29	8.79	July 2	8.67	Oct. 2	9.71	Dec. 28	7.31

Ne 1. State Highway Department. Lat. 38°47', long. 75°26'. Driven observation water-table well, diameter 1 inch, depth 14 feet. Land-surface datum is about 50 feet above msl. Highest water level 1.56 below lsd, Dec. 28, 1951; lowest 6.23 below lsd, Oct. 31, 1950. Records available: 1950-51.

Feb. 1	2.45	Apr. 30	2.25	Aug. 1	3.37	Nov. 30	1.98
Mar. 1	2.05	June 2	3.18	Oct. 2	4.72	Dec. 28	1.56
29	2.03	29	3.11	Nov. 3	2.13		

Ni 3. City of Lewes. Lat. 38°45', long. 75°09'. Drilled observation artesian well, diameter 6 inches, depth 84 feet. Land-surface datum is about 20 feet above msl. Highest water level 14.94 below lsd, Dec. 5, 1950; lowest 21.74 below lsd, Sept. 25, 1947. Records available: 1947-48, 1950-51.

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.11	18.40	18.27	....	....	18.73	....	19.23	....	19.48	....	....
2	18.26	18.39	17.79	17.55	19.05	....	19.33	....	19.72	....	....
3	18.35	17.47	18.02	17.86	19.36	18.12	19.77	....	19.67	....	....
4	18.35	18.14	17.52	17.89	19.18	17.49	19.59	....	....	....	....
5	18.46	18.37	17.92	17.82	19.19	18.17	19.86	19.47	....	....	....

Ni 3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	18.35	18.27	17.97	17.94	18.68	17.73	19.66	19.41	.....	.....	18.75
7	.....	18.32	18.21	17.95	18.01	18.97	17.94	.....	19.86	18.87	.....	18.86
8	.....	18.41	17.99	17.90	18.18	19.23	17.81	.....	19.81	19.27	.....	18.97
9	.....	18.51	18.29	17.67	17.88	18.48	18.82	19.57	19.50	19.10	.....	18.92
10	18.28	18.52	18.29	17.77	18.06	18.40	17.57	19.63	19.27	18.97	.....	18.89
11	18.19	18.47	18.05	17.85	17.97	18.49	17.57	19.51	19.70	19.02	.....	18.97
12	18.44	18.49	18.37	15.89	17.92	18.81	19.52	19.05	19.45	19.47	18.19	18.95
13	18.27	18.38	18.20	17.74	18.05	18.98	18.96	19.49	19.68	19.56	18.88	18.27
14	18.24	18.48	18.23	17.62	18.52	18.36	19.59	19.64	19.48	19.17	.....	19.19
15	18.19	18.48	.....	17.97	.....	18.47	19.21	19.33	19.69	19.37	.....	19.26
16	18.31	18.43	18.18	17.52	.....	18.69	18.98	19.57	19.54	19.32	.....	19.19
17	18.34	18.37	18.18	.....	18.52	16.53	18.62	.....	19.77	19.41	18.87	.....
18	18.40	18.27	18.12	.....	18.06	18.77	19.09	.....	19.96	19.26	18.85	.....
19	18.28	18.27	18.09	.....	18.10	18.99	19.59	19.18	19.77	18.95	18.98	18.83
20	17.90	18.20	18.16	17.81	18.16	19.25	19.42	19.37	19.74	.....	.....	18.93
21	17.97	18.23	18.16	17.64	18.29	19.11	19.27	19.46	.....	.....	.....	18.93
22	18.11	.....	18.16	17.67	18.43	18.68	19.57	19.84	.....	.....	.....	18.91
23	18.31	18.18	18.12	17.97	18.51	19.17	19.33	19.57	.....	19.46	.....	18.83
24	18.28	18.10	17.69	18.00	18.04	18.43	.....	19.62	.....	19.24	.....	18.86
25	16.51	18.17	17.80	17.97	18.30	18.85	.....	19.78	.....	19.32	.....	18.58
26	18.35	17.94	17.97	18.12	18.37	18.77	.....	19.20	19.03	19.37	.....	18.68
27	18.12	18.49	18.17	17.97	18.27	18.98	.....	19.09	19.87	19.27	.....	.....
28	18.36	18.27	17.77	.....	18.26	18.66	.....	19.76	19.77	19.09	.....	.....
29	18.44	.....	17.77	.....	18.21	.....	.....	19.97	19.70	19.28	.....	.....
30	18.10	.....	17.05	.....	18.49	.....	19.16	.....	19.58	19.56	.....	.....
31	18.42	.....	.....	.....	18.26	.....	19.28	.....	.....	.....	.....	.....

Pg 4. State Highway Department. Lat. 38°36', long. 75°19'. Near Millsboro. Driven observation water-table well, diameter 1 inch, depth 22 feet. Land-surface datum is about 30 feet above msl. Highest water level 15.58 below lsd, Dec. 26, 1950; lowest 16.65 below lsd, Nov. 30, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	16.37	June 2	15.88	Oct. 2	16.12	Dec. 18	15.94
Mar. 1	16.25	29	15.73	Nov. 3	16.31	28	15.78
29	15.97	Aug. 30	16.05				

Qc 4. State Highway Department. Lat. 38°33', long. 75°36'. Driven observation water-table well, diameter 1 inch, depth 8 feet. Land-surface datum is about 15 feet above msl. Highest water level 2.11 below lsd, Mar. 29 and Apr. 30, 1951; lowest 3.04 below lsd, Oct. 2, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.50	Apr. 30	2.11	Aug. 1	2.60	Nov. 3	2.91
28	2.66	June 1	2.32	31	2.90	28	2.68
Mar. 29	2.11	29	2.31	Oct. 2	3.04	Dec. 28	2.15

Rf 1. Harvey Collins. Lat. 38°28', long. 75°20'. Gumboro-Selbyville Road. Driven observation water-table well, diameter 12 inches, depth 6 feet. Land-surface datum is 39.0 feet above msl. Highest water level 38.9 above msl, Aug. 4, 1948; lowest well dry summers, 1949-51. Records available: 1947-51.

Month-end water levels, above msl, from hydrograph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	32.6	Apr. 30	33.9	July 31	33.5	Oct. 31	(f)
Feb. 29	33.9	May 31	34.1	Aug. 31	(f)	Nov. 30	33.6
Mar. 31	34.3	June 30	33.6	Sept. 30	(f)	Dec. 31	35.0

f Dry.

Rf 2. Harvey Collins. Lat. 38°28', long. 75°20'. 1 mile east of Gumboro, Gumboro-Selbyville Road. Driven observation water-table well, diameter 12 inches, depth 9 feet. Land-surface datum is 36.7 feet above msl. Highest water level 36.7 above msl, Mar. 8, 1948; lowest 31.1 above msl, Sept. 20, 1950. Records available: 1947-51.

Month-end water levels, above msl, from hydrograph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	33.8	Apr. 30	34.0	July 31	33.1	Oct. 31	31.6
Feb. 29	34.3	May 31	33.9	Aug. 31	32.5	Nov. 30	33.9
Mar. 31	35.3	June 30	33.7	Sept. 30	31.7	Dec. 31	35.0

INDIANA

By G. E. Davis, B. W. Swartz, and P. E. Ward

Scope of Water-Level Program

The observation-well program in Indiana was continued during 1951 in cooperation with the State Department of Conservation, Division of Water Resources. On December 31, 1951 the observation-well program consisted of 169 wells, of which one was measured daily, 116 weekly, 4 semimonthly, 2 monthly, and 6 at irregular intervals. Continuous records were obtained on 41 wells equipped with recording gages. The location of these wells is shown in figure 3.

Precipitation

The total precipitation for Indiana during 1951 was 42.73 inches. This was 3.50 above normal and 11.55 inches below the 1950 record-breaking total. Totals of 40.23 and 40.64 inches of precipitation were reported for the northern and central thirds and 47.77 inches was reported in the southern third of the State. The average precipitation for the State was above normal for the months of January, February, June, July, November, and December, and below normal during March, April, May, August, September, and October. December, the wettest month of the year with 4.76 inches of precipitation, was 2.04 inches above average and August, the driest month with 2.60 inches, was 0.72 inches below normal. November 1951 was the coldest November of the 65 years of record. The average temperature for this month was 35.3 degrees, which was 6.9 degrees below the normal. All other average monthly temperatures for the year were above normal.

Interpretation of Water-Level Fluctuations

Water levels in Indiana were above normal at the start of 1951, the result of the record-breaking 1950 precipitation, and in general remained above normal throughout the year. The fluctuations of water levels observed in wells completed in the deeper rock formations indicated, after considerable lag, the normal seasonal changes in recharge rates and larger departures from average. During 1951 the water levels in rock wells were at high stages in April and May, and in late November and December reached the lowest levels during the year. The average total fluctuation in rock wells during the year was about 4.5 feet with the greatest total fluctuations occurring in wells in southern Indiana. In contrast, water level fluctuations in shallow wells constructed in the unconsolidated materials were observed to be more consistent and to respond readily to changes in rates of recharge.

On January 1, 1951 water levels in shallow wells in northern Indiana were recovering rapidly from the seasonal low levels of October and November 1950. Water levels continued to rise at a moderate rate from January through April. During these months near-normal precipitation and temperature prevailed and conditions were favorable for recharge, with the result that many wells reached their high levels for the year 1951, in April. May and June also were months of near-normal temperature and precipitation but water levels declined as evapotranspiration losses increased. Rainfall during July was 1.78 inches above normal and a temporary rise of water levels was recorded in many observation wells. Upward trends were reversed during August and September and most wells declined to their lowest level for the year 1951, by mid-October. Above normal precipitation during October, combined with a reduction in evapotranspiration losses, were sufficient to check the downward trends of water levels and by the end of the month most water levels were beginning to rise again. Longer periods of low temperatures than are usual for November and about normal precipitation effectively decreased the rate of recovery in most wells. During December precipitation was above normal, but it fell largely as snow on frozen ground, with the result that water levels were nearly stationary for the month. At the end of the year water levels were generally lower than at the end of December 1950 but still they were slightly above normal. The average total fluctuation of water levels in shallow wells in northern Indiana during 1951 was about 5.8 feet. Water levels in shallow wells in central Indiana which in general showed an upward trend at the end of 1950 continued upward throughout January and February, the result of above normal precipitation and temperature. Throughout March and early April this rise was very slow but continued even though precipitation was below normal for both months. By mid-April water levels had reached the highest level of the 1951 year. Normal seasonal increases in losses to evapotranspiration and the below-normal precipitation during the remainder of April and in May, resulted in a

downward trend of water levels in central Indiana. Precipitation was sufficiently above normal during June and July to temporarily reverse this downward trend in water levels. During the period August through mid-October precipitation was below normal and water levels continued their trend downward. However, in a number of wells there was a recovery of water levels by the end of the month. The lowest water levels of the year occurred in most wells during late October and early November. November and December were months of above-normal precipitation and water levels continued to rise at a very slow rate, because temperatures were well below normal during November and much of the precipitation fell as snow on frozen ground. Water levels at the end of the year were somewhat lower than at the end of 1950 but near normal for the period of record. The average annual range of water levels in shallow wells in central Indiana was about 7.8 feet.

Water levels in shallow wells in southern Indiana were rising at the beginning of 1951, a normal condition. Above-normal precipitation during the first 3 months of the year brought about a rapid rise in water levels. The highest water levels were recorded in February and March. Water levels were maintained at a relatively high level until April and then began to decline. The rate of decline was rapid during April and May, due to a deficiency in rainfall and the normal seasonal increase in losses due to evapotranspiration. Rainfall was below normal April through October with the exception of June, at which time precipitation was above normal. The short duration of this above-normal precipitation was not enough to stop the downward trend of the water levels. Water levels continued downward reaching their lowest stages in October and early November. Near-drought conditions at the close of October were relieved by above-normal precipitation in most of November and December. The precipitation during mid-November and early December brought a reversal in the trend of water levels so that by the end of the year the water levels had recovered and had risen to about normal. The average maximum fluctuations of water levels in shallow wells in southern Indiana was 9.1 feet.

Figure 4 gives the graphs of water levels in three shallow wells in unconsolidated materials. These fluctuations are not caused by pumping. Well Steuben 1 is in the extreme northeast corner of Indiana; Montgomery 1 in the central region; and Clark 1, near the Ohio River, in southern Indiana.

Figure 5 graphically shows the fluctuations of the water levels in two wells that are typical of the downtown area of Indianapolis which are affected by nearby pumped wells. Although the water levels of these two wells are slightly below the 1950 levels, they are above the average for the period of record.

Well-Numbering System

Observation wells in Indiana are designated by a letter symbol corresponding to the county name, followed by a number for successive wells. The original numbers of several wells in Dearborn and St. Joseph Counties have been retained due to the length of previously published records.

Well Descriptions and Water-Level Measurements

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

Adams County

Ad 1. City of Decatur. Park and North Fifth Sts., Decatur. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 28 N., R. 14 E. Drilled unused artesian well in limestone, diameter 8 inches, depth 244 feet, cased to 40 feet. Land-surface datum is 802.49 feet above msl. Measurements made by personnel of Water Dept. Nearby well being pumped. Highest water level 36.67 below lsd, June 25, 1951; lowest 55.90 below lsd, Nov. 10, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	37.25	Mar. 31	41.50	July 8	38.00	Oct. 13	40.17
6	38.33	Apr. 8	40.13	15	38.33	20	38.33
13	43.50	14	40.42	21	38.50	27	41.25
20	41.67	21	46.58	28	38.42	Nov. 3	41.75
30	42.17	28	40.50	Aug. 4	45.67	10	40.33
Feb. 5	41.58	May 7	39.50	11	39.00	19	41.67
12	42.08	12	38.83	28	39.22	24	41.58
19	46.50	20	37.17	Sept. 4	39.00	Dec. 1	41.25
25	40.92	28	41.83	8	39.25	10	39.42
Mar. 3	42.17	June 11	41.28	15	39.67	17	43.08
10	45.50	16	38.08	22	40.00	23	41.33
18	41.50	25	36.67	29	39.83	31	45.42
24	40.33	30	37.83				

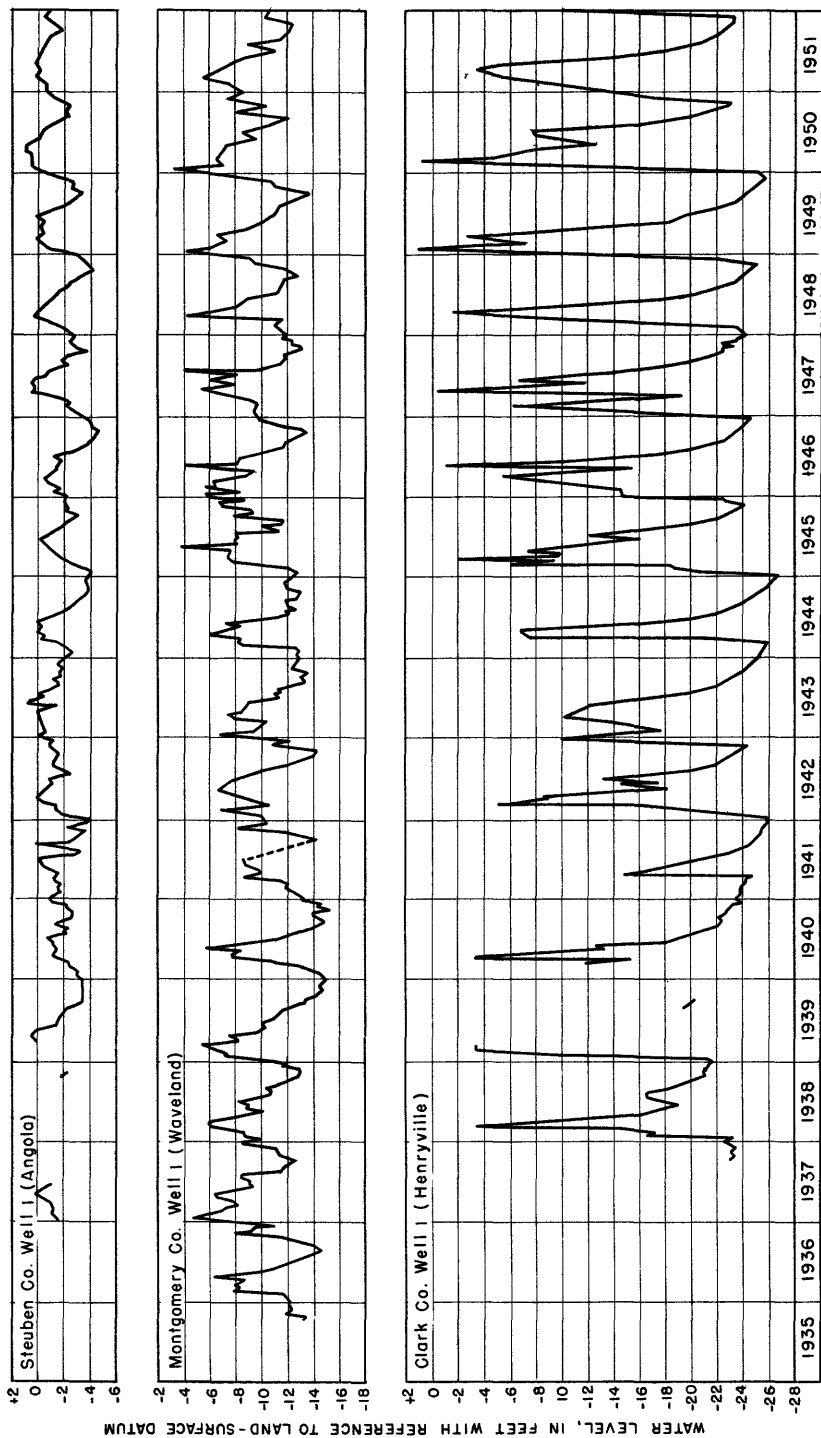


Figure 4.--Water levels in wells Steuben 1, Montgomery 1, and Clark 1, Indiana.

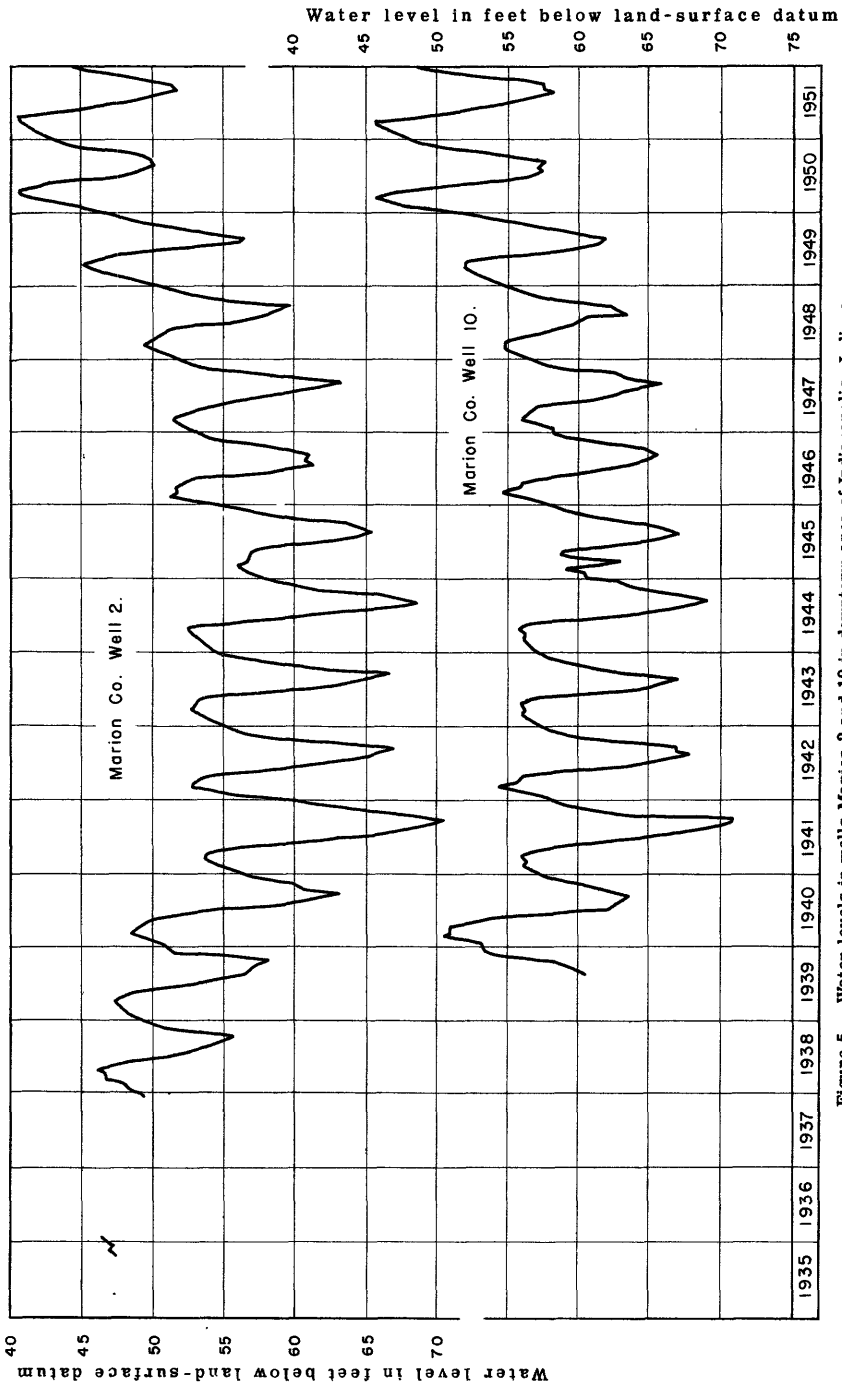


Figure 5. -- Water levels in wells Marion 2 and 10 in downtown area of Indianapolis, Indiana.

Ad 2. City of Decatur. Seventh and Dayton Sts. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 28 N., R. 14 E. Drilled unused artesian well in limestone, diameter 6 inches, depth 250 feet, cased to 40 feet. Land-surface datum is 798.63 feet above msl. Measurements made by personnel of Water Dept. Nearby well being pumped. Highest water level 29.63 below lsd, July 28, 1951; lowest 83.71 below lsd, July 13, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	56.63	Mar. 31	54.47	July 8	35.63	Oct. 13	35.47
6	57.47	Apr. 8	39.84	15	34.63	20	33.63
13	67.72	14	55.22	21	34.80	27	39.30
20	41.05	21	61.47	28	29.63	Nov. 3	36.38
30	61.05	28	38.13	Aug. 4	32.80	10	35.47
Feb. 5	40.13	May 7	36.88	11	35.22	19	40.05
12	59.38	12	39.30	28	34.88	24	36.22
19	59.47	20	35.13	Sept. 4	35.63	Dec. 1	39.53
25	40.30	28	40.47	8	34.97	10	37.30
Mar. 3	38.22	June 11	33.88	15	40.47	17	36.30
10	39.80	16	34.22	22	35.38	23	35.30
18	38.76	25	44.13	29	35.47	31	39.47
24	39.05	30	34.38	Oct. 6	37.47		

Ad 3. St. Joseph Cemetery. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 28 N., R. 14 E. Drilled unused artesian well in limestone, diameter 6 inches, reported depth 210 feet, cased to 40 feet. Highest water level 20.30 below lsd, Feb. 14, 1950; lowest 29.65 below lsd, Oct. 21, Nov. 2, 1948. Records available: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.97	25.55	24.26	.....	24.52	25.60	26.16	.....	.....	28.80	28.46	27.85
2	25.88	25.80	24.03	24.16	24.70	25.67	26.31	h27.08	.....	28.77	28.46	27.84
3	24.60	h25.75	24.13	24.39	24.70	25.75	26.33	.....	.....	28.79	28.39	27.81
4	22.81	25.64	24.31	24.55	24.70	25.74	26.25	.....	.....	28.81	28.30	27.62
5	23.91	.....	24.64	24.66	24.79	25.76	26.32	.....	.....	28.85	28.50	26.43
6	24.30	.....	24.75	24.80	24.96	25.77	26.46	.....	h28.31	28.96	28.48	26.46
7	24.66	.....	24.70	24.72	25.10	25.76	26.56	.....	.....	28.36	28.83	28.20
8	24.86	h25.94	24.55	24.64	25.15	25.76	26.66	.....	.....	28.44	28.95	28.32
9	25.05	26.00	24.90	24.29	25.19	25.72	26.42	h27.24	.....	28.43	28.95	28.33
10	25.18	26.05	25.17	23.52	25.25	25.79	26.32	.....	.....	28.36	28.98	28.29
11	25.26	25.81	25.15	23.82	h22.13	25.86	26.31	.....	.....	28.47	28.94	28.28
12	25.46	25.20	25.05	23.60	.....	25.92	26.29	.....	.....	28.48	28.97	28.17
13	25.55	23.88	24.86	23.41	.....	25.87	.....	.....	.....	28.47	29.06	28.05
14	25.38	24.50	23.95	23.42	.....	25.75	.....	.....	.....	28.52	29.02	27.82
15	25.12	24.91	23.59	23.42	.....	25.77	26.49	.....	.....	28.58	28.97	27.55
16	25.37	24.99	23.59	23.67	.....	25.80	26.53	h27.58	.....	28.62	29.01	27.64
17	25.30	24.63	24.06	24.11	h24.80	25.84	26.61	.....	.....	28.61	29.03	27.75
18	25.04	24.46	24.31	24.39	.....	25.93	26.61	.....	.....	28.61	29.08	27.86
19	e24.18	24.08	24.58	24.50	.....	26.12	26.57	.....	.....	28.65	29.07	27.93
20	23.87	23.91	24.68	24.84	.....	25.98	26.67	.....	.....	.....	29.05	28.00
21	24.35	22.30	24.73	24.93	.....	26.13	26.76	.....	.....	28.69	28.99	27.94
22	24.84	22.87	24.77	24.00	.....	25.97	26.70	.....	.....	28.68	29.02	27.89
23	24.87	23.37	24.43	23.89	.....	26.02	26.82	h27.98	.....	28.75	29.09	27.89
24	25.06	23.58	24.15	24.28	h25.14	26.01	26.80	27.99	.....	28.75	28.89	27.87
25	25.25	23.82	24.65	24.42	25.15	26.14	26.81	27.99	.....	28.73	29.05	27.89
26	25.34	24.11	24.92	24.65	25.21	26.08	26.85	28.00	.....	28.76	29.00	27.69
27	25.23	24.16	24.91	24.77	25.10	26.08	.....	27.99	.....	28.66	28.94	27.90
28	25.50	24.54	24.84	24.69	25.14	26.08	.....	27.99	.....	28.80	28.70	27.78
29	25.66	.....	h24.18	24.36	25.32	26.16	.....	28.05	.....	28.91	28.65	27.89
30	25.84	.....	.....	24.18	25.45	26.15	.....	28.10	.....	28.83	28.52	27.88
31	25.75	.....	.....	.....	25.58	.....	.....	.....	.....	.....	28.46	24.59

e Estimated.
h Tape measurement.

Ad 4. McConnell and Son Co. Jackson and Second St., Decatur. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 27 N., R. 14 E. Drilled unused artesian well in limestone, diameter 4 inches, depth 76 feet, cased to 40 feet. Land-surface datum is 795.89 feet above msl. Nearby well being pumped. Highest water level 24.65 below lsd, Feb. 18, 1950; lowest 38.85 below lsd, Sept. 22, 23, 25, 26, 1951. Records available: 1950-51.

Daily lowest water level from recorder graph *

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30.93	30.94	31.44	30.37	32.59	34.49	34.60	37.10	38.30
2	30.61	e31.27	31.64	29.25	32.58	35.35	34.80	37.05	38.25
3	30.23	e31.27	30.86	29.19	32.30	35.37	35.05	37.00	38.25

Ad 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
4	30.31	31.05	30.43	29.83	31.93	34.84	35.05	37.05	38.25
5	30.22	31.25	30.38	29.83	31.80	34.52	34.95	36.95	38.25
6	29.65	31.25	30.16	30.11	31.42	34.48	34.95	36.80	38.35
7	29.54	31.58	30.11	30.11	31.58	34.41	35.60	36.75	38.45
8	29.35	31.73	30.53	30.43	31.80	34.34	35.50	37.10	38.40
9	29.38	31.83	31.16	30.44	31.24	34.38	35.50	37.10	38.35
10	29.14	31.83	32.00	30.81	31.90	34.27	35.60	37.20	38.40
11	28.96	31.40	32.21	30.81	32.11	34.43	35.55	37.35	38.50
12	29.06	31.23	32.13	30.40	32.06	34.43	35.50	37.60	38.45
13	28.96	31.28	31.10	30.33	31.46	34.54	35.45	37.55	38.55
14	28.25	31.05	30.62	30.42	30.93	34.50	35.70	37.50	38.65
15	28.30	30.69	30.42	30.47	31.20	34.15	36.00	37.55	38.65
16	28.60	30.57	30.42	30.62	31.52	33.80	35.80	37.55	38.65
17	28.50	30.05	31.22	30.65	31.90	34.35	36.00	37.45	38.60
18	29.11	29.96	31.43	30.65	32.46	34.30	36.00	37.50	38.70
19	29.35	29.59	31.40	30.99	32.53	34.30	35.95	37.50	38.75
20	29.24	29.59	30.84	31.22	32.65	34.90	36.00	37.50	38.80
21	29.62	29.32	30.87	31.22	32.55	34.90	36.45	37.60	38.80
22	29.62	29.64	30.87	31.25	32.83	34.45	36.75	37.65	38.85
23	29.15	29.82	30.65	31.29	33.26	34.45	36.65	37.70	38.85
24	29.54	29.82	30.69	31.32	33.38	35.20	36.55	37.75	38.80
25	29.80	29.66	30.81	31.50	33.43	35.10	36.80	37.75	38.85
26	29.92	.....	30.98	31.88	33.43	35.05	37.00	37.80	38.85
27	30.28	.....	31.25	31.87	32.87	35.05	36.95	37.85	38.80
28	30.56	.....	31.85	31.89	32.82	34.65	36.90	38.00	.....
29	30.93	.....	31.63	32.65	33.52	34.60	37.10	38.05	.....
30	31.06	.....	30.98	32.65	33.51	34.50	37.05	38.20	.....
31	30.89	.....	30.96	.....	33.28	.....	37.00	38.30	.....

e Estimated.

* No record for October, November, and December.

Ad 5. Eleanor Reppert. Van Wert and Belmont Rds., Decatur. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 28 N., R. 14 E. Drilled unused artesian well in limestone, diameter 6 inches, depth 144 feet, cased to 30 feet. Land-surface datum is 790.85 feet above msl. Nearby well being pumped. Highest water level 14.20 below lsd, Jan. 13, 1950; lowest 34.67 below lsd, Dec. 22, 1951. Records available: 1950-51.

Daily lowest water level below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	24.17	.....	.....	.....	29.50	.....	33.50	33.95	34.65	34.30
2	.....	.....	.....	.....	.....	.....	.....	31.80	33.55	34.10	34.50	34.20
3	.....	h21.27	.....	.....	26.01	.....	.....	.....	33.40	34.25	.....	34.10
4	h20.45	21.29	.....	.....	25.80	.....	.....	.....	33.35	34.25	.....	34.25
5	.....	21.52	.....	h19.68	.....	.....	h27.20	.....	33.50	34.45	.....	.....
6	.....	.....	.....	.....	.....	.....	.....	.....	33.65	34.45	.....	33.95
7	.....	.....	.....	.....	.....	h27.15	.....	.....	33.75	34.15	.....	33.80
8	.....	h21.98	21.89	.....	25.90	.....	.....	.....	33.75	34.15	34.40	33.80
9	.....	.....	23.57	.....	26.66	.....	30.00	h30.05	33.55	.....	34.30	33.70
10	.....	.....	24.90	.....	.....	.....	30.25	.....	33.40	.....	34.20	.....
11	h17.88	.....	25.14	.....	h22.78	.....	29.50	.....	33.55	34.40	34.35	.....
12	.....	.....	.....	h21.64	.....	.....	30.30	.....	33.75	34.45	34.25	.....
13	.....	.....	.....	.....	.....	.....	30.30	.....	33.90	34.45	34.50	.....
14	.....	.....	.....	.....	.....	h23.54	30.20	32.20	34.00	34.05	34.65	.....
15	.....	h22.54	h22.90	.....	.....	.....	29.55	32.25	34.00	34.25	34.55	.....
16	.....	20.72	.....	.....	.....	.....	30.20	32.55	33.90	34.45	34.50	.....
17	.....	e19.94	24.00	.....	h21.99	.....	30.65	32.65	33.60	34.50	.....	.....
18	h18.78	.....	24.26	.....	.....	.....	30.65	32.75	33.95	34.50	.....	.....
19	19.04	.....	.....	h21.97	.....	.....	31.05	32.80	34.00	34.60	.....	.....
20	18.83	.....	.....	.....	.....	.....	31.05	.....	34.10	34.60	.....	.....
21	.....	.....	.....	.....	.....	h27.43	31.25	.....	34.10	34.65	.....	.....
22	.....	.....	h20.64	.....	.....	.....	30.95	.....	34.20	34.55	.....	h34.67
23	.....	h21.63	.....	.....	.....	.....	31.20	33.00	33.30	34.55	.....	.....
24	.....	21.82	.....	.....	h26.56	27.90	31.30	33.10	33.55	34.60	34.20	.....
25	h19.55	21.12	.....	.....	.....	27.45	31.55	33.10	33.95	34.40	.....	.....
26	19.86	21.13	.....	h23.42	.....	.....	31.55	33.10	33.95	34.45	.....	.....
27	20.28	23.05	.....	.....	.....	.....	31.65	32.85	34.10	34.45	.....	.....
28	20.57	23.58	.....	.....	.....	.....	31.85	33.15	34.15	34.25	.....	h34.54
29	20.92	.....	h21.04	.....	.....	h27.14	31.85	33.30	34.20	34.25	.....	.....
30	.....	.....	.....	.....	.....	.....	.....	33.35	34.15	34.50	34.10	.....
31	.....	.....	.....	h23.98	.....	.....	.....	33.45	.....	34.55	.....	.....

e Estimated.

h Tape measurement.

Allen County

Al 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: 1944-51.

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	9.30	6.83	8.26	8.49	9.12	9.24	9.65	10.55	11.15	10.78	10.28
2	9.29	9.37	7.08	8.28	8.48	9.18	9.30	9.70	10.57	11.17	10.78	10.27
3	9.04	9.42	7.10	8.28	8.46	9.23	9.35	9.72	10.59	11.18	10.77	10.27
4	8.88	9.41	7.29	8.30	8.45	9.27	9.40	9.78	10.62	11.22	10.72	10.24
5	8.83	9.45	7.40	8.36	8.48	9.32	9.46	9.83	10.66	11.24	10.77	10.14
6	8.71	9.48	7.49	8.41	8.51	9.33	9.54	9.85	10.68	11.27	10.80	10.11
7	8.69	9.47	7.40	8.42	8.54	9.35	9.59	9.81	10.72	11.24	10.72	10.10
8	8.64	9.54	7.48	8.41	8.56	9.37	9.62	9.88	10.76	11.24	10.74	10.13
9	8.68	9.58	7.62	8.45	8.59	9.47	9.53	9.93	10.77	11.26	10.76	10.07
10	8.70	9.61	7.73	8.27	8.60	8.52	9.25	9.98	10.78	11.28	10.73	10.07
11	8.73	9.57	7.76	8.28	8.35	8.55	9.28	10.03	10.80	11.28	10.69	10.03
12	8.83	9.44	7.78	8.21	8.27	8.60	9.26	10.05	10.84	11.28	10.65	10.03
13	8.89	9.37	7.79	8.26	8.22	8.65	9.18	10.09	10.87	11.29	.....	10.08
14	8.88	9.39	7.81	8.25	8.19	8.71	9.18	10.12	10.89	11.28	.....	10.12
15	8.85	9.36	7.84	8.08	8.17	8.75	9.17	10.15	10.92	11.28	.....	10.09
16	8.98	9.31	7.88	8.08	8.16	8.78	9.16	10.05	10.92	11.29	10.48	10.17
17	8.99	9.25	7.93	8.08	8.22	8.82	9.19	10.12	10.92	11.22	10.46	10.16
18	8.99	9.21	7.93	8.09	8.31	8.87	9.24	10.15	10.95	11.21	10.43	10.06
19	9.01	8.95	7.97	8.10	8.39	8.93	8.95	10.17	10.97	11.19	10.41	10.18
20	8.97	8.60	7.99	8.23	8.43	8.92	9.04	10.18	11.00	11.18	10.40	10.12
21	9.02	8.29	8.03	8.27	8.48	9.01	9.11	10.18	11.02	11.13	10.38	10.07
22	9.02	7.70	8.10	8.21	8.56	9.01	9.14	10.23	11.03	11.10	10.35	10.17
23	8.93	6.95	8.09	8.32	8.63	9.04	9.20	10.28	11.05	11.10	10.34	10.16
24	8.97	6.30	8.16	8.24	8.71	9.07	9.27	10.30	11.06	10.95	10.33	10.19
25	9.05	5.98	8.16	8.24	8.77	9.11	9.32	10.33	11.07	10.91	10.32	10.15
26	9.10	6.16	8.29	8.41	8.81	9.15	9.38	10.33	11.09	10.88	10.27	10.13
27	9.07	6.46	8.31	8.46	8.83	9.18	9.43	10.34	11.09	10.86	10.33	10.18
28	9.16	6.73	8.33	8.44	8.88	9.12	9.46	10.37	11.13	10.81	10.31	10.12
29	9.21		8.32	8.44	8.97	9.20	9.52	10.40	11.15	10.81	10.32	10.07
30	9.28		8.29	8.48	9.03	9.23	9.56	10.44	11.15	10.79	10.31	10.04
31	9.29		8.29		9.08		9.60	10.50		10.78		9.97

Bartholomew County

Ba 2. V. E. Sprouse Co., Inc. 1804 E. 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 16.14 below lsd, Dec. 4, 1951. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.03	13.26	12.40	12.44	12.57	13.33	13.82	14.40	15.01	15.53	15.85	16.08
2	14.05	13.32	12.44	12.45	12.59	13.35	13.83	14.42	15.03	15.54	15.86	16.10
3	14.04	13.36	12.42	12.45	12.61	13.38	13.84	14.44	15.06	15.56	15.87	16.12
4	13.96	13.36	12.48	12.47	12.62	13.40	13.84	14.43	15.07	15.57	15.88	16.14
5	13.92	13.40	12.51	12.50	12.64	13.42	13.87	14.49	15.08	15.59	15.89	16.07
6	13.86	13.42	12.53	12.52	12.69	13.44	13.89	14.51	15.10	15.61	15.90	16.04
7	13.83	13.43	12.53	12.52	12.73	13.45	13.90	14.53	15.12	15.62	15.88	16.01
8	13.80	13.45	12.57	12.53	12.75	13.47	13.91	14.55	15.14	15.63	15.88	15.94
9	13.79	13.48	12.63	12.54	12.77	13.49	13.92	14.56	15.16	15.64	15.90	15.87
10	13.78	13.51	12.67	12.53	12.79	13.52	13.94	14.58	15.17	15.65	15.91	15.76
11	13.78	13.52	12.69	12.53	12.79	13.55	13.95	14.60	15.19	15.66	15.91	15.62
12	13.80	13.51	12.71	12.50	12.83	13.57	13.97	14.62	15.21	15.68	15.92	15.50
13	13.78	13.42	12.71	12.49	12.86	13.58	13.98	14.63	15.23	15.69	15.92	15.40
14	13.76	13.41	12.73	12.50	12.89	13.61	14.01	14.65	15.24	15.70	15.90	15.33
15	13.68	13.38	12.76	12.48	12.92	13.62	14.03	14.66	15.26	15.71	15.88	15.29
16	13.61	13.33	12.79	12.49	12.94	13.64	14.05	14.68	15.27	15.71	15.89	15.27
17	13.47	13.30	12.82	12.50	12.96	13.66	14.07	14.70	15.28	15.73	15.90	15.25
18	13.34	13.27	12.83	12.49	12.99	13.68	14.09	14.72	15.30	15.73	15.92	15.23
19	13.24	13.23	12.81	12.47	13.02	13.70	14.10	14.75	.....	15.75	15.94	15.23
20	13.17	13.22	12.78	12.51	13.04	13.71	14.13	14.77	15.33	15.75	15.96	15.24

Ba 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	13.15	13.10	12.72	12.52	13.06	13.74	14.16	14.78	15.35	15.76	15.99	15.24
22	13.13	13.00	12.69	12.47	13.08	13.76	14.18	14.81	15.36	15.78	16.02	15.24
23	13.10	12.82	12.63	12.49	13.10	13.79	14.21	14.83	15.38	15.78	16.05	15.24
24	13.09	12.65	12.60	12.46	13.12	13.81	14.23	14.85	15.40	15.79	16.04	15.23
25	13.11	12.53	12.57	12.43	13.14	13.84	14.26	14.87	15.42	15.80	16.03	15.21
26	13.12	12.45	12.54	12.45	13.17	13.85	14.28	14.89	15.44	15.81	16.02	15.19
27	13.12	12.42	12.50	12.49	13.19	13.86	14.30	14.91	15.46	15.82	16.02	15.16
28	13.17	12.41	12.47	12.50	13.21	13.87	14.32	14.93	15.48	15.83	16.03	15.13
29	13.21		12.45	12.51	13.24	13.87	14.34	14.96	15.49	15.83	16.05	15.09
30	13.24		12.44	12.54	13.28	13.83	14.36	14.97	15.51	15.84	16.06	15.04
31	13.25		12.45		13.31		14.38	14.99		15.85		15.01

h Tape measurement.

Benton County

Be 1. Northern Indiana Public Service Co. South Van Buren St., Fowler. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 25 N., R. 8 W. Drilled unused well, diameter 10 inches, depth 114 feet. Measurements made by W. E. Furr. Nearby well being pumped. Highest water level 36.39 below lsd, May 3, 1951; lowest 49.10 below lsd, Nov. 4, 1949. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	39.54	Apr. 5	37.10	July 6	38.06	Oct. 13	39.39
26	38.95	13	36.72	Aug. 4	38.52	20	44.46
Feb. 2	38.80	May 3	36.39	10	38.10	26	39.91
8	39.41	11	36.70	18	40.73	Nov. 9	40.47
16	38.85	25	36.56	24	40.70	23	39.82
Mar. 2	39.38	June 1	36.52	31	41.79	30	39.46
9	39.47	8	37.48	Sept. 8	40.49	Dec. 14	43.92
16	38.53	15	37.70	21	39.57	21	44.09
23	37.83	22	39.82	28	39.24	28	38.98
30	37.30	29	39.19	Oct. 6	39.70		

Be 2. Town of Boswell. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 24 N., R. 9 W. Drilled unused well in gravel, diameter 10 inches, depth 37 feet. Nearby well being pumped. Highest water level 5.02 below lsd, Jan. 21, 1949; lowest 20.80 below lsd, Nov. 9, 1950. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	16.21	Apr. 5	15.84	July 6	11.75	Oct. 4	14.86
11	14.91	12	15.00	12	11.16	12	14.76
18	17.17	19	13.50	19	10.10	18	15.11
25	17.18	26	14.08	26	12.02	25	14.61
Feb. 1	17.16	May 3	10.60	Aug. 2	12.63	Nov. 1	14.19
8	15.85	10	9.54	11	13.43	9	14.28
15	15.68	18	9.40	16	13.14	15	14.00
23	16.57	23	10.43	23	13.58	23	11.75
Mar. 1	16.44	31	10.93	30	13.75	29	12.59
9	15.98	June 7	10.53	Sept. 7	13.43	Dec. 7	13.16
15	15.92	14	11.12	13	14.19	13	11.68
22	15.10	21	11.21	20	14.14	19	11.19
30	15.83	28	11.17	27	14.69	28	9.64

Blackford County

Bf 1. William Wise. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, T. 24 N., R. 10 E. Dug unused well, diameter 42 inches, depth 18 feet, cribbed with brick. Highest water level 0.70 below lsd, Jan. 14, 1950; lowest 7.98 below lsd, Dec. 28, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.76	Apr. 7	1.67	July 7	4.18	Oct. 6	6.72
13	2.93	15	1.49	14	4.36	13	6.91
20	1.44	21	1.41	21	5.44	20	7.06
27	1.42	28	1.42	28	5.01	27	7.09
Feb. 3	2.64	May 5	2.06	Aug. 4	5.25	Nov. 3	7.14
10	2.96	12	1.23	11	5.42	10	7.33
17	2.79	19	2.33	18	5.62	17	7.44
24	1.66	26	2.91	24	5.89	24	7.57
Mar. 3	1.16	June 2	3.13	Sept. 1	6.02	Dec. 1	7.66
10	1.32	9	3.22	8	6.09	8	7.09
17	1.47	16	3.64	15	6.32	15	7.14
24	1.23	23	3.79	22	6.43	22	7.21
Apr. 1	.92	30	4.07	29	6.45	29	4.06

Boone County

Bo 2. Elmer P. Slipher. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4; T. 18 N., R. 1 E. Dug unused well in glacial drift, diameter 36 inches, depth 23 feet, cribbed with brick. Land-surface datum is 957 feet above msl. Measurements made by Fred Price. Highest water level 2.00 below lsd, Apr. 6, 1948; lowest 12.09 below lsd, Sept. 30, 1949. Records available: 1935-42, 1945-51.

Jan. 5	3.33	Apr. 5	4.08	July 6	4.97	Oct. 5	8.81
12	3.54	13	2.61	13	4.39	11	9.00
19	2.88	20	3.53	20	5.45	19	9.20
26	3.87	27	4.26	27	6.18	26	8.65
Feb. 3	5.06	May 4	3.82	Aug. 3	6.55	Nov. 2	8.54
9	5.20	11	2.67	10	6.97	9	8.20
16	3.93	18	4.13	17	7.29	16	4.58
23	3.06	26	5.00	24	7.60	23	6.54
Mar. 2	3.03	June 1	4.17	31	7.98	30	6.40
8	3.61	8	4.12	Sept. 7	8.12	Dec. 7	3.50
16	3.30	15	5.55	14	8.20	14	4.25
23	3.40	22	5.91	21	8.35	21	5.30
30	3.52	29	5.46	28	8.57	28	3.71

Bo 4. Lebanon Utilities Inc. Chicago Ave. and Kersey St., Lebanon. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 19 N., R. 1 W. Drilled unused well in sand and gravel, diameter 8 inches, depth 104 feet. Land-surface datum is 927 feet above msl. Measurements made by Fred Price. Highest water level 23.4 below lsd, Apr. 30, 1950; lowest 74.3 below lsd, Sept. 23, 1949. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	h67.2	72.2	....	66.4	54.2	....	70.0
2	h35.6	h40.6	....	....	72.6	65.8	66.8	54.2	66.2	70.8
3	h41.0	....	....	....	....	72.8	66.4	60.2	59.2	66.4	70.2
4	h42.0	....	72.8	67.2	60.6	59.4	70.8	68.4
5	h39.6	....	....	h41.4	....	....	72.6	71.6	60.8	61.0	69.8	69.8
6	h38.8	....	....	....	72.8	71.8	....	59.2	69.4	71.6
7	72.8	72.6	....	57.6	72.4	70.8
8	h63.0	72.8	72.8	....	56.0	72.4	70.0
9	h34.6	....	....	....	72.2	72.8	....	58.8	71.0	72.2
10	72.3	69.6	....	56.2	70.0	71.8
11	67.4	....	71.6	61.2	....	53.2	67.2	69.2
12	h47.4	....	....	....	67.6	....	72.4	59.0	....	56.2	69.0	68.2
13	h48.4	....	53.2	66.8	70.8	72.8	63.0	....	59.0	69.4	70.0
14	54.8	69.6	72.0	72.8	63.6	....	57.4	71.8	70.2
15	56.2	70.2	71.8	72.8	....	....	57.8	70.8	71.2
16	h44.4	h38.8	43.6	70.8	70.6	71.6	....	....	59.6	72.6	71.8
17	47.6	71.2	66.6	72.8	....	....	59.0	71.0	69.2
18	48.4	73.2	66.2	73.2	62.2	....	62.0	71.2	62.2
19	h39.4	....	....	47.4	73.0	59.0	73.6	56.2	60.2	58.8	71.4	57.0
20	h35.6	....	57.8	67.2	61.0	64.2	52.8	71.2	56.0
21	58.8	67.4	60.2	64.6	52.6	69.6	53.4
22	58.4	66.8	60.0	63.8	57.4	66.8	48.8
23	h40.6	h58.8	....	....	54.0	61.6	61.4	59.4	54.0	66.4	48.2
24	60.6	....	54.8	....	64.0	47.2
25	h52.4	....	59.0	....	57.4	....	69.8	50.6
26	h56.8	....	....	....	....	....	60.8	....	56.8	67.4	70.0	51.6
27	66.0	....	....	....	....	56.2	54.4	69.0	....
28	68.0	....	....	....	....	58.2	53.2	70.4	....
29	70.0	....	72.2	....	....	58.2	46.0	71.4	42.6
30	h31.6	70.4	....	72.0	....	....	47.4	51.0	71.4	53.8
31	64.8	....	....	....	47.6

h Tape measurement.

Bo 10. Formerly Bo 10-A. Lebanon Utilities, Inc. Chicago Ave. and Kersey St., Lebanon. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 19 N., R. 1 W. Drilled unused well in sand and gravel, diameter 12 to 10 inches, depth 216 feet. Measurements made by Fred Price. Land-surface datum is 926 feet above msl. Highest water level 13.59 below lsd, May 10, 1946; lowest 53.50 below lsd, Aug. 15, 1947. Records available: 1945-51.

Daily lowest water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.1	17.1	....	19.6	19.8	29.7	36.2	....	38.6	37.6	27.7	33.2
2	18.0	....	h17.4	19.5	22.4	30.7	37.5	....	36.3	37.3	28.7	....
3	18.9	h17.0	17.0	18.9	21.6	32.9	38.2	....	36.5	38.2	27.7	....
4	17.8	....	16.8	16.7	22.4	32.3	38.3	39.9	36.2	....	26.8	....
5	17.8	....	....	18.0	22.7	30.9	38.2	40.3	37.3	38.5	30.7	....
6	17.7	....	....	18.3	19.0	32.1	38.5	38.5	35.7	38.5	31.1	....
7	17.7	....	20.8	16.2	18.2	32.8	39.5	39.3	35.3	38.2	29.2	....
8	17.6	....	22.0	15.8	17.7	32.4	40.1	39.9	35.2	37.5	31.2	35.0
9	17.5	....	21.0	15.6	17.4	31.7	40.6	....	35.5	37.1	32.4	35.2
10	17.4	....	22.0	17.7	20.6	31.8	40.3	....	35.0	36.9	33.4	35.2
11	17.4	....	20.0	15.9	20.6	30.7	40.5	39.6	36.0	....	33.5	35.2
12	19.6	....	18.3	17.4	17.6	31.2	40.6	40.2	37.4	....	33.3	....
13	17.9	....	17.5	15.5	22.5	31.7	40.8	39.8	36.9	....	33.0	....
14	17.4	16.8	17.0	16.8	25.0	31.6	39.9	39.5	36.8	....	33.4	35.7
15	17.1	16.8	16.8	15.6	26.3	31.5	40.2	39.2	37.1	....	33.5	36.1
16	17.2	16.5	21.2	20.2	28.2	32.8	41.0	39.4	37.2	....	33.9	36.0
17	19.0	17.4	21.8	20.2	28.9	34.5	40.6	39.1	37.1	....	34.4	36.0
18	17.4	16.4	21.0	16.9	28.7	35.3	40.6	39.2	37.2	....	34.6	35.5
19	17.1	16.2	19.6	16.2	28.4	36.0	40.5	40.2	36.9	36.5	34.6	33.6
20	17.1	....	18.1	16.2	24.9	36.6	40.4	39.6	37.1	35.6	34.8	33.6
21	17.3	....	17.5	16.1	28.5	36.9	40.0	39.8	37.0	33.8	35.0	35.1
22	17.2	....	17.2	15.8	28.3	37.3	40.3	39.4	37.6	32.1	35.2	35.7
23	16.9	h17.7	18.8	15.8	28.4	37.7	39.5	38.7	37.7	31.4	35.3	36.0
24	19.3	19.9	17.0	15.7	27.4	38.7	39.6	38.0	37.5	30.6	35.4	36.0
25	17.4	....	16.9	15.4	27.7	38.5	39.0	38.9	37.5	31.0	35.4	34.6
26	17.3	....	16.8	19.8	27.8	38.6	39.4	40.2	37.4	31.0	31.5	35.3
27	17.0	....	16.5	21.5	23.3	37.5	39.5	38.9	37.3	29.5	32.8	35.5
28	19.5	....	17.7	22.1	26.3	37.8	....	38.0	37.4	28.8	33.0	35.0
29	17.7	....	16.1	20.1	26.9	38.6	....	37.2	37.2	28.5	32.9	35.0
30	17.6	....	15.7	21.8	27.9	38.3	....	38.4	37.6	29.3	32.8	34.8
31	17.3	....	15.8	....	27.7	....	....	38.6	....	27.9	....	34.7

h Tape measurement.

Bo 11. Lebanon Utilities, Inc. Chicago Ave. and Kersey St., Lebanon. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 19 N., R. 1 W. Drilled unused well in gravel, diameter 8 inches, depth 193 feet. Measurements made by Fred Price. Nearby well being pumped. Land-surface datum is 928 feet above msl. Highest water level 18.18 below lsd, Mar. 15, 1946; lowest 53.42 below lsd, Aug. 8, 1947. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	23.00	Apr. 5	22.19	July 6	42.17	Oct. 5	41.09
12	23.39	13	21.49	13	43.13	11	39.44
19	22.07	20	21.93	20	43.47	19	36.82
26	22.00	27	25.86	27	41.29	26	33.38
Feb. 3	23.08	May 4	24.07	Aug. 3	42.87	Nov. 2	31.30
9	22.89	11	24.86	10	41.93	9	37.80
16	22.46	18	32.65	17	40.88	16	37.80
23	23.47	26	31.70	24	40.26	23	36.14
Mar. 2	22.93	June 1	34.27	31	39.54	30	36.18
8	23.98	8	35.47	Sept. 7	36.45	Dec. 7	38.58
16	21.48	15	35.07	14	38.93	14	39.14
23	24.90	22	39.58	21	39.73	21	39.47
30	20.78	29	40.55	28	38.95	28	36.28

Bo 13. Lebanon Utilities, Inc. Memorial Park, Lebanon. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 19 N., R. 1 W. Drilled unused well, diameter 5 inches, depth 20 feet. Measurements made by Fred Price. Nearby well being pumped. Land-surface datum is 934 feet above msl. Highest water level 2.33 below lsd, Apr. 14, 1948; lowest 15.70 below lsd, Jan. 10, 1950. Records available: 1945-51.

Jan.	Feb.	Mar.	Apr.	May			
5	11.21	9	11.39	16	9.74	20	8.75
12	11.14	16	10.80	23	8.77	27	9.10
19	10.36	23	9.28	30	9.32	4	8.87
26	10.46	Mar. 2	9.20	Apr. 5	9.63	11	7.63
Feb. 3	11.00	8	9.62	13	8.46	18	7.50

Bo 13--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 26	8.54	June 29	9.89	July 27	10.78	Aug. 24	12.83
June 1	8.64	July 6	9.97	Aug. 3	11.38	31	13.27
8	9.05	13	9.62	10	11.95	Sept. 7	(f)
15	9.20	20	10.02	17	12.29	14	(f)
22	9.83						

f Dry.

Bo 14. Lebanon Utilities, Inc. East and Elm St., Lebanon. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 19 N., R. 1 E. Drilled unused well, diameter 6 inches, depth 143 feet. Land-surface datum is 948 feet above msl. Highest water level 31.85 below lsd, Apr. 14, 1950; lowest 51.09 below lsd, Aug. 5, 1949. Records available: 1945-51.

Jan. 5	34.18	Apr. 5	32.75	July 6	36.61	Oct. 5	37.05
12	33.98	13	32.25	13	36.92	11	37.37
19	33.53	20	33.03	20	37.33	19	36.54
26	33.48	27	32.92	27	36.96	26	37.34
Feb. 3	33.58	May 4	33.27	Aug. 3	36.87	Nov. 2	37.44
9	33.70	11	33.00	10	37.47	9	37.78
16	33.47	18	34.00	17	36.30	16	36.81
23	33.64	26	34.22	24	37.17	23	35.75
Mar. 2	33.15	June 1	34.70	31	36.78	30	38.78
8	33.14	8	35.20	Sept. 7	37.06	Dec. 7	38.64
16	32.56	15	35.79	14	36.92	14	38.49
23	32.79	22	35.70	21	37.10	21	38.16
30	32.70	29	35.74	28	37.38	28	37.25

Bo 16. Leland H. Dale. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 18 N., R. 1 W. Dug unused well in glacial drift, diameter 40 inches, depth 19 feet, cribbed with brick. Land-surface datum is 952 feet above msl. Highest water level 0.04 below lsd, Mar. 27, 1950; lowest 11.00 below lsd, Nov. 1, 1948. Records available: 1946-51.

Jan. 10	3.07	Apr. 9	1.84	July 9	4.66	Oct. 1	7.15
15	2.89	16	1.14	15	4.73	8	6.19
Feb. 5	3.43	23	2.64	23	4.99	15	7.53
12	3.64	30	2.96	Aug. 5	5.61	21	7.61
19	2.84	May 7	3.39	13	5.83	29	7.62
Mar. 1	.83	14	2.91	20	6.09	Nov. 5	7.66
5	1.25	29	3.72	27	6.37	12	7.63
12	2.14	June 11	3.99	Sept. 3	6.62	19	7.14
19	1.13	19	4.27	14	5.77	26	6.56
26	2.09	25	4.52	19	6.85	Dec. 10	4.42
Apr. 2	2.05	July 4	4.68	24	7.01	31	1.63

Brown County

Br 3. State of Indiana. Brown County State Park. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 8 N., R. 3 E. Dug unused well, diameter 4 feet, depth 15 feet, cribbed with rock. Measurements made by Earl Rose. Land-surface datum is 1,052.67 feet above msl. Highest water level 0.3 above lsd, Feb. 2, 1943; lowest 9.84 below lsd, Nov. 2, 1947. Records available: 1936-51.

Jan. 8	2.08	Apr. 9	1.85	July 9	6.23	Oct. 8	9.48
15	1.08	16	2.19	16	6.91	15	9.49
22	2.45	23	2.56	23	7.73	22	9.50
29	3.20	30	3.62	30	8.17	29	9.52
Feb. 5	4.65	May 7	4.85	Aug. 6	8.65	Nov. 5	9.52
12	2.49	14	3.80	13	9.03	12	9.42
19	1.24	21	5.58	20	9.25	19	9.12
26	2.16	28	6.78	27	9.32	26	8.37
Mar. 5	2.16	June 4	7.80	Sept. 3	9.36	Dec. 3	8.18
12	2.76	11	8.42	10	9.38	10	1.48
19	1.24	18	8.60	17	9.40	17	2.60
26	1.91	25	8.70	24	9.43	24	2.09
Apr. 2	2.08	July 2	5.76	Oct. 1	9.45	31	1.52

Carroll County

Ca 1. Roy R. Richter. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 25 N., R. 1 W. Dug unused well in glacial drift, diameter 42 inches, depth 12 feet, cribbed with stone. Highest water level 2.72 below lsd, Mar. 16, 1946; lowest Dry Oct. 1, 8, 1949. Records available: 1945-51.

Ca 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	8.82	Apr. 9	6.08	July 9	4.70	Oct. 8	11.60
8	6.30	16	4.47	16	6.58	15	11.90
15	7.18	23	5.81	23	7.20	22	11.90
22	6.89	30	3.90	30	8.29	29	12.00
29	7.43	May 7	6.33	Aug. 6	8.80	Nov. 5	11.40
Feb. 5	7.89	14	4.68	13	9.37	12	10.75
12	6.35	21	6.52	20	9.80	19	10.55
19	4.85	28	6.48	27	10.02	26	10.45
26	4.11	June 4	7.41	Sept. 3	10.02	Dec. 3	10.80
Mar. 5	5.72	11	7.45	10	10.75	10	10.45
12	5.90	18	7.20	17	10.90	17	10.59
19	4.87	25	8.80	24	10.88	24	10.65
26	5.89	July 2	8.20	Oct. 1	11.00	31	4.90
Apr. 2	6.69						

Clark County

Cl 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. Measurements made by Kenneth E. Cook. Highest water level 0.65 below lsd, Jan. 24, 1949, Jan. 14, 1951; lowest 26.69 below lsd, Dec. 31, 1944. Records available: 1936-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.60	7.30	7.20	3.00	8.00	15.10	18.70	20.95	22.05	22.75	23.40	23.30
2	15.75	7.95	7.25	2.75	8.45	15.25	18.80	21.00	22.10	22.80	23.40	23.30
3	15.45	8.60	7.40	3.60	8.85	15.40	18.90	21.05	22.10	.....	23.40	23.35
4	2.80	9.10	4.60	4.45	9.20	15.50	19.00	21.05	22.15	22.80	23.45	23.40
5	5.65	9.65	4.80	5.25	9.55	15.65	19.10	21.10	22.15	22.80	23.45	20.90
6	6.95	10.20	5.55	6.00	9.95	15.80	19.20	21.15	22.20	22.85	23.50	19.50
7	7.70	7.60	6.20	6.50	10.35	15.90	19.30	21.20	22.20	22.85	23.50	18.00
8	8.30	6.15	6.75	2.35	10.65	16.05	19.40	21.25	22.25	22.90	23.50	15.75
9	8.90	6.85	7.35	2.90	10.90	16.15	19.45	21.25	22.30	22.90	23.50	14.45
10	9.40	7.50	7.85	3.65	11.10	16.30	19.55	21.30	22.30	22.95	23.55	13.70
11	7.95	8.05	8.30	4.40	11.30	16.45	19.65	21.35	22.30	22.95	23.55	13.75
12	5.70	8.50	8.55	1.30	11.55	16.55	19.70	21.40	22.35	23.00	23.60	13.90
13	6.30	1.30	8.35	1.65	11.90	16.70	19.80	21.45	22.35	23.00	23.60	14.10
14	.65	1.30	9.10	1.80	12.20	16.80	19.90	21.50	22.35	23.05	23.60	14.30
15	1.20	2.50	7.90	2.45	12.55	16.95	19.95	21.55	22.40	23.05	23.60	11.45
16	2.10	3.50	7.70	3.55	12.85	17.05	20.05	21.55	22.40	23.10	23.60	11.66
17	4.00	2.05	5.55	4.50	13.10	17.15	20.10	21.60	22.45	23.10	23.60	12.20
18	5.20	3.70	.70	5.30	13.30	17.30	20.20	21.65	22.45	23.15	23.65	12.70
19	6.20	4.60	1.70	5.95	13.50	17.40	20.25	21.65	22.50	23.15	23.65	13.20
20	6.90	3.00	2.95	6.65	13.65	17.50	20.35	21.70	22.50	23.20	23.70	13.65
21	7.55	1.00	1.65	7.15	13.80	17.60	20.40	21.75	22.55	23.20	23.70	6.70
22	8.30	2.00	2.35	6.00	13.95	17.75	20.45	21.75	22.55	23.25	23.75	6.55
23	8.85	3.45	3.30	4.25	14.05	17.85	20.55	21.80	22.60	23.25	23.70	7.95
24	9.35	4.50	3.05	4.75	14.15	17.95	20.60	21.85	22.60	23.25	23.45	9.05
25	9.75	5.40	3.65	5.35	14.30	18.10	20.70	21.90	22.65	23.25	23.35	9.80
26	10.10	6.05	4.55	6.00	14.40	18.20	20.70	21.95	22.65	23.30	23.25	4.10
27	10.45	6.65	4.20	6.60	14.50	18.30	20.75	21.95	22.65	23.30	23.20	6.60
28	10.85	7.00	4.35	6.95	14.60	18.40	20.80	22.00	22.70	23.35	23.20	7.80
29	3.70		1.45	7.25	14.75	18.50	20.85	22.00	22.75	23.35	23.25	8.70
30	5.60		1.15	7.60	14.85	18.60	20.90	22.00	22.75	23.35	23.25	9.40
31	6.70		2.15		15.00		20.95	22.05		23.40		9.95

Cl 2. State of Indiana. Clark County State Forest. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 1 N., R. 6 E. Dug unused well, diameter 36 inches, depth 29 feet, cribbed with stone. Measurements made by Kenneth E. Cook. Highest water level 0.45 below lsd, June 3, 1943; lowest 14.10 below lsd, Feb. 15, 1944. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	3.96	Feb. 21	0.64	Apr. 11	1.60	June 6	4.55
9	1.36	28	1.49	18	1.89	13	4.80
16	1.03	Mar. 7	1.49	25	1.74	20	5.25
23	1.61	14	1.2	May 2	2.22	27	5.65
30	1.19	21	1.19	9	1.88	July 4	5.98
Feb. 7	1.56	28	.85	16	2.70	11	6.44
14	.86	Apr. 4	1.66	30	4.10	18	7.05

Cl 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 24	7.60	Sept. 3	10.80	Oct. 17	11.27	Nov. 22	11.07
Aug. 1	8.30	10	10.98	24	11.30	29	10.19
8	9.02	17	11.06	31	11.36	Dec. 6	9.49
15	9.52	24	11.14	Nov. 7	11.36	13	8.75
20	10.01	Oct. 3	11.15	14	11.0	26	5.09
27	10.60	10	11.22				

Cl 3. Indiana Gas and Water Co., Inc. Tenth and Fulton Sts., Jeffersonville. T. 3 S., R. 7 E. Drilled unused well, diameter 2 inches, depth 45 feet. Measurements made by personnel of Indiana Gas and Water Co., Inc. Nearby well being pumped. Highest water level 19.55 below lsd, Apr. 22, 1948; lowest 33.99 below lsd, May 12, 1944. Records available: 1943-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.35	.....	22.95	22.75	22.45	23.95	24.75	27.15	25.55	25.75	26.47	27.75
2	25.03	.....	23.15	23.15	22.55	23.95	24.75	27.25	25.65	26.37	26.17	26.95
3	24.75	.....	22.95	23.05	23.35	23.75	24.55	27.35	.....	26.45	26.05	26.85
4	25.15	25.75	22.75	23.35	22.75	24.15	24.35	.....	25.25	27.15	25.75	26.85
5	25.39	24.85	22.57	22.75	23.15	24.25	24.15	26.75	25.75	27.23	25.87	27.75
6	25.35	25.41	23.75	22.81	22.75	24.25	24.55	26.35	26.05	27.55	25.75	27.89
7	24.75	24.77	23.95	22.75	22.75	24.27	23.95	26.25	26.05	26.75	26.05	28.43
8	25.15	24.75	23.75	22.75	23.45	24.25	23.75	26.35	25.75	25.85	26.89	.....
9	25.35	24.65	23.75	22.15	23.35	23.75	24.45	26.81	25.75	27.25	27.45	26.75
10	25.15	24.75	23.75	21.75	23.07	23.65	24.75	26.75	25.47	27.05	26.75	26.35
11	25.55	24.55	23.65	21.75	23.15	23.65	24.95	26.75	25.90	26.75	26.35	27.25
12	25.35	24.41	23.73	21.85	22.95	24.55	25.21	.....	26.15	26.45	25.85	27.27
13	24.75	24.25	23.95	21.95	22.75	24.35	25.19	25.75	26.03	26.55	26.25	27.25
14	24.35	24.85	23.97	22.75	23.25	25.00	24.99	26.22	26.17	25.75	25.85	27.25
15	24.29	24.75	24.55	22.75	23.75	24.25	24.75	26.79	25.75	25.85	26.19	26.75
16	25.15	23.85	24.05	24.15	23.35	24.15	24.95	26.85	25.65	26.75	26.33	.....
17	24.85	24.75	23.95	24.65	23.75	23.75	25.11	27.22	25.63	27.25	26.15	26.65
18	24.79	23.75	23.75	24.45	24.01	23.75	25.55	26.75	25.95	27.05	25.75	26.75
19	25.11	23.57	24.20	23.21	23.95	24.05	25.75	26.27	26.17	27.25	25.93	28.05
20	25.15	23.33	24.55	22.95	23.75	23.95	25.75	26.11	26.39	26.95	26.85	28.25
21	24.75	23.69	24.45	23.15	23.89	23.95	25.75	26.43	26.51	26.55	27.05	28.45
22	25.39	23.71	24.50	22.75	24.11	23.85	25.75	26.57	25.95	25.75	26.90	28.05
23	25.35	24.07	24.45	21.95	23.95	23.75	26.05	26.87	25.75	26.89	26.49	27.15
24	25.55	23.75	24.65	21.85	23.95	24.25	25.95	26.75	25.75	27.17	26.15	26.85
25	26.45	23.35	23.95	21.83	23.85	24.35	26.05	26.75	26.17	27.05	25.75	26.75
26	27.29	23.09	24.05	22.05	23.75	24.75	26.35	26.85	26.39	27.25	26.29	25.95
27	27.25	22.75	24.05	21.95	.....	25.02	26.47	26.75	26.75	26.75	27.35	26.90
28	25.75	22.75	24.15	21.85	23.35	25.35	26.55	25.75	26.78	26.15	26.75	27.15
29	26.35	.....	23.95	21.75	24.05	25.55	25.95	25.95	26.75	26.17	28.07	26.75
30	25.15	.....	23.15	21.75	23.75	.....	26.45	25.15	25.95	26.42	27.95	25.95
31	25.35	.....	23.35	.....	23.85	.....	26.65	25.05	.....	26.15	.....	25.75

Cl 5. Owner unknown. Kenwood Ave. and Gufford Rd., Jeffersonville. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 2 S., R. 7 E. Dug unused well in sand and gravel, diameter 36 inches, depth 22 feet, cribbed with brick. Highest water level 4.58 below lsd, May 2, 1948; lowest 17.86 below lsd, Feb. 21, 1944. Records available: 1944-51. Mar. 6, 5.47; July 28, 13.72; Dec. 14, 15.37.

Clinton County

Ct 1. Frankfort Water Co. Jackson and Washington Sts. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 21 N., R. 1 W. Drilled unused well in gravel, diameter 6 inches, depth 79 feet. Measurements made by Ray Atkins. Nearby well being pumped. Land-surface datum is 839.20 feet above msl. Highest water level 18.05 below lsd, Mar. 11, 1949; lowest 54.38 below lsd, Dec. 2, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	28.60	Mar. 9	33.06	May 11	30.55	July 13	34.70
12	27.32	16	32.04	18	31.08	20	37.07
19	27.37	23	30.80	25	32.34	27	38.83
26	29.27	30	31.20	June 1	32.47	Aug. 3	38.38
Feb. 2	28.77	Apr. 6	32.82	8	35.82	10	36.55
9	33.29	13	31.95	15	36.72	17	37.40
16	34.20	20	32.82	22	38.65	24	36.53
23	33.86	27	32.58	29	39.00	31	37.90
Mar. 3	33.10	May 4	31.64	July 6	36.13	Sept. 7	36.02

Ct 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 14	35.85	Oct. 12	30.12	Nov. 9	23.85	Dec. 7	35.50
21	34.18	19	30.08	16	27.89	14	37.49
28	31.39	26	30.20	23	30.27	21	38.01
Oct. 5	31.80	Nov. 2	25.90	30	30.20	28	39.15

Ct 2. Frankfort Ice Co. 300 West Ohio St., Frankfort. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 21 N., R. 1 W. Drilled unused well in sand and gravel, diameter 8 inches, depth 85 feet. Measurements made by Ray Atkins. Land-surface datum is 859.27 feet above msl. Highest water level 34.26 below lsd, Mar. 14, 1949; lowest 71.11 below lsd, Dec. 3, 1944. Records available: 1944-51.

Daily 2 a. m. water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.60	47.90	49.25	48.35	48.50	48.80	55.05	56.10	55.40	48.65	43.95	48.30
2	46.75	48.65	49.75	48.10	48.75	50.25	54.35	56.00	54.95	48.85	43.85	50.15
3	46.00	48.20	49.15	48.40	48.70	51.40	54.40	55.75	53.95	49.00	43.50	51.10
4	46.05	47.80	48.95	48.65	48.70	51.00	53.75	56.00	53.55	49.05	42.35	51.15
5	46.50	47.80	48.65	49.05	48.60	52.35	53.25	55.40	53.60	49.40	42.00	51.70
6	46.20	48.25	48.70	49.55	48.50	52.65	53.90	54.35	53.40	50.60	42.50	51.80
7	45.55	48.50	48.80	49.05	47.55	52.85	53.50	53.70	53.60	49.40	42.00	52.40
8	44.80	49.15	48.95	48.70	48.10	52.35	53.15	53.70	53.70	48.80	42.00	53.45
9	45.25	50.15	49.55	48.25	48.25	52.60	52.40	53.95	53.10	48.90	42.00	53.30
10	45.05	50.05	49.85	48.40	48.70	52.65	52.70	53.90	52.30	48.95	41.85	54.70
11	44.80	49.85	49.20	48.75	47.80	52.05	52.90	54.05	52.65	48.65	42.50	54.60
12	45.10	49.40	48.35	48.70	48.25	52.95	52.90	53.65	53.0	48.40	42.70	54.55
13	44.95	49.85	48.15	48.65	48.00	52.90	52.95	53.20	53.10	48.45	43.45	55.05
14	43.95	50.80	48.40	49.65	47.40	53.30	53.55	53.70	53.30	47.90	44.60	55.15
15	42.85	51.30	48.40	49.20	48.25	53.40	53.65	54.00	53.95	47.55	45.55	55.15
16	43.45	50.85	48.55	48.80	47.90	53.60	52.70	54.20	53.50	47.45	46.50	55.50
17	42.85	51.00	49.00	49.05	47.50	53.60	53.75	54.35	52.15	47.70	47.10	56.15
18	43.60	50.80	48.70	49.15	47.85	53.30	53.90	54.55	52.30	48.05	46.75	55.40
19	44.25	49.85	48.75	49.10	48.15	54.60	53.90	54.35	52.25	47.90	46.35	55.95
20	44.40	50.30	48.50	49.45	48.40	54.80	54.10	53.75	52.20	47.65	47.35	55.35
21	45.00	50.00	48.00	49.75	47.60	55.45	54.30	53.90	51.90	47.15	48.05	55.10
22	44.70	50.60	47.55	49.15	49.00	55.35	54.45	54.30	51.45	46.35	48.40	56.00
23	44.75	50.60	47.25	48.70	49.20	55.75	54.05	54.60	50.60	46.85	47.40	56.00
24	45.35	50.60	47.55	49.25	49.30	55.45	54.40	54.40	50.50	46.50	48.25	57.30
25	45.40	50.15	47.75	48.90	49.50	55.35	54.75	54.80	50.30	47.20	48.50	56.65
26	45.80	49.00	47.40	49.35	50.15	55.55	55.15	54.55	50.05	47.05	47.60	56.60
27	46.65	49.25	47.70	49.30	49.55	55.80	55.55	53.65	49.50	46.80	48.05	57.00
28	47.25	49.65	47.70	49.05	48.85	55.60	55.90	53.75	49.45	45.40	47.90	56.55
29	47.10		47.75	48.30	49.25	55.75	56.10	53.95	49.55	44.50	48.00	56.25
30	47.90		47.95	47.45	49.55	55.65	55.70	54.00	48.80	44.30	47.95	56.20
31	48.10		48.50		48.75		56.40	54.65		44.15		56.30

Ct 4. Frankfort Light Co. Burlington Ave. and Green St., Frankfort. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 21 N., R. 1 W. Drilled unused well in gravel, diameter 12 inches, reported depth 230 feet. Measurements made by Ray Atkins. Highest water level 17.65 below lsd, Feb. 14, 1950; lowest 42.60 below lsd, Aug. 11, 1949. Records available: 1949-51.

Daily 2 a. m. water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.20	23.65	24.70	20.65	23.45	27.30	28.25	33.25	40.45	35.90	33.95	.....
2	27.55	25.30	25.45	21.65	24.85	27.50	28.50	35.75	40.00	37.30	34.50	.....
3	26.85	26.25	23.95	23.50	25.60	27.30	28.55	36.65	39.20	39.20	34.75	.....
4	26.80	25.35	22.80	.....	26.05	25.85	28.50	37.60	39.55	40.20	33.75	.....
5	26.90	23.60	22.05	.....	28.45	26.35	28.60	38.15	40.60	40.70	32.50	.....
6	26.40	22.70	21.55	e22.60	25.50	26.75	28.65	38.40	41.25	37.85	31.70	.....
7	27.00	22.10	21.80	22.60	23.65	26.95	28.75	38.50	41.90	36.20	32.35	.....
8	26.40	22.45	.....	.....	24.05	27.25	28.80	38.70	42.15	35.40	33.65	29.45
9	26.15	21.95	e21.50	.....	25.25	27.55	28.55	38.70	41.70	34.95	34.30	28.00
10	26.10	22.00	22.10	.....	26.10	27.35	28.55	39.15	39.20	34.75	34.75	26.25
11	26.65	21.80	21.60	.....	24.40	26.15	28.65	39.45	39.90	34.60	32.15	26.95
12	26.50	21.60	21.15	.....	23.65	26.55	28.70	39.50	40.95	34.55	28.85	27.20
13	26.40	.....	20.85	e24.37	22.65	26.75	28.85	38.75	41.65	33.75	27.40	28.75
14	26.25	.....	21.20	24.35	23.40	26.90	.....	39.00	41.95	32.25	27.55	30.45
15	25.95	.....	20.90	27.25	25.15	27.15	.....	39.20	.....	31.40	27.05	31.45
16	28.10	e21.59	e20.95	21.65	26.30	27.35	.....	39.80	.....	31.80	28.50	32.20
17	29.60	21.60	21.50	20.85	26.35	25.65	.....	40.20	.....	32.65	29.75	32.35
18	29.70	22.20	22.90	.....	27.00	26.55	.....	40.45	.....	33.30	29.70	32.40

Ct 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
19	e28.30	21.65	24.35	.....	27.60	26.85	.....	39.70	.....	33.70	.....	32.85
20	26.80	21.55	25.15	.....	27.90	27.15	.....	38.50	.....	34.25	.....	33.00
21	25.45	.....	25.70	20.65	27.35	27.40	28.95	39.20	39.60	34.30	.....	31.45
22	24.30	.....	26.05	20.70	27.25	27.50	29.00	40.10	40.05	32.70	.....	30.50
23	24.05	e21.65	23.75	20.30	27.35	27.75	28.95	40.75	37.90	30.50	.....	29.00
24	23.55	21.70	22.55	20.55	27.95	27.75	28.85	41.15	33.50	32.40	.....	27.05
25	23.10	22.00	21.85	22.30	28.25	27.40	28.90	41.30	35.10	33.40	.....	25.60
26	22.85	21.50	21.35	23.90	28.30	27.35	28.90	40.40	37.85	.....	.....	24.60
27	23.15	21.40	21.60	24.70	25.70	27.60	29.00	38.40	39.60	34.20	.....	24.00
28	22.70	23.55	21.10	22.80	24.95	27.90	28.90	.....	40.75	34.45	.....	23.65
29	22.30	.....	.....	21.85	25.80	27.95	28.80	.....	41.70	33.00	.....	24.50
30	22.25	.....	e21.05	21.70	26.45	28.10	28.80	.....	41.50	31.80	h30.98	24.00
31	22.05	.....	20.90	.....	26.90	.....	28.75	.....	.....	33.05	.....	23.30

e Estimated.

h Tape measurement.

Crawford County

Cf 1. J. F. Blevins. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 3 S., R. 1 W. Dug unused well, diameter 36 inches, depth 17 feet, cribbed with stone. Highest water level 0.68 below lsd, Jan. 14, 1949; lowest 12.26 below lsd, Oct. 29, 1948. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	2.93	May 22	4.18	Sept. 8	11.02	Nov. 3	12.91
30	2.90	23	8.49	16	10.89	10	13.16
Feb. 6	4.95	July 26	9.69	22	11.04	24	9.60
Apr. 5	3.12	Aug. 6	10.51	Oct. 1	11.45	Dec. 2	7.00
9	3.01	11	10.74	6	12.00	8	2.85
16	2.77	18	11.05	15	12.53	15	3.33
23	4.95	25	11.30	20	12.75	22	3.27
30	4.95	Sept. 1	11.02	27	12.60	29	2.60
May 17	4.12						

Cf 2. Zenis R. Parkhill Estate. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 3 S., R. 1 E. Dug unused well in limestone, diameter 42 inches, depth 20 feet, cribbed with stone. Highest water level 0.67 above lsd, Jan. 15, 1950; lowest 7.26 below lsd, Dec. 22, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	1.01	Apr. 29	1.89	July 21	4.60	Oct. 13	5.62
Feb. 3	2.87	May 5	3.02	28	4.66	20	5.15
10	1.64	12	3.31	Aug. 4	4.02	27	5.80
17	.57	18	3.59	11	5.88	Nov. 3	6.01
24	1.30	25	3.88	18	5.17	10	6.08
Mar. 3	1.03	June 2	4.13	25	5.25	17	5.90
17	.83	9	4.05	Sept. 1	5.29	24	2.81
24	1.48	16	4.16	8	5.28	Dec. 1	2.39
31	1.02	23	4.32	15	5.19	8	.41
Apr. 7	.79	30	4.36	23	5.30	15	+ .13
14	.89	July 7	4.57	29	5.28	22	1.19
21	1.87	14	4.43	Oct. 6	5.46		

Cf 3. J. Elmer Faulkenburg. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 3 S., R. 1 W. Dug unused well in limestone, diameter 42 inches, depth 18 feet, cribbed with stone. Highest water level 5.90 below lsd, Mar. 8, 1945; lowest 18.50 below lsd, Oct. 27, 1946. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	10.0	Apr. 7	8.4	July 7	15.5	Oct. 5	16.1
13	8.6	14	9.5	14	15.4	13	16.0
20	8.9	21	9.4	21	15.7	20	16.1
27	10.9	28	11.7	29	15.9	27	16.1
Feb. 3	13.0	May 5	13.5	Aug. 4	16.1	Nov. 10	16.2
10	12.9	12	14.2	11	16.3	17	16.1
17	8.7	19	14.3	18	16.4	24	16.0
24	9.4	26	14.2	25	16.5	Dec. 1	15.9
Mar. 3	9.2	June 2	14.9	Sept. 1	16.4	8	15.9
10	11.2	9	15.3	8	16.4	15	12.83
17	6.1	16	16.0	15	16.2	22	10.95
24	8.1	23	15.4	22	16.2	29	10.55
31	10.0	30	15.2	28	16.3		

Daviess County

Da 2. Thresa Seals. Cannelburg. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 3 N., R. 5 W. Dug unused well in glacial drift, diameter 24 inches, depth 16 feet, cribbed with tile. Highest water level 0.27 below lsd, Dec. 9, 1951; lowest 10.65 below lsd, Sept. 26, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 24	1.92	July 22	6.83	Sept. 16	8.28	Nov. 11	9.17
28	2.97	29	7.38	23	9.02	17	7.52
June 3	4.76	Aug. 5	8.05	30	9.12	25	3.53
10	5.39	13	8.60	Oct. 7	9.38	Dec. 2	1.61
17	6.06	19	8.82	14	9.53	9	.37
24	4.71	26	9.04	21	9.47	16	1.31
July 2	4.44	Sept. 2	6.41	28	9.53	23	.80
8	5.09	9	8.84	Nov. 4	9.79	30	.57
16	6.22						

Dearborn County

Db 1-8. Schenley Distillers, Inc. Old Quaker Plant, Greendale. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 W. Drilled unused artesian well in gravel, diameter 12 inches, reported depth 129 feet. Land-surface datum is 506.60 feet above msl. Measurements made by Ed Liston. Highest water level 49.6 below lsd, Feb. 19, 1950; lowest 107.89 below lsd, Oct. 12, 1944. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	85.5	80.3	67.9	71.5	78.4	84.6	86.8	93.3	90.3	94.0	91.4	92.4
2	....	82.4	66.5	74.0	78.6	85.2	86.2	92.6	92.0	94.1	89.9	90.4
3	....	83.0	66.3	75.4	76.8	82.3	85.8	91.9	90.2	95.8	92.7	92.4
4	82.5	79.4	62.7	75.2	77.3	85.4	85.9	93.1	94.0	94.9	....	92.7
5	83.9	80.4	70.9	76.9	76.8	82.8	86.4	90.9	94.6	95.6	....	92.2
6	84.3	79.7	71.0	77.8	72.9	84.2	86.9	93.6	94.8	94.9	....	91.7
7	80.9	78.7	71.7	75.8	79.5	86.1	85.6	94.0	95.4	92.7	90.3	91.9
8	84.6	77.4	71.5	72.9	80.6	86.0	85.7	94.1	94.6	94.6	90.7	92.3
9	85.1	77.2	72.4	76.1	80.2	87.1	88.9	92.8	92.8	94.5	91.4	92.6
10	84.5	77.5	71.7	75.2	78.1	84.4	67.9	92.9	94.4	95.5	91.3	90.5
11	85.3	75.1	67.0	75.2	78.1	87.6	89.3	93.0	95.0	94.6	89.2	91.8
12	85.7	76.9	70.5	75.2	79.2	87.6	91.1	90.8	89.1	95.4	90.8	....
13	85.6	77.2	72.1	75.8	75.1	87.9	91.4	92.9	94.4	95.3	89.6	89.4
14	83.6	75.9	71.2	75.5	80.7	87.1	91.1	93.4	94.1	93.4	91.4	90.2
15	82.7	76.1	71.7	76.2	80.4	87.0	89.4	95.6	93.7	95.3	92.6	88.7
16	81.8	77.1	73.8	75.6	80.6	85.2	91.2	96.4	91.8	95.7	92.6	88.9
17	82.2	78.3	74.0	78.1	81.4	85.1	....	96.6	93.5	95.7	92.0	88.7
18	81.8	73.4	73.0	78.3	82.1	86.9	92.4	95.7	94.3	95.1	89.7	88.6
19	82.5	76.0	72.6	78.4	82.5	89.2	91.3	93.3	94.4	95.9	92.2	89.5
20	81.9	76.1	73.6	78.7	80.2	90.5	91.7	95.1	94.7	95.4	91.7	89.4
21	78.3	75.1	72.0	78.7	83.8	89.3	91.3	....	94.7	95.2	91.9	89.4
22	79.2	74.9	71.7	78.4	82.8	89.6	90.0	....	95.1	92.9	91.4	90.0
23	79.7	75.5	73.9	75.8	83.4	89.4	89.6	....	93.5	95.5	91.6	89.2
24	80.4	75.8	73.0	75.4	81.5	87.5	90.4	....	95.5	....	92.2	87.0
25	80.9	70.4	69.8	75.4	82.6	89.2	91.5	....	94.7	....	92.3	....
26	81.0	71.5	....	77.2	81.4	87.2	91.4	....	94.7	89.8	....	....
27	81.7	70.4	e72.6	77.5	79.4	89.2	91.2	....	94.5	90.8	....	87.8
28	77.1	72.0	72.1	77.4	83.0	86.3	92.6	....	94.6	88.9	92.0	87.4
29	79.3	74.8	74.2	83.4	87.4	91.0	89.2	94.0	90.3	91.8	87.0	87.0
30	78.8	74.8	77.3	83.4	86.7	91.3	87.9	92.0	90.4	92.0	84.9	84.9
31	78.2	73.6	....	84.4	....	91.9	87.9	....	90.4	....	....	85.5

e Estimated.

Db 1-10. Schenley Distillers, Inc. County Fairgrounds, Lawrenceburg. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 W. Drilled observation artesian well in gravel, diameter 2 inches, depth 79 feet. Measurements made by Ed Liston. Highest water level 4.40 below lsd, Feb. 22, 1949; lowest 44.39 below lsd, Nov. 6, 1948. Records available: 1946-51.

Db 1-10--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.2	16.6	14.2	30.5	....	39.0	32.5	41.9	41.8	40.5
2	14.2	18.4	....	....	....	39.0	32.5	42.5	41.8	40.0
3	19.0	....	....	28.6	39.1	....	42.6	....	41.6
4	7.8	19.3	15.3	31.4	28.8	....	h33.0	42.7	38.1	40.2
5	15.5	19.5	15.6	31.6	29.0	....	33.8	42.8	41.6	40.3
6	16.0	19.1	14.9	32.0	29.2	....	33.9	....	41.6	40.2
7	16.6	19.1	....	32.1	29.2	h31.4	34.0	....	41.7	40.2
8	16.8	17.6	23.0	32.2	29.0	....	34.0	42.0	....	40.1
9	17.2	h16.1	23.7	32.5	....	....	34.0	....	....	39.9
10	16.9	17.0	23.9	....	36.2	....	34.0	41.9	....	41.3
11	17.7	24.0	....	36.5	....	34.1	41.9	....	....
12	16.4	18.9	24.5	25.3	36.7	....	....	42.0	....	....
13	18.1	16.9	19.3	....	32.1	37.4	....	....	....	41.8	....
14	18.3	17.5	19.8	24.4	32.4	37.5	h31.7	....	....	42.1	....
15	18.0	18.1	17.2	24.9	31.9	35.6	32.2	....	41.7	42.2	....
16	17.7	18.3	19.7	24.5	34.0	37.0	32.4	33.9	....	42.3	....
17	17.9	18.3	19.6	25.1	....	38.6	32.6	33.8	41.9	....	....
18	15.6	19.6	25.3	33.5	38.8	32.7	34.6	42.0	....	....
19	12.7	18.0	19.9	25.6	34.4	39.0	32.8	34.7	42.0	41.9	....
20	14.4	18.1	20.1	23.7	36.3	38.7	32.8	34.8	....	42.1	....
21	18.2	20.2	24.6	35.2	37.0	32.9	34.9	41.2	42.2	....
22	12.1	18.2	....	25.3	35.1	38.5	32.9	34.9	41.8	....	....
23	12.3	18.1	19.0	23.4	35.0	38.8	....	34.9	42.0	40.7	....
24	12.4	18.1	19.3	24.3	....	36.0	....	....	42.1	....	....
25	10.9	15.4	20.4	....	34.5	38.6	....	41.8	42.1	....	....
26	12.0	16.6	20.7	....	33.5	38.6	....	42.0	42.0	41.6	....
27	12.9	17.1	20.8	....	34.4	....	....	42.1	....	42.1	....
28	13.4	17.7	21.6	....	....	31.9	h31.5	42.2	....	42.2	....
29	17.8	19.0	29.4	....	31.8	32.2	....	39.3	42.3	....
30	17.9	20.8	30.2	27.6	31.9	32.3	....	41.2	42.3	....
31	17.9	....	30.5	....	....	32.4	....	41.6	....	....

h Tape measurement.

Db 2. City of Lawrenceburg. Municipal Water Plant, Third and Shipping Sts., Lawrenceburg. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 5 N., R. 1 W. Drilled public-supply artesian well in gravel, diameter 10 inches, reported depth 100 feet. Land-surface datum is 492.1 feet above msl. Pressure gage recordings by Ralph Patton. Highest water level 32 below lsd, Mar. 12, 1945; lowest 68.28 below lsd, Dec. 2, 1951. Records available: 1944-51. Jan. 16, 46; Jan. 21, 40; Dec. 2, 68.28; Tape measurement.

Db 4. City of Lawrenceburg. Maple and High Sts. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 W. Drilled unused artesian well in gravel, diameter 3 inches, depth 70 feet. Land-surface datum is 476.8 feet above msl. Measurements made by Ralph Patton. Nearby well being pumped. Highest water level flowing 0.2 above lsd, Mar. 12, 1945; lowest 47.88 below lsd, Nov. 4, 11, 1951. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	25.48	June 17	37.99	Aug. 19	45.41	Oct. 14	47.50
21	16.70	July 1	40.70	26	45.94	21	47.68
Apr. 1	23.95	8	40.90	Sept. 2	46.20	28	47.82
8	26.14	15	42.34	9	46.42	Nov. 4	47.88
15	29.52	22	43.28	16	46.63	11	47.88
22	29.20	29	43.79	23	46.85	18	47.70
29	33.52	Aug. 5	44.49	30	47.16	25	47.26
June 3	35.62	12	45.05	Oct. 7	47.34	Dec. 2	44.38
10	38.51						

Db 5. City of Lawrenceburg. East Center St. between Arch and St. Clair Sts. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 W. Drilled unused artesian well in gravel, diameter 3 inches, depth 61 feet. Measurements made by Ralph Patton. Highest water level 11.19 below lsd, Jan. 21, 1951; lowest 42.48 below lsd, Nov. 4, 1951. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	12.92	June 17	33.10	Aug. 26	40.81	Oct. 21	42.30
21	11.19	July 1	35.60	Sept. 2	41.08	28	42.44
Apr. 1	18.29	8	35.47	9	41.18	Nov. 4	42.48
8	20.75	15	37.18	16	41.34	11	42.41
15	24.23	22	38.25	23	41.54	18	42.17
22	27.99	Aug. 5	39.48	30	41.83	25	41.74
29	30.09	12	40.06	Oct. 7	42.01	Dec. 2	39.45
June 3	33.34	19	40.38	14	42.15		

Decatur County

Dc 1. Town of Letts. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 9 N., R. 9 E. Dug unused well in glacial drift, diameter 4 feet, depth 24 feet, cribbed with stone. Highest water level 0.60 below lsd, Apr. 13, 1951; lowest 9.71 below lsd, Sept. 17, 1948. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	2.69	Apr. 7	1.40	July 6	3.50	Oct. 6	6.63
12	1.80	13	.60	13	4.00	13	7.75
19	2.82	20	2.40	20	4.50	20	7.82
26	2.30	29	2.80	27	4.80	27	6.93
Feb. 2	2.90	May 4	2.50	Aug. 3	4.60	Nov. 3	7.84
9	2.40	11	2.45	10	5.00	10	5.15
16	.80	18	3.30	17	5.50	17	6.87
23	1.50	25	3.40	24	5.90	24	3.45
Mar. 2	1.90	June 1	3.40	31	6.39	Dec. 7	3.73
9	1.70	8	3.90	Sept. 7	6.48	14	3.81
16	1.30	15	4.30	14	6.47	21	1.25
23	1.70	22	3.10	21	6.49	28	1.34
30	1.80	29	2.20	28	7.13		

De Kalb County

Dk 1. City of Auburn. Auburn Water Works. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 34 N., R. 13 E. Drilled municipal well in glacial drift, diameter 4 inches, reported depth 256 feet. Pressure gage readings by W. LaMarr. Pumped recently. Highest water level 4.5 below lsd, June 2, 1947; lowest 18.5 below lsd, Oct. 27, 1950. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	14.5	May 1	11.5	July 23	11.5	Oct. 15	12.5
29	13.5	7	11.5	30	12.5	22	12.5
Feb. 12	10.5	14	11.5	Aug. 5	13.5	28	12.5
26	11.5	21	12.5	13	13.5	Nov. 5	12.5
Mar. 3	13.5	28	11.5	20	11.5	12	12.5
10	11.5	June 4	11.5	27	11.5	19	12.5
19	11.5	11	11.5	Sept. 3	12.5	26	12.5
26	12.5	18	12.5	10	12.5	Dec. 3	12.5
Apr. 2	12.5	25	12.5	17	11.5	10	12.5
10	13.5	July 1	12.6	24	12.5	17	12.5
16	8.5	9	11.5	Oct. 1	11.5	24	12.5
23	11.5	16	11.5	7	12.5	30	11.5

Dk 2. Worth Wareham. Waterloo. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 34 N., R. 13 E. Dug unused well in glacial drift, diameter 36 inches, depth 31 feet, cribbed with brick. Highest water level 0.15 above lsd, July 28, 1950; lowest 17.10 below lsd, Dec. 6, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	2.07	Apr. 6	3.48	July 6	3.92	Oct. 5	6.61
12	2.09	13	2.59	13	3.19	12	6.32
19	3.90	20	3.50	20	3.22	19	6.27
26	3.93	27	3.70	27	4.60	26	5.28
Feb. 2	3.99	May 4	3.60	Aug. 3	4.54	Nov. 2	5.31
9	4.02	11	3.64	10	5.90	9	5.29
16	2.90	18	4.00	17	5.20	16	2.58
23	1.30	25	4.04	24	4.90	23	3.31
Mar. 2	1.10	June 1	3.90	31	5.38	30	3.27
9	1.69	8	3.93	Sept. 7	5.41	Dec. 7	2.59
16	2.20	15	4.00	14	5.69	14	3.36
23	2.23	22	3.10	21	6.48	21	3.39
30	4.00	29	3.90	28	6.57	28	3.45

Delaware County

Dw 2. Merlin V. Painter. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 19 N., R. 9 E. Driven unused well in glacial drift, diameter 1 $\frac{1}{4}$ inches, depth 21 feet. Highest water level 2.50 below lsd, Jan. 9, 1949; lowest 15.52 below lsd, Nov. 24, 1951. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	8.97	Mar. 10	6.46	Apr. 29	5.73	June 23	9.75
27	7.40	17	6.85	May 12	7.17	30	9.27
Feb. 4	8.30	24	5.15	19	7.65	July 9	10.62
10	8.90	Apr. 2	5.36	26	8.02	14	10.64
17	7.30	8	5.75	June 3	8.78	21	10.02
24	4.70	14	4.20	9	9.22	30	10.45
Mar. 3	4.65	22	5.19	16	9.51	Aug. 4	11.68

Dw 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 11	12.15	Sept. 22	13.79	Oct. 27	14.89	Nov. 24	15.52
18	12.65	29	14.02	Nov. 3	15.08	29	15.48
25	12.77	Oct. 6	14.26	10	15.24	Dec. 10	14.78
Sept. 8	13.26	13	14.39	17	15.21	29	14.11
15	13.53	20	14.51				

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. Measurements made by Henry Huff. Highest water level 4.51 below lsd, Feb. 22, 1950; lowest 18.45 below lsd, Nov. 13, 1944. Records available: 1936-37, 1942-51.

Jan. 8	10.18	May 7	10.06	July 26	14.40	Oct. 15	15.93
17	8.75	14	10.80	30	15.26	29	15.91
30	10.28	21	11.28	Aug. 6	15.59	Nov. 7	16.03
Feb. 13	8.87	28	11.76	13	15.78	12	16.21
21	8.20	June 4	12.25	20	15.74	19	15.52
26	9.17	11	12.00	27	15.99	27	13.16
Mar. 5	8.03	18	11.77	Sept. 4	15.61	Dec. 3	14.25
22	7.21	25	12.51	10	15.64	10	12.10
27	8.24	July 2	12.45	17	15.56	17	12.99
Apr. 2	7.79	9	12.92	24	15.67	26	12.18
9	8.11	16	13.16	Oct. 1	15.70	31	12.62
May 2	9.19	23	13.95	8	15.92		

Du 6. Harry Baker. Haysville. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 1 N., R. 5 W. Dug unused well, diameter 42 inches, depth 37 feet, cribbed with rock. Highest water level 8.28 below lsd, Mar. 9, 1945; lowest 22.16 below lsd, Dec. 29, 1944. Records available: 1944-51.

Jan. 6	16.68	Apr. 7	11.64	July 7	16.46	Oct. 6	20.53
13	15.56	14	11.11	14	17.13	13	20.81
20	14.22	21	12.10	21	17.80	20	20.88
27	14.54	28	11.71	28	18.26	27	21.10
Feb. 3	14.88	May 5	12.76	Aug. 4	18.79	Nov. 3	21.26
10	14.58	12	14.10	11	19.27	10	21.12
17	13.67	19	14.78	18	19.63	17	20.89
24	12.38	26	15.14	25	20.17	24	20.38
Mar. 3	12.47	June 2	16.12	Sept. 1	19.44	Dec. 1	19.74
10	12.17	9	17.86	8	19.88	8	15.61
17	10.81	16	16.15	15	20.13	15	15.50
24	10.71	23	17.32	22	20.31	22	15.43
31	10.58	30	16.26	29	20.44	29	15.62

Elkhart County

Eh 2. Grace Leer. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 36 N., R. 7 E. Driven unused well, diameter 1 $\frac{1}{2}$ inches, depth 18 feet. Highest water level 0.86 below lsd, Oct. 1, 1945; lowest 6.64 below lsd, Sept. 9, 1946. Records available: 1945-51.

Jan. 2	6.05	Apr. 8	5.20	July 8	6.18	Oct. 7	6.05
8	4.24	15	4.44	15	4.75	14	6.20
16	5.08	23	5.18	22	5.06	21	6.25
21	5.06	29	5.06	29	5.49	28	5.10
28	5.45	May 6	5.24	Aug. 5	5.79	Nov. 4	5.52
Feb. 4	5.59	13	5.10	12	5.88	11	5.25
11	5.77	20	5.49	19	4.97	18	4.72
18	5.15	27	5.63	26	5.07	25	5.19
25	4.57	June 3	5.79	Sept. 2	5.51	Dec. 2	5.41
Mar. 4	4.66	10	5.93	9	5.77	9	4.97
11	5.20	17	6.05	16	5.80	17	5.43
18	5.09	24	6.04	23	6.07	23	5.53
25	5.42	July 1	6.13	28	6.12	30	5.47
Apr. 1	5.40						

Eh 3. City of Goshen. 9th and Jackson Sts. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 36 N., R. 6 E. Drilled unused well in gravel, diameter 12 inches, reported depth 169 feet. Measurements made by personnel of Goshen Water Works. Nearby well being pumped. Highest water level 16.6 below lsd, Dec. 25, 31, 1951; lowest 21.6 below lsd, Dec. 22, 1950. Records available: 1950-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.0	....	17.9	....	17.4	....	17.7	17.7	....	17.7	17.6	17.3
2	17.9	....	....	....	17.4	....	17.5	17.7	....	18.1	17.6	17.1
3	18.0	....	....	....	17.4	....	17.7	17.7	....	18.1	17.6	17.0
4	18.0	....	....	....	17.5	....	17.7	17.8	....	18.1	17.5	17.1
5	18.0	....	....	....	17.5	....	17.5	17.6	....	18.2	17.3	17.1
6	17.2	....	17.7	17.5	....	18.2	17.6	17.1
7	18.2	....	....	17.0	....	17.8	17.6	....	17.9	....	17.0
8	18.3	....	17.5	17.3	....	17.7	17.7	....	17.8	17.6	17.1
9	18.2	....	17.2	17.4	....	17.4	17.8	....	17.9	17.7	16.9
10	18.3	....	17.4	17.6	....	17.5	17.9	....	18.0	17.7	16.8
11	18.1	....	17.5	17.4	....	17.6	17.9	....	18.1	17.5	16.9
12	17.8	....	17.4	17.3	....	17.6	17.8	17.9	18.0	17.3	16.9
13	18.0	....	17.5	17.1	....	17.6	17.6	18.0	18.1	17.5	17.0
14	18.2	....	17.5	17.0	....	17.6	17.9	17.9	18.0	17.4	17.0
15	18.1	....	....	17.3	....	17.5	18.0	18.1	17.8	17.5	16.9
16	18.2	....	....	17.7	....	17.3	18.0	17.8	18.0	17.5	17.0
17	18.1	....	17.4	17.5	....	17.7	17.8	17.7	18.1	17.5	16.8
18	18.0	....	17.4	17.6	....	17.7	17.9	17.9	18.0	17.3	16.8
19	17.7	....	17.4	17.6	....	17.7	17.6	18.0	18.1	17.2	16.9
20	17.9	....	17.6	17.3	....	17.7	17.5	18.1	18.1	17.5	16.9
21	17.8	....	17.5	17.1	....	17.7	17.7	18.2	17.9	....	16.7
22	18.1	....	17.2	17.4	....	17.4	17.8	18.2	17.8	17.4	16.9
23	18.1	....	17.1	17.5	....	17.3	17.9	17.9	18.0	17.1	16.8
24	18.1	....	17.3	17.6	....	17.6	18.0	17.7	....	17.1	16.7
25	17.9	....	17.4	17.6	....	17.8	18.0	18.0	17.8	17.0	16.6
26	17.5	....	17.5	17.7	....	17.9	17.8	18.1	17.8	16.9	16.7
27	17.8	....	17.5	17.3	18.0	18.0	17.5	18.1	17.8	17.1	16.8
28	17.9	....	17.5	17.1	18.0	17.9	17.8	18.1	17.5	17.2	16.9
29	17.3	17.3	18.0	17.7	....	18.1	17.4	17.3	16.8
30	17.0	17.5	17.9	17.5	....	17.9	17.6	17.3	16.8
31	17.2	....	17.6	....	....	17.6	....	16.6

Fayette County

Fa 2. Irene Kerr. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 14 N., R. 12 E. Dug unused well in glacial drift, diameter 28 inches, depth 24 feet, cribbed with stone. Highest water level 0.37 below lsd, Jan. 5, 1949; lowest 14.54 below lsd, Dec. 27, 1946. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	3.99	Apr. 5	3.63	July 5	6.16	Oct. 4	10.69
11	3.03	12	2.51	13	6.76	11	11.09
18	2.80	19	3.40	20	7.15	18	11.43
25	3.42	26	3.58	26	7.28	25	11.80
Feb. 1	4.32	May 3	4.40	Aug. 2	7.73	Nov. 1	12.17
8	4.63	10	4.94	9	7.97	8	12.48
14	3.25	17	5.17	17	8.40	15	12.23
24	2.88	24	5.60	23	8.71	23	12.14
Mar. 1	3.30	31	5.93	30	9.00	29	11.83
7	3.16	June 8	6.36	Sept. 6	9.35	Dec. 6	11.13
15	4.13	14	6.62	13	9.72	13	3.02
22	2.96	21	6.92	20	9.99	20	3.94
29	2.92	28	5.98	27	10.32	28	2.71

Floyd County

Fl 1. Mr. Shane. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 3 S., R. 6 E. Drilled unused well in sand and gravel, diameter 6 inches, depth 51 feet. Land-surface datum is 431.34 feet above msl. Highest water level 8.75 below lsd, Feb. 19, 1948; lowest 47.06 below lsd, Nov. 13, 14, 1944. Records available: 1943-51. Mar. 6, 20.82; July 28, 44.40; Dec. 14, 26.50.

Fl 2. Mr. Randall. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 3 S., R. 6 E. Drilled unused well in sand and gravel, diameter 8 inches, depth 49 feet. Land-surface datum is 433.71 feet above msl. Highest water level 1.37 below lsd, Feb. 23, 1950; lowest dry, Aug. 20, 1945; Aug. 10, Sept. 12, Oct. 5, Nov. 21, 1946. Records available: 1943-51. Mar. 6, 12.34; July 28, 43.62; Dec. 14, 26.12.

Fl 3. Mr. Heil. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 3 S., R. 6 E. Drilled unused well, diameter 8 inches, depth 126 feet. Land-surface datum is 433.61 feet above msl. Highest water level 5.95 below lsd, Apr. 1, 1948; lowest 22.23 below lsd, Feb. 18, 1944. Records available: 1943-51. Mar. 6, 8.58; July 28, 16.04; Dec. 14, 10.76.

Fountain County

Fo 1. Merchants & Farmers Telephone Co. Formerly Town of 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. Highest water level 33.28 below lsd, Mar. 7, 1950; lowest 42.45 below lsd, Feb. 14, Mar. 7, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	39.00	Apr. 3	38.25	July 3	39.02	Oct. 2	39.89
9	39.19	10	38.50	10	39.10	9	40.13
16	39.45	17	38.54	17	38.55	16	40.15
24	39.37	24	38.30	24	38.78	23	39.96
30	39.55	May 1	38.48	31	38.60	31	40.35
Feb. 7	39.73	8	38.53	Aug. 7	38.52	Nov. 6	40.15
13	39.71	15	38.55	14	39.29	13	39.92
20	39.32	22	38.09	21	39.46	20	40.15
27	38.72	29	38.40	28	39.40	27	40.12
Mar. 6	38.05	June 5	38.48	Sept. 4	39.80	Dec. 4	40.19
13	37.76	12	38.46	11	39.90	11	40.10
20	38.39	18	38.53	18	39.89	18	40.15
27	38.15	26	38.53	25	39.95	26	40.57

Franklin County

Fr 1. Town of Brookville. Ninth and Noble Sts. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 9 N., R. 2 W. Drilled public-supply well in sand and gravel, diameter 12 inches, reported depth 150 feet. Pressure gage measurements made by Walter Cleaver. Pumped recently. Highest water level 20 $\frac{1}{2}$ below lsd, Jan. 7, 1950; lowest 31.71 below lsd, Oct. 16, 1939. Records available: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	26 $\frac{1}{2}$	Apr. 7	26	July 7	28	Nov. 24	29 $\frac{1}{2}$
Feb. 3	27	14	25 $\frac{1}{2}$	14	28 $\frac{1}{2}$	Dec. 1	29 $\frac{1}{2}$
10	27 $\frac{1}{2}$	May 5	26	28	29	8	27 $\frac{1}{2}$
17	25 $\frac{1}{2}$	18	27 $\frac{1}{2}$	Sept. 15	29 $\frac{1}{2}$	15	28 $\frac{1}{2}$
Mar. 3	23 $\frac{1}{2}$	26	28	Oct. 13	30 $\frac{1}{2}$	22	27 $\frac{1}{2}$
10	26 $\frac{1}{2}$	June 9	28 $\frac{1}{2}$	27	30 $\frac{1}{2}$	31	27 $\frac{1}{2}$
24	25 $\frac{1}{2}$	23	28	Nov. 17	29 $\frac{1}{2}$		

Fr 4. Henry H. Harmeyer. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 10 N., R. 11 E. Drilled unused well in gravel, diameter 6 inches, reported depth 120 feet. Highest water level 16.86 below lsd, Apr. 7, 1944; lowest 46.47 below lsd, Oct. 13, 1951. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	27.44	Apr. 7	34.43	July 7	35.66	Oct. 13	46.47
13	26.63	14	33.07	14	38.74	20	45.13
20	26.08	21	34.38	21	34.16	27	45.98
27	27.45	28	35.46	28	36.08	Nov. 3	45.52
Feb. 3	27.13	May 5	36.04	Aug. 4	37.88	10	45.97
10	29.45	12	36.42	11	37.24	17	45.08
17	27.14	19	35.86	18	37.73	24	44.42
24	27.51	26	36.58	25	38.41	Dec. 1	42.16
Mar. 3	24.49	June 2	34.96	Sept. 1	40.46	8	40.74
10	26.07	9	36.32	8	39.69	15	44.45
17	27.71	16	36.82	15	44.42	22	44.68
24	33.42	23	37.87	22	45.74	29	41.46
31	35.62	30	36.43	29	44.96		

Gibson County

Gi 1. Oakland City College. Oakland City. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 2 S., R. 9 W. Dug unused well, diameter 42 inches, depth 37 feet, cribbed with brick. Highest water level 11.05 below lsd, Jan. 20, 1947; lowest 20.64 below lsd, Oct. 12, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	16.10	Mar. 5	15.94	May 14	15.47	June 25	16.20
8	17.05	12	15.00	21	15.38	July 2	16.16
15	12.90	Apr. 16	15.20	28	15.52	9	16.22
22	16.57	23	14.99	June 4	15.83	16	16.38
Feb. 19	15.80	30	14.86	11	15.89	23	16.42
26	15.68	May 7	15.15	18	16.00	30	16.53

Gi 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 6	16.48	Sept. 18	17.07	Oct. 15	17.46	Nov. 19	18.02
13	16.70	21	17.12	19	17.43	26	17.86
27	16.70	24	17.15	22	17.43	Dec. 3	16.69
Sept. 1	16.66	28	17.37	26	17.52	10	16.40
4	16.95	Oct. 1	17.18	29	17.52	17	17.23
8	17.04	5	17.16	Nov. 5	17.80	24	16.82
10	16.83	8	17.40	12	17.46	31	16.65
15	17.08	12	17.45				

Gi 2. James C. Gardner, Jr. Owensville. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 3 S., R. 12 W. Drilled unused well, diameter 6 inches, reported depth 90 feet. Highest water level 1.20 below lsd, Mar. 1, 1951; lowest 32.10 below lsd, Jan. 22, 1948. Records available: 1947-51.

Jan. 26	3.48	Apr. 5	3.54	June 14	6.85	Aug. 23	17.36
Feb. 1	4.90	12	2.53	28	8.10	30	17.26
9	4.10	19	3.38	July 5	7.72	Sept. 5	(j)
15	1.50	26	3.40	12	9.10	12	(j)
22	1.24	May 3	4.30	19	9.63	19	(j)
Mar. 1	1.20	10	4.65	26	9.90	Oct. 10	(j)
8	2.70	17	5.69	Aug. 2	10.80	18	(j)
15	1.49	25	4.66	9	12.39	Dec. 15	5.79
22	1.57	31	6.53	16	13.19	31	5.25
29	2.68	June 7	6.49				

j Water level below obstruction at 18 feet.

Grant County

Qt 2. City of Marion. Nebraska and 8th Sts. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 24 N., R. 8 E. Drilled unused well, diameter 10 inches, depth 110 feet. Highest water level 58.0 below lsd, May 13, 1946; lowest 86.1 below lsd, Apr. 30, 1945. Records available: 1945-50. No measurement made in 1951.

Qt 7. Anaconda Wire & Cable Co. Marion. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 24 N., R. 8 E. Drilled unused well in gravel, diameter 24 inches, depth 76 feet. Measurements made by C. C. Bishop. Highest water level 48.60 below lsd, Apr. 16, 1950, May 13, 20, 1951; lowest 63.35 below lsd, Nov. 9, 1951. Records available: 1950-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.60	54.19	53.25	49.85	51.40	50.90	57.10	54.60	60.25	62.50	62.70	62.95
2	55.95	54.25	53.35	50.85	51.80	50.10	57.70	54.55	60.30	62.60	62.70	62.90
3	55.20	53.45	52.50	51.45	52.15	48.70	56.45	55.00	60.25	62.70	62.65	62.90
4	54.65	51.85	50.95	52.40	52.40	49.85	55.40	55.15	60.30	62.75	62.70	62.80
5	54.10	52.30	51.40	53.05	51.30	50.30	53.35	53.85	60.40	62.75	62.60	62.55
6	53.25	52.80	51.75	53.50	49.95	50.55	53.95	54.20	60.45	62.70	62.85	62.55
7	51.60	53.40	52.05	53.00	50.60	50.85	53.75	54.70	60.54	62.75	63.15	62.55
8	51.75	53.95	52.40	51.50	50.70	51.95	51.50	54.55	60.90	62.75	63.25	62.55
9	52.10	54.35	52.55	52.10	51.05	51.35	51.90	55.05	61.05	62.80	63.35	62.40
10	52.45	53.40	51.50	52.60	51.10	49.50	52.45	56.25	61.15	62.80	.....	62.60
11	52.75	51.85	50.10	52.95	51.15	50.45	52.80	56.95	61.20	62.90	.....	62.50
12	53.20	53.00	50.85	52.90	49.90	51.10	53.20	57.55	61.25	62.90	.....	62.40
13	52.35	53.95	51.35	52.75	48.60	51.55	53.50	58.00	61.30	62.90	.....	62.30
14	50.95	54.45	51.75	51.50	49.65	51.90	52.75	58.55	61.50	62.95	.....	62.35
15	51.75	54.65	52.10	49.85	50.15	52.15	51.00	58.90	61.55	62.95	.....	62.40
16	52.35	54.80	52.35	50.80	50.50	51.90	51.85	59.20	61.60	63.05	63.25	62.40
17	53.10	54.60	51.25	51.10	50.85	50.75	52.65	59.40	61.70	63.05	63.25	62.45
18	53.55	53.85	49.90	51.25	51.10	51.40	53.00	59.40	61.80	63.10	63.25	62.55
19	53.80	53.45	50.85	51.60	50.15	52.05	53.35	59.35	61.90	63.10	63.20	62.60
20	52.85	53.80	51.25	51.85	48.60	52.65	53.55	59.35	62.05	63.15	63.20	62.80
21	51.55	53.75	51.65	51.00	49.55	53.10	52.70	59.35	62.15	63.15	63.20	62.75
22	52.45	53.70	52.10	49.80	50.00	53.40	51.25	59.40	62.25	62.95	63.15	62.85
23	53.35	53.65	52.35	50.65	50.40	52.75	52.00	59.45	62.40	63.05	63.10	62.85
24	54.00	53.00	51.35	51.15	50.75	51.00	52.45	59.50	62.50	62.95	.....	62.70
25	54.40	51.35	50.15	51.55	51.05	51.65	52.80	59.55	62.55	62.90	.....	62.50

Gt 7--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	54.65	52.00	51.10	51.85	50.15	53.45	53.45	59.55	62.55	62.80	.....	62.30
27	54.50	52.60	51.45	52.15	48.75	53.30	53.70	59.65	62.60	62.85	.....	62.05
28	53.65	52.90	51.70	51.30	49.90	53.50	52.80	59.75	62.60	62.85	.....	61.80
29	53.85		52.00	49.90	50.55	53.70	51.50	59.85	62.55	62.80	.....	61.75
30	54.10		52.15	51.00	49.45	56.20	52.45	59.95	62.40	62.70	63.00	61.70
31	54.00		51.15		50.40		53.05	60.10		62.75		59.75

Hamilton County

Ha 2. Public Service Co. of Indiana. Noblesville. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 19 N., R. 5 E. Drilled unused well in limestone, diameter 8 inches, reported depth 265 feet. Measurements made by personnel of Public Service Co. of Indiana. Nearby well being pumped. Highest water level 14.71 below lsd, May 19, 1943; lowest 27.33 below lsd, Sept. 15, 1941. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	22.22	Apr. 16	20.42	Aug. 6	22.88	Oct. 30	23.90
9	22.82	30	20.62	13	21.42	Nov. 6	23.90
22	21.82	May 14	20.82	21	23.32	13	23.99
29	21.97	June 4	21.72	28	23.27	20	24.10
Feb. 5	21.62	11	21.62	Sept. 4	20.62	27	23.95
12	22.12	18	20.92	11	23.82	Dec. 4	24.03
19	22.02	25	21.42	25	23.16	11	23.11
26	21.92	July 2	22.22	Oct. 2	23.70	18	23.60
Mar. 5	20.82	9	22.82	9	23.80	24	23.78
12	20.87	23	22.62	16	23.60	31	23.22
19	20.32	30	22.67	23	23.80		

Hancock County

Hc 1. New York Central System. Maxwell. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 16 N., R. 7 E. Drilled unused well, diameter 6 inches, depth 108 feet. Highest water level 12.95 below lsd, June 20, 1946; lowest 28.48 below lsd, Oct. 7, 1949. Records available: 1946-51.

Feb. 23	23.67	May 15	24.30	July 31	26.02	Oct. 16	27.45
27	23.06	22	24.74	Aug. 7	26.35	23	27.77
Mar. 5	23.32	29	25.10	14	26.55	30	27.75
12	23.20	June 5	25.30	21	26.80	Nov. 6	27.70
20	24.30	12	25.44	28	26.85	13	27.85
27	23.94	19	25.36	Sept. 4	27.00	20	27.82
Apr. 3	23.84	26	25.60	11	27.54	27	27.75
10	23.95	July 3	25.52	18	27.25	Dec. 4	27.65
17	23.54	10	25.77	25	27.30	11	27.70
24	23.82	17	25.20	Oct. 2	27.35	18	27.80
May 1	23.75	24	26.00	9	27.45	26	27.60
8	24.60						

Harrison County

Hr 1. State of Indiana. Harrison County State Forest. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, T. 4 S., R. 2 E. Dug unused well, diameter 4 feet, depth 11 feet, cribbed with stone. Measurements made by Max Parker. Highest water level flowing at lsd, Feb. 15, 28, Mar. 31, Apr. 15, 1939; lowest 5.35 below lsd, Nov. 15, 1941. Records available: 1936-51.

Jan. 6	0.80	Apr. 7	1.13	July 7	2.39	Oct. 6	3.02
14	.74	14	.79	14	1.89	13	3.04
20	.83	21	1.64	21	2.55	20	3.05
27	.85	28	1.32	28	2.21	27	2.57
Feb. 3	.88	May 5	.86	Aug. 4	2.76	Nov. 3	2.50
10	.87	12	1.73	11	2.81	10	1.25
17	.91	19	2.28	18	3.20	17	1.02
24	.81	26	2.13	25	3.24	24	.87
Mar. 3	.82	June 2	2.13	Sept. 1	2.84	Dec. 1	.85
10	1.62	9	.90	8	3.15	8	.88
17	.80	16	2.30	15	2.53	15	1.10
24	.86	23	2.30	22	2.85	22	.90
31	.87	30	1.88	29	2.67	29	.86

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. Measurements made by Max Parker. Highest water level 2.00 below lsd, Mar. 21, 1939; lowest 7.80 below lsd, Sept. 30, 1941 and Sept. 11, 1949. Records available: 1938-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.70	Apr. 7	2.87	July 7	5.51	Oct. 6	6.74
14	2.52	14	2.60	14	5.62	13	6.32
20	2.79	21	2.87	21	5.75	20	6.38
27	2.86	28	2.83	28	5.82	27	6.90
Feb. 3	2.87	May 5	2.72	Aug. 4	5.84	Nov. 3	6.34
10	2.85	12	3.02	11	6.15	10	4.07
17	2.90	19	3.79	18	6.17	17	3.14
24	2.74	26	4.18	25	6.20	24	2.47
Mar. 3	2.66	June 2	4.79	Sept. 1	6.05	Dec. 1	2.50
10	2.90	9	4.82	8	6.42	8	2.77
17	2.69	16	5.25	15	6.51	15	2.82
24	2.69	23	5.85	22	6.55	22	2.70
31	2.70	30	5.44	29	6.63	29	2.83

Hendricks County

Hd 1. Brocia A. 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. Highest water level flowing 0.3 above lsd, Apr. 17, 24, 1944; lowest 8.46 below lsd, Jan. 29, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.80	Apr. 9	.96	July 9	3.58	Oct. 8	6.26
8	2.47	16	.34	16	3.26	15	6.44
15	2.00	23	.85	23	3.54	22	6.58
22	1.10	30	1.36	30	3.67	29	6.24
29	1.79	May 7	1.76	Aug. 6	4.09	Nov. 5	6.57
Feb. 5	2.44	14	1.78	13	4.44	12	5.88
12	2.73	21	2.10	20	4.73	19	4.66
19	2.04	28	2.61	27	5.02	26	3.00
26	.84	June 4	3.06	Sept. 3	5.30	Dec. 3	2.86
Mar. 5	.92	11	3.53	10	5.55	10	1.54
12	1.42	17	3.63	17	5.76	17	1.86
18	.68	25	3.97	24	6.16	24	1.72
26	1.10	July 2	3.55	Oct. 1	6.10	31	1.66
Apr. 2	1.05						

Hd 2. John C. Gambold. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 15 N., R. 2 W. Drilled unused well in gravel, diameter 4 inches, depth 170 feet. Highest water level 14.93 below lsd, Apr. 9, 1950; lowest 24.11 below lsd, Oct. 17, 1948. Records available: 1948, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	18.14	Apr. 28	16.93	Aug. 5	20.78	Oct. 21	23.04
10	18.78	5	16.71	11	20.97	27	22.76
17	18.08	12	16.34	18	21.33	Nov. 3	22.75
24	16.19	19	16.97	25	21.70	10	22.55
Mar. 3	16.29	26	18.07	Sept. 1	21.87	18	21.95
10	17.09	June 2	18.74	8	22.15	24	21.41
17	17.29	8	19.05	15	22.38	Dec. 1	20.94
24	16.62	16	19.25	22	22.60	8	20.03
31	17.14	23	19.70	29	22.77	18	19.03
Apr. 7	17.23	30	18.95	Oct. 5	22.90	22	19.36
14	16.11	July 21	19.85	13	22.94	29	18.36
21	16.21	28	20.22				

Hd 3. John C. Gambold. Coatesville. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 15 N., R. 2 W. Dug unused well, diameter 36 inches, depth 17 feet, cribbed with brick. Highest water level 1.30 below lsd, Feb. 17, 1951; lowest 8.46 below lsd, Oct. 23, 31, 1948. Records available: 1948, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	3.61	Apr. 21	3.08	July 28	5.03	Oct. 21	7.50
Feb. 3	3.95	28	3.12	Aug. 5	5.88	27	6.60
10	3.76	May 5	3.44	11	5.77	Nov. 3	6.60
17	1.30	12	2.29	18	6.27	10	5.92
24	1.39	19	3.77	25	6.73	18	4.36
Mar. 3	2.16	26	4.18	Sept. 1	6.77	24	2.55
10	3.21	June 2	4.42	8	7.02	Dec. 1	3.70
17	2.27	8	4.44	15	7.04	8	2.00
24	2.79	16	3.79	22	7.28	18	3.48
31	2.63	23	4.53	29	7.34	22	3.35
Apr. 7	3.34	30	1.57	Oct. 5	7.46	29	2.59
14	1.59	July 21	4.75	13	7.38		

Henry County

Hy 2. Gilbert M. Casey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 17 N., R. 9 E. Drilled unused well, diameter 1 $\frac{1}{4}$ inches, depth 40 feet. Highest water level 10.25 below lsd, Jan. 15, 1950; lowest 18.15 below lsd, Nov. 17, 1946. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	13.60	Apr. 8	11.10	July 8	13.90	Oct. 7	17.26
14	12.25	15	11.15	15	13.48	14	17.48
21	11.67	22	11.55	22	13.75	21	17.73
28	11.90	29	11.65	29	13.90	28	17.77
Feb. 4	12.90	May 6	12.24	Aug. 5	14.20	Nov. 4	17.90
11	13.20	13	12.48	12	14.90	12	18.00
18	12.10	20	12.70	19	15.15	18	17.95
25	11.55	27	13.15	26	15.50	25	17.91
Mar. 4	11.95	June 3	13.52	Sept. 2	16.05	Dec. 2	17.32
11	12.20	10	13.75	9	16.15	9	15.81
18	12.70	17	13.85	16	16.45	17	15.24
25	11.70	24	13.90	23	16.73	23	14.90
Apr. 1	11.60	July 1	13.85	30	16.89	30	14.77

Howard County

Ho 4. John A. Moore. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 24 N., R. 4 E. Dug unused well, diameter 42 inches, depth 18 feet, cribbed with brick. Highest water level 0.96 below lsd, Apr. 10, 1948; lowest 15.22 below lsd, Jan. 5, 1947. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	4.45	Apr. 14	1.24	July 14	7.51	Oct. 13	10.67
13	4.41	21	2.41	21	7.76	20	10.88
20	3.62	28	3.56	28	7.87	27	11.14
27	3.61	May 5	3.82	Aug. 4	8.22	Nov. 3	11.52
Feb. 3	3.81	12	3.70	11	8.46	10	11.75
10	5.39	19	3.84	18	8.70	17	11.89
17	4.86	26	4.56	25	9.03	24	12.19
24	3.57	June 2	5.15	Sept. 1	9.23	Dec. 1	12.34
Mar. 10	1.94	9	5.65	8	9.45	8	12.40
17	2.28	16	6.10	15	9.63	15	12.35
24	2.80	23	6.41	22	9.87	22	12.13
31	3.49	30	6.79	29	10.20	28	10.81
Apr. 7	3.62	July 7	7.27	Oct. 6	10.41		

Huntington County

Hu 1. S. W. Schell. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 27 N., R. 8 E. Dug unused well, diameter 36 inches, depth 42 feet, cribbed with brick. Highest water level 1.80 below lsd, Apr. 23, 1950; lowest 36.80 below lsd, Sept. 12, 1948. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	2.55	Apr. 8	2.55	July 8	4.20	Oct. 8	31.00
14	2.70	15	2.50	15	4.40	14	32.70
21	2.60	22	2.50	22	5.00	21	32.90
28	2.65	29	2.60	29	5.50	29	33.20
Feb. 4	2.70	May 6	2.70	Aug. 5	7.70	Nov. 4	33.10
13	2.70	15	2.80	13	9.80	11	32.50
17	2.40	20	3.00	19	11.50	18	29.90
25	2.50	27	3.40	26	11.60	25	26.20
Mar. 4	2.65	June 3	3.50	Sept. 1	12.00	Dec. 2	16.70
11	2.70	10	3.60	9	14.70	9	5.80
18	2.75	18	3.90	16	17.30	16	4.00
25	2.90	24	4.10	23	21.10	23	2.70
Apr. 1	2.70	30	4.20	Oct. 1	25.80	30	2.60

Jackson County

Jk 1. State of Indiana. Jackson County State Forest. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 5 N., R. 5 E. Dug unused well, diameter 36 inches, depth 16 feet, cribbed with stone. Measurements made by Curtis Reynolds. Highest water level 1.2 below lsd, Apr. 15, 1939; lowest 16.71 below lsd, Nov. 7, 1949. Records available: 1936-51.

Jk 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	7.02	May 28	4.42	Aug. 20	5.85	Oct. 25	6.38
8	5.19	June 4	4.83	27	6.10	29	6.37
15	1.68	11	6.04	Sept. 3	6.07	Nov. 5	6.45
22	4.88	18	5.32	10	6.04	13	6.15
29	4.54	25	5.08	17	6.15	19	6.15
Feb. 5	5.23	July 26	5.25	24	6.15	26	5.59
12	3.96	30	5.52	Oct. 1	6.15	Dec. 3	5.50
19	2.92	Aug. 6	5.60	8	6.33	10	4.13
26	2.95	13	5.80	15	6.43	24	2.44
May 23	4.41						

Jk 2. Hiram H. Martin. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 6 N., R. 2 E. Drilled unused well in rock, diameter 6 inches, reported depth 92 feet. Highest water level 10.18 below lsd, Apr. 23, 1951; lowest 18.87 below lsd, Feb. 16, 1944. Records available: 1944-51.

Jan. 2	11.67	Apr. 9	10.20	July 9	12.61	Oct. 8	14.67
8	11.37	16	10.24	16	12.20	15	15.02
15	10.90	23	10.18	23	12.12	22	15.18
22	11.33	30	10.37	30	12.01	29	15.48
29	11.23	May 7	10.61	Aug. 6	11.87	Nov. 5	15.69
Feb. 5	11.45	14	11.03	13	12.12	12	15.77
12	11.10	21	11.83	21	12.28	19	15.86
19	10.83	28	11.85	27	12.62	26	15.22
26	10.80	June 4	11.80	Sept. 3	12.67	Dec. 3	14.20
Mar. 5	10.55	11	11.85	10	13.19	10	14.05
12	10.41	18	12.22	16	13.59	17	13.37
19	10.50	25	12.60	24	13.66	24	12.85
26	10.46	July 2	12.55	Oct. 1	14.27	31	11.85
Apr. 2	10.21						

Jasper County

Jp 3. Harry E. Brunton. Parr. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 30 N., R. 7 W. Drilled unused well in gravel, diameter 4 inches, depth 36 feet. Highest water level 8.65 below lsd, Apr. 8, 1950; lowest 12.15 below lsd, Nov. 14, 1949. Records available: 1948-51.

Jan. 2	10.00	Apr. 2	9.56	July 2	9.73	Oct. 1	10.34
9	10.20	9	9.33	9	9.15	8	10.43
15	9.60	16	9.40	16	9.86	15	10.47
22	10.24	23	9.52	23	9.74	22	10.46
29	10.31	30	9.39	30	9.73	29	10.33
Feb. 5	10.17	May 7	9.56	Aug. 5	9.60	Nov. 5	10.36
12	9.93	14	9.62	13	9.60	12	10.25
21	10.00	21	9.35	20	9.80	19	10.04
26	9.80	28	9.25	26	9.40	26	10.06
Mar. 5	9.90	June 4	9.74	Sept. 3	9.98	Dec. 4	9.83
12	9.89	11	9.51	10	10.04	10	9.81
19	9.75	18	9.59	17	10.29	17	9.82
26	9.83	25	9.70	24	10.36	26	9.83

Jay County

Jy 2. Armstrong Cork Co. Dunkirk. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 22 N., R. 12 E. Drilled unused well in limestone, diameter 3 inches, depth 85 feet. Measurements made by J. T. Martin. Highest water level 31.29 below lsd, May 5, 1951; lowest 38.29 below lsd, Dec. 6, 1947. Records available: 1947-51.

Jan. 6	32.09	May 15	31.78	July 21	32.38	Sept. 15	32.72
13	32.39	19	31.47	28	32.43	22	32.38
20	32.20	26	32.65	Aug. 4	32.08	29	32.72
27	32.38	June 2	31.91	11	32.50	Oct. 20	32.07
Feb. 3	31.83	9	32.77	18	32.08	27	32.57
10	32.55	14	32.76	25	32.47	Nov. 3	32.78
24	33.05	22	32.42	Sept. 1	31.89	Dec. 15	32.43
Mar. 3	33.09	30	32.08	8	32.58	29	34.13
May 5	31.29	July 14	31.96				

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. Measurements made by Lewis Summers. Highest water level 15.33 below lsd, Apr. 1, 1946; lowest 32.5 below lsd, Aug. 16, 1943. Records available: 1937-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	28.70	Apr. 14	25.59	July 21	27.42	Sept. 17	27.28
18	26.06	21	25.89	28	27.44	24	27.29
26	26.28	28	25.90	Aug. 6	27.70	Oct. 8	27.50
Feb. 10	26.28	May 5	25.69	13	27.06	20	27.37
23	26.12	12	25.90	21	27.11	Nov. 10	27.10
Mar. 6	26.30	26	25.70	Sept. 1	27.04	24	26.60
24	25.90	June 29	26.69	8	27.51	Dec. 1	26.70
31	25.90						

Jennings County

Jn 1. State of Indiana. Muscatatuck State Park. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 6 N., R. 8 E. Dug unused well, diameter 36 inches, depth 19 feet. Highest water level 0.41 below lsd, Jan. 24, 1949; lowest 16.98 below lsd, Dec. 15, 1943. Records available: 1936-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.85	3.75	3.50	2.05	3.60	6.60	7.40	11.35	13.20	14.50	15.35	15.20
2	7.00	4.05	3.70	2.05	3.80	6.80	7.30	11.45	13.25	14.55	15.40	15.15
3	....	4.30	3.65	2.30	3.95	7.00	7.40	11.50	13.30	14.55	15.40	15.15
4	....	4.40	1.50	2.55	4.00	7.10	7.45	11.60	13.30	14.60	15.45	15.15
5	....	4.45	2.00	2.85	4.05	7.30	7.60	11.70	13.35	14.60	15.45	14.85
6	....	4.60	2.30	3.10	4.25	7.50	7.95	11.75	13.40	14.65	15.45	14.55
7	h4.05	3.70	2.55	3.15	4.00	7.60	8.20	11.80	13.45	14.70	15.45	13.95
8	4.20	3.35	2.85	1.75	3.85	7.65	8.40	11.85	13.50	14.70	15.45	12.35
9	4.45	3.55	3.25	1.85	3.75	7.75	8.55	11.90	13.55	14.75	15.50	10.35
10	4.60	3.80	3.55	1.50	3.75	7.95	8.80	11.95	13.65	14.80	15.50	9.65
11	4.30	3.95	3.70	1.80	1.60	8.10	9.05	12.00	13.70	14.80	15.50	9.75
12	3.75	3.60	3.70	1.10	1.95	8.30	9.25	12.10	13.75	14.85	15.50	9.90
13	3.75	1.30	3.65	1.30	2.40	8.45	9.45	12.15	13.80	14.85	15.50	10.20
14	3.60	1.35	3.55	1.25	2.85	8.65	9.60	12.20	13.85	14.90	15.50	10.50
15	1.35	1.85	3.50	1.60	3.20	8.80	9.75	12.25	13.85	14.95	15.45	10.20
16	2.05	2.15	3.25	2.05	3.40	8.95	9.90	12.30	13.90	14.95	15.45	10.15
17	2.60	1.85	2.90	2.40	3.60	9.05	10.00	12.35	13.95	15.00	15.45	10.25
18	3.00	2.15	.65	2.70	3.85	9.10	10.15	12.45	14.00	15.00	15.45	.....
19	3.45	2.35	1.50	2.85	4.10	9.30	10.25	12.50	14.05	15.05	15.50	.....
20	3.70	2.55	1.75	3.15	4.30	9.40	10.40	12.55	14.10	15.05	15.50	.....
21	4.05	.45	1.60	3.40	4.55	9.55	10.55	12.60	14.15	15.10	15.50	.....
22	4.30	1.65	1.60	1.60	4.80	9.65	10.65	12.65	14.15	15.10	15.50	.....
23	4.50	2.10	1.60	1.75	5.00	9.65	10.80	12.70	14.20	15.15	15.50	.....
24	....	2.50	1.80	2.10	5.25	9.40	10.90	12.80	14.25	15.15	15.40	8.10
25	....	2.80	2.20	2.30	5.45	9.45	11.00	12.85	14.30	15.20	15.35	8.50
26	....	3.00	2.55	2.60	5.60	9.55	11.10	12.85	14.35	15.20	15.25	5.45
27	....	3.25	2.75	2.95	5.65	9.60	11.15	12.95	14.40	15.25	15.25	6.00
28	h3.95	3.45	2.80	3.15	5.70	9.40	11.20	13.00	14.40	15.25	15.20	6.75
29	3.25		1.60	3.30	5.85	8.60	11.20	13.05	14.45	15.30	15.20	7.20
30	3.50		1.10	3.40	6.10	7.70	11.25	13.10	14.50	15.35	15.20	7.50
31	3.70		1.75		6.40		11.30	13.15		15.35		7.90

h Tape measurement.

Knox County

Kn 1. William M. Downey. Monroe City. SE $\frac{1}{4}$ sec. 12, T. 2 N., R. 9 W. Dug unused well in gravel, diameter 30 inches, depth 38 feet, cribbed with tile. Highest water level 29.19 below lsd, May 10, 1951; lowest 37.22 below lsd, Feb. 22, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	30.78	Feb. 8	30.45	Mar. 15	29.95	Apr. 19	29.37
11	30.72	15	30.40	22	29.80	26	29.26
18	30.64	22	30.38	26	29.64	May 3	29.20
25	30.55	Mar. 1	30.20	Apr. 5	29.58	10	29.19
Feb. 1	30.46	8	30.10	12	29.38	17	29.27

Kn 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 24	29.30	July 26	29.89	Sept. 20	30.40	Nov. 8	30.77
31	29.36	Aug. 2	29.94	27	30.45	15	30.90
June 7	29.40	9	30.00	Oct. 4	30.50	22	30.88
14	29.50	16	30.03	11	30.60	29	30.97
21	29.54	23	30.14	18	30.64	Dec. 13	30.86
July 5	29.60	30	30.15	25	30.70	20	30.80
12	29.70	Sept. 6	30.24	Nov. 1	30.75	27	30.75
19	29.82	13	30.32				

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. Measurements made by C. R. Silvens. Highest water level 3.25 above lsd, May 1, 1944; lowest 1.35 above lsd, Nov. 3, 1938. Records available: 1938-39, 1941-51.

Water level above land-surface datum

Jan. 6	2.58	Apr. 7	2.87	July 7	2.65	Oct. 6	2.37
13	2.58	14	2.94	14	2.77	13	2.35
20	2.56	21	2.68	21	2.77	20	2.45
27	2.54	28	2.98	28	2.75	27	2.45
Feb. 3	2.50	May 5	2.92	Aug. 4	2.75	Nov. 3	2.44
10	2.42	12	2.92	11	2.62	10	2.44
17	2.50	19	2.88	18	2.67	17	2.38
24	2.71	26	2.84	25	2.61	24	2.46
Mar. 3	2.93	June 2	2.85	Sept. 1	2.87	Dec. 1	2.45
10	2.63	9	2.88	8	2.83	8	2.42
17	2.63	16	2.77	17	2.53	15	2.51
24	2.62	23	2.77	22	2.50	22	2.51
31	2.78	30	2.79	29	2.49	29	2.66

Ko 3. Millard G. Stookay. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 33 N., R. 5 E. Driven unused well in glacial drift, diameter 1 $\frac{1}{4}$ inches, depth 21 feet. Highest water level 8.50 below lsd, Mar. 19, 1951; lowest 14.29 below lsd, Dec. 27, 1948. Records available: 1945-51.

Jan. 6	10.09	Apr. 16	8.78	June 25	9.38	Sept. 10	9.46
13	10.01	23	8.81	July 2	9.40	17	9.50
27	10.13	30	8.81	9	9.36	24	9.57
Feb. 12	10.19	May 7	9.06	16	9.22	Oct. 8	10.02
19	9.40	14	9.11	23	8.98	15	9.82
26	8.81	21	9.07	30	8.91	29	9.69
Mar. 5	8.66	28	9.03	Aug. 13	9.24	Nov. 5	9.50
19	8.50	June 4	9.08	20	9.29	Dec. 3	10.45
26	8.73	11	9.18	27	9.31	17	10.64
Apr. 2	8.82	18	9.26	Sept. 3	9.40	24	10.82
9	8.82						

La Porte County

Lp 1. City of La Porte. Kankakee well field. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 37 N., R. 2 W. Dug public-supply well in sand and gravel, diameter 50 feet, reported depth 40 feet. Measurements made by Arthur C. Baker. Pumping. Highest water level 0.52 above lsd, June 24, 1950; lowest 17.30 below lsd, Aug. 23, 1947. Records available: 1942-51.

Jan. 6	0.50	Apr. 7	2.62	July 7	4.25	Oct. 6	0.21
13	8.20	14	2.30	14	4.15	13	.23
20	3.20	21	3.40	21	5.20	20	.48
27	1.16	28	3.30	28	3.40	27	.17
Feb. 3	2.60	May 5	3.20	Aug. 4	3.70	Nov. 3	.07
10	3.62	12	1.55	11	2.25	10	+ .05
17	3.54	19	2.82	18	2.95	17	+ .15
24	3.30	26	3.15	25	7.25	24	.51
Mar. 3	3.50	June 2	3.40	Sept. 1	3.02	Dec. 1	.04
10	4.20	9	3.60	8	3.23	8	.02
17	4.10	16	7.40	15	3.44	15	+ .02
24	5.60	23	4.05	22	2.71	22	+ .06
31	4.10	30	5.45	29	.66	29	.01

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. Measurements made by Frank Burger. Highest water level 0.34 below lsd, Apr. 8, 1950; lowest 7.22 below lsd, Oct. 11, 1946. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	4.17	Apr. 7	4.19	July 14	3.08	Oct. 13	5.65
13	3.89	14	3.55	21	4.17	20	5.67
20	4.10	21	3.48	28	4.49	27	4.58
27	4.44	28	3.69	Aug. 4	4.87	Nov. 3	4.30
Feb. 3	4.41	May 5	3.89	18	5.19	10	4.34
10	4.37	12	3.67	25	5.23	17	3.50
17	4.19	19	3.68	Sept. 1	5.45	24	3.27
24	3.73	26	4.02	8	5.66	Dec. 1	3.32
Mar. 3	3.58	June 2	4.24	15	5.62	8	3.23
10	3.89	9	4.56	22	5.66	15	3.99
17	3.89	23	4.98	29	5.66	22	3.65
24	4.08	30	5.12	Oct. 6	5.81	29	4.33
31	4.15	July 7	5.42				

Lawrence County

Lw 2. Roscoe Ingram. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 4 N., R. 1 W. Dug unused well, diameter 24 inches, depth 26 feet, cribbed with brick. Highest water level 7.29 below lsd, Jan. 26, 1949; lowest 22.34 below lsd, Nov. 2, 1949. Records available: 1944-51.

Jan. 3	20.42	Apr. 4	15.40	July 4	21.38	Oct. 3	21.39
10	19.03	11	15.46	11	21.40	10	21.42
17	10.12	18	17.70	18	21.39	17	21.44
24	18.91	25	19.31	25	21.39	24	21.46
31	20.86	May 2	21.24	Aug. 1	21.39	31	21.46
Feb. 7	20.94	9	21.38	8	21.39	Nov. 7	21.35
14	14.36	16	21.38	15	21.41	14	21.18
21	9.06	23	21.32	22	21.42	21	21.32
28	18.37	30	21.43	29	21.41	28	21.29
Mar. 7	16.41	June 6	21.35	Sept. 5	21.38	Dec. 5	19.72
14	18.52	13	21.41	12	21.40	12	18.76
21	11.02	20	21.27	19	21.37	19	21.18
28	12.26	27	21.39	26	21.37	26	16.81

Madison County

Md 3. Mrs. Albert Closser. Frankton. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 21 N., R. 7 E. Drilled unused well, diameter 4 inches, depth 36 feet. Highest water level 18.39 below lsd, June 16, 1939; lowest dry 25.3 below lsd, Sept. 30, 1939-Mar. 31, Oct. 15, 1940-Oct. 28, 1941. Records available: 1935-41, 1947-51.

Apr. 19	19.04	June 23	20.36	Sept. 1	22.02	Nov. 3	23.40
21	19.0	30	20.38	8	22.18	10	23.61
28	19.08	July 7	20.72	15	22.38	17	23.65
May 5	19.20	14	20.82	22	22.53	24	23.73
12	19.34	21	20.92	29	22.77	Dec. 1	24.19
19	19.31	28	20.74	Oct. 6	22.94	8	23.74
26	19.38	Aug. 4	21.24	13	23.11	15	22.95
June 2	19.79	11	21.31	20	23.29	22	23.23
9	19.94	18	21.61	27	23.34	29	23.12
16	20.09	25	21.81				

Md 6. Ivan P. Moorman. Formerly Russell Wann. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 21 N., R. 7 E. Driven unused well, diameter 1 $\frac{1}{2}$ inches, depth 35 feet. Highest water level 3.33 below lsd, Apr. 8, 1948; lowest 13.13 below lsd, Nov. 5, 1951. Records available: 1947-51.

Apr. 20	5.21	June 28	7.95	Aug. 27	10.74	Oct. 29	12.97
23	5.19	July 2	7.57	Sept. 4	11.34	Nov. 5	13.13
30	5.32	8	8.00	10	11.39	12	13.06
May 5	6.11	16	7.92	17	11.81	19	12.96
14	5.11	23	8.34	24	11.96	26	12.86
21	5.67	30	8.82	Oct. 1	12.32	Dec. 3	12.79
28	6.38	Aug. 6	9.24	8	12.74	10	12.76
June 4	6.62	13	9.86	15	12.76	17	8.24
12	6.76	20	10.28	22	12.75	24	7.83

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 18 feet. Measurements made by Jesse E. Little. Highest water level flowing 0.50 above lsd, Jan. 30 to Mar. 12, 1950; Apr. 16, 21, 1951; lowest 13.9 below lsd, Aug. 7, 1946. Records available: 1935-36, 1938-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	5.16	Apr. 2	0.17	July 16	3.89	Oct. 15	6.31
9	4.96	30	.60	23	4.19	22	6.52
15	4.30	May 7	.80	30	4.39	29	6.65
22	4.10	14	.98	Aug. 6	4.59	Nov. 5	6.80
29	4.08	21	2.39	20	5.08	12	6.84
Feb. 5	4.06	28	1.97	27	5.17	18	6.95
12	3.76	June 4	3.40	Sept. 3	5.29	25	6.92
19	3.04	11	2.84	10	5.30	Dec. 3	7.09
26	4.29	18	3.08	17	5.20	9	7.12
Mar. 12	3.31	24	3.40	24	5.86	17	7.06
18	3.38	July 2	3.54	Oct. 1	6.08	24	7.08
26	2.09	9	3.64	8	6.26	31	6.59

Md 8. Indiana Die Castings Corp. 26th and H. Sts., Elwood. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 21 N., R. 6 E. Drilled unused artesian well in limestone, diameter 8 inches, depth 415 feet. Nearby well being pumped. Highest water level 15.2 below lsd, Mar. 5, 1950; lowest 55.4 below lsd, Sept. 20-22, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.9	45.3	37.0	41.0	42.3	46.3	46.5	35.9	25.7	35.5	38.3	42.2
2	44.3	45.3	40.2	42.2	42.4	45.8	47.8	26.4	24.9	36.7	37.3	33.1
3	44.5	43.1	40.0	42.6	34.5	45.5	48.0	24.0	24.8	39.1	34.1	38.2
4	45.0	43.1	39.0	42.8	41.4	46.0	48.0	23.3	25.2	42.0	31.4	41.9
5	44.8	44.4	40.7	43.1	41.6	46.2	45.0	22.4	25.5	42.9	35.6	41.7
6	44.6	44.6	41.3	42.8	41.7	46.6	47.3	22.5	25.5	40.6	36.8	43.8
7	43.0	44.9	42.0	32.9	45.0	46.6	47.3	30.5	25.7	33.3	37.8	44.2
8	43.9	45.2	42.2	34.3	45.3	46.7	h47.1	35.8	25.4	28.3	37.8	42.6
9	44.3	45.4	26.0	40.0	43.4	47.2	....	37.0	24.7	27.5	36.4	32.3
10	44.7	45.4	19.6	41.3	43.4	47.3	....	37.8	25.2	27.4	33.1	36.1
11	44.9	44.7	30.5	41.3	43.2	47.2	....	37.6	25.4	40.8	30.1	39.4
12	45.3	44.8	40.4	40.8	43.3	47.3	....	30.8	25.5	45.6	34.2	40.7
13	45.3	44.6	43.1	40.6	42.9	47.4	....	35.3	25.6	43.4	35.3	40.5
14	44.7	44.8	43.3	41.4	42.4	47.5	....	38.3	25.6	30.1	36.3	40.1
15	44.3	44.7	42.7	41.0	42.7	47.7	48.0	39.6	25.5	27.5	37.3	38.6
16	44.9	44.0	43.1	42.2	42.7	47.6	49.3	39.6	25.1	27.5	36.7	29.7
17	45.0	43.8	43.0	41.8	44.1	47.8	48.6	39.0	25.9	35.0	35.1	37.2
18	44.9	43.8	41.7	40.9	44.4	47.9	48.8	37.0	26.1	41.0	31.3	38.9
19	44.5	45.1	42.3	41.0	44.3	47.6	48.9	32.7	26.3	43.2	37.5	40.2
20	44.2	45.2	42.5	41.3	42.8	48.0	49.1	37.0	26.3	41.2	39.7	40.0
21	43.0	43.3	42.7	41.0	42.5	48.3	46.0	38.4	26.4	34.4	41.2	38.0
22	43.1	42.4	42.7	39.9	44.5	48.2	30.8	39.3	26.2	40.2	39.6	....
23	43.2	42.2	42.7	41.2	45.1	48.2	24.8	....	26.0	41.0	38.3	....
24	43.2	42.0	42.8	40.9	45.8	46.0	23.6	....	26.2	42.5	36.6	....
25	43.4	39.8	43.2	41.2	45.8	48.0	23.0	....	26.4	41.6	30.3	27.2
26	43.3	41.7	25.7	41.6	45.5	48.6	26.5	....	26.4	40.9	38.8	36.2
27	43.1	41.6	25.7	41.6	45.5	48.1	24.6	....	26.7	39.0	41.4	37.4
28	40.7	26.4	20.0	43.2	45.4	42.1	22.7	34.9	26.8	32.7	42.1	38.2
29	43.2	18.3	43.2	45.6	30.5	21.6	27.0	26.6	38.0	43.4	36.6	....
30	43.9	17.8	43.4	45.8	40.1	28.0	31.5	26.0	38.0	43.2	28.2	....
31	44.2	34.2	46.3	....	....	33.8	29.5	....	38.5	....	26.4	....

h Tape measurement.

Md 9. Elwood Trailer Corp. 9th and North J. Sts., Elwood. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 21 N., R. 6 E. Drilled unused artesian well in limestone, diameter 8 inches. Nearby well being pumped. Highest water level 20.4 below lsd, Jan. 17, 1950; lowest 41.5 below lsd, Aug. 31, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.2	25.7	24.5	24.7	26.3	28.1	29.8	....	41.0	39.4	33.2	31.8
2	25.5	26.0	24.2	24.7	26.7	28.4	30.5	....	39.8	40.2	33.2	31.1
3	25.6	26.0	23.7	25.1	26.4	27.8	30.7	....	39.6	40.8	33.0	....
4	26.0	25.9	23.5	25.2	27.0	28.1	30.0	....	40.4	40.8	32.1	31.3
5	25.8	26.5	24.0	25.5	27.0	28.3	29.5	....	40.9	41.0	33.1	31.0

Md 9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	25.6	26.4	24.2	25.4	26.6	28.5	31.5	30.7	41.3	40.5	32.5	30.9
7	25.4	26.8	24.7	25.0	26.9	28.8	30.0	30.5	41.3	38.6	32.5	30.8
8	25.5	27.2	24.8	24.3	27.3	28.7	29.7	32.9	40.7	39.2	32.8	30.4
9	25.5	27.5	24.7	24.8	27.5	28.4	29.8	33.3	38.7	39.2	32.9	29.6
10	25.5	27.4	24.9	24.5	27.1	27.8	29.9	34.2	39.0	39.5	32.7	30.2
11	25.8	26.2	24.7	24.8	26.9	29.4	29.8	36.0	39.3	39.7	32.1	29.9
12	26.3	26.0	24.7	24.8	26.4	29.4	30.2	34.8	39.8	40.0	32.4	29.5
13	26.1	26.2	24.6	24.6	26.1	29.6	30.0	34.7	40.0	39.9	32.2	29.9
14	24.9	26.4	24.8	24.8	26.7	29.5	30.0	36.8	40.1	38.0	32.5	29.5
15	24.8	26.2	25.0	24.4	26.8	29.8	30.5	37.9	40.1	39.0	32.7	29.2
16	25.0	26.0	24.9	25.4	27.5	29.8	30.5	37.8	38.9	39.0	32.6	....
17	24.9	25.6	24.7	25.1	29.6	29.6	31.3	36.3	39.9	39.3	32.2	29.8
18	24.9	25.8	24.4	25.0	30.4	29.7	31.6	37.4	40.5	37.8	32.1	29.9
19	24.8	25.7	24.3	25.0	29.1	30.1	31.1	35.5	40.6	35.8	32.3	30.3
20	25.1	25.5	24.7	25.2	27.1	31.1	31.0	36.8	40.7	35.2	32.4	29.9
21	25.1	24.9	25.0	24.7	27.8	31.1	30.6	38.9	40.9	34.0	32.2	30.0
22	24.9	25.1	25.0	24.3	27.6	31.1	31.4	39.5	39.9	34.2	31.9	29.7
23	24.9	24.7	24.6	25.3	27.3	31.3	30.9	39.2	38.8	34.0	32.0	29.4
24	25.1	24.5	24.4	25.5	27.8	31.2	30.6	40.0	39.8	33.8	31.9	29.4
25	25.2	23.9	24.4	25.6	28.0	31.1	31.0	36.9	38.5	33.9	31.4	29.0
26	25.2	23.7	24.9	25.6	27.3	30.8	31.1	37.9	39.4	33.6	32.0	29.7
27	25.1	24.1	24.6	25.6	26.9	30.9	31.6	38.2	40.8	33.1	32.4	29.8
28	24.8	24.2	25.1	25.5	27.4	31.3	31.3	39.6	40.0	32.4	32.1	29.1
29	25.3		25.2	24.9	27.9	30.7	31.2	40.4	39.1	33.3	32.2	28.7
30	25.7		25.2	25.9	27.4	30.2	....	40.8	38.0	33.1	32.1	27.8
31	25.6		24.8		28.0		....	41.5		33.3		27.2

Marion County

Ma 1. Indianapolis Water Co. Riverside pumping station. 18th and Harding Sts. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 16 N., R. 3 E. Drilled unused artesian well in limestone, diameter 10 inches, depth 351 feet, cased to 84. Land-surface datum is 701.28 feet above msl. Measurements made by personnel of Indianapolis Water Co. Nearby well being pumped. Highest water level 13.85 below lsd, Apr. 16, 1938; lowest 37.46 below lsd, Aug. 5, 1941. Records available: 1935-51. Apr. 9, 15.80; Dec. 10, 17.34; Dec. 11, 17.44; Dec. 12, 17.50; Dec. 17, 17.34; Dec. 27, 17.02; Dec. 28, 16.44;

Ma 2. Indiana National Bank. 130 East Washington St. 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. Nearby well being pumped. Highest water level 40.43 below lsd, Apr. 18, 1950; lowest 70.55 below lsd, Sept. 21, 1941. Records available: 1935-51.

Daily 2 a. m. water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.18	41.91	41.14	....	42.04	44.26	48.58	50.73	52.56	50.82	....	45.89
2	43.02	41.97	41.19	h41.09	42.33	44.68	48.55	50.92	52.73	50.60	....	45.87
3	42.87	42.02	41.12	41.17	42.71	45.15	48.43	51.08	52.74	50.65	....	45.82
4	42.95	41.89	41.16	41.11	42.79	45.08	48.42	51.26	52.56	50.82	....	45.72
5	43.18	41.77	41.19	41.03	42.73	44.81	48.41	51.38	52.40	51.12	....	45.74
6	43.12	41.73	41.12	41.02	42.66	44.71	48.35	51.27	52.43	51.47	48.08	45.68
7	43.05	41.64	41.07	40.95	42.45	44.86	48.36	51.18	52.45	51.66	47.79	45.65
8	42.87	41.82	41.17	40.92	42.23	45.01	48.35	51.18	52.46	51.63	47.69	45.80
9	42.80	41.82	41.30	41.10	42.22	45.38	48.10	51.30	52.28	51.27	47.98	45.82
10	42.74	41.80	41.35	41.26	42.34	45.68	48.19	51.46	52.01	50.92	47.92	45.78
11	42.68	41.68	41.27	41.24	42.31	45.45	48.37	51.62	51.88	50.60	47.85	45.60
12	42.74	41.53	41.08	41.06	42.29	45.25	48.60	51.75	51.82	50.38	47.79	45.45
13	42.72	41.47	40.91	40.91	42.29	45.39	48.87	51.72	51.96	50.27	47.73	45.40
14	42.60	41.62	40.82	40.84	42.26	45.81	49.08	51.68	52.01	50.20	47.04	45.41
15	42.42	41.67	40.83	40.78	42.29	46.00	49.24	51.69	52.03	50.06	47.07	45.26
16	42.46	41.55	40.88	40.74	42.61	46.06	49.18	51.82	52.12	49.95	47.05	45.31
17	42.45	41.46	40.92	40.68	42.90	46.26	49.13	51.98	52.01	49.99	47.03	45.20
18	42.38	41.45	40.88	40.61	43.48	46.16	49.24	52.13	51.76	50.07	46.97	45.02
19	42.36	41.31	40.82	40.54	43.93	46.33	49.43	52.27	51.60	50.12	46.86	45.03
20	42.35	41.30	40.74	e40.65	44.63	46.76	49.64	52.22	51.66	50.09	46.76	44.93
21	42.48	41.21	40.72	....	44.61	47.25	49.86	52.15	51.71	49.99	46.66	44.78
22	42.58	41.40	40.69	....	44.65	47.56	50.05	52.16	51.92	49.92	46.55	44.89
23	42.37	41.42	40.63	h40.84	44.77	47.82	50.03	52.24	51.98	49.83	46.42	44.87
24	42.25	41.40	40.69	40.76	44.69	48.06	50.01	52.23	51.81	49.77	....	44.79
25	42.24	41.32	40.85	40.65	44.74	47.99	50.03	52.16	51.62	49.75	46.30	44.68

Ma 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	42.22	41.15	40.79	41.12	44.88	47.85	50.16	52.11	51.55	49.67	46.11	44.53
27	42.13	41.15	40.71	41.14	44.76	47.95	50.33	53.03	51.60	49.62	46.09	44.55
28	42.15	41.23	40.62	41.22	44.29	48.17	50.53	52.02	51.59	49.52	46.03	44.50
29	42.11		40.58	41.68	43.98	48.35	50.71	52.07	51.40	49.40	45.97	44.34
30	42.11		.....	41.72	44.06	48.50	50.72	52.19	51.12	49.24	45.93	44.27
31	42.03		.....		44.00		50.74	52.37		.....		44.22

e Estimated.

h Tape measurement.

Ma 3. City of Indianapolis. Emmrich Manual Training High School. Meridian and Madison Sts. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 6 inches, depth 162 feet, cased to 70. Land-surface datum is 705.73 feet above msl. Nearby well being pumped. Highest water level 34.27 below lsd, Mar. 27, 1950; lowest 71.06 below lsd, Oct. 7, 1941. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	37.81	Mar. 26	36.06	June 18	39.72	Sept. 10	44.70
8	38.09	Apr. 2	36.54	25	40.20	17	44.87
15	37.59	9	36.33	July 2	40.52	24	44.74
22	37.64	16	36.09	9	39.71	Oct. 1	45.26
29	37.85	23	36.21	16	40.72	8	44.82
Feb. 5	37.25	30	36.75	23	41.81	15	44.76
12	37.18	May 7	37.21	30	42.83	23	44.61
19	36.74	14	38.49	Aug. 6	43.40	29	44.77
26	36.27	21	39.53	13	43.84	Nov. 5	43.65
Mar. 5	36.08	28	38.14	20	44.29	13	44.30
12	36.35	June 4	39.01	27	44.60	19	44.89
19	36.34	11	39.13	Sept. 4	44.73	26	43.06

Ma 4. Layne-Northern Co., Inc. Meridian St. and Edwards Ave. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 8 inches, depth 304 feet. Land-surface datum is 692.70 feet above msl. Nearby well being pumped. Highest water level 3.96 above lsd, Apr. 12, 16, 1938; lowest 15.72 below lsd, May 27, 1941. Records available: 1937-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	-0.52	-0.01	-0.38	-2.25	-1.97	-2.36	-3.23	-3.50	-3.54	-3.14
2	....	....	.34	+ .11	.42	2.09	2.00	2.41	3.20	3.61	3.55	3.14
3	....	....	.20	.00	.54	2.19	1.96	2.61	3.26	3.74	3.50	3.19
4	-1.61	....	.18	+ .02	.43	1.92	1.91	2.55	3.29	3.75	3.49	2.86
5	1.65	....	.17	- .11	.61	1.91	1.92	2.73	3.37	3.72	3.63	2.87
6	1.62	....	.05	- .06	.54	1.87	2.01	2.64	3.27	3.75	3.52	2.99
7	1.69	....	.20	+ .03	.69	1.84	2.21	2.49	3.48	3.73	3.37	2.84
8	1.68	....	.15	- .02	.70	1.74	2.24	....	3.50	3.76	3.46	2.80
9	1.61	....	.07	- .06	.73	1.67	2.19	....	3.53	3.61	3.45	2.80
10	1.56	....	.07	+ .05	.68	....	1.94	....	3.48	3.60	3.42	2.83
11	1.80	....	.15	+ .06	.63	2.04	2.00	....	3.50	3.58	3.51	3.07
12	1.63	-1.03	- .08	+ .03	.70	2.04	1.98	....	3.65	3.58	3.49	2.89
13	1.59	.94	+ .02	+ .09	.81	1.86	1.92	2.77	3.45	3.59	3.38	2.72
14	1.51	1.12	- .05	+ .01	.97	2.08	2.05	2.83	3.36	3.66	3.36	2.66
15	1.43	1.03	+ .04	- .04	.93	2.08	2.04	2.79	3.35	3.73	3.30	2.51
16	1.37	.93	- .03	.07	1.15	2.00	2.15	2.93	3.49	3.85	3.29	2.50
17	1.34	.84	+ .04	.01	1.21	2.00	2.07	3.86	3.48	3.93	3.30	2.50
18	1.41	.87	.00	.11	1.26	2.14	2.12	3.18	3.60	3.92	3.32	e2.45
19	1.29	.86	+ .07	.12	1.40	2.08	2.14	3.16	3.54	3.92	3.35	e2.40
20	1.36	.82	+ .01	- .09	e1.42	2.34	2.39	3.17	3.56	4.04	3.35	e2.40
21	1.35	....	+ .02	.09	h1.47	2.74	2.36	3.08	3.70	3.85	3.41	e2.35
22	1.35	....	- .04	.10	....	2.48	2.28	3.19	3.69	3.81	3.30	e2.30
23	1.22	....	+ .05	.27	....	2.37	2.20	3.22	3.71	....	3.16	e2.25
24	1.30	....	- .13	.20	....	2.59	2.20	3.55	3.69	3.70	3.17	e2.20
25	1.28	....	.06	.55	1.90	2.66	....	3.37	3.72	3.65	3.23	e2.15
26	1.20	.37	.12	.30	1.85	2.50	....	3.38	3.57	3.67	3.34	2.39
27	1.12	.47	- .01	.17	1.82	2.44	....	3.39	3.56	3.65	3.22	2.23
28	1.16	.55	+ .05	.10	1.71	2.32	....	3.32	3.57	3.58	3.16	2.18
29	1.09	....	+ .07	....	1.67	2.22	....	....	3.53	3.61	3.16	2.11
30	....	....	+ .01	.31	1.66	2.13	2.16	....	3.50	3.53	3.15	2.05
31	....	....	- .04	....	1.72	....	2.21	3.22	....	3.60	....	2.12

e Estimated.

h Tape measurement.

Ma 9. Indianapolis Forwarding Co. 333 West Ohio St. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 8 inches, depth 22 $\frac{1}{2}$ feet. Land-surface datum is 707.95 feet above msl. Nearby well being pumped. Highest water level 35.43 below lsd, Apr. 24, 1950; lowest 62.48 below lsd, Oct. 3, 1942. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	37.98	Apr. 2	36.42	July 2	39.34	Oct. 1	42.90
8	37.71	9	36.39	9	39.59	8	43.09
15	37.68	16	36.26	16	39.97	15	42.98
22	37.56	23	36.32	23	40.45	23	43.10
26	37.52	30	36.40	30	40.82	30	41.27
Feb. 5	37.34	May 7	36.78	Aug. 6	41.09	Nov. 5	40.53
12	36.95	14	36.86	13	41.37	13	40.06
19	36.82	21	37.27	20	41.76	19	39.75
26	36.64	28	37.54	27	41.96	26	39.72
Mar. 5	36.47	June 4	37.87	Sept. 4	42.07	Dec. 3	39.60
12	36.45	11	38.14	10	42.19	10	39.39
19	36.48	18	38.47	17	42.60	18	39.93
26	36.26	25	38.89	24	42.87	26	39.31

Ma 10. Federal Building. Meridian and Ohio Sts. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 15 N., 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. Nearby well being pumped. Highest water level 45.46 below lsd, Apr. 16, 1951; lowest 70.78 below lsd, Aug. 29, 1941. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	47.58	Apr. 2	46.21	July 2	54.48	Oct. 1	57.04
8	47.29	9	45.87	9	54.19	8	56.89
15	47.19	16	45.46	16	54.76	15	56.76
22	47.13	23	45.92	23	56.39	23	57.41
29	47.07	30	49.30	30	56.94	30	54.06
Feb. 5	46.86	May 7	49.91	Aug. 6	57.27	Nov. 5	52.28
12	46.75	14	50.45	13	57.58	13	51.73
19	46.53	21	51.72	20	57.88	20	51.58
26	45.96	28	52.04	27	58.29	26	51.81
Mar. 5	45.69	June 4	52.87	Sept. 4	58.39	Dec. 3	50.29
12	45.64	11	52.78	10	58.17	10	50.01
19	45.50	18	53.58	17	57.89	18	49.84
26	45.70	25	54.63	24	57.59	26	49.19

Ma 13. City of Indianapolis. Sanitation Plant. Raymond and Harding Sts. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 15 N., R. 3 E. Drilled test water-table well in sand and gravel, diameter 8 inches, reported depth 11 feet. Land-surface datum is 668.40 feet above msl. Measurements made by W. R. Curran. Nearby well being pumped. Highest water level 2.19 above lsd, Jan. 20, 1932; lowest dry 6.00 below lsd, Aug. 3, Sept. 22, 1930; Sept. 11, Oct. 13, 1944; Jan. 12, Feb. 14, 1945; Sept. 9, 1946; Sept. 30, Nov. 11, 1947; July 16, Aug. 20, Sept. 30, Oct. 25, 1948; Dec. 19, 1949; Oct. 13, 1950. Records available: 1928-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	2.51	Apr. 11	2.26	July 20	3.18	Oct. 22	3.74
Feb. 5	1.56	May 21	2.66	Aug. 31	4.22	Nov. 30	3.96
Mar. 7	1.37	June 30	3.16	Sept. 24	4.60	Dec. 31	2.35

Ma 14. City of Indianapolis. Sanitation Plant. Raymond and Harding Sts. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 15 N., R. 3 E. Driven water-table well in sand and gravel, diameter 2 $\frac{1}{2}$ inches, depth 23 feet. Land-surface datum is 685.68 feet above msl. Measurements made by W. R. Curran. Highest water level 11.75 below lsd, Jan. 18, 1937; lowest dry, Sept. 22, Nov. 1, 1930; Feb. 14, 1945. Records available: 1929-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	18.41	Apr. 11	18.01	July 20	19.42	Oct. 22	20.33
Feb. 5	18.55	May 21	18.47	Aug. 31	19.92	Nov. 30	20.47
Mar. 7	16.88	June 30	19.23	Sept. 24	20.13	Dec. 31	20.35

Ma 18. Anna M. Stelzner, 4948 West Vermont St. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 15 N., R. 3 E. Dug unused well in glacial drift, diameter 24 inches, depth 28 feet, cribbed with brick. Highest water level 7.60 below lsd, Feb. 15, 1950; lowest 28.33 below lsd, Feb. 5, 13, 14, 1945. Records available: 1943-51.

Day	Daily 2 a. m. water level from recorder graph											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.73	.....	17.42	15.43	16.46	18.73	20.06	20.77	22.93	24.21	24.51	23.01
2	20.73	.....	17.44	15.44	16.54	18.79	20.04	20.87	22.97	24.22	24.53	22.96
3	20.67	.....	17.39	15.49	16.58	18.86	20.03	21.01	23.01	24.22	24.53	22.92
4	20.60	.....	17.27	15.56	16.56	18.93	19.98	21.10	23.05	24.25	24.51	22.83
5	20.62	.....	17.28	15.67	16.55	19.04	19.94	21.22	23.09	24.31	24.53	22.72
6	20.60	.....	17.20	15.81	16.62	19.11	19.97	21.34	23.12	24.37	24.56	22.59
7	20.58	.....	17.06	15.88	16.74	19.14	20.00	21.36	23.14	24.40	24.52	22.48

Ma 18--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	20.54	.....	17.00	15.84	16.86	19.15	20.02	21.39	23.22	24.41	24.49	22.44
9	20.51	.....	17.05	15.63	16.94	19.16	20.01	21.42	23.28	24.44	24.50	22.37
10	20.46	.....	17.16	15.33	17.00	19.20	19.98	21.46	23.32	24.45	24.50	22.34
11	20.42	.....	17.19	15.09	16.99	19.26	19.97	21.54	23.32	24.47	24.49	22.28
12	20.42	.....	17.15	14.94	17.05	19.33	19.95	21.63	23.36	24.47	24.47	22.19
13	20.42	19.78	17.04	14.74	17.15	19.39	19.93	21.71	23.44	24.52	24.41	22.17
14	20.41	19.79	16.94	14.42	17.29	19.43	19.92	21.80	23.47	24.55	24.30	22.21
15	20.28	19.84	16.93	14.22	17.39	19.47	19.92	21.85	23.54	24.58	24.21	22.18
16	20.19	19.79	17.01	14.36	17.45	19.49	19.92	21.97	23.60	24.60	24.12	22.26
17	20.16	19.66	17.10	14.57	17.47	19.51	19.94	22.05	23.67	24.64	24.04	22.33
18	20.07	19.60	17.10	14.76	17.51	19.53	19.95	22.15	23.74	24.69	23.96	22.32
19	20.02	19.50	16.98	14.85	17.58	19.56	19.96	22.26	23.79	24.72	23.89	22.30
20	19.96	19.43	16.84	15.10	17.65	19.59	19.97	22.37	23.86	24.75	23.82	e22.25
21	19.94	18.04	16.72	15.34	17.72	19.52	20.03	22.44	23.93	24.76	23.77	e22.25
22	20.00	17.58	16.63	15.44	17.80	19.69	20.08	22.51	24.00	24.76	23.70	e22.25
23	19.94	17.71	16.51	15.65	17.89	19.75	20.14	22.60	24.03	24.71	23.62	e22.25
24	19.88	17.79	16.35	15.87	18.01	19.85	20.21	22.72	24.08	24.66	23.53	e22.30
25	19.85	17.74	16.45	15.96	18.11	19.96	20.27	22.83	24.08	24.65	23.46	e22.35
26	19.83	17.59	16.51	16.05	18.21	20.07	20.35	22.91	24.09	24.65	23.34	e23.30
27	e19.81	17.50	16.54	16.24	18.24	20.13	20.42	22.95	24.07	24.62	23.26	.....
28	19.81	17.50	16.47	16.33	18.29	20.14	20.46	22.91	24.10	24.59	23.19	23.29
29	19.84	.....	16.39	16.35	18.38	20.14	20.53	22.92	24.15	24.55	23.11	23.18
30	19.91	.....	16.00	16.39	18.51	20.12	20.62	22.90	24.19	24.53	23.06	23.07
31	.....	.....	15.54	.....	18.64	.....	20.70	22.91	.....	24.51	.....	22.98

e Estimated.

Ma 19. New York Central System. 10th and Exeter Sts. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 15 N., R. 3 E. Driven unused well in glacial drift, diameter 1 $\frac{1}{2}$ inches, depth 24 feet. Highest water level 12.50 below lsd, Feb. 27, 1950; lowest 21.48 below lsd, Feb. 5, 1945. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	16.29	Apr. 2	15.65	July 2	16.07	Oct. 1	17.65
8	16.36	9	15.60	9	16.09	8	17.77
15	16.23	16	15.54	16	16.13	15	17.89
22	16.18	23	15.47	23	16.27	23	17.97
29	16.19	30	15.39	30	16.40	30	18.07
Feb. 5	16.17	May 7	15.45	Aug. 6	16.53	Nov. 5	18.18
12	16.17	14	15.51	13	16.69	13	18.21
19	15.93	21	15.60	20	16.82	19	18.08
26	15.60	28	15.70	27	16.95	26	18.02
Mar. 5	15.50	June 4	15.72	Sept. 4	17.15	Dec. 3	18.01
12	15.46	11	15.98	10	17.24	10	17.78
19	15.58	18	16.05	17	17.40	18	17.55
26	15.65	25	16.20	24	17.53	26	17.44

Ma 21. Continental Baking Co. 339 East Market St. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 8 inches, depth 316 feet. Nearby well being pumped. Highest water level 41.24 below lsd, Apr. 8, 15, 1951; lowest 67.28 below lsd, Aug. 4, 1944. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	45.00	43.26	42.18	43.30	45.50	46.34	51.28	52.82	50.55	49.60	46.75
2	45.06	44.94	43.08	42.50	43.84	45.48	46.38	51.36	52.60	50.70	49.50	46.40
3	45.02	.....	42.42	42.38	44.28	.....	46.24	51.76	51.92	50.75	49.20	46.10
4	45.60	.....	42.50	42.26	44.50	45.62	45.94	51.66	52.30	51.05	48.55	46.35
5	45.42	44.28	42.54	42.16	44.24	45.62	46.06	.....	52.50	51.50	49.00	46.30
6	44.94	43.98	42.48	42.16	43.90	45.68	46.14	.....	52.55	51.35	48.65	46.55
7	44.08	44.60	43.02	41.76	44.06	45.72	46.04	.....	52.80	50.80	48.65	47.15
8	45.10	44.66	43.44	41.24	44.16	46.10	45.70	.....	52.55	50.85	48.65	46.80
9	45.40	44.90	43.76	41.32	44.34	46.06	46.48	.....	51.85	50.90	48.60	46.45
10	45.38	44.50	43.54	41.42	44.20	45.68	46.76	.....	51.90	50.90	48.15	46.40
11	45.54	43.80	42.96	41.42	44.56	45.92	46.84	.....	52.10	50.85	47.70	46.15
12	45.50	43.76	42.80	41.44	44.32	46.08	47.48	.....	52.10	50.05	47.55	46.30
13	45.08	44.16	42.78	41.48	43.90	46.38	47.94	51.60	52.15	51.85	47.50	46.65
14	44.34	44.18	42.96	41.36	44.50	46.70	47.98	51.86	52.25	50.35	47.95	46.20
15	44.66	43.98	43.16	41.24	44.76	47.00	47.70	.....	52.10	50.45	48.15	46.50

Ma 21--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	44.74	43.76	43.22	41.50	45.02	46.90	48.18	.....	51.30	50.55	48.35	46.20
17	44.56	43.64	43.00	41.38	45.40	.....	48.58	.....	51.20	50.60	48.05	45.90
18	44.62	43.10	42.56	41.26	45.78	46.98	48.90	.....	51.50	50.60	47.55	46.10
19	44.60	43.24	42.92	42.04	45.64	.....	49.36	.....	51.60	50.65	47.75	46.15
20	44.22	43.10	42.82	42.46	45.28	.....	49.80	.....	51.70	50.35	47.75	45.75
21	44.66	43.94	42.92	42.10	45.32	.....	49.66	.....	51.95	49.80	47.45	46.25
22	44.66	43.98	42.76	42.68	45.24	.....	49.40	.....	51.70	50.05	47.10	45.95
23	44.66	44.06	42.94	42.00	45.42	.....	49.90	.....	51.40	49.95	46.90	45.55
24	44.80	44.00	43.28	42.04	45.26	.....	50.14	.....	51.40	50.35	46.90	45.50
25	44.94	43.40	42.80	42.44	45.24	47.06	50.44	.....	51.55	50.30	46.35	44.85
26	44.86	43.02	42.88	42.62	45.10	46.96	50.68	.....	51.30	50.25	46.95	45.40
27	44.66	43.32	42.76	43.10	44.72	46.96	50.96	.....	51.70	49.95	47.00	45.45
28	44.24	43.12	42.76	42.72	44.86	47.14	50.84	.....	51.70	49.20	46.95	45.05
29	44.98	.....	42.72	42.08	45.18	47.06	50.46	.....	51.55	49.45	47.00	44.75
30	44.76	.....	43.24	42.62	45.02	46.86	50.70	.....	50.80	49.45	47.00	44.40
31	44.64	.....	42.90	.....	45.10	.....	50.90	52.84	.....	49.65	.....	44.10

Ma 22. Arthur Baxter. 139 South East St. NW $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 1, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 10 inches, depth 310 feet. Nearby well being pumped. Highest water level 56.05 below lsd, Mar. 19, 1950; lowest 90.40 below lsd, July 14, 1944. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.9	67.3	60.2	59.5	64.2	67.1	62.4	77.9	77.7	73.2	70.9	65.8
2	63.8	62.1	60.2	64.5	65.8	67.1	64.1	78.2	76.4	74.1	71.2	63.2
3	63.3	61.1	59.4	61.4	69.1	65.0	64.4	78.7	73.0	74.5	70.1	63.9
4	62.6	60.0	58.8	59.2	66.7	66.2	62.5	77.3	76.7	74.6	66.8	64.6
5	63.8	65.4	59.2	59.4	64.2	66.4	62.3	73.9	77.1	75.3	70.7	64.7
6	60.4	63.0	63.9	61.0	61.8	66.8	63.8	76.9	76.8	74.8	69.3	69.7
7	63.3	66.7	62.2	58.4	62.3	66.9	65.4	77.6	76.8	72.3	69.1	67.9
8	68.1	67.1	63.1	56.6	63.6	68.3	64.8	77.3	75.7	73.1	69.2	64.4
9	68.9	66.1	66.7	57.7	64.4	67.7	70.8	76.6	73.5	74.1	69.0	63.1
10	68.4	62.7	63.0	58.6	63.5	65.9	72.0	76.5	74.6	74.0	66.7	64.8
11	64.1	59.7	60.4	60.0	66.0	69.2	70.3	75.6	75.2	73.2	65.0	64.5
12	65.0	.....	62.9	59.9	62.5	68.4	72.8	75.0	75.5	74.3	67.0	65.4
13	62.6	.....	64.0	58.5	59.8	69.7	73.2	77.0	.....	73.4	67.8	65.4
14	62.0	.....	62.5	58.0	64.0	71.4	71.4	77.7	.....	70.7	67.4	65.0
15	62.3	.....	63.0	57.5	65.2	71.9	69.0	77.9	.....	73.0	68.1	64.5
16	62.3	.....	62.1	58.2	66.8	71.8	72.0	78.3	.....	73.6	67.8	.....
17	62.9	.....	63.3	58.1	66.9	69.7	73.1	78.3	74.2	72.7	64.9	.....
18	64.9	.....	59.7	61.7	67.8	71.6	73.5	78.1	75.1	73.8	63.4	64.6
19	65.1	63.2	63.7	62.1	65.5	72.5	75.2	77.0	75.2	73.9	67.2	67.8
20	.....	60.1	62.9	62.0	64.7	73.2	76.3	77.3	75.4	72.9	67.2	66.3
21	.....	61.9	64.0	60.7	66.2	73.5	74.8	77.4	76.4	70.8	66.9	65.6
22	67.5	62.2	65.7	58.5	65.2	73.7	71.9	77.5	76.1	72.3	66.0	63.5
23	66.9	63.2	66.0	59.8	65.0	72.0	75.9	77.5	73.0	71.5	64.1	62.4
24	62.1	63.0	62.9	62.4	64.7	68.5	76.3	77.6	74.8	73.0	64.1	61.3
25	65.9	59.6	60.3	62.1	64.8	67.7	76.8	77.2	74.9	72.2	63.4	.....
26	64.7	59.2	65.6	61.4	64.4	70.6	77.2	75.6	74.4	71.9	65.1	62.3
27	61.7	60.0	64.1	65.2	63.1	66.3	78.2	77.1	75.2	71.0	65.9	63.7
28	60.6	59.8	61.8	61.0	64.6	66.1	77.7	77.5	75.2	68.2	65.7	63.2
29	65.7	.....	63.1	58.8	66.0	65.3	74.3	77.8	74.4	70.7	66.5	63.2
30	66.9	.....	62.4	62.2	63.8	64.4	76.8	.....	71.3	70.5	66.8	59.7
31	67.0	.....	61.0	.....	67.2	.....	77.7	77.9	.....	71.1	.....	58.7

Ma 25. Electric Steel Castings Co. 10th and Main Sts., Speedway City. SW $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 31, T. 16 N., R. 3 E. Drilled unused well in gravel, diameter 6 inches, depth 118 feet. Nearby well being pumped. Highest water level 17.95 below lsd, Jan. 31, 1949; lowest 53.12 below lsd, Jan. 13, 1947. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.0	30.2	29.0	27.4	32.7	36.0	37.5	37.5	37.8	33.2	30.7	33.7
2	27.1	.....	29.0	28.2	34.1	36.2	38.5	38.6	35.4	35.6	29.4	33.5
3	28.7	.....	29.1	28.9	35.4	36.0	40.0	39.3	35.0	35.4	28.7	32.5
4	29.6	.....	28.5	28.8	34.8	35.5	40.2	39.0	35.4	36.4	24.3	33.4
5	28.7	29.0	28.2	29.4	34.5	36.2	41.0	37.6	35.6	36.4	29.8	33.4

Ma 25--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	27.4	29.4	28.9	29.1	34.1	36.6	41.3	34.7	37.7	34.7	33.0	34.5
7	25.0	29.5	28.6	28.7	35.0	36.8	40.6	33.4	38.2	32.3	34.9	33.5
8	25.4	30.0	29.0	32.0	36.8	36.7	40.7	34.2	38.0	36.7	37.8	32.6
9	26.3	29.2	28.3	29.0	37.7	36.5	39.5	34.2	32.1	36.3	35.5	31.8
10	27.2	28.7	28.5	29.5	34.2	35.6	40.3	33.8	33.6	34.1	34.6	31.6
11	27.4	26.0	27.2	29.3	34.6	34.5	40.3	32.2	35.1	34.8	33.0	32.8
12	27.6	28.7	28.4	29.7	34.8	34.1	44.3	31.8	37.2	34.3	32.5	33.0
13	26.9	30.0	29.2	29.2	34.6	34.7	39.9	35.0	40.6	31.4	34.1	34.5
14	26.0	30.2	29.3	28.7	34.1	35.0	39.5	37.1	40.1	28.0	34.7	33.0
15	28.1	32.0	30.6	28.1	35.0	34.0	39.2	37.8	36.5	31.6	35.9	32.1
16	26.2	30.3	29.7	27.0	35.0	33.3	36.0	38.9	34.0	33.7	35.1	....
17	29.6	31.2	29.6	26.1	35.7	32.1	39.4	38.3	33.4	34.4	34.2	....
18	30.3	32.5	29.0	27.3	35.4	32.9	38.9	37.3	35.2	36.0	31.1	30.2
19	30.5	28.6	28.4	28.0	35.3	35.7	40.7	34.9	36.0	35.1	29.1	29.9
20	29.8	27.3	26.5	28.4	35.3	38.6	38.7	35.8	36.8	34.7	26.0	29.5
21	29.4	26.6	26.9	28.1	35.3	40.7	38.1	35.7	40.2	35.0	28.7	27.4
22	28.6	26.6	27.3	27.7	35.9	40.2	37.8	36.0	38.2	35.2	28.2	26.1
23	26.8	26.5	25.8	27.9	35.8	40.1	36.9	36.0	36.0	35.4	29.5	23.7
24	26.4	25.5	24.1	28.7	36.4	40.0	37.6	36.1	37.0	35.4	28.2	22.6
25	26.4	24.7	23.3	28.9	36.5	41.0	37.8	33.5	38.2	37.1	26.3	23.4
26	26.0	27.4	26.6	29.8	35.8	40.7	38.7	32.9	38.3	35.4	31.0	27.3
27	24.9	28.5	27.7	29.3	34.7	40.2	38.5	34.8	40.4	35.1	32.4	30.5
28	24.4	28.7	28.3	28.9	34.5	39.9	37.4	37.6	39.0	35.2	35.5	31.4
29	27.2		28.8	28.3	35.4	39.0	35.0	37.0	38.4	34.9	36.9	31.7
30	28.8		28.9	29.4	34.7	38.5	37.6	38.2	34.6	31.0	33.9	30.4
31	29.2		28.2		35.4		37.8	38.3		30.2		30.1

Ma 26. Otto Schakel. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 15 N., R. 4 E. Dug unused well in gravel, diameter 42 inches, depth 14 feet, cribbed with brick. Highest water level 2.15 below lsd, Mar. 22, 1948; lowest 10.40 below lsd, Oct. 23, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	7.28	Apr. 2	5.36	July 2	7.30	Oct. 1	9.70
8	6.00	9	4.62	8	7.40	8	5.74
15	5.30	16	3.82	16	6.30	15	10.06
21	6.00	23	5.52	23	7.50	23	10.40
29	5.20	30	6.02	30	7.70	29	8.90
Feb. 5	7.00	May 7	6.65	Aug. 6	8.16	Nov. 5	10.00
12	7.14	14	6.40	12	8.24	12	9.50
19	6.00	21	6.80	20	8.50	18	9.00
26	4.70	28	7.00	27	8.72	26	6.70
Mar. 5	5.30	June 4	7.40	Sept. 3	8.90	Dec. 1	7.32
10	7.30	10	7.46	10	9.20	10	5.30
20	6.25	18	7.60	17	9.40	22	6.02
26	5.10	25	7.90	24	9.42	29	4.62

Ma 27. Otto Schakel. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 15 N., R. 4 E. Dug unused well in gravel, diameter 42 inches, depth 14 feet. Highest water level 0.90 below lsd, Aug. 15, 1949, Jan. 15, 1951; lowest 5.58 below lsd, Nov. 5, 1951. Records available: 1947-51.

Jan. 2	3.14	Apr. 2	2.84	July 2	2.90	Oct. 1	5.20
8	1.92	9	2.60	9	3.18	8	5.24
15	.90	16	2.54	16	2.80	15	5.40
21	2.90	23	2.82	23	3.26	23	5.50
29	1.80	30	2.90	31	3.28	29	5.50
Feb. 5	3.30	May 7	3.00	Aug. 6	3.62	Nov. 5	5.58
12	3.24	14	2.82	12	3.80	12	4.60
19	2.30	21	3.00	20	4.06	18	3.20
26	2.80	28	3.11	27	4.38	26	2.70
Mar. 5	2.78	June 4	3.30	Sept. 3	4.50	Dec. 1	3.06
10	3.00	10	3.34	10	4.70	10	.60
20	2.00	18	3.50	17	4.86	22	3.02
26	2.80	25	3.77	24	5.00	29	2.90

Ma 28. Manuel 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. Highest water level 1.25 below lsd, Jan. 27, 1950; lowest 14.15 below lsd, Nov. 6, 12, 1951. Records available: 1947-51.

Ma 28--Continued.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	6.09	....	3.96	5.23	8.09	10.30	10.97	12.73	13.64	14.08	12.89
2	....	e6.25	....	4.05	e5.36	8.20	10.32	11.02	12.77	13.66	14.10	12.81
3	....	e6.46	....	4.16	5.49	8.30	10.35	11.07	12.80	13.67	14.11	12.74
4	7.03	6.66	....	4.30	5.61	8.40	10.37	11.12	12.84	13.70	14.12	12.59
5	6.91	6.83	....	4.46	5.73	8.49	10.40	11.19	12.89	13.72	14.13	12.49
6	6.83	7.00	....	4.62	5.86	8.59	10.44	11.26	12.92	13.74	14.15	12.33
7	6.79	6.99	h4.57	4.77	6.00	8.69	10.50	11.29	12.95	13.76	14.13	12.13
8	6.76	7.10	....	4.74	6.14	8.78	10.55	11.34	12.99	13.78	14.13	11.95
9	6.75	7.22	....	4.57	6.27	8.85	10.60	11.37	13.02	13.80	14.14	11.72
10	6.76	7.38	....	4.32	6.41	8.93	10.57	11.41	13.06	13.81	14.14	11.42
11	6.77	7.52	....	4.06	6.06	9.02	10.58	11.48	13.09	13.82	14.14	11.21
12	6.80	7.05	....	3.94	6.06	9.11	10.58	11.55	13.11	13.84	14.15	11.01
13	6.80	6.70	....	3.85	6.10	9.19	10.51	11.61	13.16	13.86	14.14	10.88
14	....	6.62	h5.62	3.71	6.17	9.26	10.47	11.68	13.20	13.88	14.05	10.80
15	....	6.68	....	3.66	6.25	9.34	10.44	11.76	13.23	13.90	14.04	10.71
16	....	6.72	....	3.74	6.34	9.42	10.43	11.83	13.25	13.91	14.01	10.67
17	....	5.92	....	3.86	6.43	9.49	10.42	11.90	13.28	13.93	13.09	10.64
18	....	5.91	....	4.00	6.53	9.57	10.43	11.96	e13.31	13.95	13.96	10.62
19	4.08	5.80	....	....	6.63	9.65	10.44	12.03	e13.33	13.96	13.92	10.58
20	3.93	5.35	....	....	6.73	9.73	10.47	12.10	13.36	13.98	13.89	10.55
21	3.88	h2.05	....	....	6.83	9.81	10.51	12.17	13.35	13.99	13.86	....
22	4.01	2.07	h4.40	....	6.94	9.89	10.55	12.24	13.42	14.00	13.82	....
23	4.17	2.26	4.30	....	7.05	9.97	10.60	12.31	13.45	14.01	13.73	....
24	4.35	2.51	4.14	....	7.19	10.04	10.65	12.39	13.48	14.02	13.66	....
25	4.56	2.77	4.14	h4.63	7.30	10.13	10.69	12.46	13.50	14.03	13.56	....
26	4.78	3.03	4.23	4.66	7.42	10.21	10.75	12.54	13.52	14.04	13.42	h9.35
27	4.98	e3.24	4.34	4.77	7.53	10.28	10.81	12.59	13.54	14.05	13.29	9.22
28	5.18	h3.57	4.46	4.87	7.62	10.25	10.85	12.61	13.56	14.05	13.18	9.14
29	5.42	....	4.41	4.97	7.74	10.28	10.88	12.64	13.59	14.06	13.08	9.05
30	5.63	....	4.04	5.08	7.85	10.30	10.91	12.66	13.61	14.07	12.98	8.80
31	5.89	....	3.92	....	7.97	....	10.94	12.69	....	....	....	8.48

e Estimated.

h Tape measurement.

Ma 29. Indiana Amusement Corp. Indiana Theater. 134 West Washington St. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 15 N., R. 3 E. Drilled unused well in gravel, diameter 12 inches, depth 101 feet. Nearby well being pumped. Highest water level 37.21 below lsd, Apr. 17, 1950; lowest 53.60 below lsd, Sept. 5, 1948. Records available: 1548-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.74	38.86	38.23	38.71	38.66	40.91	44.32	46.62	48.26	46.81	45.20	42.72
2	39.94	38.89	38.25	38.81	39.05	41.31	44.23	46.72	48.20	46.92	45.03	42.65
3	40.24	38.85	38.26	38.27	39.17	41.20	44.28	46.82	47.67	47.05	44.85	42.58
4	40.05	38.66	38.20	38.05	39.06	41.25	44.10	46.74	47.54	47.25	44.71	42.58
5	39.93	38.65	38.08	38.00	....	41.25	44.13	46.60	47.65	47.49	44.50	42.51
6	39.91	38.82	38.10	38.14	....	41.33	44.27	46.47	47.72	47.42	44.31	42.47
7	39.73	38.81	38.12	38.57	....	41.42	44.23	46.58	47.75	47.68	....	42.96
8	35.66	38.68	38.22	38.90	38.66	41.55	44.06	46.73	47.61	46.92	....	42.74
9	39.60	38.68	38.28	38.99	38.87	41.79	44.17	46.93	47.47	46.73	....	42.53
10	39.56	38.57	38.17	38.47	38.98	41.58	....	47.05	47.31	46.52	....	42.40
11	39.62	38.46	38.05	38.20	38.87	41.61	44.51	47.07	47.41	46.58	....	42.29
12	39.57	38.37	37.90	38.01	38.89	41.87	44.72	46.96	47.59	46.63	....	42.24
13	35.53	38.50	37.80	37.86	38.84	42.21	44.52	46.89	47.82	46.67	....	42.27
14	39.34	38.53	37.80	37.84	38.94	42.16	44.91	47.00	47.81	46.55	....	42.11
15	39.29	38.41	37.85	37.78	35.17	42.37	44.81	47.20	47.81	46.43	....	42.20
16	39.35	38.29	37.84	37.73	39.25	42.52	44.80	47.40	47.66	46.53	43.69	42.08
17	39.28	38.30	37.82	37.65	....	42.33	44.94	47.59	47.26	46.68	43.64	41.93
18	35.40	38.21	37.72	37.70	....	42.32	45.15	47.51	47.26	46.82	43.50	41.63
19	39.39	38.20	37.73	37.76	....	42.45	45.62	47.43	47.37	46.74	43.51	41.85
20	39.56	38.18	37.69	37.78	....	42.86	45.55	47.27	47.67	46.50	43.32	e41.80
21	35.50	38.28	37.69	37.77	40.37	43.15	45.80	47.36	48.07	46.34	43.26	e41.70
22	39.30	38.28	37.61	37.77	40.61	43.45	45.65	47.56	47.94	46.45	43.14	e41.60
23	38.14	38.31	37.70	37.74	40.80	43.73	45.52	47.54	47.76	46.56	43.10	e41.55
24	39.17	38.26	37.81	37.67	40.86	43.63	45.61	47.57	47.40	46.44	43.07	e41.50
25	39.59	38.14	37.73	37.92	40.95	43.57	45.76	47.48	47.37	46.33	42.90	e41.45

Ma 29--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	39.08	38.12	37.63	37.98	41.06	43.72	46.00	47.31	47.41	46.40	42.82	e41.50
27	39.10	38.18	37.63	38.05	40.78	43.92	46.19	47.17	47.52	46.30	42.79	41.51
28	39.00	38.09	37.58	38.20	40.43	44.10	46.22	47.38	47.40	45.98	42.72	41.42
29	38.98		37.79	38.20	40.55	44.29	46.14	47.61	47.04	45.65	42.75	41.38
30	38.95		37.84	38.30	40.40	44.48	46.30	47.81	46.83	45.46	42.67	e41.32
31	38.65		38.31		40.65		46.61	48.11		45.35		e41.25

e Estimated.

Ma 30. L. S. Ayres & Co. 1 West Washington St. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 15 N., R. 3 E. Drilled unused artesian well in limestone, diameter 12 inches, reported depth 400 feet. Measurements made by Walter Hoffman. Highest water level 38.4 below lsd, Apr. 17, 1950; lowest 58.06 below lsd, Sept. 18, 1948. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.2	40.0	39.4	39.2	40.0	42.4	47.2	49.1	51.2	48.5	47.2	44.5
2	41.0	40.2	39.4	39.4	40.5	42.9	46.1	49.5	51.4	48.4	47.0	44.7
3	41.1	40.1	39.3	39.3	40.8	43.5	45.9	49.7	50.2	49.3	46.8	44.2
4	41.4	40.0	39.5	39.2	40.9	42.7	46.5	49.8	49.6	49.6	46.6	44.3
5	41.4	39.9	39.3	39.2	40.9	42.6	45.8	49.7	50.2	49.9	46.3	44.3
6	41.3	39.8	39.2	39.3	41.0	43.1	46.3	48.6	50.4	50.3	46.2	44.1
7	41.2	40.0	39.5	39.2	40.4	43.3	46.5	48.5	50.5	50.1	46.0	44.3
8	40.9	40.0	39.5	39.5	40.2	43.5	46.6	49.2	50.5	49.1	46.0	44.5
9	40.9	40.0	39.6	39.5	40.5	43.8	45.7	49.7	50.4	48.7	45.9	44.6
10	40.9	39.9	39.5	39.5	40.6	44.2	45.8	49.9	49.3	48.5	45.9	44.1
11	40.9	39.8	39.4	39.4	40.7	43.1	46.8	50.1	45.2	48.5	45.9	44.0
12	40.9	39.6	39.1	39.2	40.4	43.1	47.2	50.4	50.0	48.6	45.5	43.9
13	40.9	39.6	39.0	39.1	40.7	43.8	47.5	49.2	50.5	48.7	45.4	43.9
14	40.8	39.8	39.0	39.1	40.3	44.2	47.7	49.1	50.6	45.0	45.6	43.8
15	40.5	39.8	39.0	39.1	40.5	44.4	47.4	50.0	50.4	48.1	45.7	43.7
16	40.7	39.6	39.0	38.9	41.0	44.4	46.2	50.4	50.5	48.0	45.6	43.9
17	40.6	39.6	39.0	38.9	41.5	44.7	46.1	50.7	49.5	48.7	45.4	43.5
18	40.6	39.7	39.0	38.8	41.8	43.8	47.1	50.8	49.2	49.0	45.5	43.4
19	40.6	39.5	38.9	39.1	42.2	44.0	47.5	50.9	49.7	49.1	45.2	43.5
20	40.6	39.6	38.8	39.0	42.7	45.0	47.8	45.7	50.0	48.8	45.1	43.3
21	40.9	39.5	38.8	39.1	41.9	45.6	48.5	49.5	50.1	48.8	45.1	43.2
22	40.7	39.7	38.9	39.4	42.1	45.8	48.6	50.4	50.4	48.0	45.0	43.3
23	40.4	39.7	38.8	39.1	42.8	46.2	47.5	50.7	50.5	48.0	44.7	43.2
24	40.4	39.5	39.2	38.9	42.8	46.5	47.4	50.6	49.4	48.5	44.8	43.0
25	40.4	39.5	39.1	39.2	42.7	45.4	48.1	50.5	49.2	48.0	44.8	....
26	40.4	39.3	38.9	39.5	42.8	45.2	48.6	50.3	49.8	48.2	44.4	44.4
27	40.2	39.5	38.8	39.5	42.8	46.2	49.0	49.5	50.0	48.1	44.5	44.4
28	40.3	39.5	38.9	39.6	42.0	46.6	49.1	49.4	50.0	48.1	44.5	44.3
29	40.2		38.8	40.2	41.9	46.9	....	50.3	49.4	47.6	44.4	44.4
30	40.2		39.2	39.7	42.3	47.1	....	50.6	49.2	47.3	44.3	42.8
31	40.1		39.1		41.8		....	51.1		47.5		42.6

Marshall County

M1 1. Howard Lemler. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 33 N., R. 3 E. Dug unused well in glacial drift, diameter 12 inches, depth 18 feet, cribbed with tile. Highest water level 1.07 below lsd, Apr. 9, 1950; lowest 5.39 below lsd, Oct. 20, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	3.31	Apr. 7	3.00	July 7	7.06	Oct. 13	9.37
13	4.26	14	2.49	14	5.11	20	9.39
20	4.51	21	3.51	21	6.29	27	8.83
27	4.72	28	3.80	28	6.96	Nov. 3	8.32
Feb. 3	5.31	May 5	4.92	Aug. 4	7.49	10	8.24
10	5.12	12	4.99	11	8.03	24	6.26
17	4.75	19	5.10	18	8.15	Dec. 1	6.36
24	3.72	26	5.55	25	8.40	8	5.44
Mar. 3	3.55	June 2	6.02	Sept. 8	8.64	15	5.80
10	4.08	9	6.39	15	8.79	22	6.38
17	3.56	16	6.79	22	9.01	29	4.16
24	4.34	23	6.85	29	9.18		
31	3.80	30	7.00	Oct. 6	5.20		

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. Highest water level 18.02 below lsd, June 2, 1947; lowest 22.71 below lsd, Feb. 15, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	20.38	May 27	20.36	Aug. 12	21.41	Oct. 28	21.78
8	20.49	June 3	20.41	19	21.41	Nov. 5	21.88
15	20.54	10	20.56	26	21.51	12	21.83
22	20.69	17	20.71	Sept. 2	21.53	18	21.81
29	20.68	24	20.88	9	21.56	25	21.54
Feb. 5	20.49	July 1	20.95	16	21.61	Dec. 3	21.34
12	20.28	8	20.95	23	21.55	10	20.33
19	19.69	15	21.03	30	21.69	17	20.30
26	19.45	22	21.08	Oct. 7	21.74	24	20.28
Mar. 5	19.51	29	21.26	14	21.83	31	20.27
12	19.49	Aug. 5	21.31	21	21.74		

Mt 4. John Ketcham. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 4 N., R. 5 W. Dug unused well in rock, diameter 36 inches, depth 15 feet, cribbed with rock. Highest water level 2.08 below lsd, Jan. 24, 1949; lowest 12.56 below lsd, Dec. 2, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.48	May 27	2.09	Aug. 12	6.70	Oct. 28	9.03
8	3.68	June 3	2.19	19	8.41	Nov. 5	9.29
15	3.69	10	3.02	26	9.08	12	8.13
22	3.79	17	3.25	Sept. 2	6.03	18	6.97
29	3.72	24	3.61	9	5.99	25	4.09
Feb. 5	3.19	July 1	3.69	16	5.04	Dec. 3	3.18
12	3.14	8	3.75	23	5.61	10	3.06
19	2.99	15	4.32	30	6.07	17	2.96
26	3.06	22	4.76	Oct. 7	7.53	24	2.88
Mar. 5	3.19	29	5.41	14	7.79	31	3.02
12	3.09	Aug. 5	6.17	21	8.96		

Miami County

Mi 1. Edna Fish and Clark McConnell. Bunker Hill. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 26 N., R. 4 E. Drilled well in glacial drift, diameter 4 inches, depth 149 feet. Nearby well being pumped. Highest water level 40.46 below lsd, Jan. 31, 1949; lowest 48.20 below lsd, Sept. 20, 1948. Records available: 1948-51. Apr. 20, 40.53. Measurement discontinued.

Monroe County

Mr 2. State of Indiana. Morgan-Monroe State Forest. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 10 N., R. 1 W. Dug unused well in limestone, diameter 42 inches, depth 27 feet. Measurements made by Victor McGee. Highest water level 4.65 below lsd, Jan. 3, 1950; lowest 25.10 below lsd, Sept. 11, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	21.05	Apr. 5	16.10	July 3	22.80	Oct. 2	24.29
9	19.15	10	15.60	10	22.54	9	24.59
16	9.25	17	13.80	17	21.45	16	24.76
23	15.25	24	15.30	24	22.00	23	24.79
30	17.46	May 1	17.10	31	21.70	30	24.99
Feb. 6	19.55	8	19.05	Aug. 7	22.30	Nov. 6	24.76
14	18.00	16	17.20	14	22.90	13	24.73
20	15.15	22	19.80	21	23.50	20	24.89
27	14.20	29	20.00	28	24.10	27	23.58
Mar. 3	15.30	June 5	21.90	Sept. 5	23.94	Dec. 3	20.82
13	19.75	12	22.40	11	24.28	11	16.53
20	15.56	19	22.90	18	24.08	18	16.44
26	15.50	26	23.40	25	24.03	26	16.64

Mr 3. Dustin McDonald. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 7 N., R. 2 W. Dug unused well, diameter 36 inches, depth 30 feet. Highest water level 10.60 below lsd, Apr. 8, 1951; lowest 27.44 below lsd, Feb. 27, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	18.86	Mar. 18	11.58	Apr. 29	16.56	July 29	21.98
11	18.05	25	14.76	May 26	20.80	Aug. 5	22.17
18	14.25	Apr. 1	14.54	June 24	21.16	12	22.38
25	13.96	8	10.60	July 1	20.64	19	22.52
Mar. 4	14.20	15	12.20	8	21.52	26	22.75
11	13.80	22	14.84	22	21.96	Sept. 2	22.81

Mr 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 30	22.89	Oct. 21	23.35	Nov. 11	23.83	Dec. 24	19.96
Oct. 6	23.00	28	23.65	Dec. 7	11.81	27	16.00
14	23.08						

Montgomery County

My 1. Marshall A. Fuller. Formerly W. H. Moore. Waveland. 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. Highest water level 3.37 below lsd, Jan. 4, 1950; lowest 15.45 below lsd, Nov. 16, 1940. Records available: 1935-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.85	....	6.83	7.86	8.20	9.50	8.72	10.49	11.84	12.19	12.19	10.55
2	9.88	h8.94	6.84	7.96	8.30	9.59	8.88	10.65	11.93	12.16	12.24	10.61
3	8.77	8.95	6.57	8.03	8.31	9.71	9.09	10.70	11.98	12.18	12.25	10.67
4	7.86	9.00	6.67	8.11	8.30	9.82	9.19	10.84	12.03	12.21	12.13	10.60
5	7.57	9.15	6.79	8.23	8.42	9.96	9.43	10.97	12.05	12.30	12.39	10.01
6	7.36	9.28	6.83	8.35	8.60	10.03	9.71	11.02	12.01	12.40	12.40	9.55
7	7.49	9.04	6.91	8.29	8.72	10.07	9.86	10.83	12.05	12.38	12.12	9.44
8	7.58	9.03	7.15	7.86	8.79	10.09	9.96	10.82	12.14	12.46	11.95	9.73
9	7.73	9.02	7.48	7.31	8.85	10.19	10.01	10.85	12.13	12.49	11.80	9.80
10	7.87	9.13	7.66	7.05	8.85	10.31	7.50	10.89	12.08	12.50	11.64	9.92
11	8.02	9.07	7.70	7.03	6.50	10.41	7.21	10.97	12.08	12.50	11.35	9.83
12	8.31	8.91	7.72	6.76	5.75	10.48	7.46	11.03	12.16	12.51	11.07	9.77
13	8.45	8.40	7.67	6.43	6.00	10.54	7.78	11.11	12.07	12.56	10.71	9.94
14	8.46	8.47	7.69	6.08	6.43	10.57	8.05	11.16	12.04	12.59	10.09	10.20
15	7.89	8.55	7.70	5.92	6.78	10.60	8.33	11.21	12.03	12.58	10.01	10.15
16	7.87	8.47	7.48	6.18	7.03	10.61	8.63	11.25	12.04	12.55	10.09	10.54
17	7.81	8.04	6.97	6.44	7.25	10.65	8.90	11.34	12.01	12.57	10.27	10.62
18	e7.53	7.94	6.40	6.64	7.55	10.73	8.66	11.41	11.99	12.61	10.47	10.40
19	h7.15	7.50	5.99	6.74	7.79	10.80	8.64	11.49	12.03	12.64	10.58	10.60
20	6.90	6.59	6.00	7.04	7.99	10.84	8.81	11.55	12.11	12.66	10.73	10.58
21	6.96	5.92	6.22	7.17	8.20	10.94	9.04	11.56	12.17	12.59	10.78	10.42
22	....	5.40	6.46	7.18	8.44	10.98	9.21	11.65	12.21	12.62	10.78	10.58
23	....	5.67	6.54	7.55	8.62	11.06	9.44	11.74	12.16	12.68	10.72	10.56
24	....	6.00	6.76	7.67	8.81	11.14	9.62	11.79	12.19	12.49	10.38	10.62
25	....	6.21	7.17	7.69	8.94	11.23	9.76	11.81	12.13	12.37	10.23	10.58
26	h7.75	6.36	7.34	7.92	9.06	11.28	9.91	11.81	12.16	12.26	9.99	9.90
27	....	6.72	7.43	8.14	9.08	11.29	10.06	11.83	12.09	12.19	10.21	9.49
28	....	7.00	7.47	8.18	9.05	10.45	10.12	11.84	12.20	12.11	10.28	9.16
29	....	....	7.50	8.07	9.14	9.41	10.21	11.90	12.30	12.11	10.38	8.90
30	....	....	7.58	8.08	9.28	8.81	10.34	11.82	12.25	12.10	10.49	8.61
31	....	....	7.82	....	9.42	....	10.42	11.80	....	12.10	....	8.07

e Estimated.

h Tape measurement.

My 4. Mrs. W. L. Glenn Estate. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 17 N., R. 6 W. Dug unused well in glacial drift, diameter 36 inches, depth 21 feet, cribbed with rock. Highest water level 1.33 below lsd, Apr. 4, 1938; lowest 17.33 below lsd, Oct. 15, 1940. Records available: 1935-42, 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.77	10.08	3.29	2.87	3.17	5.25	8.53	10.33	13.01	14.15	14.61	....
2	10.79	10.09	2.95	2.90	3.21	5.42	8.60	10.43	13.08	14.18	14.59	....
3	10.77	10.12	2.79	2.93	3.25	5.61	8.69	10.52	13.12	14.21	14.58	....
4	10.71	10.13	2.76	2.96	3.29	5.70	8.77	10.62	13.17	14.25	14.57	....
5	10.65	10.16	2.82	3.01	3.33	5.76	8.83	10.74	13.24	14.28	14.56	....
6	10.57	10.18	2.88	3.05	3.40	5.92	8.91	10.87	13.28	14.12	e14.53	....
7	10.50	10.19	2.94	3.05	3.45	6.04	9.02	10.91	13.32	14.15	e14.51	....
8	10.45	10.19	3.02	2.77	3.48	6.14	9.13	10.97	13.37	14.17	e14.49	11.37
9	10.42	10.20	3.15	2.44	3.51	6.26	9.23	11.01	13.42	14.18	e14.47	11.34
10	10.40	10.21	3.26	2.35	3.56	6.34	9.24	11.03	13.49	14.20	....	11.31
11	10.38	10.23	3.34	2.35	e1.85	6.49	9.27	11.08	13.52	14.22	....	11.28
12	10.37	10.23	3.40	2.16	2.09	6.68	9.31	11.13	13.57	14.24	....	11.25
13	10.36	10.20	3.43	2.06	2.40	6.77	9.32	11.19	13.62	....	....	12.24

My 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
14	10.35	10.18	3.45	1.90	2.67	6.85	9.35	11.24	13.64	.....	.....	11.23
15	10.33	10.17	3.46	2.14	2.90	6.90	9.40	11.27	13.67	.....	13.68	11.22
16	10.31	10.15	3.39	2.35	3.12	7.10	9.46	11.38	13.71	.....	13.47	11.22
17	10.29	10.12	3.16	2.48	3.30	7.20	9.54	11.50	13.75	.....	13.27	11.23
18	10.26	10.06	2.41	2.58	3.45	7.27	9.56	11.64	13.79	.....	13.10	11.24
19	10.20	9.77	2.19	2.65	3.60	.....	9.60	11.76	13.84	14.64	12.95	11.24
20	10.14	.....	2.37	2.74	3.75	.....	e9.65	11.88	13.88	14.66	12.80	11.25
21	10.08	.....	2.49	2.82	3.89	.....	e9.76	11.99	13.93	14.67	12.68	11.25
22	10.05	.....	2.57	2.86	4.06	.....	e9.80	12.12	13.97	14.69	12.57	11.25
23	10.01	h2.92	2.57	2.95	4.16	7.97	.....	12.24	13.99	14.70	12.44	11.25
24	9.99	2.97	2.60	3.02	4.28	8.07	9.85	12.36	14.01	14.71	.....	11.24
25	9.98	3.04	2.73	3.06	4.42	8.21	9.91	12.50	14.03	14.70	.....	11.24
26	9.98	3.11	2.85	3.14	4.58	8.34	9.98	12.62	14.05	14.70	.....	11.20
27	9.98	3.23	2.90	3.22	4.65	8.45	10.07	12.71	14.07	14.68	.....	11.18
28	9.99	3.35	2.93	3.26	4.72	8.45	10.09	12.75	14.08	14.67	.....	11.15
29	10.01	.....	2.91	3.22	4.83	8.48	10.14	12.83	14.10	14.65	.....	11.11
30	10.03	.....	2.87	3.18	4.97	8.51	10.20	12.86	14.13	14.64	.....	11.07
31	10.06	.....	2.88	.....	5.13	.....	10.28	12.93	.....	14.62	.....	11.03

e Estimated.

h Tape measurement.

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 well in rock, diameter 8 inches, depth 46 feet. Measurements made by Victor McGee. Highest water level 1.75 below lsd, Dec. 18, 1950; lowest 8.80 below lsd, Sept. 11, 1945. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	6.75	Apr. 5	6.40	July 3	6.50	Oct. 2	8.35
9	5.88	10	5.80	10	6.00	9	8.27
16	5.70	17	5.90	17	6.30	16	8.38
23	5.84	24	6.00	24	6.50	23	8.66
30	5.80	May 1	6.10	31	6.40	30	8.48
Feb. 6	6.50	8	5.90	Aug. 7	6.90	Nov. 6	8.33
14	6.35	16	6.00	14	7.20	13	6.25
20	5.70	22	6.50	21	7.50	20	6.12
27	5.79	29	6.60	28	7.70	27	6.01
Mar. 6	6.00	June 5	4.50	Sept. 5	7.86	Dec. 3	5.78
13	6.05	12	3.90	11	7.85	11	6.49
20	6.70	19	7.40	18	8.00	18	6.32
26	5.80	26	6.75	25	8.01	26	5.52

Noble County

No 5. Rolla Becker. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 34 N., R. 10 E. Dug unused well in glacial drift, diameter 36 inches, depth 29 feet, cribbed with brick. Measurements made by Keith Becker. Highest water level 0.49 below lsd, May 17, 1943; lowest 9.20 below lsd, Feb. 3, 1945. Records available: 1942-51.

Jan. 13	1.94	Apr. 16	2.97	July 16	3.90	Oct. 15	5.99
20	3.24	May 1	3.43	Aug. 1	4.86	Nov. 1	5.00
Feb. 1	3.70	15	3.59	15	3.94	15	3.78
15	1.40	June 1	4.14	Sept. 1	4.81	Dec. 3	3.14
Mar. 15	2.23	15	3.98	15	5.40	15	4.01
Apr. 2	2.00	July 2	1.81				

No 6. City of Kendallville. Diamond St. at Bixler Lake. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 35 N., R. 11 E. Drilled unused well in sand and gravel, diameter 6 inches, depth 40 feet, cased to 30. Land-surface datum is 967.5 feet above msl. Measurements made by personnel of Kendallville Water Dept. Nearby well being pumped. Highest water level 17.27 below lsd, May 26, 1949; lowest 25.28 below lsd, Feb. 28, 1947. Records available: 1946-51.

No 6--Continued.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	20.70	20.65	.....	.....	21.45	21.35	22.00	22.55	23.05	22.55	22.20
2	.....	20.75	20.65	.....	.....	21.50	21.30	22.10	22.50	23.05	22.55	22.15
3	.....	20.75	20.55	.....	.....	21.50	21.30	22.15	22.50	.....	22.50	22.10
4	.....	.....	20.60	.....	.....	21.40	21.35	22.25	22.50	.....	22.50	22.10
5	.....	.....	h20.55	.....	.....	21.40	21.50	22.25	22.50	.....	22.45	22.10
6	20.40	20.90	20.60	.....	.....	21.45	21.50	22.20	22.60	.....	22.40	22.10
7	20.35	20.95	20.65	.....	.....	21.55	21.50	22.15	22.65	.....	22.40	22.15
8	20.25	20.95	20.65	.....	.....	21.60	21.45	22.30	22.70	.....	22.40	22.20
9	20.35	20.95	20.60	.....	21.10	21.60	21.40	22.35	22.70	.....	22.45	22.10
10	20.35	20.90	20.65	.....	21.20	21.35	21.40	22.40	22.65	.....	22.45	22.10
11	20.35	20.85	.....	20.95	21.20	21.20	21.40	22.45	22.65	.....	22.40	22.05
12	20.35	21.00	.....	20.95	21.20	21.30	21.45	22.50	22.75	.....	22.30	22.05
13	20.45	20.95	h20.75	20.95	21.25	21.35	21.45	22.40	22.75	.....	.....	22.10
14	20.30	20.95	20.75	21.05	21.10	21.45	21.40	22.40	22.80	.....	22.30	22.15
15	20.25	20.90	20.75	21.00	21.05	21.40	21.40	.....	22.80	.....	22.30	22.20
16	20.35	20.95	20.75	21.00	21.05	21.70	21.25	.....	22.85	.....	22.30	22.15
17	20.30	21.05	20.80	20.95	21.05	21.60	21.30	.....	22.85	23.30	22.35	22.10
18	20.35	e21.00	20.85	20.90	21.15	21.55	21.35	.....	22.90	23.35	22.25	22.15
19	20.45	h20.95	20.75	20.85	21.10	21.70	21.50	.....	22.90	23.40	22.20	22.20
20	20.45	21.00	20.80	20.90	21.10	21.55	21.45	.....	22.90	23.40	22.20	22.20
21	20.50	20.95	20.80	20.95	21.00	21.50	21.60	22.45	22.95	23.40	22.15	22.20
22	20.40	20.95	20.90	20.95	21.20	21.45	21.50	22.50	23.00	23.40	22.15	22.25
23	20.40	20.90	20.80	20.90	21.40	21.60	21.50	22.55	23.00	23.40	22.10	22.25
24	20.50	21.00	20.75	20.85	21.50	21.35	21.70	22.55	22.95	23.20	22.10	22.30
25	20.60	e20.85	.....	.....	21.55	21.25	21.75	22.45	22.95	23.10	22.10	22.20
26	20.60	h20.70	.....	.....	21.60	21.15	21.85	22.40	23.00	23.00	22.05	22.15
27	20.60	20.75	.....	.....	21.65	21.30	21.95	22.40	23.00	22.95	22.05	.....
28	20.65	20.70	.....	.....	21.50	21.35	22.00	22.45	23.05	22.80	22.10	.....
29	20.65	.....	.....	.....	21.55	21.45	22.00	22.45	23.10	22.70	22.10	.....
30	20.70	.....	.....	.....	21.60	21.40	21.85	22.50	23.10	22.65	22.15	.....
31	20.70	.....	.....	.....	21.50	.....	21.95	22.55	.....	22.60	.....	.....

e Estimated.

h Tape measurement.

No 7. Arthur McClellan. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 33 N., R. 9 E. Driven unused well in glacial drift, diameter 1 $\frac{1}{2}$ inches, depth 29 feet. Highest water level 15.90 below lsd, Apr. 18, 1950; lowest 22.32 below lsd, Nov. 24, 1947. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	20.08	Apr. 1	18.72	June 25	19.10	Sept. 23	19.82
8	19.90	8	18.62	July 9	19.18	Oct. 1	20.85
15	19.72	15	18.50	16	18.90	15	20.15
22	19.68	22	18.35	30	18.92	22	20.25
28	18.82	30	18.20	Aug. 6	18.00	29	20.31
Feb. 4	19.66	May 6	18.65	13	19.20	Nov. 5	20.40
11	19.60	13	18.40	20	19.27	19	20.45
26	18.81	28	18.61	Sept. 4	18.52	26	20.45
Mar. 4	18.74	June 4	18.75	10	19.58	Dec. 10	20.35
11	18.64	17	19.02	16	19.73	24	20.25
18	18.64						

Ohio County

Oh 1. Arthur H. Hannah. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 3 N., R. 2 W. Dug unused well, diameter 4 feet, depth 40 feet, cribbed with stone. Highest water level 0.63 below lsd, Mar. 3, 1945; lowest 14.84 below lsd, Oct. 30, 1948. Records available: 1944-51.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
6	5.08	17	3.28	26	4.05		4	11.66	
13	4.73	24	3.23	2	4.23		11	12.31	
20	4.48	31	2.12	9	4.87		18	13.18	
27	4.23	Apr. 7	3.26	16	6.09		Sept. 1	13.89	
Feb. 3	4.09	14	3.62	23	7.42		8	14.28	
10	3.96	21	3.65	30	7.99		15	13.79	
17	3.67	28	3.67	July 7	8.28		22	13.83	
24	3.51	May 5	3.73	14	8.81		29	13.96	
Mar. 3	3.44	12	3.86	21	10.49		Oct. 6	14.01	
10	3.32	19	3.94	28	11.11		13	14.09	

On 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 20	14.13	Nov. 10	13.81	Dec. 1	11.79	Dec. 22	10.34
27	14.28	17	13.37	8	11.18	29	9.98
Nov. 3	14.23	24	12.34	15	10.70		

Orange County

Or 1. Herman D. Winger. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 1 N., R. 2 E. Dug unused well in clay and rock, diameter 36 inches, depth 36 feet. Highest water level 0.13 below lsd, Apr. 28, 1948; lowest 14.49 below lsd, Mar. 1, 1944. Records available: 1944-51.

Jan. 6	9.88	Apr. 7	1.03	July 7	6.13	Oct. 6	9.02
13	7.88	14	1.32	14	6.90	13	10.02
20	2.85	21	1.22	21	7.42	20	10.04
27	1.02	28	2.09	28	6.18	27	10.04
Feb. 3	1.08	May 5	2.14	Aug. 4	7.11	Nov. 3	10.14
10	1.47	12	3.20	11	7.44	10	11.02
17	1.43	19	3.87	18	7.84	17	11.06
24	1.51	26	4.42	25	8.02	24	11.08
Mar. 3	1.53	June 2	5.02	Sept. 1	8.18	Dec. 1	11.28
10	1.61	9	5.28	8	8.38	8	4.82
17	1.02	16	5.39	15	8.87	15	4.86
24	1.02	23	5.87	22	9.02	29	2.02
31	1.02	July 1	5.84	30	9.18		

Owen County

Ow 2. U. S. Department of the Army. Corps of Engineers. Cagles Mill Reservoir. Formerly Agnes Stuckey. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, T. 12 N., R. 4 W. Drilled unused well in limestone, diameter 6 inches, depth 96 feet. Highest water level 6.74 below lsd, Jan. 15, 1950; lowest 25.65 below lsd, Oct. 15, 1946. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	19.08	18.92	17.90	18.80	18.98	19.23	15.62	.....	20.37	20.88	19.64	18.75
2	19.10	18.96	18.20	18.84	19.01	19.27	16.50	.....	e20.40	20.88	19.87	18.83
3	19.07	19.02	18.30	18.88	19.02	19.32	17.31	.....	20.44	20.87	20.02	18.89
4	18.94	19.01	18.41	18.90	19.00	19.22	17.84	.....	20.50	20.88	20.08	16.25
5	18.94	19.01	18.54	18.94	18.99	19.23	18.30	18.43	20.54	20.91	20.22	14.84	
6	18.91	19.03	18.62	18.97	19.02	19.25	18.61	18.64	20.55	20.97	20.33	14.94	
7	18.91	19.01	18.66	18.97	18.89	19.26	18.88	18.81	20.57	20.99	18.34	15.70	
8	18.90	19.06	18.70	18.80	17.46	19.27	19.10	18.96	20.63	20.92	18.60	16.41	
9	18.91	19.10	18.77	18.78	17.90	19.29	19.27	19.09	20.63	20.95	18.91	16.43	
10	18.90	19.13	18.85	18.81	18.26	19.35	15.19	19.23	20.63	20.96	19.03	16.92	
11	18.89	19.11	18.89	18.86	13.25	19.42	16.13	19.36	20.63	20.97	18.46	17.40	
12	18.92	19.08	18.90	18.86	14.60	19.49	16.97	19.47	20.67	20.97	18.64	17.70	
13	18.94	19.01	18.87	18.64	.....	19.27	17.56	19.57	20.68	21.00	18.70	18.01
14	18.93	18.94	18.84	h17.45	.....	19.29	18.03	19.64	20.70	21.02	14.33	18.29
15	14.90	18.95	18.84	17.57	.....	19.33	18.36	19.71	20.73	21.02	15.38	18.41
16	15.64	18.93	18.65	17.83	.....	19.37	18.56	19.77	20.76	21.03	15.97	18.60
17	16.31	18.58	18.66	18.11	.....	19.42	18.73	19.84	20.79	21.04	16.64	18.71
18	15.95	18.52	18.10	18.35	.....	19.49	18.91	19.91	20.81	21.06	17.40	18.76
19	15.23	18.00	17.69	18.49	h18.56	19.55	19.06	19.98	20.84	21.07	17.90	18.79	
20	15.43	16.43	17.96	18.61	.....	19.60	19.20	20.05	20.87	21.09	18.33	18.85
21	16.12	.....	18.23	18.70	.....	19.66	19.34	20.09	20.89	21.06	18.57	18.83
22	16.89	11.46	18.42	.....	.....	19.72	19.44	20.15	20.91	21.05	18.68	18.74
23	17.47	13.66	18.37	.....	18.85	19.76	19.54	20.23	20.92	19.60	17.95	18.82
24	17.80	14.92	18.24	18.92	19.81	19.65	20.30	20.96	14.82	16.66	18.88
25	18.13	15.81	18.44	18.97	19.87	19.31	20.35	20.96	15.35	17.26	18.93
26	18.40	16.49	18.59	.....	19.00	19.93	19.30	20.39	20.97	18.45	17.67	17.11
27	18.55	17.11	18.68	.....	19.05	19.93	19.33	20.41	20.60	17.41	18.07	17.47
28	18.60	17.60	18.71	h18.98	19.04	19.80	.....	20.43	20.71	18.04	18.36	17.81
29	18.71	.....	18.73	18.97	19.07	12.76	.....	20.46	20.83	18.55	18.52	18.05
30	18.83	.....	18.73	18.97	19.13	14.75	.....	20.42	20.88	18.95	18.64	17.65
31	18.91	.....	18.76	.....	19.19	.....	.....	20.38	.....	19.32	.....	17.41

e Estimated.

h Tape measurement.

OW 3. Ben Lambert. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 12 N., R. 4 W. Drilled unused artesian well in limestone, diameter 6 inches, depth 130 feet. Highest water level 108.29 below lsd, Apr. 15, 1949; lowest 109.94 below lsd, July 17, 1946. Records available: 1946-49. No measurement made in 1951.

OW 4. Jackson Township School. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 12 N., R. 4 W. Drilled unused artesian well in limestone, diameter 6 inches, depth 87 feet, cased to 35. Highest water level 68.81 below lsd, Apr. 19, 1947; lowest 84.58 below lsd, Sept. 20, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	77.17	Apr. 9	77.74	July 9	76.07	Oct. 8	76.48
8	77.33	16	76.11	16	76.36	15	77.89
15	77.72	23	76.47	23	77.79	22	78.08
22	77.43	30	76.74	30	77.37	29	78.16
29	77.25	May 7	78.57	Aug. 6	77.12	Nov. 5	78.42
Feb. 5	78.77	14	76.04	13	78.77	12	78.75
12	77.82	21	76.19	20	78.59	19	77.04
19	76.49	28	77.78	27	78.64	26	77.39
26	75.80	June 4	78.10	Sept. 4	77.58	Dec. 3	77.28
Mar. 5	74.08	11	78.32	10	77.74	10	78.81
12	75.67	18	78.68	17	77.88	17	78.85
19	74.06	25	77.13	24	76.19	24	77.18
26	75.68	July 2	76.30	Oct. 1	76.40	31	77.69
Apr. 2	76.39						

OW 5. Ed Laudig. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 12 N., R. 4 W. Dug unused well, diameter 28 inches, depth 19 feet, cribbed with stone. Highest water level 1.06 below lsd, Jan. 14, 1950; lowest 13.39 below lsd, Aug. 3, 1946. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	4.96	Apr. 14	1.68	July 21	4.85	Oct. 12	9.89
13	4.26	21	1.69	29	6.09	20	9.77
20	2.99	May 5	2.88	Aug. 6	7.28	27	8.83
30	3.25	12	1.62	11	7.45	Nov. 4	8.99
Feb. 3	3.96	19	3.89	20	9.06	10	8.07
10	4.46	28	4.85	25	8.85	17	3.07
17	3.74	June 4	6.43	Sept. 1	8.44	25	1.97
24	3.25	10	6.85	9	8.47	Dec. 1	3.78
Mar. 3	1.90	17	6.53	15	8.88	9	1.64
17	1.58	23	6.67	24	8.87	15	2.08
24	1.79	July 1	6.48	Oct. 2	9.08	22	2.25
Apr. 1	1.77	10	5.47	6	9.39	29	3.89
7	1.76	15	4.97				

OW 6. Ed Laudig. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 12 N., R. 5 W. Dug unused well, diameter 36 inches, depth 19 feet, cribbed with stone. Highest water level 1.72 below lsd, Mar. 26, 1949; lowest 9.57 below lsd, Oct. 2, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	5.53	Apr. 14	4.19	July 21	5.47	Oct. 12	8.97
13	6.05	21	5.28	29	6.95	20	8.58
20	4.36	May 5	6.14	Aug. 6	7.42	27	6.35
30	5.46	12	5.45	11	7.91	Nov. 4	6.82
Feb. 3	5.38	19	6.09	20	7.47	10	5.78
10	5.47	28	6.32	25	7.91	17	4.58
17	4.28	June 4	7.03	Sept. 1	8.08	25	3.55
24	5.46	11	7.19	9	8.35	Dec. 1	5.82
Mar. 3	4.84	17	6.18	15	8.49	9	4.38
17	5.05	23	6.24	24	8.37	15	6.43
24	5.18	July 1	6.10	Oct. 2	8.23	22	5.39
Apr. 1	5.22	10	5.57	6	8.50	29	5.39
7	4.98	15	5.55				

Perry County

Pe 1. John Snyder. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 5 S., R. 2 W. Dug unused well, diameter 30 inches, depth 22 feet, cribbed with stone. Highest water level 0.80 below lsd, Jan. 14, 1951; lowest 10.12 below lsd, Aug. 13, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	3.56	Feb. 18	2.80	Apr. 1	2.80	May 13	6.60
14	.80	25	3.71	10	2.79	20	6.99
21	3.80	Mar. 4	2.78	15	2.97	27	6.30
28	4.45	11	2.35	22	1.79	June 3	7.60
Feb. 4	5.00	18	2.24	29	4.52	10	5.20
11	4.18	25	3.10	May 6	5.92	17	7.70

Pe 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 24	7.68	Aug. 12	8.51	Sept. 30	8.22	Nov. 18	4.27
July 1	5.80	19	8.75	Oct. 7	8.42	25	2.60
8	6.70	26	8.79	14	8.69	Dec. 2	3.99
15	7.51	Sept. 2	7.82	21	8.96	9	2.80
22	7.79	9	8.62	28	8.69	16	2.99
29	7.79	16	7.36	Nov. 4	5.55	23	3.30
Aug. 5	8.29	23	7.77	11	6.62	30	2.98

Pike County

Pl 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 unused well in rock, diameter 36 inches, depth 15 feet. Measurements made by personnel of Pike County State Forest. Highest water level 3.25 below lsd, Mar. 20, 1951; lowest 12.94 below lsd, Dec. 30, 1944. Records available: 1936-51.

Jan. 2	6.69	Mar. 27	4.32	July 30	7.53	Oct. 22	9.14
9	6.15	Apr. 3	4.72	Aug. 6	7.78	29	9.18
16	5.03	10	4.72	13	8.13	Nov. 5	9.23
23	5.31	June 4	5.50	20	8.39	12	9.02
30	5.66	11	6.40	27	8.56	19	8.38
Feb. 6	5.84	18	6.47	Sept. 3	8.42	26	7.79
13	5.69	25	6.47	10	8.52	Dec. 3	7.46
20	5.04	July 2	6.53	17	8.48	10	6.18
27	4.36	9	6.68	Oct. 1	8.52	17	6.79
Mar. 6	4.79	16	6.90	8	8.73	24	6.64
13	4.48	23	7.38	15	9.03	31	6.43
20	3.25	27	7.47				

Porter County

Pt 1. City of Valparaiso. Valparaiso Water Department. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 35 N., R. 5 W. Drilled unused well in sand, diameter 2 inches, reported depth 110 feet. Measurements made by Richard Coote. Nearby well being pumped. Highest water level 50.02 below lsd, Dec. 4, 11, 1951; lowest 62.90 below lsd, Sept. 18, 1949. Records available: 1935-51.

Jan. 7	56.09	Apr. 8	57.23	June 17	53.10	Aug. 26	52.02
14	55.98	15	56.23	24	52.91	Oct. 30	51.48
21	56.02	22	56.80	July 1	52.77	Nov. 6	51.01
28	56.19	29	55.17	8	52.57	13	51.47
Feb. 4	56.07	May 6	54.94	15	52.64	20	50.43
11	56.02	13	54.67	22	52.50	27	50.91
18	56.03	20	54.09	29	52.35	Dec. 4	50.02
Mar. 18	56.73	28	53.94	Aug. 5	52.24	11	50.02
25	57.14	June 3	53.57	12	52.14	18	50.57
Apr. 1	56.76	10	53.34	19	52.04	27	50.78

Pt 3. State of Indiana. Dunes State Park. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 37 N., R. 6 W. Driven unused well in sand, diameter 1 $\frac{1}{4}$ inches, reported depth 18 feet. Measurements made by personnel of Dunes State Park. Highest water level 11.1 below lsd, June 20, 1943; lowest 17.3 below lsd, Dec. 23, 1940. Records available: 1935-46, 1948-51.

Jan. 6	15.71	May 14	14.00	July 23	14.93	Oct. 1	15.48
27	15.51	21	13.89	30	14.85	8	15.61
Feb. 24	15.40	28	13.88	Aug. 6	14.83	15	15.66
Mar. 10	15.49	June 4	14.04	13	14.81	22	15.64
17	15.45	11	14.20	20	14.77	Nov. 9	15.67
Apr. 2	15.37	18	14.39	27	14.78	26	15.04
9	15.33	25	14.45	Sept. 3	14.73	Dec. 3	15.03
16	15.06	July 2	14.64	10	14.75	8	15.01
23	14.99	9	14.68	17	15.74	15	14.98
30	14.79	16	14.77	24	15.83	22	14.98
May 7	14.54						

Pt 6. Indiana Associated Telephone Corp., Wheeler. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 35 N., R. 7 W. Dug and driven unused well in clay and sand, diameter 60 to 4 inches, depth 45 feet, cribbed with brick. Highest water level 1.69 below lsd, Mar. 18, 1950; lowest 22.03 below lsd, Dec. 11, 1948. Records available: 1948-51.

Pt 6--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	4.68	Apr. 7	2.07	July 7	5.33	Oct. 6	8.59
13	4.74	14	2.02	14	6.09	13	5.80
20	4.55	21	3.29	21	5.00	20	6.44
27	5.36	28	2.90	28	5.74	27	4.72
Feb. 3	6.20	May 5	3.81	Aug. 4	6.76	Nov. 3	5.26
10	5.42	12	2.66	11	7.30	10	5.40
17	4.17	19	3.76	18	7.84	17	2.97
24	3.64	26	4.38	25	9.23	24	3.01
Mar. 3	3.15	June 2	4.48	Sept. 1	10.37	Dec. 1	3.43
10	3.83	9	5.12	8	10.90	8	3.48
17	2.75	16	5.57	15	11.57	15	4.05
24	3.70	23	4.18	22	12.37	22	4.55
31	2.36	30	4.49	29	8.90	29	4.49

Posey County

Py 2. Warren Wade Estate. 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 3.08 below lsd, June 6, 1951; lowest 9.90 below lsd, Dec. 7, 1947. Records available: 1947-51.

Jan. 3	4.58	Mar. 28	3.36	June 20	3.86	Oct. 10	5.76
10	4.72	Apr. 4	3.16	27	3.88	17	7.22
17	4.44	11	3.12	July 11	4.79	24	8.89
24	4.58	18	3.32	18	4.78	31	8.53
Feb. 1	4.32	25	3.12	25	3.72	Nov. 7	8.61
31	4.42	May 2	3.24	Aug. 8	5.49	14	8.92
14	4.28	9	3.22	22	6.28	21	8.79
21	3.92	16	4.04	29	6.36	28	8.72
28	3.84	23	3.42	Sept. 5	6.52	Dec. 5	8.59
Mar. 7	4.52	30	3.12	19	6.12	12	8.17
14	4.06	June 6	3.08	26	6.03	19	7.63
21	4.26	13	3.22	Oct. 3	5.82	26	7.53

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 well in rock, diameter 4 inches, reported depth 149 feet, cased to 60. Measurements made by Cecil H. Rowe. Highest water level 5.31 below lsd, Apr. 10, 1950; lowest 12.14 below lsd, Dec. 1, 1935. Records available: 1935-42, 1944-51.

Jan. 1	8.12	Apr. 9	5.92	July 9	6.58	Oct. 8	8.28
8	8.35	16	5.98	16	6.60	15	8.30
15	8.20	23	6.04	23	6.62	22	8.30
22	8.16	30	5.90	30	6.64	29	8.46
29	8.16	May 7	5.86	Aug. 6	6.76	Nov. 5	8.71
Feb. 5	7.70	14	5.82	13	6.72	12	7.29
12	7.82	21	5.98	20	6.70	19	7.32
17	7.78	28	5.82	27	6.76	26	7.96
26	7.80	June 4	5.86	Sept. 3	6.76	Dec. 3	8.00
Mar. 5	8.05	11	6.52	10	6.80	10	6.97
12	7.90	18	6.48	17	6.89	17	6.91
19	8.03	25	6.50	24	7.99	24	6.88
26	8.10	July 2	6.60	Oct. 1	8.14	31	6.56
Apr. 1	6.08						

Putnam County

Pn 2. W. W. Coffman. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 12 N., R. 4 W. Drilled unused well in rock, diameter 6 inches, depth 202 feet. Highest water level 44.74 below lsd, Mar. 18, 1951; lowest 129.89 below lsd, Apr. 1, 1949. Records available: 1949-51.

Jan. 7	112.72	Feb. 25	84.48	Apr. 16	62.43	June 17	109.15
14	113.86	Mar. 4	94.06	22	57.49	24	109.80
20	62.00	11	95.48	29	71.10	July 1	109.90
29	85.22	18	44.74	May 8	86.60	8	110.16
Feb. 4	96.63	25	60.75	14	89.58	15	111.43
11	95.53	Apr. 4	61.43	26	108.05	25	110.94
18	85.65	8	58.36	June 10	115.00	29	110.52

Pn 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 5	111.06	Sept. 23	124.91	Nov. 4	120.22	Dec. 9	71.66
12	114.77	30	126.09	11	112.36	15	101.90
19	116.82	Oct. 14	124.10	17	113.69	22	82.76
27	117.99	20	126.87	25	106.77	29	71.23
Sept. 2	118.54	27	117.93	Dec. 1	104.36		

Pn 3. State of Indiana. Formerly Frederic A. Danforth. Cagles Mill State Forest. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 12 N., R. 4 W. Drilled unused well in rock, diameter 6 inches, depth 157 feet. Highest water level 124.29 below lsd, Mar. 9, 1948; lowest 132.21 below lsd, Oct. 29, 1946. Records available: 1946-51.

Jan. 7	131.20	Apr. 4	130.10	July 8	130.12	Oct. 20	130.43
14	131.32	8	130.10	15	129.47	27	130.17
20	130.17	16	130.04	25	130.69	Nov. 4	130.38
29	130.03	22	129.94	29	129.73	11	130.48
Feb. 4	129.82	29	130.08	Aug. 5	130.24	17	130.03
11	129.65	May 8	130.13	12	130.25	25	130.32
18	131.06	14	130.10	19	130.36	Dec. 1	130.00
25	130.19	26	130.10	27	130.40	9	129.56
Mar. 4	130.17	June 10	130.10	Sept. 16	130.31	15	130.14
11	130.22	17	129.95	23	130.30	22	130.19
18	130.43	24	130.02	30	130.32	29	130.19
25	130.29	July 1	130.17	Oct. 14	130.36		

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, reported depth 157 feet, cased to 148. Measurements made by Artie V. Keys. Highest water level 12.08 below lsd, Jan. 31, 1949; lowest 18.43 below lsd, Jan. 31, 1945. Records available: 1942-51.

Jan. 15	12.98	Apr. 15	12.45	July 15	14.87	Oct. 15	16.96
31	13.54	30	13.35	31	15.14	31	17.03
Feb. 15	13.53	May 15	13.88	Aug. 15	15.63	Nov. 15	16.96
28	12.73	31	14.01	31	16.04	30	16.68
Mar. 15	13.31	June 15	14.38	Sept. 15	16.41	Dec. 15	14.51
31	12.57	30	14.44	30	16.71	31	13.49

Ra 2. James A. Lane. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T. 19 N., R. 13 E. Dug unused well, diameter 36 inches, depth 21 feet, cribbed with brick. Highest water level 0.37 below lsd, Mar. 27, 1948; lowest 12.84 below lsd, Dec. 28, 1946. Records available: 1946-51. Measurement discontinued.

Jan. 6	1.39	Jan. 27	2.60	Feb. 17	2.76	Mar. 10	2.60
13	2.21	Feb. 3	2.71	24	2.55	17	1.84
20	2.39	10	2.95	Mar. 3	2.43		

Ripley County

Ri 1. Cleve Fagan. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 8 N., R. 11 E. Dug unused well, diameter 4 feet, depth 20 feet, cribbed with stone. Highest water level 1.58 below lsd, May 3, 1947; lowest 13.10 below lsd, Jan. 15, 1945. Records available: 1944-51.

Jan. 6	5.42	Apr. 21	4.47	July 22	9.38	Oct. 13	12.42
13	4.43	28	4.40	28	9.16	20	12.51
20	4.42	May 5	4.33	Aug. 4	9.47	27	12.49
27	4.48	12	4.36	11	9.86	Nov. 3	12.50
Feb. 3	4.42	19	4.30	18	10.30	10	12.48
10	4.45	26	4.98	25	10.89	17	12.47
17	4.28	June 2	5.40	Sept. 1	11.22	24	12.43
Mar. 10	4.30	9	6.18	8	11.30	Dec. 1	12.38
17	4.41	17	5.80	15	11.25	8	12.32
24	4.44	23	7.24	22	11.23	15	12.18
31	4.41	30	7.30	29	11.80	22	11.82
Apr. 8	4.48	July 6	7.40	Oct. 6	12.30	29	11.48
14	4.44	14	7.88				

Rush County

Ru 1. Wilbert Hahn. SW $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 8, T. 14 N., R. 10 E. Dug unused well, diameter 42 inches, depth 25 feet, cribbed with stone. Highest water level 1.53 below lsd, Jan. 26, 1950; lowest 18.55 below lsd, Aug. 31, 1951. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	7.04	Mar. 31	3.27	June 30	11.54	Sept. 15	15.54
12	5.79	Apr. 14	2.35	July 6	13.17	22	17.55
20	2.01	22	2.95	13	13.55	29	16.48
28	5.11	28	3.53	20	14.70	Oct. 8	17.06
Feb. 5	10.13	May 13	7.40	29	11.82	26	16.85
12	10.43	18	13.20	Aug. 4	13.38	Nov. 2	15.49
18	10.02	29	14.81	10	13.58	23	9.20
24	2.28	June 8	14.47	17	13.35	30	8.51
Mar. 4	2.53	15	11.77	31	18.55	Dec. 14	8.50
16	7.72	22	16.99	Sept. 8	17.88	21	9.10
23	3.46						

St. Joseph County

Sj 1. City of Mishawaka. Mishawaka Water and Light Dept. SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 11, T. 37 N., R. 3 E. Drilled unused well in sand, diameter 1 $\frac{1}{2}$ inches, reported depth 40 feet. Measurements made by personnel of Mishawaka Water and Light Dept. Nearby well being pumped. Highest water level 4.46 below lsd, May 25, 1943; lowest 14.59 below lsd, Aug. 1, 1946. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	9.67	Apr. 16	10.00	July 16	9.25	Oct. 16	12.68
Feb. 1	10.17	May 1	9.43	Aug. 1	11.16	Nov. 2	9.66
17	9.75	15	8.25	15	10.58	16	10.75
Mar. 1	9.83	June 1	9.25	Sept. 2	9.83	Dec. 2	10.32
16	9.25	16	12.17	17	10.50	16	8.50
Apr. 2	8.92	July 1	8.58	Oct. 1	11.58		

Sj 10-2. Bordens Milk Co. Formerly City Dairy Co., 1225 South Main St., South Bend. SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 12, T. 37 N., R. 2 E. Drilled unused well in sand and gravel, diameter 12 inches, depth 45 feet. Nearby well being pumped. Highest water level 34.22 below lsd, Aug. 14-15, 1950; lowest 39.24 below lsd, Dec. 23-25, 1949. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e36.15	.....	36.18	36.21	36.15	35.84	35.36	35.21	35.03	34.99	35.43	35.64
2	e36.16	.....	36.22	36.21	36.14	35.82	35.36	35.22	35.04	34.97	35.45	35.64
3	e36.17	.....	36.18	36.21	36.13	35.80	35.35	35.20	35.03	34.97	35.45	35.64
4	e36.18	.....	36.21	36.20	36.12	35.79	35.33	35.21	35.02	34.99	35.44	35.63
5	e36.19	.....	36.23	36.20	36.11	35.77	35.33	35.21	35.01	35.01	35.47	35.63
6	e36.20	.....	36.22	36.20	36.11	35.75	35.34	35.19	35.00	35.04	35.48	35.63
7	36.20	.....	36.23	36.18	36.11	35.73	35.32	35.18	35.00	35.05	35.46	35.64
8	36.18	.....	36.23	36.17	36.09	35.71	35.30	35.17	35.01	35.07	35.48	35.65
9	36.19	.....	36.25	36.18	36.09	35.70	35.29	35.17	35.00	35.08	35.50	35.66
10	36.19	.....	36.26	36.18	36.08	35.68	35.28	35.16	34.98	35.11	35.51	35.66
11	36.20	.....	36.26	36.18	36.06	35.66	35.27	35.16	34.97	35.12	35.52	35.64
12	36.21	.....	36.24	36.16	36.07	35.64	35.26	35.16	34.98	35.15	35.52	35.63
13	36.22	.....	36.21	36.15	36.07	35.62	e35.26	35.15	34.96	35.17	35.51	35.65
14	36.21	.....	36.22	36.16	36.07	35.61	e35.25	35.14	34.97	35.18	35.52	35.66
15	.....	.....	36.23	36.17	36.05	35.58	e35.25	35.13	34.97	35.20	35.54	35.64
16	.....	.....	36.24	36.19	36.04	35.56	e35.24	35.13	34.98	35.22	35.56	35.68
17	.....	.....	36.25	36.19	36.02	35.54	e35.23	35.13	34.97	35.23	35.57	35.68
18	.....	.....	36.24	36.19	36.02	35.52	e35.22	35.12	34.96	35.25	35.58	35.63
19	36.22	.....	36.24	36.18	36.01	35.50	35.21	35.12	34.96	35.27	35.59	35.67
20	36.21	.....	36.24	36.19	35.99	35.48	e35.22	35.11	34.96	35.28	35.60	35.64
21	36.24	36.19	36.24	36.19	35.98	35.47	e35.22	35.09	34.95	35.28	35.60	35.67
22	36.24	36.22	36.24	36.16	35.97	.....	e35.22	35.10	34.94	35.30	35.60	35.67
23	36.20	36.23	36.22	36.18	35.96	35.44	e35.22	35.10	34.96	35.31	.....	35.68
24	36.21	36.22	36.23	36.18	35.94	35.44	e35.22	35.09	34.97	35.32	35.62	35.66
25	36.21	36.20	36.25	36.17	35.93	35.43	e35.22	35.08	34.96	35.35	35.62	35.67
26	36.22	36.17	36.25	36.18	35.92	35.41	e35.21	35.07	34.97	35.37	35.60	35.67
27	.....	36.19	36.22	36.18	35.90	35.39	35.21	35.07	34.93	35.38	35.63	35.65
28	.....	36.21	36.21	36.16	35.89	35.39	35.21	35.05	34.98	35.38	35.63	35.63
29	.....	.....	36.20	36.16	35.89	35.38	35.22	35.05	35.00	35.39	35.63	.....
30	.....	.....	36.19	36.15	35.88	35.37	35.23	35.04	34.99	35.39	35.64	.....
31	.....	.....	36.20	.....	35.87	.....	35.22	35.03	.....	35.41	.....	.....

e Estimated.

Sj 16-1. Singer Manufacturing Co. Olive St. and Western Ave., South Bend. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 37 N., R. 2 E. Drilled unused well in sand and gravel, diameter 6 inches, reported depth 118 feet. Measurements made by R. L. Kuespart. Nearby well being pumped. Highest water level 23.2 below lsd, Mar. 1, 1946; lowest 34.00 below lsd, May 16, 1949. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	28.40	Apr. 2	27.80	July 2	29.00	Oct. 8	29.40
8	28.10	9	28.60	9	29.00	15	30.20
17	27.70	16	26.70	16	29.60	22	28.95
22	28.10	23	28.30	23	29.75	29	30.00
29	28.40	30	29.00	30	27.50	Nov. 5	30.25
Feb. 5	27.60	May 7	28.10	Aug. 7	26.30	12	28.30
12	27.60	14	29.10	13	27.98	19	28.00
19	27.40	21	29.00	27	27.20	26	28.75
26	27.00	28	27.80	Sept. 4	27.80	Dec. 3	27.50
Mar. 5	28.40	June 4	27.70	10	28.20	10	28.00
12	28.40	11	28.80	17	27.90	16	28.40
19	28.20	18	29.30	25	29.20	27	27.55
26	28.40	25	29.30	Oct. 1	28.60		

Sj 16-2. Formerly St. Joseph 16-F. Singer Manufacturing Co. Olive St. and Western Ave., South Bend. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 37 N., R. 2 E. Dug unused well in sand, diameter 40 feet, reported depth 40 feet. Measurements made by R. L. Kuespart. Highest water level 13.99 below lsd, Dec. 5, 1909; lowest 21.72 below lsd, Feb. 22, 1945. Records available: 1909, 1925, 1927-31, 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14, 1947	19.9	Nov. 1, 1948	20.9	Mar. 13, 1950	19.9	Nov. 6, 1950	18.2
Apr. 22	19.9	15	20.9	20	19.4	27	18.4
May 3	20.9	22	20.4	Apr. 3	18.9	Dec. 11	19.4
17	20.4	Dec. 6	20.6	17	17.9	25	18.4
June 16	19.9	13	19.9	24	17.6	Jan. 8, 1951	18.4
Sept. 15	19.9	20	21.4	May 1	17.4	22	18.2
Dec. 22	19.9	26	20.6	8	17.5	Feb. 5	18.1
Jan. 26, 1948	19.9	Jan. 3, 1949	21.4	15	16.9	26	17.9
Mar. 15	19.9	17	21.4	June 5	16.7	Mar. 26	18.1
22	20.4	Mar. 14	20.9	19	16.4	Apr. 9	20.5
29	17.9	Apr. 11	20.2	July 3	16.2	23	18.1
Apr. 19	18.9	May 16	19.9	10	16.1	May 7	17.9
May 10	20.1	June 6	19.9	24	16.1	28	17.6
17	19.4	20	19.6	31	16.4	June 25	17.9
June 7	18.9	Sept. 12	20.1	Aug. 14	16.4	July 30	18.4
July 5	18.9	24	20.4	Sept. 11	16.9	Aug. 13	18.5
12	19.1	Oct. 24	20.1	18	17.2	Sept. 25	18.9
Aug. 23	18.9	Nov. 14	20.1	25	17.4	Oct. 22	18.9
Sept. 20	18.9	Dec. 12	20.6	Oct. 9	18.4	Nov. 12	18.6
Oct. 18	20.9	Jan. 16, 1950	20.5	16	17.6	Dec. 3	18.9
25	21.2	Feb. 20	19.9	23	17.9	27	18.6

Sj 22. Palace Theater. Colfax and Michigan Sts., South Bend. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 37 N., R. 2 E. Drilled unused well in sand and gravel, diameter 12 inches, depth 97 feet. Measurements made by O. A. Lambert. Nearby well being pumped. Highest water level 28.10 below lsd, Mar. 20, 1950; lowest 46.92 below lsd, Aug. 28, 1948. Records available: 1944-51.

Day	Daily 2 a. m. water level from recorder graph											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.55	35.95	33.20	34.75	34.65	36.50	39.10	39.25	41.25	34.10	34.30	35.30
2	31.80	35.90	33.50	34.20	35.15	38.00	37.00	40.35	40.00	31.85	34.10	34.65
3	32.50	36.10	33.45	34.20	35.95	39.00	37.95	39.85	37.80	34.05	34.10	31.85
4	32.70	35.90	33.10	34.35	35.75	37.15	38.75	40.45	36.95	36.20	32.50	33.00
5	33.50	34.90	32.75	34.65	36.00	37.05	38.15	39.20	37.30	37.65	31.20	34.05
6	34.05	34.70	33.30	34.75	35.90	37.70	37.85	37.70	38.30	38.80	32.00	34.75
7	34.15	34.80	33.95	35.10	35.50	37.45	38.85	37.30	38.95	.....	32.40	34.95
8	33.65	35.10	34.55	34.70	35.40	37.65	40.00	37.75	39.15	.....	33.20	34.85
9	34.00	35.05	34.85	34.15	36.15	.....	37.65	38.75	37.90	.....	33.40	34.45
10	34.60	34.90	35.00	34.60	37.05	.....	38.25	38.80	35.65	.....	32.15	31.60
11	34.95	34.95	34.95	34.95	36.25	.....	37.75	39.00	36.05	.....	33.05	32.70
12	35.35	34.90	34.20	35.10	35.80	.....	37.10	39.20	37.85	.....	32.30	33.70
13	35.95	34.85	34.35	35.35	35.30	.....	36.70	36.90	39.90	.....	33.30	34.30
14	36.10	34.95	34.70	35.50	34.30	.....	36.65	37.95	39.85	.....	34.70	34.60
15	35.20	35.10	34.90	35.30	34.50	.....	37.80	39.15	39.40	.....	35.60	34.75

Sj 22-Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	35.20	35.10	35.15	34.00	35.75	40.60	37.75	39.45	39.00	.....	35.65	34.60
17	35.50	35.20	35.70	33.90	37.35	41.10	39.35	39.55	36.30	.....	35.60	33.45
18	35.70	34.90	35.40	34.40	38.05	41.30	40.55	38.95	37.10	38.15	34.80	33.75
19	36.20	32.90	34.00	34.65	38.80	41.65	41.20	38.05	37.55	38.25	31.95	34.35
20	36.45	33.35	34.10	34.85	39.05	41.35	40.80	35.90	38.05	37.65	33.00	35.00
21	35.75	33.85	34.45	34.75	38.00	40.50	40.85	36.80	38.50	35.25	33.45	35.75
22	35.00	33.85	34.85	33.65	38.45	39.30	40.75	37.75	.....	33.10	33.90	36.35
23	35.10	33.65	34.95	31.65	37.65	38.70	38.30	38.25	.....	34.50	32.90	34.25
24	35.30	33.70	34.50	33.00	37.80	38.95	39.00	38.60	37.75	34.90	32.50	31.90
25	35.55	33.95	34.65	33.50	38.15	37.40	40.05	39.35	35.95	34.80	32.25	32.10
26	35.85	31.75	32.45	33.50	38.50	38.10	41.05	39.55	37.10	35.15	32.00	.....
27	36.30	32.15	33.10	34.10	37.20	39.10	41.85	37.45	37.60	35.40	33.10	.....
28	36.40	32.70	33.85	34.55	35.50	40.10	41.90	38.15	37.70	34.55	33.90	.....
29	36.25		34.55	34.55	35.05	40.15	39.65	39.75	37.35	31.85	34.60	.....
30	36.35		35.00	34.20	35.90	39.50	37.15	40.65	36.00	32.20	35.10	.....
31	36.15		35.10		36.05		38.40	40.95		33.50		.....

h Tape measurement.

Sj 23. Bendix Aviation Corp. Bendix Dr. and Westmore St., South Bend.

SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 37 N., R. 2 E. Drilled unused well in sand and gravel, diameter 12 inches, depth 198 feet.

Measurements made by P. E. Rudbeck. Highest water level 25.9 below lsd, Apr. 18, 1951; lowest 49.5 below lsd, May 15, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 15, 1944	45.0	Dec. 30, 1945	32.8	Nov. 30, 1947	41.3	July 15, 1949	40.1
30	48.4	Jan. 15, 1946	35.8	Dec. 16	46.5	30	43.2
July 18	46.1	30	35.6	30	46.2	Aug. 14	44.5
30	47.5	Feb. 15	35.6	Jan. 15, 1948	47.2	30	44.9
Aug. 15	47.5	28	35.6	30	47.8	Sept. 15	45.0
30	47.5	Mar. 15	35.2	Feb. 15	44.5	30	44.9
Sept. 15	46.8	30	35.3	29	47.0	Oct. 15	44.0
30	47.5	Apr. 16	35.0	Mar. 15	46.7	30	35.6
Oct. 15	46.8	30	34.7	30	46.7	Nov. 15	41.1
30	42.6	May 12	33.4	Apr. 15	46.7	30	42.3
Nov. 15	40.7	July 27	33.5	30	46.4	Dec. 15	42.5
30	39.6	Sept. 26	36.2	May 15	39.7	30	41.8
Dec. 15	39.3	Oct. 16	35.2	30	37.4	Jan. 15, 1950	41.7
30	38.1	30	46.2	June 15	35.8	30	42.3
Jan. 15, 1945	38.4	Nov. 15	47.8	26	35.2	Feb. 15	42.0
30	40.7	27	42.3	July 15	40.3	28	40.8
Feb. 15	26.1	Dec. 17	46.2	30	44.2	Mar. 15	40.7
Mar. 1	38.2	30	44.9	Aug. 15	45.6	30	40.2
15	44.1	Jan. 15, 1947	46.9	30	46.8	Apr. 15	38.7
30	48.6	26	42.5	Sept. 15	46.7	30	37.6
Apr. 15	48.1	Mar. 21	38.6	30	46.9	May 15	37.1
May 2	49.2	Apr. 2	38.4	Oct. 11	46.3	30	36.8
15	49.5	15	37.5	30	45.2	June 15	36.3
30	47.7	30	33.1	Nov. 15	46.1	30	35.6
June 14	46.2	May 15	37.9	30	45.4	July 15	35.3
30	46.8	30	37.6	Dec. 15	45.8	26	36.6
July 16	43.4	June 15	36.2	30	47.0	Aug. 15	37.7
30	45.5	30	39.0	Jan. 15, 1949	47.4	30	35.1
Aug. 14	47.0	July 15	36.6	30	46.5	Sept. 15	34.7
30	36.5	30	43.8	Feb. 15	44.9	30	34.3
Sept. 19	36.1	Aug. 15	45.5	28	46.0	Oct. 15	34.8
30	34.3	30	46.0	Mar. 15	43.1	30	35.0
Oct. 20	35.2	Sept. 15	45.8	30	43.7	Nov. 15	34.8
30	35.2	30	46.6	Apr. 15	38.4	30	34.9
Nov. 15	37.9	Oct. 15	46.0	27	26.1	Dec. 15	35.1
30	32.8	30	46.3	July 2	28.8	30	34.9
Dec. 15	33.6	Nov. 15	46.9				

Daily lowest water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.4	34.6	41.0	37.3	43.5	46.7	34.0	47.0	43.2	38.6	46.0	45.3
2	34.1	34.6	41.3	31.9	43.8	46.8	33.0	47.2	41.7	39.5	46.0	45.2
3	34.5	34.6	41.9	37.4	44.1	46.9	34.1	47.4	43.7	40.1	46.0	45.0
4	34.7	29.4	42.0	37.4	44.4	46.7	30.5	47.4	44.0	40.3	46.0	45.0
5	34.7	32.6	42.3	37.2	44.5	46.9	34.3	47.4	45.4	40.8	46.1	44.9

Sj 23--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	34.8	33.2	42.8	37.2	44.6	47.0	34.8	47.4	45.9	41.3	46.1	44.9
7	34.8	33.6	43.2	37.0	44.9	47.1	34.9	47.6	46.3	41.5	46.2	44.9
8	34.7	33.8	43.4	31.9	45.3	47.1	35.0	47.7	46.5	41.8	46.3	44.8
9	34.8	33.9	43.4	30.6	45.5	47.2	40.0	48.0	46.5	42.1	46.3	44.7
10	34.8	33.9	43.4	29.9	45.4	47.0	41.4	48.1	46.7	42.5	46.2	44.5
11	34.9	34.0	43.5	29.2	45.6	47.4	42.3	48.1	46.8	42.6	46.1	44.5
12	34.9	34.1	43.7	28.5	45.7	47.5	43.0	48.1	39.6	42.8	45.9	44.5
13	34.9	34.2	43.9	28.0	45.7	47.6	43.1	48.0	35.8	42.9	46.0	44.5
14	34.8	34.2	44.2	27.5	45.6	47.7	44.0	48.1	33.7	42.9	46.1	44.4
15	34.8	34.2	44.2	26.9	46.0	47.7	44.0	48.1	32.5	43.3	46.2	44.4
16	34.8	34.2	44.4	26.4	46.1	47.9	44.4	48.0	31.5	43.6	46.2	44.1
17	34.8	34.1	44.5	26.2	46.1	47.8	44.8	47.6	30.7	43.8	46.2	43.5
18	34.8	34.2	44.6	25.9	42.5	48.0	45.2	48.7	30.3	43.9	46.0	....
19	34.8	34.1	44.8	31.0	45.0	48.0	45.5	48.7	29.7	42.6	45.9	....
20	34.7	34.1	44.9	32.8	45.3	48.1	45.8	47.7	29.2	44.0	45.9	....
21	34.7	34.3	45.0	33.6	45.8	48.2	45.7	47.9	28.7	44.5	45.9	....
22	34.6	34.3	45.0	34.1	45.8	48.2	44.8	47.9	28.2	44.7	45.9	....
23	34.5	34.3	45.2	38.5	44.7	48.3	45.3	44.2	27.8	44.9	45.7	....
24	34.6	34.3	45.2	39.6	45.6	48.2	43.6	42.2	27.3	45.1	45.6	36.2
25	34.5	34.1	45.1	40.5	46.2	48.6	45.1	41.0	27.0	45.3	45.5	36.0
26	34.6	38.1	45.3	41.1	46.1	48.8	45.9	40.2	26.7	45.5	45.4	34.8
27	34.6	39.3	45.5	41.8	46.0	48.8	46.2	39.6	26.6	45.5	45.4	35.0
28	34.6	39.5	45.5	42.2	46.1	40.7	46.4	39.3	35.1	45.5	45.4	34.9
29	34.6		45.6	42.3	46.3	37.1	46.4	39.1	37.6	45.6	45.4	34.9
30	34.6		45.7	43.0	46.3	35.0	46.5	38.8	38.3	45.7	45.4	34.7
31	34.5		45.7		46.4		46.7	40.5		45.9		....

Sj 53. St. Marys College. South Bend. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 38 N., R. 2 E. Drilled unused well in sand and gravel, diameter 12 inches, depth 116 feet. Measurements made by Thomas Bowland. Highest water level 1.2 below lsd, Apr. 6, 7, 1950; lowest 10.7 below lsd, Nov. 4, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.2	5.5	3.8	8.1	5.0	8.3	8.3	8.3	8.9	8.3	7.7	7.3
2	8.1	5.5	3.8	8.3	5.0	8.2	8.3	8.6	8.7	8.3	7.8	7.3
3	7.8	5.5	3.8	9.5	5.0	8.2	8.5	8.4	8.7	8.4	7.9	7.2
4	4.4	5.5	3.9	10.4	5.0	8.2	8.5	8.3	9.0	8.5	7.9	7.2
5	4.0	5.5	3.9	8.0	5.1	8.2	8.6	8.6	8.9	8.4	7.9	7.0
6	3.9	5.5	3.9	8.0	5.1	8.4	8.7	8.4	8.8	8.3	8.0	7.0
7	4.0	5.5	...	7.9	5.2	8.5	8.8	8.5	9.1	8.2	8.0	6.9
8	4.1	5.5	...	7.8	8.0	8.6	8.5	8.5	8.8	8.4	8.2	7.0
9	4.2	5.6	5.0	7.6	8.0	8.5	8.4	8.4	8.8	8.2	8.1	6.9
10	4.1	5.6	5.0	7.6	7.9	8.3	8.0	5.9	8.9	...	8.1	7.0
11	4.1	5.6	5.0	4.8	7.6	8.4	8.0	5.9	8.8	...	8.1	7.1
12	4.2	5.4	7.8	5.1	7.5	8.5	8.2	5.8	8.1	...	8.0	7.0
13	4.3	8.5	5.3	4.8	7.5	8.5	8.3	6.0	8.1	8.4	8.1	7.3
14	4.3	4.9	8.0	4.6	7.5	8.7	8.4	6.1	...	8.3	7.9	7.6
15	4.3	4.8	8.0	4.6	7.6	8.5	8.5	8.4	...	8.4	7.8	...
16	4.4	4.8	7.9	7.5	7.5	8.6	8.6	5.6	...	8.4	8.1	...
17	4.5	4.7	7.9	7.5	7.7	8.5	8.7	8.3	...	8.3	7.8	...
18	4.5	4.6	7.9	7.5	7.7	8.7	5.6	8.5	...	8.3	7.9	...
19	4.6	4.5	8.0	7.7	7.6	8.6	8.2	8.3	...	8.4	7.9	7.1
20	4.6	4.4	8.1	7.7	7.6	8.2	8.3	8.6	...	8.3	7.9	7.2
21	4.5	3.5	8.2	7.6	7.8	7.9	8.4	8.3	...	8.3	7.1	7.4
22	4.5	3.4	8.1	7.6	7.8	7.8	8.3	8.0	...	8.3	7.1	7.5
23	4.6	3.2	8.1	7.8	7.7	7.6	8.4	8.0	...	8.3	7.1	7.4
24	4.6	3.2	8.1	7.8	8.0	7.6	8.4	7.9	...	8.0	7.0	7.5
25	5.3	3.2	8.1	5.2	8.0	7.7	8.3	8.0	8.3	7.7	7.0	7.3
26	7.0	3.1	8.2	5.3	7.9	8.3	8.3	8.0	8.5	7.5	7.2	7.3
27	5.2	6.3	8.2	5.3	7.8	8.3	8.3	8.1	8.3	7.5	7.0	7.4
28	5.3	4.0	8.7	5.3	8.0	8.2	8.0	8.7	8.3	7.5	7.4	7.4
29	5.3		8.3	5.1	8.1	8.4	8.0	8.7	8.2	7.8	7.2	7.4
30	5.5		8.1	5.0	8.1	8.3	8.3	8.8	8.4	7.9	7.3	7.4
31	5.4		8.2		8.2		8.0	8.8		7.7		7.3

Sj 85. New Jersey, Indiana & Illinois Railroad Co. Olive St. and Indiana Ave., South Bend. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 37 N., R. 2 E. Drilled unused well, diameter 8 inches, depth 80 feet. Measurements made by Don Henry. Highest water level 10.41 below lsd, June 10, 1950; lowest 17.45 below lsd, Jan. 11, 12, 1950. Records available: 1945-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.46	12.81	12.78	12.97	12.66	.....	13.29	14.51	14.90	15.36	.....	13.81
2	13.45	12.87	12.81	12.99	12.63	.....	13.35	14.53	14.92	15.37	.....	13.77
3	13.42	12.88	12.76	13.00	12.61	.....	13.39	14.57	14.88	15.39	.....	13.72
4	13.39	12.85	12.82	12.98	12.61	12.15	13.43	14.61	14.89	15.40	.....	13.68
5	13.34	12.88	12.84	12.98	12.58	12.15	13.48	14.64	14.90	15.42	15.33	13.64
6	13.26	12.89	12.82	12.95	12.55	12.15	13.52	14.66	14.91	15.44	15.33	13.61
7	13.20	12.90	12.82	12.92	12.57	12.20	13.52	14.66	14.93	15.45	15.32	13.57
8	13.12	12.96	12.83	12.90	12.52	12.25	13.62	14.67	14.95	15.46	15.33	13.55
9	13.06	12.98	12.88	12.90	12.50	12.27	13.67	14.69	14.97	15.47	15.35	13.52
10	13.01	13.00	12.90	12.87	12.48	12.28	13.69	14.71	14.99	15.48	15.36	13.50
11	12.97	12.94	12.89	12.86	12.44	12.29	13.73	14.72	15.00	15.50	15.33	13.46
12	12.94	12.92	12.87	12.81	12.41	12.34	13.78	14.74	15.01	15.51	15.26	13.43
13	12.92	12.89	12.84	12.78	12.37	12.41	13.82	14.76	15.03	15.52	15.19	13.42
14	12.89	12.91	12.87	12.77	12.32	12.47	13.86	14.78	15.05	15.52	15.10	13.40
15	12.86	12.89	12.89	12.75	12.26	12.51	13.89	14.79	15.07	15.53	15.02	13.47
16	12.86	12.85	12.92	12.74	12.21	12.57	13.91	14.70	15.09	15.54	14.92	13.47
17	12.83	12.85	12.92	12.72	12.20	12.64	13.95	14.71	15.10	15.55	14.81	.....
18	12.82	12.87	12.88	12.73	12.18	12.71	13.99	14.73	15.12	15.56	14.71	.....
19	12.81	12.83	12.85	12.77	12.16	12.79	14.03	14.75	15.14	15.57	14.62	.....
20	12.80	12.86	12.81	12.83	12.14	12.88	14.06	14.76	15.16	15.58	14.52	.....
21	12.84	12.81	12.80	12.85	12.13	12.97	14.09	14.77	15.18	15.59	14.43	.....
22	12.83	12.85	12.81	12.79	12.14	13.02	14.13	14.78	15.20	15.60	14.34	.....
23	12.78	12.84	12.78	12.79	12.18	13.06	14.16	14.80	15.22	15.61	14.26	.....
24	12.79	12.82	12.82	12.76	12.15	13.06	14.19	14.81	15.24	15.55	14.19	13.25
25	12.80	12.79	12.87	12.74	12.15	13.04	14.22	14.82	15.26	15.50	14.13	13.22
26	12.79	12.77	12.90	12.77	12.18	13.03	14.27	14.83	15.28	15.47	14.07	13.22
27	12.77	12.80	12.90	12.74	12.18	13.08	14.33	14.83	15.30	15.44	14.02	13.22
28	12.81	12.81	12.91	12.70	.....	13.13	14.38	14.84	15.32	15.41	13.96	13.19
29	12.82		12.91	12.67	.....	13.19	14.42	14.85	15.33	15.39	13.91	13.17
30	12.85		12.92	12.66	.....	13.24	14.45	14.86	15.34	.....	13.86	13.16
31	12.83		12.96		.....		14.48	14.87		.....		13.16

Sj 89. Ved Morgan. Ironwood Drive and McKinley Road., South Bend. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T. 37 N., R. 3 E. Drilled unused well, diameter 2 inches, depth 142 feet. Highest water level 38.38 below lsd, June 4, 1947; lowest 48.90 below lsd, Aug. 11, 1949. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	44.75	Apr. 5	45.61	July 5	45.69	Oct. 4	46.28
11	45.20	12	45.93	12	45.70	10	46.35
18	45.15	19	45.89	19	46.34	18	46.35
25	45.23	26	45.88	26	46.46	25	46.70
Feb. 1	44.89	May 3	46.16	Aug. 2	46.40	Nov. 1	45.50
8	45.17	10	46.33	9	46.00	8	45.15
15	44.84	17	46.29	16	46.00	15	45.30
22	45.79	24	46.38	23	46.07	22	44.70
Mar. 1	44.90	31	45.86	30	46.30	30	44.90
8	45.23	June 7	46.10	Sept. 6	46.14	Dec. 6	44.71
15	45.32	14	46.32	13	46.30	13	44.60
22	45.40	21	46.22	21	46.57	20	44.58
29	45.35	28	46.19	27	46.49	27	44.16

Scott County

Sc 1. Town of Scottsburg. Highland and Thomas Sts. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 3 N., R. 7 E. Drilled unused well in gravel, diameter 12 inches, reported depth 34 feet, cased to 28. Highest water level 12.60 below lsd, Mar. 30, 1951; lowest 27.84 below lsd, Oct. 22, 1948. Records available: 1942-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.75	13.65	13.30	12.70	13.70	14.65	14.80	16.35	16.35	16.35	16.60	15.25
2	14.70	14.15	13.45	12.80	14.15	14.70	14.90	16.05	16.45	16.30	16.65	15.30
3	14.40	14.15	13.20	12.90	13.85	14.75	14.85	15.85	16.50	16.30	16.65	15.30
4	14.00	13.95	13.40	12.95	13.80	14.80	14.85	15.85	16.55	16.40	16.55	15.15
5	13.90	14.10	13.40	13.10	13.85	14.85	.....	16.00	16.50	16.50	16.80	14.75

Sc 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	13.70	14.15	13.35	13.20	14.00	14.85	14.10	15.95	16.45	16.55	16.75	14.55
7	13.70	13.95	13.30	13.10	14.05	14.80	14.10	15.80	16.55	16.40	16.25	14.45
8	13.70	13.95	13.35	13.00	14.00	14.75	14.05	15.90	16.65	16.65	16.35	14.40
9	13.75	13.90	13.70	12.95	14.00	14.75	14.05	15.95	16.55	16.55	16.40	14.05
10	13.75	14.00	13.80	13.00	.....	14.85	14.15	16.00	16.45	16.55	16.40	14.15
11	13.65	13.85	13.70	13.10	13.85	14.95	14.20	16.05	16.55	16.50	16.40	14.00
12	13.60	13.75	13.55	12.85	14.00	14.95	14.20	16.10	16.55	16.55	16.35	14.10
13	13.60	13.50	13.40	12.75	14.10	14.90	15.30	16.15	16.50	16.65	16.20	14.35
14	13.25	13.60	13.40	12.85	14.25	15.05	15.30	16.15	16.30	16.60	15.95	14.45
15	13.05	13.50	13.40	12.90	14.30	15.00	15.30	16.10	16.30	16.50	15.90	14.35
16	13.30	13.25	13.40	13.10	14.25	15.00	15.30	16.15	16.30	16.55	15.80	14.50
17	13.10	13.20	13.40	13.25	14.20	15.00	15.35	16.25	16.25	16.60	15.95	14.45
18	13.15	13.20	13.00	13.30	14.30	15.05	15.75	16.30	16.25	16.60	16.00	14.10
19	13.40	13.10	13.00	13.25	14.35	15.00	16.15	16.35	16.30	16.60	16.00	14.60
20	13.45	13.15	12.95	13.55	14.30	14.95	16.05	16.40	16.35	16.55	16.05	14.30
21	13.85	12.65	12.80	13.55	14.40	15.05	15.85	16.35	16.35	16.50	15.95	13.95
22	13.95	13.10	12.85	13.30	14.45	15.00	15.70	16.45	16.30	16.60	15.95	14.15
23	13.75	13.15	12.70	13.35	14.35	15.00	15.65	16.55	16.45	16.65	15.90	14.15
24	13.80	13.15	12.90	13.20	14.35	15.10	15.65	16.55	16.40	16.50	15.50	14.25
25	13.85	13.15	13.05	13.10	14.35	15.10	16.00	16.55	16.30	16.75	15.30	14.05
26	13.90	13.10	13.20	13.30	14.30	14.85	16.35	16.50	16.30	16.65	15.05	13.95
27	13.70	13.30	13.00	13.40	14.30	14.70	.....	16.50	16.25	16.55	15.15	14.10
28	13.95	13.45	12.90	13.40	14.35	14.65	16.45	16.45	16.50	16.45	15.10	13.90
29	13.90		12.70	13.40	14.50	14.75	16.55	16.45	16.55	16.65	15.25	13.80
30	13.90		12.60	13.55	14.65	14.75	16.50	16.40	16.40	16.55	15.25	13.80
31	13.75		12.80		14.70		16.50	16.35		16.60		13.90

Shelby County

Sh 1. Clarence Milner. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 13 N., R. 6 E. Driven unused well in gravel, diameter 1 $\frac{1}{2}$ inches, depth 23 feet. Highest water level 4.08 below lsd, Feb. 26, 1950; lowest 10.56 below lsd, Jan. 4, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	7.81	Apr. 8	6.98	July 8	8.28	Oct. 6	9.83
15	7.85	15	6.68	15	8.38	14	9.89
22	6.76	22	6.95	22	8.52	21	9.98
27	7.11	29	7.15	29	8.69	28	9.99
Feb. 4	7.50	May 6	7.42	Aug. 4	8.77	Nov. 4	10.03
11	7.78	13	7.62	12	8.89	11	10.05
18	6.99	20	7.84	19	9.06	18	9.98
24	5.88	27	8.07	26	9.20	25	9.86
Mar. 3	6.35	June 3	8.28	Sept. 2	9.34	Dec. 2	9.79
11	6.84	10	8.42	9	9.47	9	8.74
18	7.05	17	8.58	16	9.58	16	7.89
25	6.55	24	8.74	23	9.68	23	8.01
Apr. 1	6.67	July 1	8.14	30	9.75	30	7.65

Spencer County

Sp 4. J. Andrew Wetzel. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 5 S., R. 5 W. Dug unused well in clay and rock, diameter 4 feet, depth 19 feet, cribbed with stone. Highest water level 0.44 below lsd, Jan. 27, 1945; lowest 18.02 below lsd, July 18, 1948. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	5.82	Apr. 7	2.21	July 14	7.50	Oct. 6	7.57
13	3.00	14	2.74	21	7.54	14	7.70
20	2.60	21	2.03	27	7.49	21	7.75
27	3.20	28	3.61	Aug. 4	7.44	28	7.77
Feb. 3	3.29	May 5	4.81	11	7.30	Nov. 4	7.84
10	2.70	12	5.12	18	7.50	11	7.88
17	2.64	19	5.51	25	7.54	18	7.83
24	3.19	26	5.73	Sept. 1	7.55	25	1.93
Mar. 3	2.47	June 2	6.04	8	7.59	Dec. 2	2.77
10	2.08	9	6.21	15	7.56	9	2.10
17	2.04	16	6.27	22	7.57	16	2.82
24	2.81	23	6.94	29	7.56	23	2.92
31	3.70	30	7.26	Oct. 5	7.61	30	2.01
Apr. 5	3.10	July 7	7.51				

Sp 5. State of Indiana. Lincoln State Park. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 4 S., R. 5 W. Drilled unused artesian well in rock, diameter 4 inches, reported depth 238 feet. Measurements made by personnel of Lincoln State Park. Highest water level 23.50 below lsd, Mar. 8, 1944; lowest 31.88 below lsd, Nov. 21, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	30.02	Apr. 4	27.47	July 4	30.79	Oct. 3	31.53
10	29.54	11	26.80	11	30.80	10	31.63
17	26.18	18	27.21	18	30.92	17	31.64
24	28.56	23	26.84	25	31.00	24	31.78
31	28.72	May 2	28.03	Aug. 1	31.07	31	31.70
Feb. 7	29.08	9	29.90	8	31.16	Nov. 7	31.66
14	26.49	16	29.57	15	31.21	14	31.47
21	24.49	23	29.98	22	31.28	21	31.60
28	27.57	30	30.17	29	31.33	28	31.48
Mar. 7	26.90	June 6	30.22	Sept. 5	31.20	Dec. 5	31.34
14	26.06	13	30.40	12	31.28	12	30.97
21	25.67	20	30.52	18	31.44	19	30.25
28	26.47	28	30.76	26	31.51	26	28.00

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 429 feet. Measurements made by personnel of Lincoln State Park. Highest water level 21.52 below lsd, Mar. 21, 1951; lowest 30.25 below lsd, Nov. 22, Dec. 20, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	23.10	Apr. 4	21.70	July 4	26.24	Oct. 3	27.71
10	22.65	11	22.66	11	26.53	10	27.89
17	22.20	18	21.85	18	26.87	17	28.13
24	22.28	23	22.61	25	27.19	24	28.64
31	22.28	May 2	22.02	Aug. 1	27.32	31	28.04
Feb. 7	22.30	9	22.32	8	27.32	Nov. 7	27.74
14	22.24	16	22.99	15	27.46	14	27.09
21	21.97	23	23.59	22	27.75	21	26.67
28	21.93	30	24.29	29	27.75	28	25.97
Mar. 7	21.82	June 6	24.81	Sept. 5	27.43	Dec. 5	25.38
14	21.73	13	25.03	12	26.78	12	25.56
21	21.52	20	25.42	18	27.59	19	27.36
28	21.62	28	25.85	26	27.64	26	24.09

Sp 7. State of Indiana. Lincoln State Park. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 5 S., R. 5 W. Dug unused well, diameter 42 inches, depth 18 feet, cribbed with stone. Highest water level 1.31 below lsd, June 1, 1946; lowest 11.31 below lsd, Dec. 23, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	5.97	Apr. 7	1.33	July 7	7.64	Oct. 6	8.39
13	5.40	14	1.74	14	7.65	14	9.10
20	5.20	21	1.73	21	7.70	21	9.16
27	4.90	28	1.76	27	7.97	28	9.23
Feb. 3	4.80	May 5	3.36	Aug. 4	8.13	Nov. 4	9.29
10	4.10	12	5.04	11	8.23	11	9.19
17	4.08	19	6.12	18	8.33	18	8.94
24	4.07	26	6.16	25	8.36	25	7.25
Mar. 3	1.63	June 2	6.19	Sept. 1	8.37	Dec. 2	6.50
10	1.61	9	6.98	8	8.39	9	6.30
17	1.57	16	7.00	15	8.38	16	5.25
24	1.60	23	7.04	22	8.40	23	6.57
31	1.58	30	7.60	29	8.39	30	6.30

Sp 8. State of Indiana. Lincoln State Park. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 5 S., R. 5 W. Dug unused well in clay and rock, diameter 8 feet, depth 12 feet, cribbed with stone. Highest water level 1.57 below lsd, Mar. 17, 1945; lowest 8.23 below lsd, Nov. 11, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.85	Apr. 7	2.01	July 7	3.90	Oct. 6	5.48
13	2.60	14	2.06	14	3.90	14	6.81
20	2.20	21	2.05	21	3.93	21	6.89
27	2.00	28	2.09	27	4.68	28	6.92
Feb. 3	2.70	May 5	2.45	Aug. 4	4.99	Nov. 4	6.99
10	2.08	12	2.59	11	5.20	11	7.01
17	2.05	19	2.90	18	5.42	18	6.99
24	2.04	26	2.93	25	5.46	25	6.59
Mar. 3	1.84	June 2	2.94	Sept. 1	5.46	Dec. 2	6.97
10	1.82	9	3.36	8	5.48	9	6.20
17	1.70	16	3.37	15	5.48	16	5.85
24	1.65	23	3.40	22	5.49	23	4.40
31	1.63	30	3.88	29	5.49	30	3.46

Starke County

Sk 2. S. A. Craigmile. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 32 N., R. 2 W. Drilled unused well in gravel, diameter 6 inches, reported depth 85 feet. Measurements made by Sam Sellers. Highest water level 0.83 below lsd, June 17, 1949; lowest 5.59 below lsd, Sept. 15, 1941. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.34	Mar. 2	1.85	June 29	4.07	Nov. 23	2.87
12	3.35	30	2.53	July 5	4.30	30	3.37
19	3.35	Apr. 5	1.76	13	3.46	Dec. 8	3.01
Feb. 2	2.36	20	1.49	28	4.09	14	3.13
9	2.30	May 18	3.51	31	4.43	22	3.07
17	2.43	June 8	4.34	Nov. 15	2.93	29	2.65
23	2.96						

Sk 11. David Bergstrom. Groverton. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 34 N., R. 1 W. Jetted unused well in gravel, diameter 1 $\frac{1}{4}$ inches, depth 67 feet. Highest water level 12.68 below lsd, Apr. 27, 1950; lowest 17.60 below lsd, Oct. 15, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	15.99	Apr. 7	15.76	July 7	15.68	Oct. 6	16.81
13	15.85	14	15.40	14	15.02	13	16.82
20	15.92	21	15.28	21	15.15	20	17.19
27	16.01	28	15.21	28	15.43	27	16.00
Feb. 3	16.16	May 6	15.32	Aug. 4	15.67	Nov. 3	16.90
10	16.29	12	15.14	11	15.83	10	16.01
17	16.20	19	14.96	18	15.95	17	15.55
24	15.88	26	15.01	25	16.10	24	15.44
Mar. 3	15.78	June 2	15.00	Sept. 1	16.24	Dec. 1	15.40
10	15.77	9	15.13	8	16.34	8	15.32
17	15.80	16	15.30	15	16.57	15	15.44
24	15.76	23	15.38	22	16.60	22	15.49
31	15.76	30	15.52	29	16.74	29	15.49

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 $\frac{1}{4}$ inches, depth 14 feet. Measurements made by personnel of Pokagon State Park. Highest water level 1.01 above lsd, Apr. 1, 1950; lowest 4.6 below lsd, Oct. 12, 19, 26, and Nov. 1, 1946. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	-0.07	Apr. 7	+0.14	July 7	-1.18	Oct. 6	-2.27
13	.47	14	.28	14	+.24	13	1.94
20	.20	21	.03	21	.30	20	2.11
27	.57	28	.04	28	.61	27	1.02
Feb. 3	1.87	May 5	.23	Aug. 4	.86	Nov. 3	1.26
10	.58	12	.55	11	1.10	10	1.10
17	-.35	19	+.11	18	.89	17	.43
24	+.21	26	-.13	25	.94	24	.51
Mar. 3	+.23	June 2	.22	Sept. 1	1.26	Dec. 1	.77
10	-.09	9	.20	8	1.54	8	.42
17	+.11	16	.48	15	1.77	15	.68
24	.06	23	.42	22	1.90	29	.80
31	+.11	30	.80	29	2.10		

Sb 2. 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 $\frac{1}{4}$ inches, depth 20 feet. Measurements made by personnel of Pokagon State Park. Highest water level 0.37 above lsd, Mar. 3, 1951; lowest 6.7 below lsd, Oct. 19, 26, and Nov. 2, 1946. Records available: 1935-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	-1.07	Apr. 7	-0.92	July 7	-3.60	Oct. 6	-4.78
13	1.41	14	.68	14	.59	13	4.74
20	1.29	21	.84	21	1.53	20	4.79
27	1.69	28	.87	28	2.30	27	2.20
Feb. 3	.69	May 5	.39	Aug. 4	2.87	Nov. 3	3.64
10	1.42	12	.29	11	3.43	10	3.39
17	1.31	19	.75	18	3.26	17	2.34
24	-.70	26	1.37	25	3.39	24	2.18
Mar. 3	+.37	June 2	1.72	Sept. 1	3.77	Dec. 1	2.34
10	-.93	9	1.81	8	4.04	8	1.77
17	-.79	16	2.18	15	4.25	15	1.95
24	1.03	23	2.27	22	4.45	29	2.20
31	.94	30	3.09	29	4.65		

Sullivan County

Su 1. William Koenig. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 6 N., R. 8 W. Dug stock well, diameter 36 inches, depth 24 feet, cribbed with brick. Highest water level 0.46 below lsd, Jan. 7, 1951; lowest 15.38 below lsd, Nov. 5, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	0.46	Apr. 23	2.77	July 5	8.49	Oct. 22	10.88
26	2.85	30	3.92	16	8.92	29	9.48
Feb. 12	4.70	May 7	3.48	22	8.88	Nov. 12	5.76
Mar. 5	1.75	13	5.20	Aug. 12	9.19	Dec. 3	.88
19	1.76	20	5.73	20	6.85	17	2.44
26	1.86	28	6.46	26	9.59	21	1.43
Apr. 2	1.88	June 4	6.78	Oct. 1	10.05	30	1.54
9	1.69	11	7.29	15	10.29		

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; lowest 21.90 below lsd, Dec. 2, 15, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	8.20	Apr. 6	6.50	July 14	20.75	Oct. 6	18.70
12	7.15	14	6.75	20	20.80	13	18.85
20	6.25	20	8.65	21	15.68	20	19.00
26	8.40	27	10.50	27	16.35	27	18.75
Feb. 4	8.50	May 12	14.50	Aug. 3	16.90	Nov. 3	18.75
10	8.60	18	15.65	10	17.30	9	18.25
16	6.25	25	16.20	17	17.65	16	17.65
23	4.30	June 2	16.70	24	17.95	24	17.25
Mar. 3	8.40	8	17.05	Sept. 1	18.05	29	16.30
9	8.10	16	17.40	7	18.20	Dec. 7	14.50
17	9.15	21	18.50	14	18.40	15	11.20
24	5.05	29	19.05	22	18.55	21	9.85
31	6.45	July 7	19.70	29	18.60	28	8.70

j Water added to well.

Tippecanoe County

Tc 4. City of Lafayette. Lafayette Water Dept. Canal and Tippecanoe Sts. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 23 N., R. 4 W. Drilled unused well, diameter 12 inches, depth 112 feet. Highest water level 8.2 above lsd, Jan. 6, 7, 1950; lowest 29.3 below lsd, Oct. 13, 1951. Records available: 1944-51.

Daily highest water level above and below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	-10.9	-4.5	-6.7	-13.1	-11.1	-13.6	-17.1	-18.6	-14.4	-14.0	-16.8
2	-14.5	11.3	5.0	6.9	14.0	16.1	13.9	17.3	15.1	18.6	14.1	4.9
3	9.2	11.4	5.3	7.7	14.4	12.5	18.0	17.5	14.4	15.2	14.1	5.1
4	6.5	11.0	5.7	8.3	11.0	12.3	13.8	17.6	14.9	15.3	13.9	6.9
5	2.5	11.1	6.1	9.0	10.9	12.8	13.5	18.1	18.8	15.5	14.1	5.2
6	2.1	13.0	8.8	9.1	10.7	13.0	13.9	14.2	18.9	15.6	14.5	6.1
7	2.7	11.3	6.8	9.4	10.7	12.7	14.0	14.3	15.2	15.0	14.3	8.2
8	3.9	11.5	6.7	9.0	15.4	12.5	13.6	14.4	15.2	15.0	14.3	....
9	6.2	11.5	6.8	8.2	15.6	12.3	9.8	18.1	14.9	15.2	14.4	11.3
10	7.1	11.7	7.1	8.0	15.8	12.0	9.8	14.8	15.0	29.2	14.3	11.3
11	7.7	11.5	7.5	5.3	11.2	12.0	9.8	14.4	15.0	15.3	14.8	15.9
12	12.0	11.1	8.1	4.0	7.3	16.2	10.1	14.2	15.5	29.2	15.0	15.9
13	8.7	8.7	8.8	2.7	4.0	12.8	11.0	14.1	14.8	29.3	14.4	11.7
14	9.0	6.5	8.9	6.8	3.9	12.9	h12.4	18.3	14.5	15.8	13.8	12.2
15	9.0	5.8	8.4	6.4	9.6	13.0	8.4	18.4	....	15.8	13.6	12.6
16	9.2	6.7	7.0	6.3	7.9	13.0	8.9	18.3	....	19.4	13.0	12.9
17	9.1	5.4	6.0	6.3	8.9	12.7	13.9	15.0	15.5	15.8	13.0	13.1
18	8.7	4.2	5.9	4.3	9.6	12.5	....	16.9	....	19.5	13.0	16.8
19	7.8	3.3	5.5	5.7	14.4	17.0	....	14.1	....	19.5	13.3	13.2
20	6.4	-3.7	10.4	6.6	15.9	17.3	....	14.1	15.4	15.9	13.8	16.7
21	5.5	+4	7.1	7.2	11.0	17.7	16.0	18.3	19.2	15.7	13.9	13.0
22	5.9	2.6	7.9	7.5	15.0	....	12.2	18.5	15.5	15.7	14.0	16.4
23	7.2	3.0	8.5	7.9	16.1	h18.6	11.7	14.7	14.8	19.0	13.9	12.9
24	8.1	2.8	8.8	7.5	11.5	....	15.5	14.6	14.5	14.8	13.8	12.7
25	8.9	2.0	8.7	7.8	16.3	....	16.5	14.7	15.1	17.8	13.7	12.0

Tc 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-10.2	+ .6	-8.5	-8.6	-16.4	....	-18.1	-14.2	-15.1	-13.5	-13.6	-11.9
27	9.7	-4.4	9.2	9.2	11.8	....	14.1	14.2	15.1	13.1	14.0	12.0
28	9.9	3.4	9.7	9.7	11.6	....	13.2	18.4	14.9	12.9	13.7	15.0
29	10.3		...	9.2	11.9	....	12.5	14.7	14.8	13.2	13.9	....
30	10.7		9.6	8.5	11.8	-18.0	12.6	18.4	14.5	17.6	14.3	10.6
31	10.8		8.6		11.7		16.8	18.5		13.8		9.8

h Tape measurement.

Tc 5. Fairfield Manufacturing Co. Earl Ave. and Kossuth St., Lafayette.
 SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 23 N., R. 4 W. Drilled unused well, diameter 8 inches, depth 126 feet.
 Measurements made by C. C. Crook. Nearby well being pumped. Highest water level 87.70
 below lsd, Jan. 15, 1951; lowest 89.41 below lsd, Sept. 7, 1948. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	88.16	Mar. 26	88.49	June 18	88.34	Sept. 24	88.11
8	88.22	Apr. 2	88.14	25	88.33	Oct. 1	88.16
15	87.70	9	88.21	July 2	88.25	8	88.38
22	88.50	16	88.44	9	87.97	15	88.03
29	88.56	23	88.40	30	88.25	22	88.25
Feb. 5	88.02	30	87.97	Aug. 6	87.96	29	88.27
12	88.05	May 7	88.29	13	88.24	Nov. 5	88.53
19	88.02	14	88.26	20	88.30	12	88.09
26	87.90	22	88.16	27	87.93	19	88.59
Mar. 5	88.44	28	88.14	Sept. 4	88.19	26	88.08
12	87.83	June 4	88.18	10	87.90	Dec. 3	88.21
19	88.44	11	88.11				

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 655 feet above msl. Highest water level 159.61 below lsd, May 15, 1950;
 lowest 166.25 below lsd, Jan. 17, 22, 1947. Records available: 1945-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	161.50	161.44	160.83	160.84	161.18	161.44	161.69	161.82	162.04	162.62	162.67
2	.....	161.73	161.53	160.93	160.83	161.22	161.52	161.73	161.85	161.97	162.68	162.65
3	161.41	161.64	161.20	160.91	160.76	161.21	161.53	161.64	161.90	161.95	162.62	162.62
4	161.67	161.43	.....	160.85	160.67	161.22	161.40	161.79	161.93	162.04	162.56	162.51
5	161.85	161.61	.....	160.97	160.75	161.30	161.58	161.76	161.87	162.10	162.73	162.59
6	161.72	161.49	161.18	160.91	160.84	161.27	161.66	161.62	161.79	162.20	162.71	162.56
7	161.75	161.58	161.26	160.71	160.95	161.22	161.59	161.52	161.90	162.00	162.42	162.59
8	161.66	161.70	161.27	160.72	160.86	161.17	161.49	161.54	161.97	162.31	162.71	162.85
9	161.66	161.70	161.46	160.76	160.84	161.22	161.52	161.58	161.87	162.28	162.74	162.68
10	161.65	161.70	161.43	160.76	160.84	161.25	161.60	161.65	161.75	162.33	162.75	162.78
11	161.67	161.47	161.30	160.83	160.68	161.23	161.62	161.69	161.87	162.27	162.75	162.52
12	161.76	161.43	161.15	160.66	160.86	161.26	161.61	161.69	161.92	162.35	162.56	162.54
13	161.75	161.58	160.92	160.69	160.98	161.26	161.70	161.70	161.87	162.41	162.48	162.71
14	161.52	161.75	160.96	160.81	161.02	161.37	161.70	161.68	161.95	162.33	162.53	162.72
15	161.44	161.50	161.06	160.82	161.02	161.33	161.64	161.62	162.02	162.30	162.73	162.77
16	161.73	161.56	161.10	160.91	159.94	161.30	161.59	161.64	162.00	162.31	162.77	162.92
17	161.48	161.58	161.15	160.97	161.88	161.28	161.60	161.70	161.97	162.37	162.90	162.82
18	161.53	161.42	160.99	160.87	160.97	161.31	161.64	161.70	161.94	162.38	162.82	162.37
19	161.58	161.57	161.17	160.89	161.00	161.32	161.59	161.75	161.96	162.45	162.82	162.77
20	161.50	161.36	161.08	161.03	160.88	161.24	.....	161.71	161.98	162.33	162.88	162.47
21	161.91	161.49	161.06	160.96	160.88	161.43	161.69	161.60	161.98	162.30	162.75	162.30
22	161.79	161.73	161.07	160.76	160.98	.....	161.59	161.77	161.86	162.34	162.73	162.72
23	161.51	161.71	160.83	161.03	161.05	162.48	161.64	161.84	162.06	162.47	162.74	162.64
24	161.63	161.64	161.06	160.93	161.07	.....	161.65	161.82	162.00	162.35	162.83	162.89
25	161.64	161.47	161.09	160.76	161.06	.....	161.66	161.82	161.96	162.65	162.80	162.60
26	161.64	161.29	161.43	160.92	161.02	.....	161.68	161.71	161.99	162.58	162.67	162.84
27	161.31	161.49	160.90	160.89	160.96	.....	161.70	161.69	161.99	162.55	162.85	162.95
28	161.59	161.53	160.83	160.76	160.99	.....	161.62	161.73	162.15	162.39	162.70	162.58
29	161.76	.....	.....	160.68	161.13	.....	161.66	161.77	.....	162.52	162.78	162.50
30	161.81	.....	160.76	160.76	161.22	.....	161.65	161.78	162.05	162.50	162.72	162.49
31	161.61	.....	160.75	.....	161.24	.....	161.61	161.73	.....	162.64	.....	162.50

h Tape measurement.
 e Estimated.

Tc 9. Aluminum Co. of America. Lafayette. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 23 N., R. 4 W.
 Drilled unused well, diameter 16 inches, depth 160 feet. Measurements made by M. M. Ross.
 Highest water level 69.05 below lsd, Jan. 2, 1948; lowest 76.85 below lsd, May 3, 1949.
 Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.35	73.90	73.45	71.60	72.70	72.25	70.90	73.40	73.30	73.45	73.05	72.50
2	72.45	73.45	73.70	72.50	72.55	72.15	74.55	72.85	71.05	73.55	72.75	72.60
3	73.20	71.60	71.55	72.35	72.25	71.05	74.10	73.40	70.90	73.40	71.55	72.45
4	73.50	71.05	71.80	72.15	71.15	73.55	71.25	72.15	72.80	74.10	71.90	71.20
5	74.15	72.20	73.40	72.80	71.10	72.80	72.30	71.75	72.60	73.55	73.25	74.10
6	74.10	72.35	73.65	72.50	71.20	72.20	72.60	72.70	71.55	72.15	72.95	71.55
7	72.40	72.65	72.50	72.15	74.45	73.00	71.90	72.20	72.80	71.40	71.55	72.25
8	73.50	72.25	72.70	72.25	73.00	73.50	74.25	72.00	72.65	73.15	73.00	71.60
9	73.45	72.85	72.30	72.60	71.95	72.10	72.80	73.20	71.80	73.65	72.95	71.80
10	73.70	72.65	71.55	72.50	72.70	71.25	73.10	72.20	72.05	73.05	73.45	72.75
11	73.75	72.20	71.20	72.45	72.50	73.90	72.90	71.80	71.65	73.10	72.85	71.95
12	74.00	73.55	71.90	71.45	71.40	73.80	73.15	74.25	73.40	74.00	72.80	72.20
13	71.70	73.80	72.95	73.00	71.30	74.30	72.15	72.65	72.15	73.55	72.95	73.25
14	71.20	74.30	72.75	72.30	72.35	73.45	71.10	73.45	72.90	74.30	72.60	72.25
15	71.90	73.75	73.35	72.50	73.05	73.85	70.65	72.75	72.70	72.80	72.65	72.85
16	73.35	73.35	72.80	72.75	72.75	72.50	72.35	73.05	74.30	72.95	73.15	72.80
17	72.90	72.05	72.60	72.10	72.05	72.30	71.90	72.25	72.50	73.85	73.30	72.60
18	73.85	72.05	72.60	72.85	73.95	73.10	72.30	71.65	72.30	73.35	73.35	72.00
19	73.95	73.70	72.90	72.60	74.10	72.95	74.10	71.50	73.30	73.55	73.40	72.00
20	72.00	73.50	73.20	72.25	72.45	73.90	72.90	72.60	73.25	72.75	72.35	71.45
21	72.30	73.75	73.85	71.30	72.50	72.35	73.00	72.10	72.10	72.50	72.95	72.70
22	74.00	74.10	72.90	71.30	72.75	73.40	75.70	72.50	71.75	72.80	73.25	73.25
23	75.70	73.30	72.95	72.85	73.30	72.25	74.10	.....	71.45	72.05	72.35	72.85
24	75.05	73.05	72.15	72.50	72.65	70.75	73.40	72.45	72.75	73.05	72.65	72.80
25	73.40	72.50	71.95	72.15	71.70	73.05	72.05	71.40	73.60	73.70	71.30	72.35
26	74.30	73.30	72.95	73.75	71.10	74.25	72.65	71.30	72.95	72.20	72.40	72.45
27	72.25	75.50	72.90	72.50	71.00	74.00	74.15	71.85	72.65	71.80	71.80	71.95
28	72.15	73.85	71.85	71.40	72.55	73.50	71.20	72.70	74.10	71.75	71.65	72.35
29	73.65	.....	73.15	71.25	73.20	72.80	74.55	72.45	73.35	73.05	72.80	71.90
30	74.30	.....	72.70	71.60	72.70	71.15	72.95	76.15	74.40	74.05	72.60	71.50
31	73.85	.....	71.65	.....	72.45	.....	73.35	74.80	.....	73.00	.....	71.35

Tc 11. State of Indiana. Purdue University. West Lafayette. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 23 N., R. 4 W. Drilled unused well in sand and gravel, diameter 6 inches, reported depth 216 feet.
 Highest water level 91.20 below lsd, May 4, 5, 1950; lowest 98.39 below lsd, Dec. 25, 1948.
 Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	94.10	93.95	93.10	93.05	.....	94.10	94.55	94.60	94.85	.....	95.50
2	h94.28	94.15	93.90	93.15	93.15	.....	94.05	94.60	94.60	94.85	.....	95.50
3	.....	94.15	93.75	93.15	93.15	.....	94.25	94.60	94.60	94.90	.....	95.45
4	.....	94.10	93.80	93.10	93.15	.....	94.25	94.55	94.65	94.90	95.50	95.40
5	.....	94.10	93.75	93.15	93.15	.....	94.15	94.45	94.65	94.90	95.50	95.40
6	.....	94.10	93.65	93.15	93.20	.....	94.40	94.35	94.60	94.95	.....	95.35
7	.....	94.10	93.60	93.10	93.25	.....	94.45	94.30	94.65	94.95	.....	95.35
8	.....	94.15	93.60	93.05	93.25	94.00	94.25	94.25	94.65	95.05	.....	95.45
9	.....	94.20	93.60	93.05	93.25	94.00	94.15	94.25	94.65	95.05	.....	95.40
10	h94.24	94.20	93.60	93.05	93.25	93.85	94.35	94.30	94.60	95.10	h95.72	95.45
11	94.25	94.10	93.55	93.10	93.20	93.80	94.45	94.30	94.60	95.10	95.60	95.40
12	94.30	94.10	93.50	93.05	93.25	93.95	94.50	94.35	94.65	95.10	95.50	95.35
13	94.25	94.15	93.40	93.05	93.30	94.00	94.55	94.35	94.65	95.15	95.65	95.35
14	94.20	94.25	93.40	93.10	93.35	94.10	94.55	94.30	94.70	95.15	95.65	95.40
15	94.15	94.15	93.40	93.10	93.35	94.05	94.35	94.30	94.70	95.15	95.75	95.40
16	94.20	94.20	93.40	93.15	.....	94.10	94.30	94.40	94.65	95.15	.....	95.50
17	94.10	94.15	93.40	93.20	.....	94.00	94.40	94.40	94.65	95.15	h95.80	95.40
18	94.10	94.10	93.30	93.20	.....	93.90	94.50	94.40	94.65	95.20	95.75	95.50
19	94.10	94.10	93.35	93.10	.....	94.10	94.50	94.40	94.70	95.20	95.70	95.50
20	94.05	94.05	93.35	93.20	.....	94.15	94.55	94.40	94.70	95.20	95.85	95.35
21	94.20	.....	93.15	93.15	.....	94.20	94.55	94.35	94.70	95.45	95.85	95.30
22	94.20	94.20	93.15	93.10	.....	.....	94.35	94.40	94.70	95.45	95.90	95.40
23	94.10	94.15	93.10	93.15	.....	h94.20	94.30	94.45	94.70	95.65	95.70	.....
24	94.10	94.15	93.10	93.15	.....	.....	94.45	94.45	94.70	.....	95.85	.....
25	94.10	94.05	93.15	93.05	.....	.....	94.50	94.65	94.70	.....	95.65	.....

Tc 11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	.....	93.95	93.10	93.10	.....	.....	94.55	94.55	94.75	.....	95.55	.....
27	94.00	93.90	93.05	93.10	.....	.....	94.55	94.50	94.75	.....	95.80	.....
28	94.10	94.15	93.00	93.00	.....	.....	94.55	94.50	94.75	95.50	95.60	.....
29	94.15		.....	93.00	.....	.....	94.35	94.50	94.80	95.45	95.55	h95.27
30	94.20		93.05	93.00	.....	.....	94.30	94.75	94.80	.....	95.50	95.30
31	94.15		93.10		.....	.....	94.45	94.60		.....		95.30

h Tape measurement.

Tc 12. Curwen Leaming. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 21 N., R. 4 W. Dug unused well, diameter 30 inches, depth 28 feet, cribbed with brick. Highest water level 13.37 below lsd, Apr. 8, 1950; lowest 21.07 below lsd, Dec. 19, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	18.75	Feb. 17	18.43	Mar. 31	17.56	June 2	18.10
13	18.80	24	17.47	Apr. 7	17.80	22	18.29
20	18.64	Mar. 3	17.38	21	17.63	29	18.54
27	18.73	10	17.48	May 12	17.90	July 6	18.35
Feb. 3	18.80	17	17.53	26	18.06	13	17.75
10	18.83	24	17.54				

Tipton County

Tt 1. William B. Richardson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 22 N., R. 4 E. Dug unused well, diameter 42 inches, depth 20 feet, cribbed with brick. Highest water level 0.60 above lsd, June 10, 1946; lowest 5.40 below lsd, Sept. 23, 1945. Records available: 1945-51.

Jan. 6	0.72	Apr. 6	2.08	July 7	2.54	Oct. 6	4.90
13	2.02	13	.75	15	2.49	15	5.04
20	.62	21	1.61	22	2.60	20	5.18
27	2.11	28	1.43	28	2.71	27	3.74
Feb. 3	2.41	May 5	2.49	Aug. 4	2.82	Nov. 3	3.83
10	2.41	11	.39	10	3.65	10	2.44
17	.36	19	2.22	20	3.88	17	2.02
24	.57	26	2.66	25	4.02	24	1.73
Mar. 3	1.61	June 1	2.46	Sept. 1	4.44	Dec. 2	2.14
10	2.19	8	2.68	8	4.41	8	1.55
17	1.36	16	2.80	15	4.58	14	2.61
23	2.01	23	3.02	22	4.67	21	1.69
30	1.72	29	2.88	29	4.83	28	1.71

Union County

Un 3. Joseph Connell. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 11 N., R. 2 W. Dug unused well, diameter 5 feet, depth 17 feet, cribbed with stone. Highest water level 3.86 below lsd, May 27, 1947; lowest 15.30 below lsd, Nov. 11, 1948. Records available: 1946-51.

Jan. 7	5.48	May 20	5.79	July 29	9.37	Oct. 7	13.72
14	5.10	27	6.26	Aug. 5	9.88	14	13.84
28	4.90	June 3	6.82	12	10.38	21	13.16
Feb. 25	3.90	10	7.35	19	10.81	27	13.65
Mar. 11	4.72	17	7.56	26	11.37	Nov. 4	13.70
Apr. 1	4.42	24	8.15	Sept. 2	11.40	11	14.68
8	4.67	July 1	7.86	9	12.48	18	14.76
15	4.50	8	8.48	16	12.85	25	14.83
May 6	5.06	15	8.50	23	13.30	Dec. 2	14.89
13	5.46	22	8.85	30	13.50	9	14.86

Un 4. Charles R. Swafford. 306 Eaton St. Liberty. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 11 N., R. 1 W. Dug unused well, diameter 36 inches, depth 26 feet, cribbed with stone. Highest water level 19.71 below lsd, Mar. 27, 1949; lowest 25.42 below lsd, Oct. 23, Dec. 11, 1949. Records available: 1949-51.

Jan. 7	21.69	Mar. 18	21.20	May 27	22.60	July 15	23.18
14	20.61	Apr. 1	20.08	June 3	23.36	22	23.39
21	22.08	8	21.19	10	22.98	29	23.40
28	22.35	15	20.22	17	23.18	Aug. 5	23.60
Feb. 8	21.90	May 6	21.77	24	23.34	12	23.70
25	20.60	13	22.40	July 1	23.21	19	23.75
Mar. 11	19.90	20	22.25	8	23.15	26	23.87

Un 4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 2	24.07	Oct. 7	24.48	Nov. 11	25.36	Dec. 9	25.16
9	24.12	14	24.51	18	25.38	16	25.09
16	24.30	21	24.98	25	25.12	23	24.90
23	23.47	27	25.28	Dec. 2	25.28	30	24.37
30	24.15	Nov. 4	25.34				

Un 5. Union County. Union County Court House Square, Liberty. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 11 N., R. 2 W. Drilled unused well, diameter 4 inches, depth 72 feet. Highest water level 19.30 below lsd, Mar. 5, 1950; lowest 23.53 below lsd, Dec. 25, 1949. Records available: 1949-51.

Jan. 7	21.29	May 13	20.02	July 29	21.09	Oct. 21	22.72
14	21.20	20	21.00	Aug. 5	21.05	27	22.58
21	20.89	27	20.26	12	21.40	Nov. 4	22.70
28	20.80	June 3	20.76	19	21.60	11	22.78
Feb. 8	20.83	10	20.61	26	21.65	18	22.76
25	20.20	17	20.75	Sept. 2	21.75	25	22.75
Mar. 11	22.05	21	20.82	9	21.92	Dec. 2	22.78
18	21.17	24	20.83	16	22.22	9	22.69
Apr. 1	19.50	July 1	20.80	23	22.07	16	22.60
8	19.72	8	20.92	30	22.28	23	22.51
15	19.56	15	20.87	Oct. 7	22.33	30	22.39
May 6	19.74	22	21.12	14	22.57		

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 21 feet, cribbed with brick. Highest water level 0.19 below lsd, Mar. 18, 1951; lowest 10.39 below lsd, Dec. 12, 1948. Records available: 1947-51.

Jan. 1	7.08	Apr. 8	2.03	July 8	7.98	Oct. 7	8.91
14	2.78	15	1.33	15	8.04	14	9.13
21	3.02	22	2.05	22	8.12	21	9.16
28	3.13	29	2.32	29	8.17	28	9.34
Feb. 4	3.29	May 6	3.15	Aug. 5	8.30	Nov. 4	9.43
11	3.22	13	3.74	12	8.35	11	9.54
18	1.54	20	4.46	19	8.38	18	9.60
25	1.47	27	4.98	26	8.43	25	9.66
Mar. 4	1.18	June 3	6.13	Sept. 2	8.48	Dec. 2	9.58
11	1.96	10	6.59	9	8.53	9	6.75
18	.19	17	7.18	16	8.55	16	6.30
25	1.87	24	7.54	23	8.57	23	5.93
Apr. 1	1.90	July 1	7.77	30	8.83	30	5.62

Vigo County

Vi 2. Commercial Solvents Corp. Washington Ave. and 1st Sts., Terre Haute. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 12 N., R. 9 W. Drilled unused well in sand and gravel, diameter 6 inches, reported depth 133 feet. Land-surface datum is 495.9 feet above msl. Measurements made by A. L. Miller. Highest water level 42.25 below lsd, Apr. 17, 1950; lowest 60.94 below lsd, Dec. 18, 19, 1948. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.40	43.85	50.05	51.75	51.25	52.75	53.45	53.25	52.30	52.95	55.10	55.75
2	53.30	54.10	50.15	51.45	51.35	52.90	53.30	53.35	52.20	53.05	55.20	55.55
3	53.35	54.30	50.15	51.40	51.45	52.80	53.45	53.25	52.15	53.15	55.25	55.35
4	53.25	54.45	50.10	51.40	51.60	52.55	53.60	53.10	52.25	53.15	55.05	55.40
5	53.10	54.25	49.90	51.55	51.75	52.70	53.80	53.00	52.35	53.25	55.00	55.50
6	52.90	54.30	50.05	51.70	51.60	52.90	53.90	52.90	52.35	53.35	55.20	55.55
7	52.60	54.45	50.35	51.80	51.40	53.10	54.00	52.80	52.40	53.30	55.40	55.55
8	52.30	54.55	50.60	51.70	51.60	53.25	53.85	52.80	52.45	53.35	55.55	55.45
9	52.10	54.65	50.80	51.50	51.80	53.40	53.65	52.85	52.35	53.50	55.65	55.20
10	52.05	54.75	50.95	51.65	52.05	53.25	53.70	52.75	52.30	53.70	55.80	54.95
11	52.00	54.90	50.75	51.70	52.20	53.00	53.70	52.80	52.40	53.85	55.60	54.90
12	52.20	54.75	50.55	51.70	52.20	53.00	53.50	52.70	52.50	54.00	55.35	55.05
13	52.35	54.85	50.75	51.65	51.80	53.20	53.35	52.55	52.50	54.20	55.45	55.10
14	52.40	54.90	51.05	51.50	51.45	53.40	53.10	52.50	52.50	54.10	55.50	55.20
15	52.30	54.85	51.35	51.15	51.30	53.60	52.50	52.45	52.55	53.90	55.40	55.30

Vi 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	52.40	54.85	51.60	50.70	51.25	53.70	51.90	52.40	52.50	54.15	55.30	55.20
17	52.60	54.80	51.75	50.50	51.20	53.50	51.85	52.45	52.50	54.35	55.20	55.10
18	52.75	54.50	51.40	50.50	51.30	53.15	52.10	52.40	52.60	54.50	55.00	55.15
19	53.00	54.10	51.00	50.45	51.45	53.35	52.20	52.35	52.70	54.65	54.75	55.30
20	53.15	53.90	50.80	50.50	51.35	53.50	52.45	52.30	52.75	54.75	54.90	55.40
21	52.95	53.85	50.85	50.50	51.20	53.65	52.70	52.30	52.85	54.60	55.10	55.50
22	52.55	53.55	50.90	50.30	51.40	53.75	52.55	52.30	52.90	54.50	55.20	55.55
23	52.50	52.80	50.95	50.25	51.70	53.80	52.45	52.35	52.85	54.70	55.30	55.60
24	52.60	52.00	51.10	50.50	51.95	53.60	52.65	52.35	52.85	54.85	55.40	55.50
25	52.70	51.10	51.05	50.80	52.15	53.40	52.95	52.40	52.90	54.85	55.20	55.45
26	52.95	50.35	50.95	51.15	52.35	53.45	53.20	52.30	53.00	55.05	55.00	55.35
27	53.15	50.10	51.10	51.30	52.25	53.55	53.50	52.30	53.10	55.20	55.15	55.40
28	53.35	50.05	51.40	51.45	52.10	53.70	53.65	52.35	53.10	55.00	55.30	55.25
29	53.20		51.60	51.35	52.20	53.75	53.45	52.40	53.15	54.80	55.50	55.10
30	53.35		51.80	51.20	52.45	53.65	53.15	52.35	53.00	54.95	55.60	54.95
31	53.60		52.00		52.60		53.10	52.35		55.05		54.75

Vi 3. Emma Newlan. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 12 N., R. 8 W. Dug unused well, diameter 36 inches, depth 18 feet, cribbed with stone. Highest water level 0.54 below lsd, Jan. 18, 1949; lowest 9.19 below lsd, Nov. 22, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	1.20	Apr. 5	3.04	July 5	2.83	Oct. 4	5.54
11	2.26	12	1.03	12	1.62	11	5.18
18	.97	19	1.76	18	3.32	18	5.28
25	2.70	26	2.76	26	3.68	25	3.23
Feb. 1	3.00	May 3	2.86	Aug. 2	3.21	Nov. 1	3.36
9	3.09	10	1.29	9	3.92	8	1.24
15	1.90	17	3.29	16	4.47	15	1.14
22	1.16	24	3.68	23	4.83	22	2.28
Mar. 1	1.72	31	3.85	30	5.21	29	1.75
8	2.37	June 7	3.87	Sept. 6	5.39	Dec. 6	1.03
15	1.10	14	4.08	13	5.64	13	2.12
22	2.92	21	4.20	20	5.99	20	2.55
29	2.33	28	2.86	27	5.65	27	1.27

Wabash County

Wb 2. Paul Mosier. Formerly Mrs. Robert Gearhart. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 27 N., R. 6 E. Dug unused well, diameter 36 inches, depth 19 feet, cribbed with stone. Highest water level 1.10 below lsd, Jan. 4, 1950; lowest 14.05 below lsd, Sept. 5, 1946. Records available: 1945-51. Measurement discontinued.

Jan. 4	3.26	Feb. 15	3.46	Mar. 29	2.02	June 10	5.08
11	2.90	22	1.40	Apr. 5	2.17	17	5.29
18	2.40	Mar. 1	1.63	May 13	1.97	24	6.74
25	2.36	8	2.02	21	3.95	July 1	6.90
Feb. 1	3.48	15	1.42	27	3.74	8	7.85
8	4.02	22	2.42	June 3	4.82	15	7.37

Warren County

Wn 1. Town of Williamsport. Market and Main Sts. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 12 N., R. 8 W. Dug unused well in gravel, diameter 42 inches, depth 24 feet, cribbed with stone. Highest water level 5.71 below lsd, Mar. 27, 1948; lowest 19.43 below lsd, Oct. 16, 1948. Records available: 1944-51.

Jan. 6	7.41	Mar. 17	7.42	May 26	9.21	Aug. 4	13.16
12	8.19	24	7.48	June 2	10.52	7	13.40
20	8.09	31	8.29	9	8.20	11	13.38
27	8.25	Apr. 7	8.64	16	8.80	18	14.32
Feb. 3	9.05	14	7.58	23	10.52	25	15.02
10	9.09	21	7.48	30	9.76	Sept. 1	15.40
17	7.58	28	8.48	July 7	10.89	8	15.78
24	6.42	May 5	8.59	14	7.04	15	14.56
Mar. 3	6.72	12	6.48	21	8.79	22	15.38
10	7.45	19	8.03	28	10.95	29	16.10

Wn 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 6	16.65	Nov. 3	14.52	Nov. 24	10.58	Dec. 15	9.96
13	17.22	10	13.06	Dec. 1	11.18	22	9.80
20	17.70	17	10.10	8	8.30	29	8.21
27	13.60						

Warrick County

Wk 1. Sunlight Stripper Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 5 S., R. 8 W. Drilled unused well, diameter 6 inches, depth 71 feet. Measurements made by personnel of Scales Lake State Forest. Highest water level 11.32 below lsd, Mar. 27, 1950; lowest 20.30 below lsd, Oct. 28, 1944, Apr. 2, 1947. Records available: 1936-45, 1947-51.

Jan. 2	12.85	Apr. 9	13.26	July 9	13.31	Oct. 8	15.81
8	12.90	16	13.26	16	13.34	15	15.80
15	12.34	25	13.27	30	13.40	22	14.30
22	12.57	30	13.31	Aug. 6	13.65	29	13.65
29	12.63	May 7	13.25	13	13.76	Nov. 5	13.40
Feb. 5	13.33	14	13.31	20	13.43	12	13.43
12	13.41	21	13.33	27	13.33	19	13.33
19	13.05	28	13.31	Sept. 3	13.55	26	13.14
26	13.21	June 4	13.31	10	13.50	Dec. 3	13.77
Mar. 5	13.31	11	13.29	17	15.45	10	14.31
12	13.07	18	13.17	24	15.55	17	14.33
19	13.38	25	13.26	Oct. 1	15.69	31	12.45
Apr. 2	13.24	July 2	13.30				

Wk 2. State of Indiana. Scales Lake State Forest. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 5 S., R. 8 W. Dug unused well, diameter 4 feet, depth 20 feet, cribbed with brick. Measurements made by personnel of Scales Lake State Forest. Highest water level flowing at lsd, Mar. 16, Apr. 4, Dec. 24, 1945; lowest 15.47 below lsd, Feb. 18, 1944. Records available: 1944-51.

Jan. 2	3.74	Apr. 9	2.20	July 9	7.10	Oct. 8	12.57
8	3.76	16	2.90	16	7.30	15	13.30
15	1.75	25	2.77	30	8.60	22	13.70
22	2.81	30	2.65	Aug. 6	9.37	29	13.70
29	2.85	May 7	3.81	13	10.23	Nov. 5	14.30
Feb. 5	3.23	14	4.59	20	10.19	12	14.54
12	3.27	21	4.59	27	10.07	19	14.72
19	2.37	28	4.30	Sept. 3	11.00	26	14.70
26	2.70	June 4	5.34	10	10.76	Dec. 3	14.95
Mar. 5	2.41	11	3.33	17	11.80	10	5.83
12	1.91	18	6.56	24	12.16	17	5.86
19	2.06	25	6.72	Oct. 1	12.40	31	2.67
Apr. 2	2.60	July 2	6.90				

Wayne County

Wk 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. Highest water level 24.60 below lsd, Feb. 27, 1950; lowest 31.84 below lsd, Dec. 17, 1946. Records available: 1945-51.

Jan. 1	28.46	Apr. 2	26.62	July 9	28.45	Oct. 15	30.79
16	28.18	11	26.52	31	29.12	22	30.89
22	27.83	16	26.41	Aug. 6	29.31	31	31.01
29	27.48	22	26.28	20	29.69	Nov. 6	31.10
Feb. 5	27.36	May 8	26.50	27	29.85	13	31.15
12	27.42	15	26.66	Sept. 3	30.02	19	31.18
26	26.54	20	26.60	10	30.19	26	31.20
Mar. 5	26.36	29	27.18	25	30.47	Dec. 3	31.29
13	26.50	June 5	27.42	Oct. 2	30.59	10	31.13
20	26.66	11	27.63	9	30.70	25	31.02
26	26.76	25	28.13				

Wk 2. Howard Radford. Formerly Lewis W. Hormel. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 14 N., R. 1 W. Dug unused well, diameter 30 inches, depth 23 feet, cribbed with stone. Highest water level 2.06 below lsd, Feb. 13, 1950; lowest 19.97 below lsd, Nov. 15, 1948. Records available: 1946-51.

We 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	11.57	Mar. 12	7.70	May 21	10.17	July 30	12.53
8	11.96	19	8.46	28	10.55	Aug. 6	12.75
15	9.31	26	4.32	June 4	10.79	13	13.22
22	4.06	Apr. 2	4.70	11	10.95	20	14.39
29	4.49	8	5.18	18	11.00	27	14.35
Feb. 5	7.89	16	3.55	25	11.02	Sept. 3	14.47
12	7.57	23	5.57	July 2	11.16	10	14.85
19	9.39	30	7.72	9	11.32	17	15.20
26	6.61	May 7	9.36	16	11.66	24	15.16
Mar. 5	6.08	14	10.06	23	12.98	Oct. 1	16.12

White County

Wt 1. Town of Monon. Municipal Building. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 28 N., R. 4 W. Drilled unused well in limestone, diameter 8 inches, reported depth 275 feet. Measurements made by John M. Winkley. Nearby well being pumped. Highest water level flowing 8.0 below lsd, Apr. 3, 8, May 20, June 5, 1936; lowest 20.34 below lsd, Oct. 3, 1941. Records available: 1935-36, 1941-51.

Jan. 1	14.42	Apr. 2	12.24	July 2	14.47	Oct. 1	17.08
8	13.66	9	11.81	9	14.09	8	18.00
15	13.91	16	10.42	16	14.27	15	18.16
22	13.33	23	12.17	23	14.63	22	18.25
29	14.33	30	12.15	30	15.07	29	15.00
Feb. 5	15.00	May 7	12.57	Aug. 6	16.08	Nov. 5	15.67
12	15.28	14	10.80	13	15.50	12	15.50
19	14.58	21	12.22	20	16.00	19	14.00
26	14.83	28	12.67	27	16.00	26	13.84
Mar. 5	11.78	June 4	12.50	Sept. 3	16.08	Dec. 3	14.84
12	13.00	11	12.73	10	17.08	10	14.75
19	12.17	18	14.67	17	16.75	17	14.58
26	12.65	25	14.41	24	16.92	24	14.67

Wt 3. Archie Compton. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 26 N., R. 4 W. Drilled unused well in limestone, diameter 6 inches, depth 194 feet. Highest water level 31.15 below lsd, Nov. 26, 1950; lowest 33.72 below lsd, Apr. 19, 1949. Records available: 1948-51.

Jan. 9	31.87	Mar. 31	31.71	June 17	31.80	Sept. 15	31.98
13	31.87	Apr. 7	31.61	23	31.75	22	31.99
20	31.41	14	31.56	July 7	31.84	29	32.24
27	31.62	21	31.83	14	31.95	Oct. 6	31.87
Feb. 3	32.00	30	31.83	21	31.99	13	32.24
10	32.14	May 5	31.76	Aug. 4	31.92	18	32.01
17	31.96	12	31.69	11	31.92	24	32.05
24	31.94	22	31.52	18	31.85	Dec. 1	31.84
Mar. 3	31.36	26	31.42	25	31.94	8	31.98
10	32.17	June 3	31.63	31	31.60	19	31.74
17	31.89	9	31.78	Sept. 8	32.01	29	31.58
24	31.99						

MAINE

By Marvin A. Pistrang

Scope of Water-Level Program

The observation-well program in Maine was continued in 1951. Measurements were made in three wells in the southern part of the State, At Amherst (H 1), Cornish (Y 1), and Mercer (Sm 1) and in two wells in the northern part, at Portage (Ar 1) and Sherman Mills (Ar 2).

Precipitation

During 1951 precipitation for the State as a whole was 50.66 inches according to records of the U. S. Weather Bureau or 10.40 inches above normal and 7.44 inches greater than in 1950.

Interpretation of Water-Level Fluctuations

Records have shown that water-level fluctuations in Maine follow a seasonal pattern in response to such factors as temperature and precipitation. In general, the water-table declines during the winter when precipitation in the form of snow furnishes little ground-water recharge. Occasional rises may occur as the result of mild weather, and a sharp rise, ordinarily to the highest levels of the year, usually occurs in March or April owing to temperatures high enough to melt the snow cover. This is followed by a water-table decline during the growing season, when vegetal demands for water are greatest. The water table continues to fall until September or October. A rise in water levels marks the end of the growing season and continues until the onset of freezing weather. Hydrographs of water levels in two representative wells in Maine have been included in this report (figs. 6, 7). Figure 6 shows weekly water levels in observation well Ar 1 at Portage for 1951, together with daily precipitation and maximum and minimum temperature records for the U. S. Weather Bureau station at nearby Presque Isle. Figure 7 shows weekly water levels in well Y 1 at Cornish, together with daily precipitation and maximum and minimum temperature records at nearby North Bridgton. The unusual midsummer rises were caused by far above normal rainfall. The greater fluctuations of water level in the well at Portage are owing in large measure to the topographic situation of the well. The well at Portage is high on a hillside while the well at Cornish is near a large river which functions as a local ground-water base level. There was a net drop in water levels in the two northern wells (Ar 1, Ar 2) during the year, little change in well Y 1 at Cornish, and small rises in wells H 1 and Sm 1 at Amherst and Mercer.

Well-Numbering System

The wells in Maine are given an abbreviation referring to the county in which they are situated, and a numeral with respect to the order of their inclusion in the office records--well Ar 1 and Ar 2 in Aroostook County, well H 1 in Hancock County, well Sm 1 in Somerset County, and well Y 1 in York County.

Well Descriptions and Water-Level Measurements

(Water-level measurements are 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 0.68 below lsd, Apr. 1, 1945; lowest dry several times in 1947, 1948, and 1950. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	2.81	Feb. 7	6.00	Mar. 15	4.30	Apr. 16	1.66
10	3.95	12	2.32	19	3.60	26	1.92
16	4.55	23	3.10	27	4.00	30	2.33
24	5.08	28	3.74	Apr. 4	.80	May 8	3.08
Feb. 1	5.66	Mar. 6	4.88	9	1.29	15	4.10

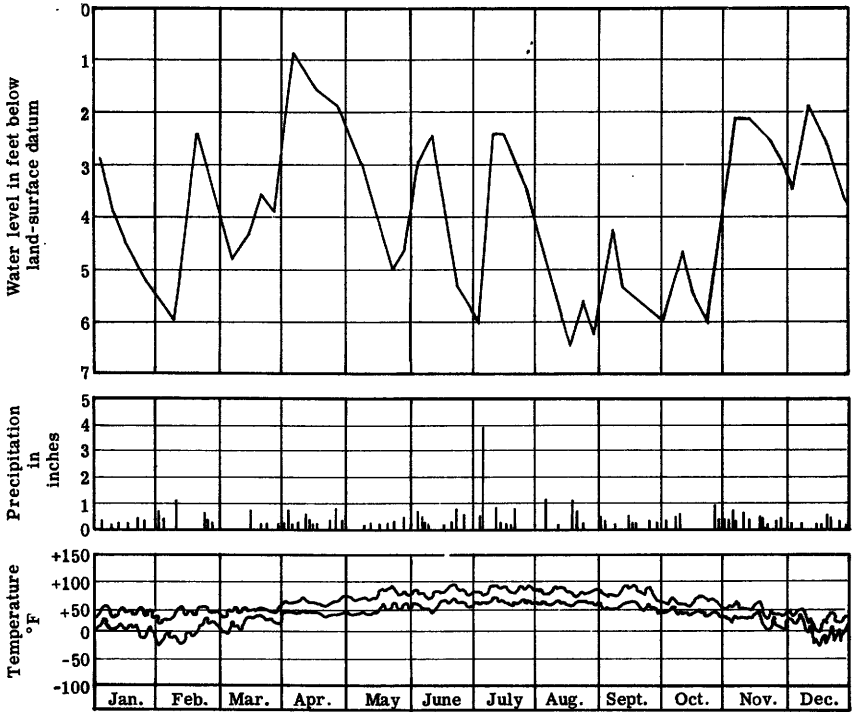


Figure 6. --Weekly water levels in well Ar1, Aroostook County, Maine, 1951, daily precipitation, and maximum and minimum temperatures at Presque Isle.

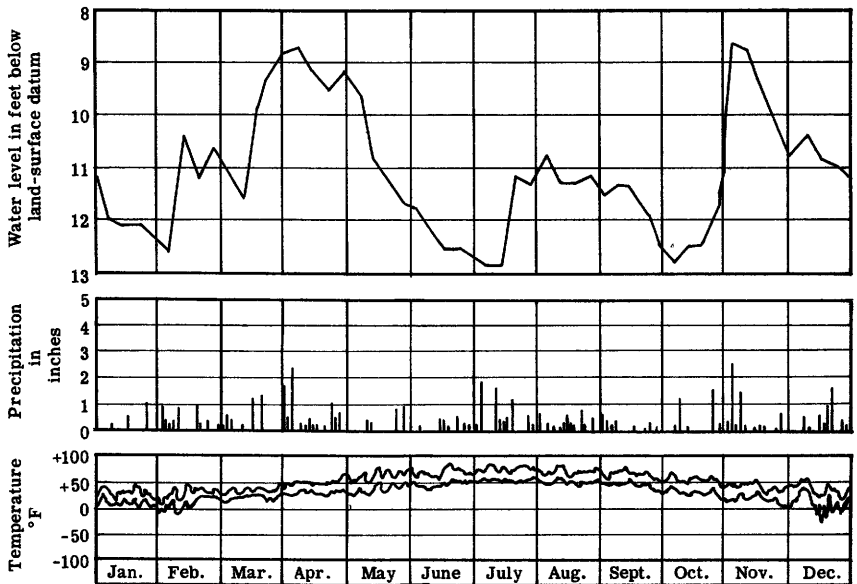


Figure 7. --Weekly water levels in well Y 1, York County, Maine 1951, daily precipitation, and maximum and minimum temperatures at North Bridgton.

Ar 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 23	5.17	July 17	2.44	Sept. 10	5.35	Nov. 13	2.20
29	4.75	26	3.40	Oct. 2	6.00	20	2.45
June 5	2.82	31	4.40	11	4.48	26	2.84
11	2.40	Aug. 10	5.95	16	5.45	Dec. 3	3.80
23	5.32	16	6.66	23	6.10	10	1.89
29	5.70	23	5.50	Nov. 1	3.65	18	2.55
July 3	6.12	28	6.30	6	2.14	27	3.6
10	2.43	Sept. 5	4.20				

Ar 2. C. C. Young. Sherman. Lat. 45°55'01", long. 68°20'04". Unused water-table well dug 12 feet in sand and drilled 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; lowest 16.00 below lsd, Nov. 10, 1946. Records available: 1939-51.

Jan. 7	2.93	Apr. 8	0.72	July 8	4.97	Oct. 7	12.62
14	5.53	15	.74	15	2.37	13	11.08
21	4.44	22	1.08	22	2.12	21	12.88
28	3.98	29	1.05	29	4.52	28	10.72
Feb. 4	7.14	May 6	2.23	Aug. 5	7.31	Nov. 4	.88
11	4.92	13	4.25	12	10.30	11	1.01
18	8.12	20	8.63	19	11.28	18	.88
25	6.45	27	10.53	26	12.24	25	2.72
Mar. 4	9.83	June 3	8.66	Sept. 2	12.08	Dec. 2	3.41
11	11.34	10	10.67	9	8.12	9	.85
18	3.15	17	11.66	16	11.84	16	3.05
25	4.56	24	12.26	22	11.97	23	4.64
Apr. 1	1.06	July 1	13.00	30	12.92	30	5.78

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 in 1944, 1948, and 1949. Records available: 1943-51.

Jan. 7	5.02	Apr. 8	4.10	July 8	8.26	Oct. 7	9.72
14	5.72	15	4.36	15	7.74	14	9.53
21	4.10	22	4.97	22	6.95	21	9.52
28	4.94	29	4.13	29	7.56	28	7.56
Feb. 4	5.25	May 6	5.22	Aug. 7	8.23	Nov. 4	4.03
11	5.30	13	5.99	12	7.94	11	4.02
18	6.03	21	6.48	19	8.43	18	4.77
25	6.03	27	6.91	26	8.66	25	5.20
Mar. 4	6.52	June 3	6.44	Sept. 2	8.95	Dec. 2	5.47
11	6.38	10	6.78	9	8.33	9	4.37
18	5.46	17	7.28	16	8.58	17	5.41
25	5.10	24	7.88	23	9.13	23	3.76
Apr. 1	5.09	July 2	8.46	30	9.38	30	4.93

Somerset County

Sm 1. J. Harrison Farrand. Mercer. Lat. 44°42'10", long. 69°55'12". Dug unused water-table well in sand, diameter 60 inches, depth 14 feet. Land-surface datum is about 270 feet above msl. Highest water level 4.30 below lsd, Mar. 24, 1946; lowest 12.42 below lsd, Nov. 13, 1949. Records available: 1942-51.

Jan. 7	6.20	Apr. 8	4.77	July 8	7.30	Oct. 7	6.76
15	6.23	15	4.61	15	6.90	14	6.46
21	6.23	22	5.12	21	6.98	21	6.58
28	5.93	30	5.10	29	7.25	28	6.13
Feb. 4	6.25	May 6	5.60	Aug. 6	7.50	Nov. 4	4.70
12	6.00	12	5.82	13	7.60	12	5.05
19	6.32	20	6.02	18	7.93	17	5.10
25	6.14	27	5.95	27	7.75	25	5.42
Mar. 5	6.12	June 3	5.96	Sept. 3	7.60	Dec. 2	5.67
10	6.13	10	6.28	9	7.22	9	4.84
18	5.30	16	6.56	16	6.95	17	5.80
24	5.04	24	6.85	23	6.80	22	5.84
Apr. 1	4.40	July 1	7.12	30	6.73	30	5.85

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 8.10 below lsd, May 6, 1945; lowest 18.40 below lsd, Nov. 14, 1948. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	11.55	Apr. 8	8.70	July 8	12.90	Oct. 7	12.80
14	12.10	15	9.20	15	12.90	14	12.55
21	12.10	22	9.50	22	11.15	21	12.55
28	12.40	29	9.10	29	11.35	28	11.55
Feb. 4	12.60	May 6	9.50	Aug. 5	10.70	Nov. 4	8.60
11	10.30	13	10.80	12	11.30	11	8.70
18	11.20	20	11.10	19	11.30	18	9.50
25	10.55	27	11.70	26	11.15	25	10.10
Mar. 4	11.20	June 3	11.75	Sept. 2	11.55	Dec. 2	10.80
11	11.60	10	12.20	9	11.30	9	10.35
18	9.90	17	12.60	16	11.40	16	10.80
25	9.20	24	12.60	23	11.80	23	10.90
Apr. 1	8.70	July 1	12.75	30	12.50	30	11.25

MASSACHUSETTS

By H. N. Halberg

Scope of Water-Level Program

The observation-well program in Massachusetts, begun in 1938, was continued in 1951 in cooperation with the Massachusetts Department of Public Works. Measurements were made in 47 wells including those equipped with recording gages at Leominster and Winchendon. Measurements were made in 31 wells in Middlesex County in the vicinity of Lowell, in the Aberjona Valley, and in the vicinity of Fresh Pond, Cambridge; 3 wells in Barnstable County; 2 wells each in Berkshire, Hampden, and Essex Counties; 1 each in Bristol and Franklin Counties; and 3 in Worcester County. See figure 8.

• Precipitation

Precipitation was above normal during much of 1951. Precipitation for the State as a whole was 47.94 inches or 5.02 inches above normal and 8.12 inches greater than in 1950. Boston received 46.97 inches (6.83 inches above normal), Fitchburg received 56.42 inches (14.39 inches above normal), and Stockbridge received 49.74 inches (6.00 inches above normal). For the State as a whole, precipitation was above normal in all months except in January, April, June, and September, and was very heavy in November (6.51 inches).

Interpretation of Water-Level Fluctuations

Water levels follow a typical seasonal pattern, usually falling but sometimes rising during the winter months of January and February. In March, water levels rise to their highest stages of the year with the melting of the snow cover. During the growing season, there is a steady decline of water levels to the end of the period of plant growth in the autumn. This decline may be interrupted by rises owing to rains, but there is usually a steady downward trend during the period. With the first frosts, water levels rise sharply and continue to rise during the autumn. Water levels decline throughout the winter with rises during thaws. This typical pattern is shown in the hydrographs (figs. 9 and 10) of water levels in wells Leominster 11 and Great Barrington 1. The first hydrograph is for a well equipped with a recording gage; the second is for a well in which weekly measurements are made.

In 1951, ground-water levels throughout Massachusetts rose steadily during January, February, and March as the result of above-normal temperatures with very warm weather in February, which melted much of the snow cover, and above-normal precipitation in February and March. The water levels in many wells reached high stages by the end of March, with those in the north-central part of the State at very high stages. During April the seasonal decline coincident with plant growth began and water levels declined steadily throughout September. The water table was either at or above average levels for this time of year. Nowhere in the State were water levels dangerously low. During October the water table rose seasonally and in places appreciably. This rise continued and was accelerated in November and December when heavy rains in the first month (for New England as a whole November 1951 was the fourth wettest November in 64 years of record) and above-normal precipitation in December replenished ground-water storage appreciably. By the end of the year water levels were much higher and ground-water storage was much greater than at the end of 1950, and was well above average for this time of year.

The following table shows the net change in water levels in wells in which readings were made throughout the year. There were rises during 1951 in all but one of the wells.

Net change, in feet, in water levels in observation wells.

Well	Net change	Well	Net change
Arlington 174	+3.75	Fall River 67	+1.25
Brimfield 12	+2.54	Great Barrington 1	+1.40
Cambridge 667	+6.18	Ipswich 1	+ .71
Cambridge 798	+5.75	Ipswich 2	+ .23
Chelmsford 68	+1.30	Leominster 11	+1.73
Chelmsford 69	+1.33	Lowell 14	+6.00

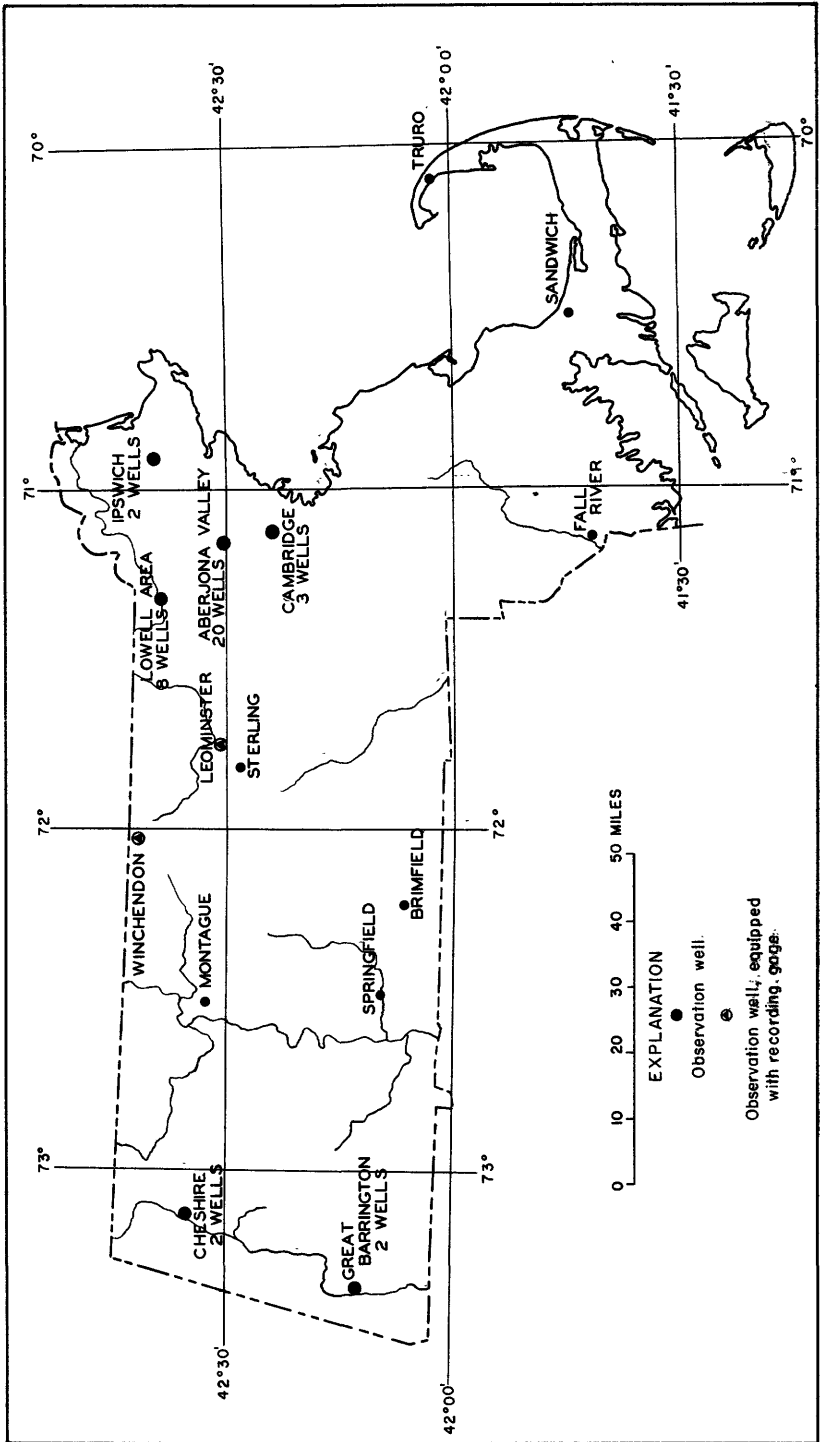


Figure 8: --Location of observation wells in Massachusetts, 1951.

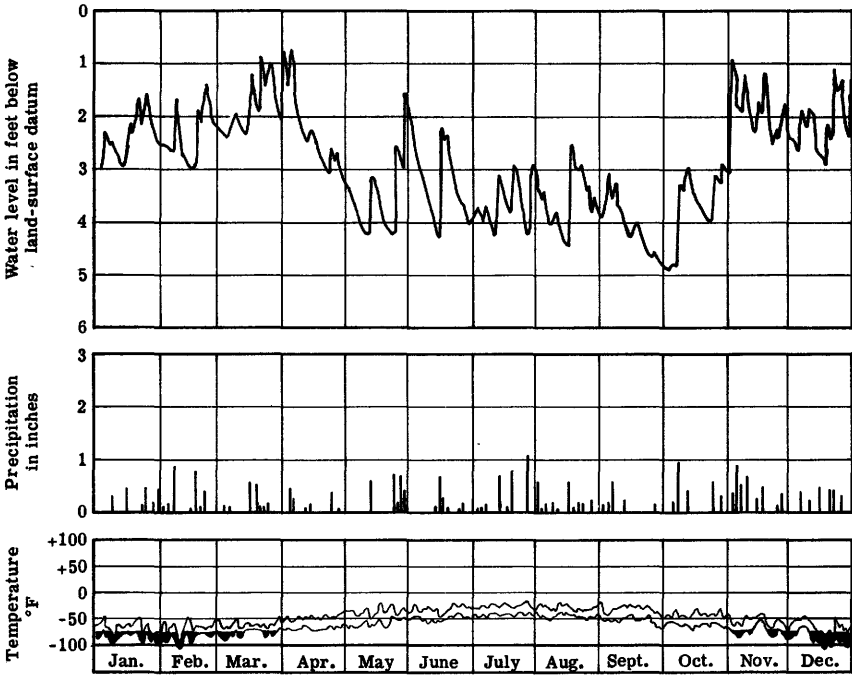


Figure 9. --Daily water level in well Leominster 11, Worcester County, Mass., daily precipitation, and maximum and minimum temperatures at Fitchburg.

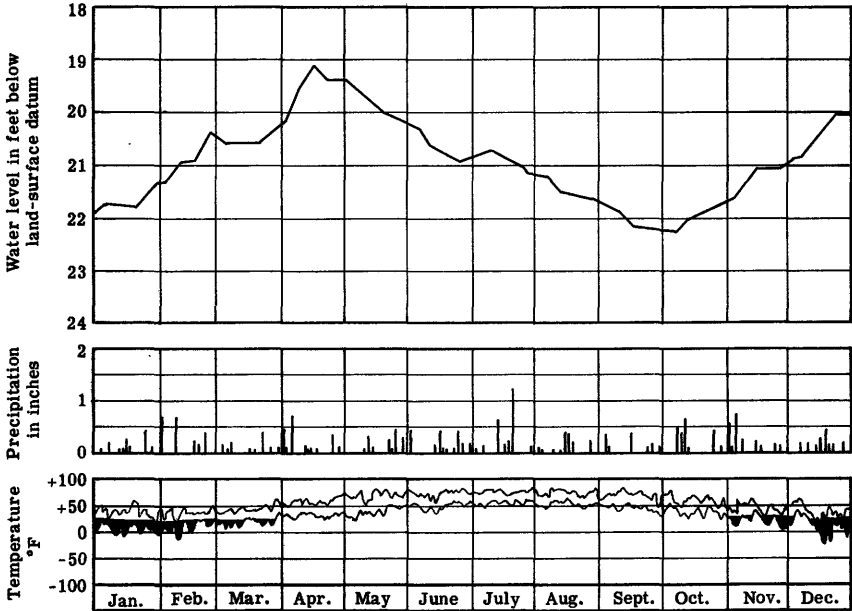


Figure 10. --Weekly water level in well Great Barrington 1, Berkshire County, Mass., daily precipitation, and maximum and minimum temperatures at Stockbridge.

Net change, in feet, in water levels in observation wells--Continued.

Well	Net change	Well	Net change
Lowell 41	+6.69	Wilmington 58	+1.87
Lowell 43	+5.75	Winchendon 13	+1.17
Montague 5	+1.79	Winchester 4	+3.98
Reading 1	+2.36	Winchester 14	+1.15
Reading 3	+ .85	Winchester 18	+2.78
Springfield 4028	+ .63	Woburn 1	+1.14
Sterling 1	+ .33	Woburn 4	+ .99
Truro 1	- .4	Woburn 17	+ .55
Wilmington 10	+2.04	Woburn 19	+1.01
Wilmington 29	+ .70	Woburn 38	+1.97
Wilmington 56	+2.48	Woburn 49	+ .87

Well-Numbering System

Wells in Massachusetts are numbered by the city or town in which the well is situated. The first well in a city or town for which data are collected is number one (Woburn 1). The only geographical significance to the well number is that the well is in the municipality named.

Well Descriptions and Water-Level Measurements

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

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 3.7 below lsd, Mar. 24, 1951; lowest 5.46 below lsd, Sept. 2, 1950. Records available: 1950-51. Mar. 24, 3.7.

Sandwich 117. Town of Sandwich. Lat. 41°45'05", long. 70°29'49". Driven unused Wing School well in glacial drift, diameter 2 inches, depth 52 feet. Land-surface datum is about 50 feet above msl. Highest water level 27.77 below lsd, Apr. 13, 1951; lowest 28.75 below lsd, Nov. 3, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	28.45	Mar. 2	28.01	Apr. 20	27.82	June 9	28.05
12	28.40	9	28.03	27	27.88	15	28.04
19	28.33	16	27.97	May 4	27.91	23	28.13
26	28.35	24	27.88	11	27.96	29	28.18
Feb. 1	28.30	31	27.83	18	27.95	July 6	28.26
9	28.27	Apr. 7	27.80	25	27.96	13	28.29
18	28.09	13	27.77	June 1	27.98	20	28.33
23	28.01						

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 10.5 below lsd, Mar. 21, 1951; lowest 11.6 below lsd, Sept. 6, 1950, Oct. 31, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.0	Apr. 18	10.5	July 15	11.1	Oct. 10	11.1
10	10.7	25	10.7	28	11.1	17	11.2
17	10.7	May 2	10.8	Aug. 1	11.3	24	11.4
24	10.8	9	10.7	8	11.2	31	11.6
31	10.8	17	11.1	15	11.3	Nov. 7	11.4
Feb. 14	10.9	23	10.9	22	11.1	14	11.5
21	10.9	30	10.6	29	11.4	21	11.5
28	10.7	June 6	11.0	Sept. 5	11.3	28	11.3
Mar. 7	10.6	13	11.0	12	11.3	Dec. 5	11.2
14	10.6	20	10.8	19	11.2	12	11.2
21	10.5	27	10.9	26	11.3	19	11.2
28	10.5	July 4	11.1	Oct. 3	11.3	26	11.3
Apr. 4	10.5	11	11.1				

Berkshire County

Cheshire 1. Adams Fire District. Near Adams. Lat. 42°35'31", long. 73°08'28". Driven unused well in glacial drift, diameter 2½ inches, depth 85 feet. Land-surface datum is about 950 feet above msl. Highest water level 7.2 below lsd, May 2, 1947; lowest 13.2 below lsd, Sept. 11, 18, 1949. Records available: 1947-51. Measurement discontinued.

Cheshire 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 17	9.1	July 22	8.8	Aug. 26	9.4	Sept. 30	9.8
24	9.3	29	8.8	Sept. 2	10.5	Oct. 8	10.8
July 1	9.1	Aug. 5	9.0	9	9.3	14	9.4
8	8.9	12	9.2	16	10.0	21	9.2
15	8.8	19	9.3	23	10.2	Nov. 11	8.6

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-surfacedatum is about 1,210 feet above msl. Highest water level 0.49 below lsd, Dec. 22, 1951; lowest 6.25 below lsd, Sept. 29, 1951. Records available: 1951.

June 14	5.62	Aug. 4	4.84	Sept. 29	6.25	Nov. 17	1.32
16	5.69	11	5.18	Oct. 6	4.29	24	1.24
24	5.19	18	4.79	13	3.19	Dec. 1	1.59
30	4.27	25	4.96	21	4.28	8	.91
July 7	4.18	Sept. 1	5.35	30	3.47	15	2.47
14	2.33	8	5.05	Nov. 3	.93	22	.49
21	2.18	15	5.53	10	1.35	29	1.55
28	4.15	22	6.19				

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: 1936-51.

Jan. 7	21.66	Mar. 26	20.30	June 11	20.65	Sept. 17	22.20
15	21.69	Apr. 1	20.10	25	20.93	Oct. 1	22.29
21	21.75	8	19.57	July 9	20.71	7	22.28
29	21.34	16	19.05	16	20.88	15	22.03
Feb. 4	21.27	22	19.35	22	20.97	Nov. 5	21.62
11	20.90	30	19.38	30	21.19	13	21.10
18	20.84	May 6	19.54	Aug. 7	21.21	26	21.05
25	20.35	13	19.76	14	21.55	Dec. 2	20.89
Mar. 4	20.56	20	20.03	19	21.60	8	20.86
11	20.56	28	20.16	26	21.64	23	20.49
18	20.54	June 4	20.27	Sept. 10	21.90	30	20.33

Great Barrington 2. Austin Holian. Lat. 42°13'15", long. 73°21'28". Dug unused water-table well in glacial drift, depth 15 feet. Land-surface datum is about 725 feet above msl. Highest water level 6.75 below lsd, Nov. 9, 1951; lowest 13.14 below lsd, Oct. 5, 1951. Records available: 1951.

June 15	12.10	Aug. 10	12.63	Sept. 28	13.05	Nov. 16	6.77
22	12.28	17	12.72	Oct. 5	13.14	23	9.53
29	12.44	24	12.93	12	11.93	30	9.59
July 6	12.45	31	12.97	19	11.89	Dec. 7	7.94
13	12.65	Sept. 7	12.99	26	11.35	14	8.65
20	9.72	14	13.05	Nov. 2	9.95	21	8.96
27	11.09	21	13.04	9	6.75	28	8.15
Aug. 3	11.90						

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 6.42 below lsd, June 7, 1948; lowest dry Oct. 30 to Nov. 20, 1950. Records available: 1948-51.

Jan. 1	9.88	Apr. 9	7.18	July 9	8.88	Oct. 8	11.74
8	10.84	16	7.61	16	9.87	15	11.88
15	8.80	23	7.98	23	9.87	22	11.92
22	9.80	30	8.87	30	9.04	29	11.83
29	9.30	May 7	8.05	Aug. 6	10.07	Nov. 5	10.44
Feb. 5	8.90	14	8.17	13	10.09	12	8.88
13	7.47	21	8.28	20	9.89	19	9.95
19	8.56	28	8.43	27	10.04	26	9.97
26	7.49	June 4	8.44	Sept. 3	10.38	Dec. 3	9.83
Mar. 5	7.61	11	8.53	10	10.58	10	8.79
12	7.98	18	8.61	17	10.84	17	9.78
19	7.56	25	8.68	24	11.09	24	8.86
26	7.18	July 2	8.77	Oct. 1	11.39	31	8.87
Apr. 2	7.10						

Essex County

Ipswich 1. State Department of Conservation. Near Ipswich. Lat. 42°41'06", long. 70°54'01". Dug unused well in gravel, diameter 34 inches, depth 18 feet. Land-surface datum is about 85 feet above msl. Highest water level 7.98 below lsd, Mar. 22, 1948; lowest 17.65 below lsd, Nov. 13, 1950. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	13.04	Apr. 2	11.50	July 2	13.32	Oct. 1	16.18
8	13.07	9	11.27	9	13.63	8	16.28
15	13.26	16	11.85	16	13.86	15	16.04
22	12.87	23	12.16	23	14.07	22	16.11
29	12.38	30	12.54	30	14.26	29	15.81
Feb. 5	12.29	May 7	12.52	Aug. 6	14.53	Nov. 5	13.41
12	11.90	14	13.03	13	14.77	12	12.36
19	11.61	21	13.15	20	14.91	19	12.74
26	11.46	28	12.95	27	15.14	26	12.84
Mar. 5	11.79	June 4	12.59	Sept. 3	15.30	Dec. 3	12.83
12	11.70	11	12.83	10	15.52	10	12.91
19	11.34	18	12.93	17	15.71	17	12.84
26	10.90	25	13.02	24	15.96		

Ipswich 2. State Department of Conservation. 4 miles southwest of Ipswich. Lat. 42°39'43", long. 70°54'52". Dug unused well in gravel, diameter 4 feet, depth 12 feet. Land-surface datum is about 60 feet above msl. Highest water level 5.07 below lsd, Mar. 22, 1948; lowest 11.89 below lsd, Oct. 16, 23, 30, 1950. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	8.29	Apr. 2	7.18	July 2	9.00	Oct. 1	10.87
8	8.19	9	7.13	9	9.30	8	10.81
15	8.29	16	7.64	16	9.47	15	10.32
22	7.80	23	8.07	23	9.46	22	10.46
29	7.77	30	8.30	30	9.71	29	10.03
Feb. 5	7.81	May 7	8.58	Aug. 6	9.89	Nov. 5	7.71
12	7.51	14	8.61	13	10.46	12	7.56
19	6.90	21	8.87	20	10.15	19	7.82
26	6.96	28	8.21	27	10.27	26	8.11
Mar. 5	7.38	June 4	8.17	Sept. 3	10.35	Dec. 3	8.09
12	7.57	11	8.55	10	10.45	10	8.15
19	7.09	18	8.26	17	10.61	17	8.34
26	6.69	25	8.71	24	10.74		

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: 1936-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.93	Apr. 9	1.76	July 9	3.64	Oct. 8	3.08
8	3.60	16	1.86	16	3.54	15	3.56
15	3.50	23	1.50	23	3.64	22	4.04
22	3.78	30	2.14	30	4.06	29	3.50
29	3.90	May 7	2.76	Aug. 6	4.30	Nov. 5	2.16
Feb. 5	4.10	14	2.76	13	4.47	12	2.20
12	3.79	21	3.00	20	3.84	19	2.30
19	3.12	28	2.56	27	3.80	26	2.32
26	2.38	June 4	3.34	Sept. 3	3.18	Dec. 3	2.66
Mar. 5	2.10	11	3.84	10	4.20	10	2.24
12	2.70	18	2.95	17	3.80	17	2.80
19	1.89	25	3.26	24	4.48	24	2.50
26	2.31	July 2	3.46	Oct. 1	4.50	31	1.95
Apr. 2	1.69						

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 4.35 below lsd, Mar. 30, 1948; lowest dry 1944, 1947, 1948, 1949. Records available: 1936-51.

Brimfield 12--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	14.26	Apr. 8	4.68	July 8	11.58	Oct. 7	13.48
14	14.48	14	5.72	15	12.05	14	14.04
21	14.42	22	6.79	22	12.33	21	14.15
28	13.78	29	7.24	29	12.65	28	14.13
Feb. 4	13.04	May 6	8.04	Aug. 5	13.02	Nov. 4	14.19
11	10.45	13	8.79	12	13.06	11	12.15
18	10.87	20	9.47	19	13.16	18	12.02
25	10.26	27	10.03	26	13.02	25	11.78
Mar. 4	11.11	June 3	11.02	Sept. 2	12.79	Dec. 3	11.79
11	11.75	8	10.38	10	13.04	9	12.08
18	12.12	17	10.76	16	13.12	16	12.24
25	11.59	24	11.05	23	13.28	23	12.23
Apr. 1	9.72	July 1	11.38	30	13.43	31	11.48

Springfield 4028. Chapman Valve Co. Pinevale and Essex Sts. Lat. 42°09'20", long. 72°30'04". Driven unused well in glacial drift, diameter 2 inches, depth 22 feet. Land-surface datum is about 210 feet above msl. Highest water level 8.92 below lsd, Mar. 6, 1950; lowest 12.41 below lsd, Nov. 20, 1950. Records available: 1948-51.

Jan. 2	12.00	Apr. 2	11.68	July 2	11.27	Oct. 1	11.84
8	12.06	9	11.43	9	11.18	8	11.74
15	11.94	16	11.20	16	11.15	15	11.79
22	11.79	23	10.98	23	11.03	22	11.77
29	11.67	30	11.33	30	10.94	29	11.85
Feb. 5	11.83	May 7	11.29	Aug. 6	11.25	Nov. 5	11.84
12	11.61	14	11.43	13	11.59	13	11.63
19	11.61	21	11.57	20	11.97	19	11.46
26	11.68	28	11.50	27	11.57	26	11.53
Mar. 5	11.63	June 4	11.37	Sept. 4	11.61	Dec. 3	11.49
11	11.38	11	11.35	10	11.45	10	11.45
19	11.67	18	11.37	16	11.41	17	11.44
26	11.76	25	11.34	24	11.69	26	11.36

Middlesex County

Arlington 174. State Department of Public Health. Margaret and Dorothy Rds.

Lat. 42°24'09", long. 71°08'50". Driven observation well in coarse gravel and sand, diameter 2½ inches, depth 176 feet. Land-surface datum is 9.44 feet above msl. Highest water level 5.82 below lsd, Mar. 12, 1945; lowest 14.51 below lsd, Dec. 29, 1950. Records available: 1944-51.

Jan. 29	12.42	Apr. 28	8.16	July 27	8.80	Oct. 27	8.80
Feb. 28	8.16	May 31	8.04	Aug. 31	8.79	Dec. 1	10.01
Mar. 30	7.64	June 30	8.07	Sept. 28	8.65	31	10.76

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: 1944-51.

Jan. 29	18.07	Apr. 28	7.65	July 27	6.81	Oct. 27	9.81
Feb. 28	10.92	May 31	7.25	Aug. 31	6.03	Dec. 1	14.10
Mar. 30	11.08	June 30	6.64	Sept. 28	6.69	31	17.64

Cambridge 798. State Department of Public Health.

Concord Ave. and Blanchard Rd. Lat. 42°23'20", long. 71°09'17". Driven observation water-table well, diameter 2½ inches, depth 31 feet. Land-surface datum is 6.61 feet above msl. Highest water level 0.93 below lsd, May 18, 1945; lowest 18.29 below lsd, Dec. 29, 1950. Records available: 1944-51.

Jan. 29	12.98	Apr. 28	2.87	July 27	2.07	Oct. 27	4.88
Feb. 28	5.89	May 31	2.45	Aug. 31	1.33	Dec. 1	9.07
Mar. 30	6.65	June 30	1.91	Sept. 28	1.97	31	12.54

Chelmsford 68. Harold Blackie. Formerly Wannalancit Trotting Park. 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 5.69 below lsd, Apr. 23, 1940; lowest 11.07 below lsd, Sept. 2, 1950. Records available: 1939-51.

Jan. 30	8.01	Apr. 28	6.90	July 28	8.36	Oct. 27	8.27
Feb. 27	7.10	May 31	7.40	Sept. 1	8.66	Dec. 1	7.18
Mar. 30	6.94	June 30	8.10	29	8.86	31	7.30

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 0.11 below lsd, Feb. 24, 1943; lowest 6.05 below lsd, Aug. 23, 1941. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.47	May 31	1.18	Sept. 1	1.70	Oct. 27	2.18
Feb. 27	.83	June 30	1.72	29	2.28	Dec. 1	1.79
Mar. 30	1.05	July 28	1.52	Oct. 6	2.44	31	.91
Apr. 28	1.28						

Lowell 4. General Electric Co. Formerly U. S. Rubber Co. Marginal and Pawtucket Sts. Lat. 42°38'21", long. 71°20'22". Dug unused well in glacial drift, diameter 12 feet, depth 22 feet. Land-surface datum is 102.26 feet above msl. Highest water level 7.56 below lsd, May 7, 1940; lowest 12.55 below lsd, Oct. 31, 1947. Records available: 1939-51. Oct. 6, 10.45.

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 8.80 below lsd, Apr. 3, 1948; lowest 22.46 below lsd, Nov. 7, 1939. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	15.52	Apr. 28	10.33	July 28	12.75	Oct. 27	15.29
Feb. 27	14.16	May 31	11.20	Sept. 1	13.91	Dec. 1	11.55
Mar. 30	11.69	June 30	11.65	29	14.77	31	10.35

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, May 7, 1940; lowest 13.01 below lsd, Sept. 30, 1950. Records available: 1939-51. Oct. 6, 11.05.

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: 1939-51. Oct. 6, 8.65.

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: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	15.47	May 31	12.58	Sept. 1	16.57	Oct. 27	14.76
Feb. 27	12.78	June 30	15.46	29	17.01	Dec. 1	12.07
Mar. 30	12.03	July 28	15.66	Oct. 6	17.08	31	10.80
Apr. 28	13.63						

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: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	24.74	May 31	17.64	Sept. 1	18.39	Oct. 27	17.60
Feb. 27	23.86	June 30	18.69	29	18.68	Dec. 1	17.45
Mar. 30	23.12	July 28	18.50	Oct. 6	18.77	31	18.08
Apr. 28	19.28						

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: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	17.26	Apr. 28	15.73	July 28	18.99	Oct. 27	20.72
Feb. 27	15.50	May 31	17.29	Sept. 1	19.96	Dec. 1	16.89
Mar. 30	14.14	June 30	17.66	29	20.52	31	16.15

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 1.14 below lsd, Nov. 30, 1944; lowest 5.63 below lsd, Nov. 1, 1941. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.87	Apr. 28	1.85	July 28	1.94	Oct. 27	2.24
Feb. 27	1.57	May 31	1.67	Sept. 1	2.97	Dec. 1	1.78
Mar. 30	1.61	June 30	2.04	29	3.61	31	1.35

Wilmington 10. L. Chisholm. Hopkins St. and Shawsheen 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: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.72	Apr. 28	1.61	July 28	3.98	Oct. 27	4.58
Feb. 27	1.00	May 31	1.50	Sept. 1	5.52	Dec. 1	1.63
Mar. 30	1.04	June 30	2.86	29	6.46	31	.98

Wilmington 29. 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 11.70 below lsd, Sept. 27, 1941 Aug. 30, 1949. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	10.07	Apr. 28	9.99	July 28	10.59	Oct. 27	10.67
Feb. 27	9.68	May 31	10.13	Sept. 1	10.95	Dec. 1	10.03
Mar. 30	9.49	June 30	10.42	29	11.18	31	9.64

Wilmington 56. 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 2.06 below lsd, Mar. 1, 1945; lowest 8.11 below lsd, Aug. 30, 1949. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	3.98	Apr. 28	4.19	July 28	4.93	Oct. 27	4.32
Feb. 27	2.95	May 31	3.70	Sept. 1	5.93	Dec. 1	3.79
Mar. 30	3.40	June 30	4.75	29	6.36	31	2.33

Wilmington 58. 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 12.65 below lsd, Nov. 1, 1941. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.29	Apr. 28	6.98	July 28	9.04	Oct. 27	9.71
Feb. 27	4.82	May 31	6.98	Sept. 1	9.96	Dec. 1	6.46
Mar. 30	5.00	June 30	8.10	29	10.81	31	5.53

Wilmington 78. Town of Wilmington. Whitefield School, Middlesex Ave. Lat. 42°34'01", long. 71°09'28". Dug observation well in sand, diameter 42 inches, depth 12 feet. Land-surface datum is about 80 feet above msl. Highest water level 6.68 below lsd, Dec. 31, 1951; lowest 9.64 below lsd, Oct. 7, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 24	7.53	Aug. 11	8.75	Oct. 20	9.47	Dec. 1	7.21
July 1	7.82	19	8.83	27	9.33	2	7.26
8	8.05	26	9.02	28	9.23	9	7.40
15	8.25	Sept. 1	9.10	Nov. 4	8.55	16	7.48
22	8.30	29	9.59	11	8.22	23	6.87
28	8.39	30	9.62	18	8.03	30	6.81
29	8.46	Oct. 7	9.64	25	7.25	31	6.68
Aug. 5	8.55	14	9.57				

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: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	11.10	May 31	9.11	Sept. 1	10.81	Oct. 27	10.90
Feb. 27	10.14	June 30	8.87	29	11.51	Dec. 1	9.05
Mar. 30	8.29	July 28	10.55	Oct. 6	11.70	31	9.30
Apr. 28	8.60						

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: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	8.36	Apr. 28	9.46	July 28	11.66	Oct. 27	11.64
Feb. 27	7.84	May 31	9.07	Sept. 1	11.90	Dec. 1	8.54
Mar. 30	7.51	June 30	9.82	29	12.82	31	8.29

Winchester 18. T. N. Vinson. Rive 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, 1941-51. Records available: 1940-51.

Winchester 18--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.61	Apr. 28	7.83	July 28	11.52	Dec. 1	6.62
Feb. 27	4.70	May 31	7.95	Sept. 1	12.43	31	4.36
Mar. 30	5.56	June 30	9.75	Oct. 27	13.02		

Woburn 1. E. P. Fox. Green and Highland St. Near Woburn. Lat. 42°28'27", long. 71°08'54". Driven unused well in glacial drift, diameter 2½ inches, depth 26 feet. Land-surface datum is 91.45 feet above msl. Highest water level 4.47 below lsd, Nov. 30, 1944; lowest 9.73 below lsd, Sept. 29, 1943. Records available: 1939-51

Jan. 30	6.29	Apr. 28	6.61	July 28	6.23	Oct. 27	5.96
Feb. 27	5.92	May 31	6.15	Sept. 1	7.32	Dec. 1	6.70
Mar. 30	5.90	June 30	6.72	29	8.37	31	5.92

Woburn 3. New England Dressed Poultry Co. Ashburton Ave. and Boston & Maine Railroad 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 0.93 above lsd, Oct. 31, 1947; lowest 2.41 below lsd, Aug. 16, 1941. Records available: 1939-51. Oct. 6, 0.65.

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 0.73 above lsd, Feb. 28, 1948; lowest 2.57 below lsd, Sept. 26, 1939. Records available: 1939-51.

Jan. 30	1.38	May 31	1.17	Sept. 1	1.73	Oct. 27	1.26
Feb. 27	1.00	June 30	1.48	29	1.79	Dec. 1	1.22
Mar. 30	1.09	July 28	1.13	Oct. 6	1.72	31	.46
Apr. 28	1.35						

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 0.22 above lsd, Dec. 24, 1942; lowest 1.00 below lsd, Sept. 19, 1939. Records available: 1939-51. Oct. 6, 0.17.

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 4.13 below lsd, Nov. 30, 1944; lowest dry, Dec. 26, 1941. Records available: 1940-51.

Jan. 30	4.97	Apr. 28	5.75	July 28	6.94	Oct. 27	7.16
Feb. 27	4.88	May 31	5.94	Sept. 1	7.60	Dec. 1	4.94
Mar. 30	4.90	June 30	6.14	29	8.46	31	4.80

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 14.85 below lsd, Oct. 18, 1941. Records available: 1940-51.

Jan. 30	5.37	Apr. 28	5.84	July 28	5.55	Oct. 27	5.30
Feb. 27	4.99	May 31	5.73	Sept. 1	5.47	Dec. 1	5.18
Mar. 30	5.00	June 30	5.60	29	6.04	31	4.69

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: 1940-51. Oct. 6, 1.56.

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: 1940-51.

Jan. 30	9.36	Apr. 28	8.68	July 28	9.79	Oct. 27	10.73
Feb. 27	8.55	May 31	8.70	Sept. 1	10.29	Dec. 1	9.32
Mar. 30	7.88	June 30	9.12	29	10.77	31	8.47

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 1.97 above lsd, Apr. 3, 1948; lowest 4.25 below lsd, Dec. 5, 1941. Records available: 1940-51.

Woburn 49--Continued.

Water level above land-surface datum

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	0.90	Apr. 28	1.66	July 28	0.88	Oct. 27	0.85
Feb. 27	1.56	May 31	1.48	Sept. 1	.23	Dec. 1	1.06
Mar. 30	1.70	June 30	.99	29	.75	31	1.59

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 10.69 below lsd, Sept. 27, 1941. Records available: 1940-51. Oct. 6, 9.35.

Worcester County

Leominster 11. C. S. Pierce. Nashua St. and Boston & Maine Railroad 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 0.65 below lsd, Apr. 3, 1951; lowest 9.35 below lsd, Oct. 28-30, 1949. Records available: 1939-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	2.35	1.21	3.44	2.45	3.92	3.39	3.98	4.94	3.15	2.50
2	....	....	2.39	1.51	3.51	2.70	3.66	3.34	3.84	4.95	2.46	2.52
3	3.02	....	2.47	.65	3.66	2.85	3.87	3.59	3.04	4.92	e.83	2.64
4	2.30	....	2.46	1.12	3.76	2.97	4.05	3.41	3.12	4.90	1.43	2.69
5	2.27	2.55	1.98	1.52	3.65	3.13	3.91	3.67	3.38	4.85	1.73	2.69
6	2.38	2.70	1.93	1.81	3.95	3.26	3.60	3.84	3.54	4.85	2.01	1.89
7	2.46	2.71	1.94	2.62	4.01	3.46	3.66	4.02	3.22	4.94	1.85	2.11
8	2.46	1.59	1.94	2.18	4.08	3.67	3.88	3.98	3.46	3.53	1.10	2.23
9	2.63	2.14	2.08	2.26	4.15	3.82	4.06	3.74	3.67	3.33	1.54	2.20
10	2.70	2.58	2.25	2.36	4.22	3.97	4.21	3.90	3.83	3.44	1.91	1.87
11	2.74	2.80	2.36	2.44	4.27	4.10	4.30	4.04	3.98	3.47	2.09	2.21
12	2.79	2.90	2.33	2.53	3.09	4.20	4.36	4.17	4.04	3.05	2.23	2.35
13	2.87	2.99	2.35	2.19	3.10	4.31	3.03	4.18	4.15	3.20	2.30	2.55
14	2.89	2.99	2.37	2.28	3.30	4.30	3.22	4.29	4.25	3.33	2.33	2.78
15	2.52	3.03	1.16	2.46	3.44	2.99	3.45	4.40	4.34	3.42	1.70	2.76
16	2.10	3.05	1.38	2.62	3.32	2.23	3.68	4.46	4.05	3.53	1.94	2.90
17	2.25	3.06	1.62	2.70	3.30	2.36	3.85	2.54	4.13	3.65	1.16	2.95
18	2.35	1.83	1.85	2.82	3.30	2.30	3.89	2.44	4.26	3.70	1.61	2.95
19	2.28	1.86	2.03	2.89	3.39	2.59	3.91	2.81	4.35	3.70	1.97	2.27
20	1.93	2.06	.84	2.98	4.37	2.89	2.81	3.05	4.45	3.78	2.20	2.48
21	1.66	2.20	1.22	3.11	4.13	3.12	3.14	2.92	4.52	3.88	2.38	1.20
22	1.94	1.36	1.30	3.19	4.21	3.33	3.35	2.84	4.58	3.95	2.48	1.11
23	2.24	1.56	1.49	2.61	4.30	3.50	3.51	3.20	4.65	3.99	2.46	1.52
24	1.58	1.81	.94	2.66	3.48	3.53	3.72	3.37	4.69	4.03	2.36	1.80
25	1.63	2.02	1.17	2.81	2.59	3.60	3.93	3.53	4.74	3.12	2.45	2.06
26	1.76	2.16	1.60	2.68	2.84	3.81	4.13	3.65	4.66	3.10	2.07	2.14
27	2.01	2.16	1.94	2.91	3.07	3.94	4.30	3.79	4.72	3.17	1.78	2.29
28	2.30	2.23	2.05	3.05	1.65	4.00	3.04	3.61	4.75	3.29	2.21	2.44
29	2.43		2.17	3.15	1.53	4.07	2.80	3.47	4.83	2.85	2.35	2.50
30	2.57		2.00	3.29	1.91	3.89	2.93	3.68	4.90	3.03	2.42	2.44
31	....		.81		2.17		3.23	3.85		3.10		1.26

e Estimated.

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 2.08 below lsd, Dec. 21, 1951; lowest 13.01 below lsd, Oct. 21, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.23	Mar. 9	3.34	May 11	4.14	July 13	3.31
12	3.29	16	2.93	18	3.79	20	3.30
19	3.26	23	3.14	25	3.23	27	4.76
26	3.01	30	3.23	June 1	3.29	Aug. 3	4.73
Feb. 2	3.12	Apr. 6	3.19	8	3.77	10	5.30
9	3.35	13	3.15	15	2.98	17	4.64
16	3.26	20	3.34	22	3.75	24	4.60
23	2.96	27	3.37	29	4.34	31	5.19
Mar. 2	3.23	May 4	3.73	July 6	3.58	Sept. 7	5.21

Sterling 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 14	6.33	Oct. 12	5.59	Nov. 9	3.08	Dec. 7	3.19
21	6.88	19	5.69	16	3.21	14	3.29
28	7.59	26	4.54	23	3.29	21	2.08
Oct. 5	8.21	Nov. 2	3.10	30	3.24	28	3.20

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 12.76 below lsd, Nov. 21-23, 1947. Records available: 1939-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	4.05	2.59	4.06	4.63	6.04	5.00	6.65	8.44	5.01	3.99
2	....	....	4.09	2.71	4.08	4.82	6.03	4.92	6.70	8.47	5.04	3.87
3	4.76	....	4.22	1.87	4.17	4.97	6.17	5.03	6.53	8.52	4.08	3.84
4	4.44	....	4.29	2.47	4.26	5.08	6.29	5.16	6.31	8.57	3.05	3.89
5	3.76	....	4.37	2.71	4.34	5.20	6.39	5.32	6.25	8.61	3.28	3.88
6	3.61	....	4.27	2.84	4.42	5.32	6.45	5.49	6.27	8.65	3.52	3.46
7	3.63	....	3.99	2.83	4.48	5.47	6.48	5.65	6.26	8.72	3.53	3.36
8	3.60	....	3.92	2.83	4.56	5.64	6.57	5.77	6.41	8.74	2.74	3.4 ^e
9	3.82	....	4.05	2.84	4.63	5.78	6.68	5.71	6.56	8.60	3.04	3.50
10	3.95	....	4.13	2.93	4.72	5.91	6.82	5.77	6.72	8.36	3.19	3.18
11	4.05	....	4.14	2.59	4.78	6.04	6.96	5.86	6.86	8.11	3.29	3.36
12	4.15	....	4.37	2.80	4.22	6.18	7.08	5.97	6.99	7.83	3.45	3.49
13	4.30	4.10	4.45	2.84	4.08	6.29	6.72	6.08	7.10	7.37	3.53	3.72
14	4.33	4.00	4.48	2.94	4.20	6.38	6.20	6.21	7.19	6.97	3.55	3.95
15	4.07	4.05	3.42	3.07	4.31	6.04	6.07	6.32	7.29	6.69	2.86	3.93
16	3.70	4.08	3.48	3.21	4.43	5.18	6.12	6.41	7.35	6.54	2.97	4.15
17	3.75	4.10	3.61	3.21	4.59	4.78	6.29	6.18	7.42	6.49	2.69	4.28
18	3.85	3.15	3.79	3.37	4.71	4.77	6.40	5.73	7.51	6.47	2.90	4.30
19	3.91	3.22	3.91	3.44	4.81	4.88	6.47	5.52	7.60	6.43	3.14	4.34
20	3.68	3.37	2.83	3.56	4.89	5.07	6.16	5.53	7.72	6.44	3.34	4.42
21	3.27	3.52	3.01	3.71	4.96	5.22	5.93	5.55	7.82	6.52	3.55	3.60
22	3.28	2.66	3.25	3.80	5.05	5.40	5.88	5.51	7.90	6.58	3.66	2.64
23	....	e2.88	e3.48	3.38	5.13	5.53	5.92	5.60	7.97	6.63	3.69	2.95
24	....	e3.15	3.24	3.27	5.06	5.61	6.11	5.71	8.09	6.66	3.50	3.20
25	....	e3.44	e2.95	3.46	4.35	5.71	6.30	5.80	8.16	6.40	3.46	3.44
26	....	3.67	e3.20	3.33	4.33	5.84	6.47	5.89	8.24	5.74	3.43	3.52
27	....	3.76	e3.45	3.56	4.48	5.95	6.68	6.03	8.27	5.35	3.55	3.71
28	....	3.93	3.64	3.69	4.13	6.05	6.02	6.12	8.27	5.25	3.75	3.91
29	....	....	3.68	3.77	4.01	6.16	4.77	6.23	8.34	5.08	3.88	4.03
30	....	....	3.39	3.94	4.18	6.12	4.64	6.36	8.40	4.99	3.95	4.06
31	....	....	2.20	....	4.41	....	4.85	6.49	....	4.95	....	3.62

e Estimated.

MICHIGAN

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

Scope of Water-Level Program

The observation-well program in the Southern Peninsula of Michigan was continued during 1951 in cooperation with the Geological Survey Division of the State Department of Conservation. This program includes the maintenance of a network of observation wells to provide basic data on changes in storage of principal ground-water reservoirs. Measurements of water levels were made in 264 observation wells, 42 of which were equipped with recording gages. In those areas in the southern part of the Southern Peninsula which are under intensive study, records of a few representative wells are being published. In other parts of the Southern Peninsula water-level records have been selected for publication in the annual water-level report on the basis of best representation in terms of location, usefulness, and length of record. Water-level data omitted from the water-level report will be published in project reports or special reports from time to time. Figure 11 shows the location of the wells for which records are published in this report.

A limited program has been set up to observe ground-water temperatures in the Southern Peninsula. Within the Lansing area a slight rising trend in the temperature of water has taken place. The largest increase in temperature has occurred in the downtown area where pumping has dewatered an appreciable portion of the aquifer. During the summer months, this rising trend in temperature is accentuated as a result of recirculating air-conditioning water in the Seginaw formation. The State-wide average air temperature for 1951 was 44.0° F. or 0.6° F. below average. Temperatures were above average in January, February, March, May, and October. The summer months June, July, August, and September were cool and wet.

Precipitation

The year 1951 was the wettest of record. The State-wide average of total precipitation during the year was 37.55 inches or 6.86 inches above the 1887-1950 average used by the U. S. Weather Bureau. May was the only month in which below average precipitation occurred. April, July, and October showed the largest increases in above-average monthly rainfall. Months most favorable for ground-water recharge were January, February, March, April, and October. May, which is normally favorable for ground-water recharge, was unseasonably warm and deficient in precipitation. Above-normal precipitation occurred in July, August, and September; however, evapotranspiration demands by vegetation in this period limited the recharge benefits.

Pumpage

Records of ground-water withdrawals by municipalities, in areas where observation wells are situated, are discussed under the various county headings. Generally, ground-water withdrawals reflected increased demand by industry. In addition, per capita demands increased as the result of use of water-consuming appliances. Considerably more water is being used in air conditioning and a large part of this increased use is not reflected by municipal pumping records because of the use of privately owned wells.

Interpretation of Water-Level Fluctuations

In the northern part of the Southern Peninsula, well Cr Gr 6 near Grayling, is used as an index of the trends in ground-water level in water-table aquifers in this area. Figure 12 illustrates graphically the water-level fluctuations for well Cr Gr 6, along with precipitation, and temperature extremes for the year on a day-by-day basis. Warm fronts in February and March brought rain and snow which recharged the ground-water aquifer. As a result, water levels rose about a foot in mid-February. By the end of March water levels were about 2 feet above the January levels and reached a peak for the year on April 26. An early seasonal decline began in May as the result of above-average temperatures and a deficiency of rainfall during the month. With the close of the growing season and above-normal precipitation from September through November, water levels rose steadily to the middle of November. Below-normal temperatures at this time caused a general decline which continued through the end of the year. Precipitation and temperature conditions during the year were favorable for ground-water recharge as indicated by the net gain of 0.59 foot during 1951. Mid-December measurements of water levels in 44 shallow wells in the north-central part of the Southern Peninsula indicated that the average

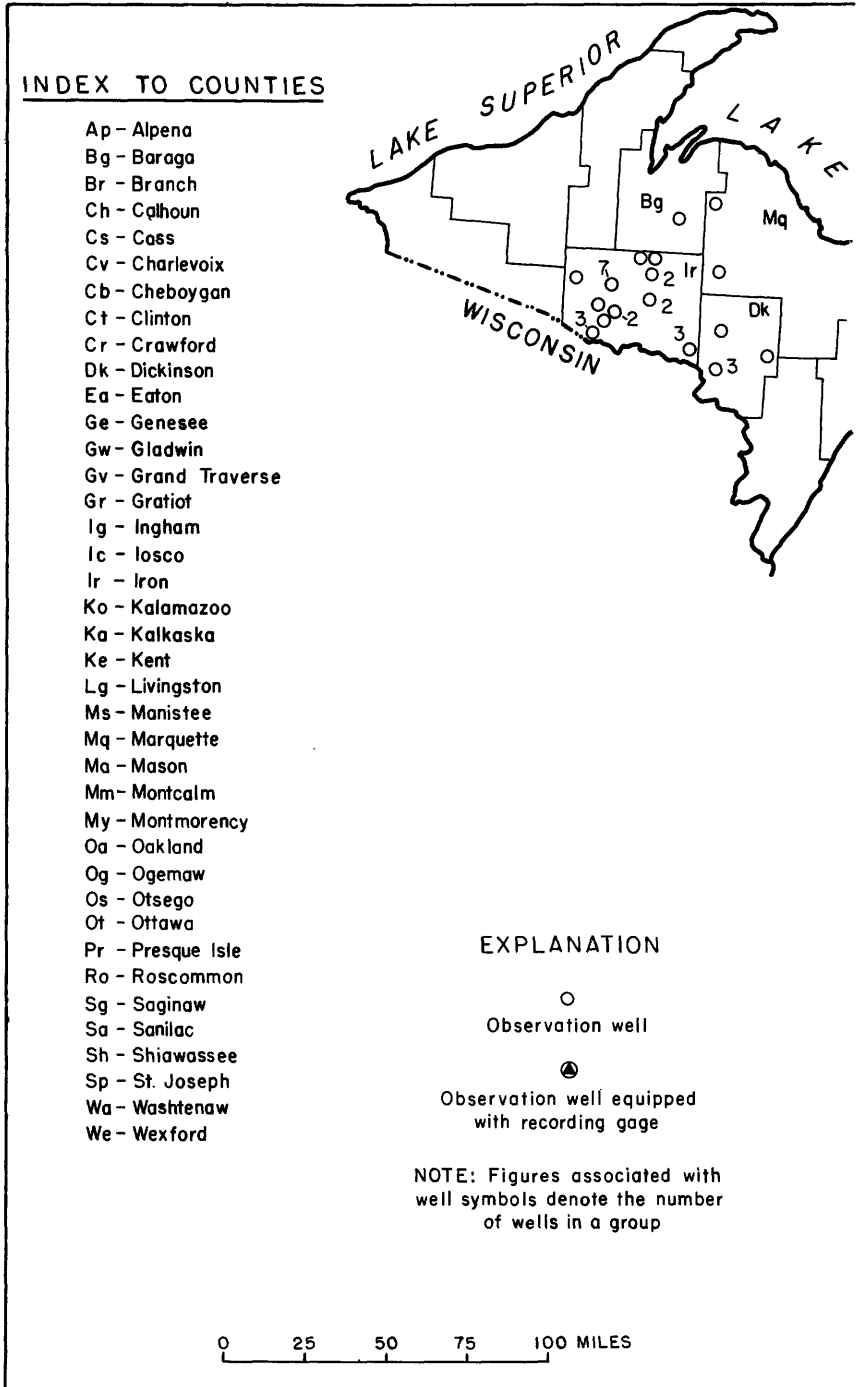
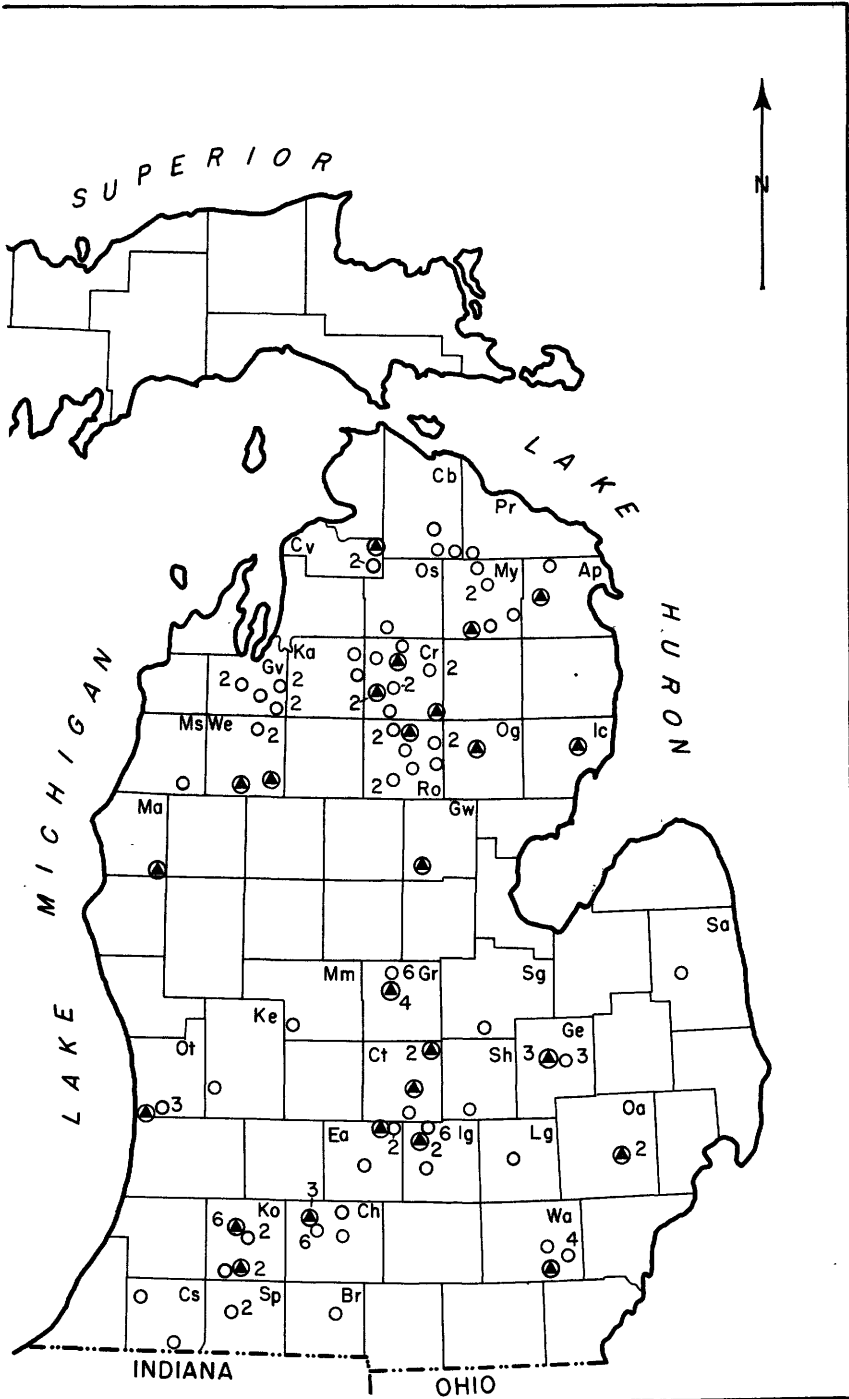


Figure 11. --Location of observation wells in Michigan, 1951.



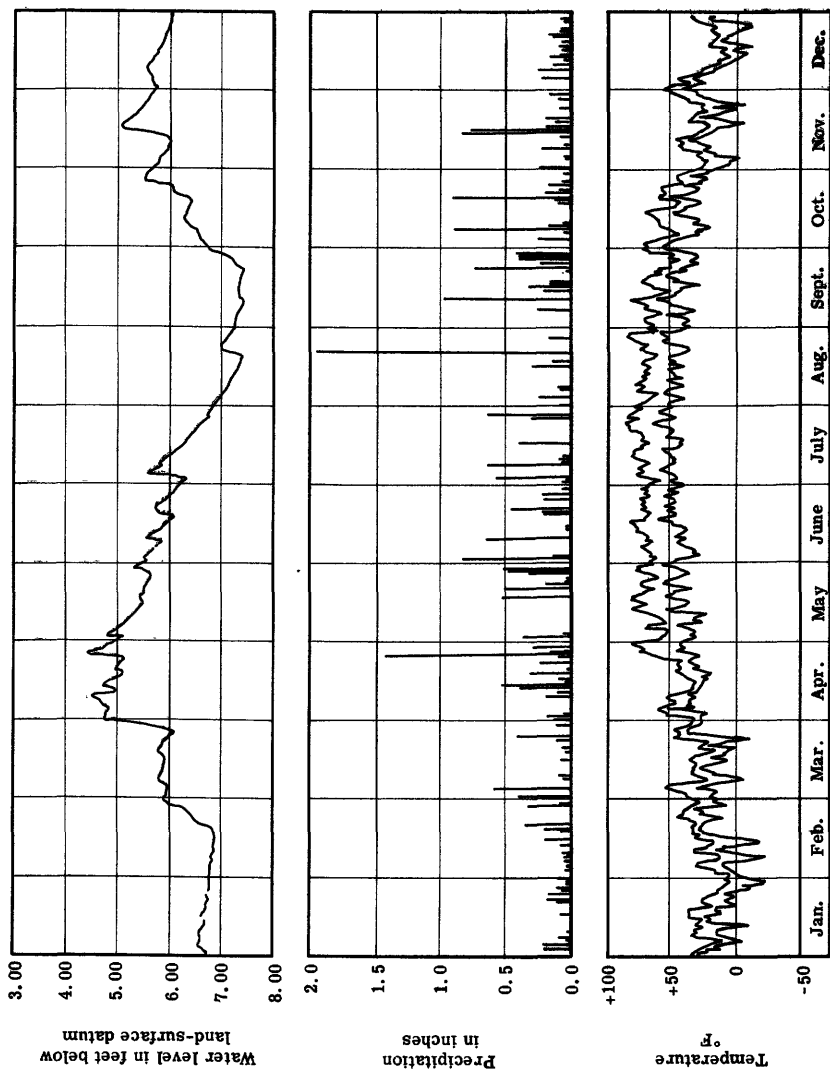


Figure 12. --Daily water level in Cr Gr 6, Crawford County, Mich., daily precipitation, and maximum and minimum temperatures at Grayling.

ground-water stage for the month was a record December high and was 1.28 feet above the mid-December stage of 1950. This record December high was 0.10 foot higher than the previous December high of 1943.

Branch County, City of Coldwater. -- Total precipitation for the year in this area was 40.89 inches or 8.88 inches above the average. Above-normal precipitation during the period January through April accompanied by above-normal temperatures during the winter months created favorable conditions for recharge to the ground-water reservoir. Water levels reached a high for the year the early part of May. At this time increased evapotranspiration demands of vegetation and increased municipal withdrawals of ground water caused water levels to decline. A steady decline continued to October when decreased pumping, heavy precipitation, and the end of the growing season water demands started an upward trend of ground-water levels which continued through November. Unusually cold weather in the latter part of November and most of December permitted little or no recharge to the water table and the water level began a slight decline. However, despite increased municipal withdrawals during the year, water levels showed a net gain over the previous year. The average daily municipal withdrawals of ground water ranged from 1.0 million gallons in January to 1.4 million gallons in July and averaged 1.1 million gallons per day for the year. Municipal water supplies in Coldwater are obtained from wells finished in the glacial drift. Br Cw 3 at the Water Works Park is affected by withdrawals from other wells finished in the same formation.

Calhoun County, City of Battle Creek. -- All months, except February, March, May and September, received above-average precipitation in this area. A total of over 40 inches was recorded for the year or about 7 inches above average. Observation wells in this area are finished in the glacial drift and in the Marshall formation. In general, observation wells finished in the drift and Marshall formation reached their highest stages during the month of February. The low water levels generally occurred in September which marks the end of the growing season and the end of the season of greatest municipal pumping. The rising trend in ground-water levels of the past several years leveled off during 1951 with some wells showing slight declines from last year's high levels. The average daily municipal withdrawals of ground water during the year ranged from 5.1 million gallons in February to 6.8 million gallons in July and averaged 5.5 million gallons daily for the year.

City of Marshall. -- A warm front accompanied by rain and melting snows during the last two weeks of February caused water levels to rise rapidly with maximum stages occurring approximately at the end of February or in early March. From this date water levels receded gradually until about the middle of October when above-average rainfall started an upward trend. However, this normal trend was interrupted by sub-freezing temperatures in November and December, both months being unusually cold. Water levels at the end of the year were at about the same level as at the end of 1950. Municipal withdrawals of ground water averaged about 800,000 gallons daily for the year. The observation well in Marshall is finished in the Marshall formation, which is the source of the municipal water supply.

Cass County, City of Dowagiac. -- Most favorable conditions for recharge occurred in September and October when about 5 inches of above-average rainfall accumulated. As a result, end-of-the-year water levels showed a net gain of about 0.50 foot over the end-of-the-year measurements in 1950. Municipal withdrawals of ground water averaged 700,000 gallons daily. Municipal supplies in Dowagiac are obtained from wells finished in glacial drift. The observation well at the Water Works plant in Dowagiac is finished in the drift and is influenced by nearby municipal pumping.

Clinton County, Village of Elsie. -- Water for municipal use is obtained from two wells finished in the glacial drift and from one well finished in the Saginaw formation. Observation well CIES 1 is finished in the Saginaw formation and reflects changes of water level caused by municipal pumping from the sandstone. Low stage in this observation well occurred in July. From August through November a rapid recovery began owing to decreased withdrawals of ground water from this aquifer by the village. As a result, water levels in the sandstone at the end of the year showed a net gain of about 7 feet over those recorded for the end of 1950. Observation well CIES 3 is finished in the glacial drift and reflects changes of water level caused by municipal pumping from the drift. Maximum stages for this well were recorded during the first three months of the year, after which levels declined to a low stage in July. Increased withdrawals of ground water from the drift to offset the reduced withdrawals from the sandstone slowed the recovery from August through the end of the year. At the end of the year, water levels showed a net loss of about 7 feet from those recorded at the end of 1950. Average daily municipal withdrawals of ground water from all three wells ranged from 300,000 gallons in November to 600,000 gallons in June, and averaged about 480,000 gallons daily for the year.

Eaton County, City of Grand Ledge. -- The observation well maintained in Grand Ledge is finished in the Saginaw formation, from which the municipal water supply is obtained. Recorded high water levels occurred in the latter part of May through the first part of July. These maximum stages were followed by a seasonal decline continuing through late October, at which time water levels began to rise slowly. The stage in this observation well at the end of the year was about a foot lower than the level recorded at the end of 1950, despite the cool wet weather which

prevailed during the year. This was probably due to increased withdrawals of ground water by the city which averaged 560,000 gallons daily for the year against a daily average of 380,000 gallons for the year 1950. Average daily withdrawals ranged from 400,000 gallons in April to 710,000 gallons in July.

City of Charlotte. --The observation well in the city of Charlotte is finished in glacial drift. Maximum stages were observed in late April and early May, after which a seasonal decline caused water levels to fall gradually until October. Above-average precipitation, decreased evapotranspiration demand at the end of the growing season, and decreased municipal demands caused a sharp rise in the water levels which continued to the end of the year. Water levels toward the end of the year showed a net gain for the year of about 2 feet, over those observed at the end of 1950. Municipal withdrawals of ground water for the year averaged 680,000 gallons daily, with a peak day of one million gallons on July 26.

Genesee County, City of Flint. --Above-normal precipitation occurred in January, February, April, June, October, November, and December, with a total for the year of 33.91 inches or 4.65 inches above the normal. In general, above-normal temperatures and precipitation during the period January through April created favorable conditions for recharge to the ground-water reservoir with high water levels occurring during most of this period. In May water levels started a general decline with the minimum stages for the year occurring during the months of July through September. In October a normal seasonal rise in water levels occurred. At the end of the year water levels in all deep observation wells showed net losses for the year ranging from about one-half foot to as much as 2 feet. This decline is probably due to increased withdrawals of ground water by industry in Flint and suburban areas. The city of Flint obtains its municipal water supply from the Flint River. Burton Township, at the south city limits of Flint, obtains its water supply from the Saginaw formation. Withdrawals of ground water from the sandstone by Burton Township during 1951 ranged from 180,000 gallons daily in February to 330,000 gallons daily in July and averaged 310,000 gallons daily for the year.

Gratiot County, City of Alma. --Records for the months of February, March, April, and September through December showed above-normal precipitation. Total precipitation for the year was 37.78 inches or 6.76 inches above normal. The month of August with 7.07 inches of precipitation was the wettest and was 4.25 inches above normal. Highest observed ground-water levels occurred in April and May, with minimum stages in July and August. The city of Alma obtains its municipal water supply from wells in the glacial drift and has one well in the Saginaw formation. Observation wells maintained in this area are finished in a shallow aquifer and some in a deeper aquifer both composed of glacial drift. Most observation wells in this area showed net losses in water level at the end of the year ranging from 0.4 foot to about 3 feet, despite above-average precipitation. In general, the net decline in water levels was a result of increased municipal withdrawals of ground water. Average daily municipal withdrawals of ground water ranged from 1.16 million gallons in March to 1.75 million gallons in July and averaged 1.41 million gallons daily for the year.

City of St. Louis. --The observation well in St. Louis reflects changes in water level in glacial drift caused by withdrawals of ground water from nearby municipal and industrial wells. Maximum water-level stage for the year was observed in January, with the minimum occurring in July. At this year's end water levels were slightly higher than that recorded at the end of the previous year. Average daily municipal withdrawals of ground water ranged from 0.82 million gallons in February to 1.20 million gallons in June and averaged 1.02 million gallons for the year.

Ingham County, Lansing area. --Precipitation for the year amounted to 31.70 inches which is about average. In the Lansing area, municipal, industrial, and township wells are for the most part finished in the Saginaw formation and Parma sandstone of Pennsylvanian age. Records of municipal withdrawals of ground water by Lansing, East Lansing, Landel Metropolitan District, and Michigan State College indicate an average daily withdrawal ranging from 17.7 million gallons in January to 21.3 million gallons in July, and 19 million gallons for the year. Peak water-level stages, as indicated by observation wells in the Lansing area, occurred during the period February through May, with most peaks being observed in February. The high stages coincide with periods of minimum municipal and industrial pumping. Low water-level stages were distributed from June through October with most of these minimum stages occurring in October. These low-water levels correspond closely with the close of the summer season which is the period of peak water-supply demand. The average water level at the end of the year in nine observation wells finished in the Saginaw formation was about 1.22 feet lower than those observed at the end of 1950.

Kalamazoo County, City of Kalamazoo. --Total precipitation for the year in this area was 38.46 inches or 3.26 inches above normal. The months of January, April, July through October, and December had above-normal precipitation. Peak water-level stages occurred in November and December. Low stages occurred in July, September, and October. Municipal wells in Kalamazoo obtain water supplies from the glacial drift. Observation wells in this area also are finished in glacial drift. Net changes in water level for the year in six observation wells ranged from a decline of 0.14 foot to a rise of as much as 2.30 feet, with the average net change for this group of wells showing a rise of 1.32 feet. Average daily municipal withdrawals of ground water ranged from 7.17 million gallons in November to 9.61 million gallons in July, and averaged 8.2 million gallons daily for the year.

Oakland County, City of Pontiac. --Total precipitation for the year in this area amounted to about 33.14 inches or 3.47 inches above normal. Above-normal temperatures and precipitation which prevailed during the period January through May created favorable conditions for recharge to the ground-water reservoir. The city of Pontiac obtains its water from wells finished in glacial drift. The observation well at the Walnut Street pumping station reflects changes in water level caused by municipal withdrawals of ground water from glacial drift. High water-level stages for the year occurred in May with the low in mid-August. This low mid-August stage coincided with peak municipal withdrawal of ground water. The water level at the end of the year in the observation well was about the same as at the close of the previous year. Average daily withdrawals of ground water ranged from 10.26 million gallons in December to 14.90 million gallons in August, and averaged 12.4 million gallons daily for the year.

Ottawa County, City of Holland. --Total precipitation for the year in this area was 41.83 inches or 8.97 inches above normal. June was the wettest month with nearly 5 inches above the average precipitation. The city of Holland obtains its municipal water supply from wells finished in glacial drift. Observation wells maintained in the Holland area are also finished in glacial drift. High water-level stages for the year were observed in May and June with most low stages occurring in September. A net gain for the year of from one-half to more than a foot was noted in observation wells except in the area of heavy pumping where water levels declined as much as 10 feet. Average daily municipal withdrawals of ground water ranged from 1.78 million gallons in February to 3.65 million gallons in July, and averaged 2.44 million gallons daily for the year.

Well-Numbering System

The first pair of letters consists of an upper and lower-case letter indicating the county in which the well is situated. The second pair of letters indicates the city or the civil township. Upper-case letters are used for cities, villages, or towns. An upper-case followed by a lower-case letter is used for the township designation.

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 appropriate signs are placed to indicate a change; readings that are between minus (-) signs are considered to be below the plane of reference; and those between plus (+) signs are considered as above the plane of reference. A plus or minus sign is placed immediately preceding the first entry in each column of each mixed table.)

Alpena County

Green Township

Ap Gn 1. Robert E. James. Formerly Julius E. Maxfield. 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 1.12 below lsd, Mar. 19, 1951; lowest 9.52 below lsd, Dec. 11-15, 1949. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.62	4.03	1.45	1.27	2.80	4.51	....	....	5.99	5.47	2.62	2.02
2	3.67	4.06	1.54	1.27	2.97	4.53	....	....	6.01	5.42	2.69	1.83
3	3.69	4.10	1.67	1.42	3.05	4.53	....	....	6.02	5.37	2.73	1.85
4	3.60	4.12	1.49	1.47	3.09	4.54	....	....	6.03	5.33	2.79	1.88
5	3.56	4.13	1.48	1.72	3.15	4.58	....	5.68	6.04	....	2.89	1.95
6	3.51	4.15	1.42	1.98	3.23	4.60	....	5.68	6.04	....	3.00	2.11
7	3.47	4.23	1.16	2.16	3.30	4.62	....	5.68	6.02	....	3.02	2.16
8	3.41	4.34	1.16	2.36	3.36	4.64	....	5.69	6.04	4.11	2.97	2.24
9	3.40	4.38	1.32	2.57	3.44	4.67	....	5.71	6.05	3.41	2.94	2.39
10	3.41	4.41	1.50	2.63	3.55	4.69	....	5.74	6.04	3.15	2.77	2.39
11	3.45	4.42	1.66	2.59	3.62	4.72	....	5.77	5.98	3.10	2.25	2.41
12	3.50	4.45	1.70	2.68	3.68	4.76	....	5.79	5.96	3.15	1.98	2.43
13	3.56	4.47	1.60	1.26	3.77	4.79	....	....	5.93	3.24	1.40	2.54
14	3.58	4.49	1.30	1.35	3.84	4.82	....	....	5.91	3.32	1.20	2.68
15	3.56	4.62	1.19	1.48	3.90	4.84	....	5.83	5.89	3.37	1.47	2.76
16	3.60	4.63	1.18	1.81	3.94	4.86	....	5.84	5.88	3.46	1.76	2.78
17	3.62	4.61	1.20	2.04	4.00	4.89	....	5.85	5.86	3.54	1.93	2.79
18	3.64	4.64	1.18	2.25	4.06	4.92	....	5.87	5.85	3.64	1.95	....
19	3.66	4.65	1.12	1.94	4.11	4.94	....	5.88	5.83	3.64	2.05	....
20	3.71	4.62	1.32	1.71	4.14	4.95	5.26	5.89	5.83	3.17	2.14	....

Ap Gn 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	3.74	4.42	1.81	2.00	4.16	4.96	5.30	5.89	5.82	3.02	2.19	....
22	3.79	4.01	2.18	1.95	4.11	4.99	5.31	5.90	5.82	3.00	2.21	....
23	3.81	3.64	2.46	1.78	4.11	....	5.36	5.93	....	3.06	2.00	....
24	3.83	3.30	2.60	2.15	4.13	....	5.39	5.95	....	2.85	2.02	....
25	3.87	2.93	2.72	2.31	4.17	....	5.42	5.97	....	1.81	2.22	....
26	3.90	2.50	2.83	1.23	4.23	....	5.44	5.97	5.66	1.93	2.29	3.06
27	3.91	1.49	2.87	1.58	4.27	....	5.46	5.97	5.63	2.12	2.39	3.08
28	3.93	1.43	2.37	1.98	4.33	....	....	5.98	5.58	2.25	2.44	3.09
29	3.96		1.77	2.04	4.39	....	....	5.99	5.56	2.37	2.47	3.03
30	3.99		1.27	2.46	4.44	....	....	6.01	5.53	2.45	2.22	3.00
31	4.02		1.18		4.49	....	....	5.99		2.48		3.01

Long Rapids Township

Ap Lr 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 5.69 below lsd, Apr. 19, 1951; lowest 16.67 below lsd, Nov. 12, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	8.43	Apr. 19	5.69	July 19	8.13	Oct. 22	7.19
Feb. 16	8.81	May 16	7.97	Aug. 16	12.12	Nov. 26	6.28
Mar. 23	8.13	June 19	8.17	Sept. 21	11.54		

Branch County

City of Coldwater

Br CW 3. City of Coldwater. Park Ave. and Bennett St. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 8 to 6 inches, depth 130 feet, screen at 80 to 130. Measurements made by the Board of Public Works. Highest water level 10.08 below lsd, Apr. 8, 1950; lowest 14.02 below lsd, Dec. 3, 1949. Records available: 1949-51.

Jan. 5	12.24	Apr. 6	11.75	July 6	12.69	Oct. 5	13.70
12	12.37	13	11.72	13	12.69	12	13.72
19	12.43	20	11.44	20	12.81	19	13.62
26	12.43	27	11.30	27	12.93	26	13.36
Feb. 2	12.42	May 4	11.15	Aug. 3	13.03	Nov. 2	13.40
9	12.24	11	11.20	10	13.04	9	13.37
16	11.89	18	11.25	17	13.05	16	12.87
23	11.75	25	11.81	24	13.15	23	12.83
Mar. 2	11.60	June 1	12.00	31	13.43	30	12.78
9	11.63	8	12.20	Sept. 7	13.42	Dec. 7	12.27
16	11.73	15	12.26	14	13.53	14	12.32
23	11.75	22	12.50	21	13.61	21	12.34
30	11.77	29	12.69	28	13.67	28	12.36

Calhoun County

City of Battle Creek

Ch BC 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 9.50 below lsd, Oct. 25, 1947. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.41	7.65	6.86	7.40	7.30	7.74	7.63	7.56	8.00	8.09	7.47	7.29
2	7.37	e7.73	6.99	7.33	7.29	7.59	7.60	7.70	7.90	8.21	7.53	7.19
3	6.93	e7.74	6.93	7.43	7.23	7.48	7.72	7.72	7.84	8.36	7.58	7.17
4	6.69	e7.72	6.88	7.45	7.34	7.46	7.77	7.64	7.85	8.41	7.45	7.19
5	6.65	e7.64	6.86	7.51	7.36	7.60	7.74	7.61	8.05	8.43	7.50	7.02
6	6.57	e7.78	7.01	7.53	7.31	7.66	7.87	7.58	8.05	8.45	7.67	7.00
7	6.52	e7.81	7.05	7.55	7.26	7.71	7.93	7.66	8.12	8.28	7.68	7.01
8	6.40	e7.83	7.08	7.41	7.41	7.75	7.87	7.75	8.14	7.82	7.75	7.05
9	6.57	7.81	7.16	7.29	7.48	7.77	7.72	7.83	8.02	7.86	7.77	6.81
10	6.67	7.87	7.21	7.42	7.59	7.68	7.89	7.89	7.97	7.89	7.72	6.90

Ch BC 160--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	6.79	7.67	7.10	7.47	7.37	7.65	7.96	7.92	7.98	7.91	7.57	7.00
12	6.90	7.43	7.04	7.41	7.31	7.84	7.98	7.90	8.06	7.97	7.44	7.12
13	6.96	....	7.21	7.40	7.19	7.89	8.01	7.88	8.13	8.00	7.34	7.20
14	6.84	....	7.27	7.38	7.10	7.95	8.04	8.02	8.16	7.88	7.06	7.28
15	6.84	7.25	7.30	7.24	7.21	8.01	7.97	8.03	8.17	7.87	6.94	7.33
16	7.07	7.14	7.33	7.18	7.25	8.05	7.93	7.99	8.05	8.06	6.92	7.28
17	7.08	7.09	7.35	7.31	7.29	7.96	8.09	7.96	8.00	8.13	6.93	....
18	7.17	6.94	7.17	7.34	7.35	7.89	8.15	7.77	8.16	8.19	6.82	....
19	7.23	6.77	7.13	7.36	7.42	8.02	8.19	7.66	8.21	8.25	6.81	7.50
20	7.23	6.83	7.29	7.43	7.39	....	8.25	7.61	8.26	8.27	6.95	7.43
21	7.29	6.80	7.34	7.45	7.35	7.46	8.27	7.61	8.31	8.12	7.02	7.45
22	7.26	6.80	7.41	7.37	7.56	7.44	7.65	7.58	8.31	8.07	7.08	7.42
23	7.30	6.86	....	7.32	7.57	7.38	7.05	7.60	8.22	8.25	6.95	7.36
24	7.35	6.84	....	7.46	7.61	7.28	7.13	7.63	8.15	7.46	7.00	7.37
25	7.42	6.68	7.36	7.47	7.66	7.27	7.20	7.73	8.28	7.34	6.95	7.32
26	7.49	6.65	7.35	7.56	7.70	7.41	7.26	7.66	8.32	7.33	6.90	7.31
27	7.46	6.84	....	7.56	7.64	7.49	7.33	7.85	8.23	7.31	7.10	7.47
28	7.39	6.91	....	7.53	7.55	7.58	7.34	7.74	8.28	7.18	7.14	7.40
29	7.38	....	7.60	7.44	7.65	7.63	7.32	7.83	8.28	7.18	7.21	7.40
30	7.57	....	7.54	7.20	7.68	7.60	7.32	7.94	8.15	7.31	7.26	7.35
31	7.60	7.55	7.60	7.60	7.60	7.48	7.93	7.42	7.42	7.42	7.42	7.42

e Estimated.

Ch BC 173. Kellogg Co. Porter and Stiles Sts. Drilled unused artesian well in Marshall formation, diameter 8 inches, depth 104 feet, cased to about 40. Land-surface datum is 847.33 feet above msl. Highest water level 33.04 below lsd, Apr. 16, 1950; lowest 46.40 below lsd, Aug. 4, 1951. Records available: 1950-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e36.55	42.62	40.58	42.95	43.85	42.55	44.80	45.77	45.76	39.75	42.97	38.32
2	e35.90	42.75	40.77	39.20	40.80	42.92	44.66	45.95	39.46	44.00	42.95	36.26
3	e36.68	42.45	40.97	42.30	38.30	43.10	44.77	46.13	38.23	44.59	42.50	35.50
4	40.32	39.23	41.06	42.67	37.52	42.78	44.75	46.17	37.75	45.05	37.93	38.30
5	39.15	39.22	38.32	42.91	37.00	43.40	39.70	43.75	42.33	45.44	36.75	38.90
6	39.75	38.37	40.37	43.20	36.60	43.58	43.92	42.77	43.03	45.51	39.85	39.00
7	39.50	39.32	40.75	43.38	36.23	43.82	44.57	43.60	43.57	44.45	40.54	39.67
8	39.30	40.20	41.00	40.52	36.03	43.90	44.88	43.15	44.00	40.70	41.10	39.85
9	39.94	40.75	41.13	39.45	35.92	44.06	44.88	43.05	44.01	43.14	41.65	36.52
10	39.93	40.55	41.05	42.40	35.11	43.95	45.13	43.04	42.25	44.45	41.88	36.65
11	40.10	40.52	41.22	42.97	34.90	44.02	45.23	43.07	44.02	43.86	37.30	37.70
12	40.35	40.13	37.74	43.25	34.70	44.15	45.30	44.50	44.67	44.38	36.38	37.97
13	40.04	42.05	40.74	43.30	34.64	44.33	45.35	42.64	44.90	44.68	40.10	37.97
14	39.98	42.38	41.10	43.53	34.42	44.48	45.63	44.90	45.15	44.70	40.60	39.40
15	37.15	41.75	41.30	40.60	34.32	44.78	45.60	45.50	45.78	40.00	41.92	39.43
16	40.17	40.83	41.65	39.95	34.22	45.00	45.44	45.50	44.97	43.85	42.25	37.15
17	40.57	40.63	41.90	41.83	34.17	45.10	45.72	45.82	43.88	44.28	40.52	....
18	40.90	40.00	40.27	42.48	34.08	44.90	45.90	46.02	44.93	44.77	37.95	....
19	41.22	39.40	38.10	42.85	34.04	45.19	44.85	46.00	45.33	45.01	38.93	39.20
20	41.37	41.38	41.20	43.15	33.88	45.26	45.45	45.50	45.87	45.23	39.08	....
21	41.30	41.55	40.54	43.55	34.10	45.25	46.06	45.62	45.53	44.42	39.00	....
22	38.77	41.41	40.48	43.48	35.65	45.35	46.00	45.53	45.68	40.06	38.85	....
23	41.12	41.30	41.57	43.10	38.88	45.17	45.64	45.51	43.14	43.67	35.82	....
24	41.60	40.84	42.43	43.44	39.55	44.97	45.62	45.45	42.75	44.10	35.93	....
25	41.92	40.56	39.40	43.65	40.50	44.64	45.80	45.55	45.04	44.36	35.06	....
26	42.15	38.85	37.25	38.53	41.11	44.72	45.87	45.90	45.88	44.36	34.83	....
27	42.17	40.35	41.55	43.00	41.33	44.67	46.02	42.15	45.71	43.36	37.48	....
28	42.15	40.47	42.20	43.50	41.43	44.78	45.97	45.64	45.74	40.81	37.85	....
29	41.45	....	42.55	43.79	41.73	44.78	45.96	45.35	45.77	37.91	38.02	....
30	42.25	....	42.97	43.69	41.92	44.78	45.47	45.57	43.85	41.97	38.35	....
31	42.40	....	43.10	42.15	42.15	45.54	45.65	42.68	42.68	42.68	42.68	....

e Estimated.

City of Marshall

Ch MA 2. City of Marshall. East Michigan Ave. and East Drive. Drilled unused artesian well in Marshall formation, diameter 6 inches, depth 59 feet. Land-surface datum is about 904.85 feet above msl. Measurements made by the City Water Works. Highest water level 5.46 below lsd, May 8, 1950; lowest 7.72 below lsd, Oct. 16, 1951. Records available: 1950-51.

Ch MA 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	7.25	Mar. 29	7.15	July 3	7.36	Sept. 12	7.60
9	7.11	Apr. 3	7.13	10	7.44	18	7.64
16	7.27	10	7.13	17	7.51	27	7.67
23	7.25	18	7.06	24	7.18	Oct. 2	7.70
Feb. 5	7.50	May 1	7.08	Aug. 1	7.30	16	7.72
13	7.28	29	7.22	9	7.42	31	7.53
21	7.02	June 7	7.27	14	7.48	Nov. 15	7.47
28	6.87	13	7.33	21	7.43	29	7.51
Mar. 12	7.07	20	7.29	29	7.51	Dec. 12	7.44
22	7.07	27	7.30	Sept. 5	7.58		

Battle Creek Township

Ch Bc 50. E. H. Arnett. 447 N. 22d St. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 2 S., R. 8 W. Driven unused water-table well in sand and gravel of Pleistocene age, diameter 26 inches, depth 89 feet, screen at 49 to 89. Land-surface datum is 882.14 feet above msl. Highest water level 2.52 below lsd, May 22, 1948; lowest 6.84 below lsd, Oct. 11, 1946. Records available: 1946-51.

Jan. 13	3.21	Apr. 21	3.61	July 21	4.56	Oct. 27	3.41
Feb. 17	3.13	May 19	3.75	Aug. 15	5.01	Nov. 24	3.59
Mar. 22	3.61	June 22	4.15	Sept. 22	5.17	Dec. 22	3.73

Ch Bc 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 at 49 to 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: 1945-51.

Jan. 13	6.87	Apr. 21	7.24	July 20	7.54	Oct. 27	7.52
Feb. 17	6.67	May 19	7.00	Aug. 29	7.31	Nov. 24	7.53
Mar. 22	7.30	June 22	7.01	Sept. 22	7.56	Dec. 22	7.55

Emmett Township

Ch Em 10. C. W. Cronkrite. 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: 1946-51.

Jan. 13	13.07	Apr. 21	13.07	July 20	13.35	Oct. 27	13.51
Feb. 17	12.90	May 19	13.10	Aug. 29	13.37	Nov. 24	13.12
Mar. 13	12.84	June 20	13.20	Sept. 22	13.49	Dec. 22	13.23

Ch Em 60. City of Battle Creek. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, 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: 1945-51.

Jan. 13	0.78	Apr. 21	0.84	June 22	0.91	Aug. 29	1.52
Feb. 17	.55	May 19	.91	July 20	1.90	Sept. 22	1.80
Mar. 22	.87						

Pennfield Township

Ch Pf 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 9.91 below lsd, Aug. 4, 1941. Records available: 1939-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.11	4.12	3.92	....	4.20	4.43	4.68	5.62	6.30	5.67	5.30	5.34
2	e4.48	4.54	4.45	....	4.66	5.67	4.90	6.51	5.72	5.86	5.24	4.48
3	4.81	4.18	3.67	....	3.78	4.90	5.50	6.26	....	5.84	5.57	4.24
4	4.45	4.42	4.36	....	4.19	4.54	4.80	6.75	e5.20	6.60	5.14	4.06
5	4.76	4.14	4.03	....	3.69	4.47	e5.57	6.31	5.72	5.91	4.79	4.88
6	4.22	4.16	3.75	....	4.21	4.37	4.64	5.66	5.42	6.20	5.00	4.20
7	3.81	4.94	3.82	....	4.17	5.04	6.11	5.43	5.64	5.40	4.80	5.39
8	4.21	4.67	3.86	....	4.86	5.49	5.72	6.05	5.62	5.21	5.64	4.22
9	4.32	4.31	4.16	....	4.34	4.84	5.10	6.70	6.10	5.62	5.45	3.82
10	4.34	4.29	4.92	....	4.35	4.75	5.93	....	5.45	5.88	5.25	4.41

Ch Pf 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	4.37	4.07	4.21	....	4.10	3.85	4.80	6.80	5.55	5.66	5.69	4.90
12	4.43	4.80	4.18	....	3.70	5.33	4.87	6.15	6.02	5.95	4.60	4.59
13	4.39	4.10	3.45	....	3.83	5.75	6.35	5.35	5.80	5.59	4.31	4.68
14	4.39	4.25	4.31	....	4.05	4.87	5.74	5.51	6.08	5.55	5.05	4.74
15	3.94	4.41	4.60	....	4.84	4.91	5.45	6.68	5.85	5.04	....	4.96
16	4.71	4.04	3.93	....	4.17	5.69	5.80	....	6.09	5.86	....	5.20
17	4.37	4.67	3.55	....	4.38	5.30	5.20	5.52	5.28	6.80	....	4.22
18	4.43	3.88	4.40	4.09	4.52	5.70	6.17	6.04	6.27	5.96	....	5.01
19	3.80	....	3.82	3.38	3.62	6.29	6.44	5.91	5.80	5.70	....	5.05
20	4.00	3.73	4.40	3.47	5.04	5.06	....	6.31	5.63	6.01	....	4.90
21	4.40	4.47	....	4.30	3.56	5.52	6.44	6.50	5.85	5.68	4.86	4.50
22	3.67	3.93	....	4.29	4.88	5.87	6.00	....	6.21	6.03	....	5.48
23	4.27	4.35	....	3.95	3.85	5.66	5.19	5.65	5.92	5.65	....	5.03
24	3.70	4.18	....	4.61	4.75	4.72	5.00	6.13	5.38	5.78	....	4.83
25	4.11	4.05	....	3.46	4.72	4.73	4.75	5.54	5.41	5.51	....	4.83
26	3.80	4.24	....	3.49	5.07	5.03	5.83	5.84	6.15	6.21	....	4.01
27	4.43	4.06	....	4.35	5.08	5.12	6.03	5.20	5.57	5.43	....	5.08
28	4.10	4.53	....	3.81	3.80	4.92	e5.57	5.08	5.88	5.50	4.93	5.31
29	4.00	....	....	4.34	3.64	5.31	5.45	6.09	6.18	4.75	5.22	4.98
30	4.40	....	....	3.73	4.47	5.28	6.21	5.85	5.69	5.56	5.15	4.65
31	4.18	....	....	....	4.29	....	5.75	6.20	....	5.00	....	4.29

e Estimated.

Ch Pf 58. City of Battle Creek. Near Roosevelt Ave. 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 4.06 below lsd, Nov. 15, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	0.91	Apr. 21	0.80	July 21	1.16	Oct. 27	1.20
Feb. 17	.78	May 19	.74	Aug. 29	1.38	Nov. 24	1.00
Mar. 22	.74	June 20	.40	Sept. 22	1.45	Dec. 22	.67

Ch Pf 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 4.98 below lsd, Jan. 10, 1947. Records available: 1946-51.

Jan. 4	3.28	Apr. 4	3.28	July 3	3.55	Oct. 3	4.24
11	3.31	11	3.20	10	3.66	10	4.15
18	3.40	18	3.15	17	3.73	17	4.29
24	3.37	25	4.02	24	3.75	24	4.18
31	3.47	May 1	3.51	Aug. 1	3.84	31	4.16
Feb. 7	3.60	8	3.25	8	3.91	Nov. 7	4.32
13	2.60	15	3.09	15	4.21	14	4.24
21	2.55	22	3.23	22	3.94	21	3.88
28	3.56	29	3.37	29	3.96	28	3.90
Mar. 7	2.96	June 6	3.40	Sept. 5	4.07	Dec. 5	4.03
14	3.13	13	3.47	12	4.03	12	3.80
21	3.22	20	3.36	19	4.24	19	3.89
28	3.33	27	3.49	26	4.25	26	3.98

Cass County

City of Dowagiac

Cs DW 1. City of Dowagiac. Chestnut St. and Pennsylvania Ave. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 10 inches, depth 159 feet, screen at 147. Land-surface datum is 750.19 feet above msl. Measurements made by the Board of Public Works. Highest water level 4.20 above lsd, Nov. 23, Dec. 7, 1951; lowest 0.90 above lsd, Sept. 15, 1950. Records available: 1949-51.

Water level above land-surface datum

Jan. 5	3.24	Feb. 16	3.62	Mar. 30	3.15	May 11	2.96
12	3.43	23	3.15	Apr. 6	2.93	18	2.68
19	3.73	Mar. 2	3.40	13	2.85	25	2.20
26	3.57	9	3.17	20	2.98	June 1	2.87
Feb. 2	3.42	16	2.82	27	2.33	8	2.81
9	3.55	23	2.85	May 4	2.50	15	2.53

Cs DW 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 22	2.92	Aug. 17	2.87	Oct. 5	2.84	Nov. 16	4.15
July 6	2.70	24	3.04	12	3.43	23	4.20
20	2.45	Sept. 7	3.22	19	3.47	Dec. 7	4.20
27	2.82	14	3.28	26	3.51	21	3.99
Aug. 3	2.29	21	3.14	Nov. 2	2.77	28	3.98
10	2.81	28	3.24	9	3.76		

Mason Township

Cs Ma 1. Ted Little. Formerly Vernie Allen. 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: 1945-51.

Jan. 7	48.99	Apr. 8	49.54	July 15	49.29	Oct. 15	49.09
14	48.92	15	49.66	22	49.31	21	49.10
21	49.00	22	49.63	29	49.32	28	49.20
28	49.20	29	49.51	Aug. 5	48.44	Nov. 4	49.38
Feb. 4	49.31	May 6	49.54	12	48.58	11	49.30
11	49.33	13	49.59	19	48.50	19	49.32
18	49.44	20	49.37	26	48.62	25	49.30
25	49.45	27	49.28	Sept. 2	48.74	Dec. 2	49.30
Mar. 4	49.62	June 3	49.35	9	48.69	9	49.28
11	49.56	10	49.32	16	48.75	16	49.28
18	49.52	24	49.23	23	48.90	23	49.00
25	49.65	July 1	49.27	30	48.93	30	48.99
Apr. 1	49.45	8	49.26	Oct. 7	49.03		

Charlevoix County

Chandler Township

Cv Ch 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 71.32 below lsd, July 21, 1951; lowest 74.97 below lsd, Apr. 10, 1949. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.92	72.89	71.48	71.45	71.84	72.23	72.68	.....
2	73.87	72.36	71.48	71.45	71.85	72.23	72.68	.....
3	73.81	72.30	71.47	71.45	71.86	72.25	72.67	.....
4	73.77	72.27	71.42	71.52	71.88	72.27	72.65	.....
5	73.72	72.24	71.45	71.53	71.88	72.29	72.70	.....
6	73.69	72.19	71.44	71.53	71.86	72.32	72.72	72.61
7	73.63	72.15	71.41	71.50	71.91	72.33	72.66	72.56
8	73.58	72.11	71.38	71.51	71.93	72.34	72.67	72.61
9	73.52	72.06	71.38	71.55	71.93	72.36	72.71	72.58
10	73.49	72.03	71.39	71.59	71.93	72.38	.....	72.57
11	73.42	72.00	71.40	71.60	71.94	72.38	.....	72.51
12	73.37	71.96	71.38	71.61	71.97	72.40	.....	72.50
13	73.33	71.93	71.37	71.63	71.97	72.43	.....	72.50
14	73.28	71.90	71.36	71.63	71.99	72.44	72.68	.....
15	73.22	71.86	71.35	71.64	72.01	72.44	72.74	.....
16	73.17	71.83	71.35	71.64	72.03	72.46	72.78	.....
17	73.13	71.81	71.36	71.66	72.03	72.49	72.78	.....
18	73.08	71.78	71.34	71.67	72.05	72.50	72.77	.....
19	73.00	71.75	71.34	71.68	72.05	72.51	72.79	.....
20	72.93	71.70	71.35	71.69	72.08	72.53	72.80	.....
21	74.33	72.89	71.71	71.32	71.64	72.07	72.53	72.78	.....
22	74.26	72.85	71.67	71.35	71.72	72.11	72.54	72.77	.....
23	74.25	72.80	71.65	71.38	71.74	72.12	72.58	72.78	.....
24	74.22	72.74	71.62	71.38	71.75	72.13	72.56	72.81	.....
25	74.17	72.70	71.63	71.37	71.76	72.15	72.60	72.75	.....

Cv Ch 1--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	74.14	72.65	71.58	71.37	71.75	72.17	72.60	72.80	.....
27	74.10	72.59	71.56	71.39	71.75	72.12	72.62	72.77	.....
28	74.03	72.56	71.53	71.40	71.76	72.20	72.58	.....	.....
29	74.00	72.52	71.52	71.41	71.80	72.22	72.64	.....	.....
30	73.97	72.48	71.50	71.42	71.81	72.23	72.64	.....	.....
31		72.44		71.41	71.79		72.60	.....	.....

* No record for January, February, and March.

Hudson Township

Cv Hu 33. State Dept. of Conservation. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 32 N., R. 4 W. Jetted observation 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 5.20 below lsd, Oct. 17, 1949. Records available: 1934-41, 1948-51. Oct. 31, 3.98.

Cv Hu 34. State Dept. of Conservation. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 32 N., R. 4 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 14 feet, open bottom. Highest water level 0.04 above lsd, Apr. 15, 1938; lowest 1.52 below lsd, Oct. 17, 1949. Records available: 1935-38, 1941, 1948-51. Oct. 31, 0.82.

Cheboygan County

Forest Township

Cb Fr 5. Formerly Cb Nd 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 1.90 below lsd, Mar. 30, 1939; lowest 5.21 below lsd, Oct. 18, 1949. Records available: 1939-44, 1948-51. Oct. 31, 1.93.

Nunda Township

Cb Nd 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, 1948-51. Oct. 31, 5.24.

Walker Township

Cb Wk 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 7.37 below lsd, Oct. 18, 1949. Records available: 1935-44, 1948-51. Oct. 31, 5.44.

Clinton County

Village of Elsie

Ct ES 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: 1947-51.

Daily 2 a. m. water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-6.99	-6.45	-13.45	-14.54	-12.74	-16.95	-20.95	-10.15	-4.61	-2.15	.....	+1.25
2	7.15	7.06	13.90	14.49	12.48	.....	21.29	9.83	4.30	2.00	.....	+9.99
3	7.24	7.47	13.75	14.66	12.35	.....	21.10	9.51	3.69	2.04	.....	....
4	7.61	8.26	13.95	14.88	13.69	-18.03	21.44	9.18	3.24	2.03	-1.93	-1.17
5	7.94	-9.18	14.36	15.07	13.82	18.30	20.92	8.65	2.52	2.10	2.03	.23
6	7.97	....	14.10	15.22	13.42	18.14	21.07	7.90	2.44	2.43	1.94	.33
7	7.37	....	14.50	15.32	13.38	17.95	20.45	7.18	2.85	-2.32	1.46	.38
8	7.32	....	15.03	14.27	13.32	18.82	21.07	6.82	3.60	....	1.08	.40
9	7.34	15.45	14.43	13.46	18.78	21.08	6.42	3.84	-1.47	.88	.68
10	7.50	16.70	14.46	13.56	18.99	21.04	6.11	3.66	1.24	.91	.77

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Ct ES 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	7.32	-10.30	-16.87	-14.54	13.50	-19.34	-20.90	-5.91	-3.67	-0.95	-0.78	-0.67
12	7.32	10.96	17.16	14.18	13.12	19.54	20.55	5.88	4.02	.87	....	.64
13	6.99	11.30	16.47	13.98	12.88	19.78	19.93	6.17	4.12	1.00	....	.60
14	6.76	11.85	16.32	13.79	12.69	19.72	19.80	6.24	4.34	1.50	....	.47
15	-6.45	11.93	16.50	13.73	12.80	19.68	20.58	6.09	4.43	1.55	....	.27
16	....	11.85	16.85	13.97	13.90	19.55	21.50	5.60	4.44	1.61	....	.25
17	-6.64	-12.03	16.91	14.55	14.85	20.00	22.07	5.15	4.36	1.67	....	.07
18	6.97	....	17.18	14.42	-15.65	-20.26	-19.70	4.80	-4.41	1.69	+ .56	.07
19	7.01	-12.05	17.30	13.86	....	....	....	4.52	....	-1.64	.57	.14
20	7.12	12.58	17.45	13.90	....	....	....	4.18	....	....	.64	-.12
21	7.62	12.68	17.47	13.67	....	....	....	-4.10	....	-1.52	.79	+ .08
22	8.45	12.79	17.99	13.31	....	....	....	....	....	....	.80	.07
23	8.73	11.97	17.65	13.34	....	....	....	....	....	....	.88	+ .20
24	-8.97	13.09	16.70	13.08	....	....	-11.95	....	....	....	.92	....
25	....	13.07	16.51	11.55	....	....	11.90	....	-3.31	....	1.00	....
26	....	e13.15	16.85	12.24	-15.00	-20.83	11.85	....	3.30	....	1.32	....
27	....	12.92	16.79	12.36	15.87	21.00	12.17	....	3.31	....	1.23	....
28	....	13.58	e16.65	12.39	16.06	21.02	11.97	-3.38	2.97	1.97	1.28	....
29	-5.76	....	e18.09	12.60	16.07	19.78	11.10	3.64	2.73	....	1.23	....
30	5.31	....	e15.17	12.76	16.30	20.55	10.24	3.84	2.48	....	+1.19	-.18
31	5.49	....	14.63	....	16.50	....	10.10	4.28	....	....	....	-.13

e Estimated.

Ct ES 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: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.03	10.88	10.32	11.60	16.91	18.97	13.61	22.70	21.46	20.32	19.33	18.67
2	11.00	10.83	10.47	10.73	17.06	18.98	17.95	22.47	....	20.19	19.33	18.70
3	10.75	10.92	10.44	10.49	17.17	....	18.49	22.55	....	20.28	19.32	18.65
4	10.44	10.88	10.28	15.10	17.18	19.12	18.41	22.50	....	20.34	e19.20	18.88
5	10.52	10.96	10.35	16.45	17.29	19.10	18.52	22.48	22.45	20.43	19.30	19.04
6	10.50	....	10.36	16.63	17.41	19.10	18.58	22.31	22.05	20.50	19.37	19.20
7	10.66	....	10.31	16.75	17.44	19.20	18.94	22.25	21.34	20.32	19.04	19.35
8	e10.53	....	10.38	17.51	17.40	19.20	18.70	22.33	21.15	19.90	18.95	19.50
9	e10.62	....	10.48	17.01	17.60	19.23	18.60	22.20	21.07	20.04	19.04	19.18
10	e10.70	....	10.61	16.56	17.70	19.40	18.61	22.30	21.00	19.61	18.94	19.13
11	e10.68	11.02	10.66	16.53	17.59	19.41	18.56	22.28	20.87	19.69	19.06	18.97
12	e10.50	11.00	10.61	16.52	17.83	19.60	18.58	22.41	21.05	19.94	19.01	18.77
13	e10.57	10.86	10.68	16.49	17.99	19.58	15.41	22.58	21.03	19.93	....	18.87
14	e10.60	10.91	10.58	16.51	18.08	19.51	15.38	22.53	20.86	19.90	....	18.91
15	....	10.88	10.32	16.55	18.17	19.43	15.42	22.40	20.85	19.88	....	18.73
16	10.63	10.80	10.28	16.76	18.30	19.67	20.81	22.17	20.64	20.02	....	18.70
17	10.60	10.78	10.31	16.83	18.30	19.74	....	22.18	20.74	19.92	....	18.98
18	10.62	10.63	10.28	16.93	18.48	19.95	....	21.97	20.74	19.93	18.13	18.70
19	10.62	10.25	10.22	16.83	18.82	20.29	....	21.82	20.60	19.81	18.50	18.92
20	10.60	10.18	10.23	16.87	18.60	19.82	....	21.57	20.80	19.86	18.58	18.83
21	10.65	10.17	10.67	16.92	18.68	19.70	....	....	....	19.77	18.59	18.51
22	10.78	10.31	10.80	16.92	18.62	19.68	....	....	....	19.17	18.25	18.63
23	10.67	10.49	10.80	16.91	18.70	19.26	23.69	....	....	19.40	18.42	....
24	10.75	10.46	....	17.05	18.78	19.30	....	....	....	19.31	18.53	....
25	....	10.41	10.62	17.49	20.10	19.44	23.80	....	20.30	19.58	18.58	....
26	....	10.32	....	16.90	19.00	19.48	23.79	....	20.69	19.82	18.35	....
27	....	10.30	....	16.99	18.75	19.41	23.75	....	20.40	19.34	18.44	....
28	....	10.40	....	10.92	16.78	18.77	19.40	23.60	21.71	20.39	19.67	18.44
29	11.04	....	16.37	17.02	18.80	20.01	23.59	21.71	20.31	19.35	18.57	....
30	11.15	....	17.60	16.84	18.90	19.62	23.53	21.69	20.24	19.45	18.52	18.45
31	10.95	....	11.78	....	18.94	....	22.60	21.50	....	19.31	....	....

e Estimated.

De Witt Township

Ct Dw 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. Highest water level 42.02 below lsd, Sept. 14, 1944; lowest 60.85 below lsd, Dec. 31, 1951. Records available: 1944-51.

Ct Dw 159--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	54.36	Apr. 28	56.62	July 30	57.17	Oct. 26	58.74
Feb. 27	56.65	May 26	56.77	Aug. 27	57.32	Dec. 1	60.19
Mar. 31	56.61	June 25	56.43	Sept. 27	57.20	31	60.85

Olive Township

Ct Oe 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 14.84 below lsd, May 4, 1951; lowest 18.46 below lsd, Jan. 10, 1949. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.44	16.25	15.83	15.58	14.91	15.48	15.81	16.42	16.87	17.24	17.38	17.14
2	16.43	16.26	15.92	15.57	14.91	15.44	15.87	16.45	16.90	17.19	17.40	17.13
3	16.29	16.32	15.85	15.53	14.85	15.42	15.91	16.41	16.92	17.20	17.37	17.13
4	16.16	16.28	15.80	15.49	14.84	15.45	15.85	16.51	16.96	17.22	17.26	17.05
5	16.23	16.31	15.82	15.51	14.85	15.50	15.91	16.54	16.97	17.23	17.41	17.07
6	16.16	16.33	15.77	15.51	14.91	15.52	15.98	16.54	16.90	17.28	17.48	17.01
7	16.17	16.21	15.71	15.45	14.95	15.51	15.99	16.50	16.95	17.28	17.30	16.98
8	16.09	16.32	15.73	15.38	14.95	15.51	15.97	16.50	17.00	17.24	17.33	17.06
9	16.08	16.39	15.78	15.35	14.97	15.50	15.94	16.52	17.00	17.29	17.39	17.04
10	16.06	16.44	15.87	15.24	15.06	15.50	16.01	16.58	16.97	17.34	17.40	17.06
11	16.04	16.35	15.87	15.21	14.97	15.53	16.06	16.61	16.95	17.32	17.43	16.97
12	16.11	16.30	15.81	15.11	14.99	15.55	16.08	16.63	17.00	17.36	17.38	16.95
13	16.16	16.31	15.71	15.05	15.09	15.56	16.10	16.66	16.99	17.40	17.28	16.99
14	16.11	16.43	15.66	15.04	15.16	15.59	16.13	16.66	17.03	17.37	17.14	17.05
15	15.97	16.46	15.63	15.02	15.19	15.64	16.14	16.66	17.07	17.36	17.16	16.97
16	16.06	16.38	15.62	15.08	15.18	15.62	16.15	16.65	17.09	17.36	17.19	17.07
17	16.04	16.30	15.66	15.10	15.18	15.64	16.18	16.69	17.10	17.36	17.20	17.09
18	16.06	16.30	15.63	15.12	15.22	15.67	16.20	16.70	17.10	17.39	17.20	16.96
19	16.06	16.20	15.57	15.06	15.23	15.69	16.17	16.72	17.10	17.36	17.22	17.04
20	16.06	16.19	15.54	15.15	15.19	15.64	16.21	16.74	17.13	17.41	17.25	16.99
21	16.12	16.08	15.53	15.17	15.19	15.72	16.23	16.66	17.13	17.37	17.21	16.91
22	16.24	16.13	15.55	15.02	15.22	15.71	16.22	16.74	17.11	17.38	17.15	16.90
23	16.14	16.12	15.50	15.09	15.23	15.68	16.28	16.80	15.15	17.42	17.14	17.01
24	16.10	16.10	15.40	15.10	15.26	15.72	16.31	16.83	17.18	17.30	17.15	17.05
25	16.13	16.03	15.61	15.05	15.27	15.77	16.32	16.83	17.18	17.34	17.21	17.09
26	16.16	15.94	15.70	15.03	15.27	15.77	16.33	16.82	17.21	17.36	17.09	17.04
27	16.15	15.89	15.68	15.02	15.20	15.75	16.34	16.81	17.11	.....	17.18	e17.08
28	16.22	15.96	15.65	14.91	15.26	15.76	16.35	16.81	17.20	.....	17.15	17.08
29	16.25		15.62	14.87	15.34	15.80	16.38	16.84	17.28	.....	17.18	16.99
30	16.32		15.55	14.90	15.41	15.80	16.40	16.86	17.26	17.29	17.16	16.96
31	16.33		15.57		15.47		16.39	16.84		17.31		16.98

e Estimated.

Crawford County

City of Grayling

Cr GR 3. State Fish Hatchery. 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 at 5 to 8. Highest water level 2.86 below lsd, Apr. 18, 1950, Apr. 18, 1951; lowest 3.44 below lsd, Oct. 13, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	3.06	Apr. 18	2.86	July 16	2.98	Oct. 18	2.97
Feb. 15	3.06	May 15	3.19	Aug. 15	2.96	Nov. 12	3.17
Mar. 14	2.98	June 18	2.90	Sept. 18	3.09	Dec. 17	3.11

Beaver Creek Township

Cr Bc 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 at 11 to 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, 1939-51.

Cr Bc 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	10.77	Apr. 17	9.50	July 18	9.71	Oct. 19	10.04
Feb. 15	10.85	May 15	9.29	Aug. 14	9.93	Nov. 13	9.91
Mar. 19	10.59	June 12	9.52	Sept. 17	10.08	Dec. 14	9.85

Frederic Township

Cr Fr 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 at 10 to 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: 1934-51.

Jan. 18	6.38	Apr. 18	5.07	July 16	5.64	Oct. 18	5.45
Feb. 15	6.50	May 15	5.28	Aug. 15	5.96	Nov. 13	5.24
Mar. 14	7.08	June 18	5.67	Sept. 18	5.89	Dec. 17	5.23

Grayling Township

Cr Gr 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 $\frac{1}{4}$ inches, depth 16 feet, screen at 14 to 16. Highest water level 4.04 below lsd, Mar. 21, 1938; lowest 9.39 below lsd, Feb. 15, 1951. Records available: 1935-51.

Jan. 18	9.28	Apr. 18	7.62	July 16	7.75	Oct. 18	8.12
Feb. 15	9.39	May 15	7.32	Aug. 15	8.05	Nov. 13	7.69
Mar. 14	9.17	June 18	7.56	Sept. 18	8.20	Dec. 17	7.72

Cr Gr 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 10 feet, open bottom. Land-surface datum is 1,144.09 feet above msl. Highest water level 4.03 below lsd, June 1, 1943; lowest 8.33 below lsd, Sept. 8, 9, 1946. Records available: 1942-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.70	6.79	5.89	4.80	5.03	5.62	6.28	6.96	7.30	6.66	5.81	5.72
2	6.70	6.79	5.95	4.81	5.11	5.54	6.32	7.00	7.31	6.61	5.84	5.68
3	6.63	6.80	5.96	4.84	4.80	5.57	6.37	7.04	7.34	6.60	5.85	5.68
4	6.55	6.80	5.94	4.89	4.89	5.64	6.06	7.07	7.38	6.57	5.87	5.68
5	6.57	6.82	5.97	4.82	5.00	5.71	5.62	7.10	7.41	6.55	5.93	5.66
6	6.57	6.83	5.96	4.71	5.10	...	5.71	7.14	7.43	6.55	5.98	...
7	6.58	6.80	5.85	4.69	5.17	...	5.83	7.15	7.45	6.56	5.99	5.60
8	6.57	6.83	5.79	4.67	5.21	5.84	5.90	7.15	7.47	6.46	6.00	5.61
9	6.57	6.84	5.81	4.77	5.25	5.88	5.81	7.18	7.48	6.34	6.04	5.65
10	6.58	6.87	5.86	4.83	5.31	5.59	5.91	7.22	7.50	6.32	6.04	5.69
11	6.61	6.86	5.88	4.93	5.34	5.66	5.98	7.25	7.40	6.31	6.00	5.70
12	6.63	6.86	5.90	5.00	5.36	5.77	6.03	7.29	7.38	6.33	5.95	5.74
13	6.66	6.88	5.92	4.71	5.41	5.84	6.10	7.32	7.40	6.37	5.70	5.79
14	6.66	6.89	5.93	4.71	5.45	5.90	6.17	7.34	7.42	6.39	5.20	5.83
15	6.64	6.89	5.92	4.85	5.48	5.96	6.24	7.37	7.44	6.40	5.09	5.84
16	6.68	6.89	5.93	4.96	5.51	6.00	6.31	7.39	7.44	6.43	5.13	5.87
17	6.68	6.86	5.92	5.05	5.45	6.05	6.35	7.42	7.42	6.46	5.22	5.91
18	6.70	6.86	5.84	5.13	5.48	6.10	6.41	7.41	7.42	6.49	5.30	5.90
19	6.71	6.84	5.81	5.12	5.54	5.94	6.45	7.43	7.45	6.32	5.37	5.94
20	6.71	6.56	5.81	4.93	5.57	5.84	6.50	7.45	7.48	6.12	5.44	5.95
21	6.73	6.48	5.86	5.05	5.54	...	6.56	7.32	7.50	6.10	5.49	5.96
22	6.75	6.45	5.90	5.07	5.59	5.81	6.56	7.06	7.51	6.09	5.52	5.98
23	6.74	6.44	5.93	5.09	5.59	5.85	6.60	7.04	7.34	6.10	5.54	6.01
24	6.73	6.42	5.95	5.18	5.62	5.96	6.65	7.08	7.28	6.03	5.57	6.02
25	6.75	6.37	6.03	5.15	5.66	6.02	6.69	...	7.24	5.56	5.63	6.04
26	6.76	6.31	6.07	4.45	5.69	6.08	6.75	7.19	7.22	5.50	...	6.05
27	6.77	6.01	6.09	4.61	5.61	6.10	6.80	7.19	7.10	5.57	5.71	6.07
28	6.78	5.91	5.83	4.75	5.55	6.15	6.78	7.22	6.85	5.60	5.73	6.08
29	6.78		5.58	4.79	5.34	6.18	6.83	7.25	6.78	5.68	5.76	6.07
30	6.78		5.21	4.93	5.41	6.23	6.88	7.30	6.75	5.72	5.76	6.09
31	6.79		4.75		5.53		6.92	7.33		5.75		6.11

Cr Gr 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 19.92 below lsd, May 26-28, 1951; lowest 22.39 below lsd, July 23, 1949. Records available: 1949-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.80	.....	21.98	21.82	20.22	19.94	20.33	.....	20.82	21.00	.....	20.66
2	21.80	21.96	21.97	21.76	20.20	19.95	20.36	.....	20.83	20.99	20.93	20.65
3	21.80	21.97	21.96	21.69	20.17	19.95	20.38	20.60	20.83	20.99	.....	20.65
4	21.80	21.97	21.95	21.59	20.15	19.95	20.39	20.61	20.84	20.99	.....	20.64
5	21.81	21.98	21.95	21.51	20.10	19.97	20.39	20.61	20.85	20.99	.....	20.64
6	21.82	21.98	21.95	21.43	20.10	19.98	20.37	20.62	20.85	21.01	.....	20.64
7	21.82	21.98	21.95	21.34	20.08	19.98	20.35	20.62	20.85	21.01	.....	20.62
8	21.82	21.98	21.95	21.27	20.05	20.00	20.33	20.63	20.89	21.01	.....	20.62
9	21.82	21.99	21.95	21.21	20.04	20.03	20.32	20.64	20.90	21.01	20.78	20.62
10	21.83	22.01	21.95	21.15	20.03	20.04	20.32	20.65	20.90	.....	20.78	20.62
11	21.83	22.01	21.95	21.07	20.00	20.05	20.35	20.67	20.90	.....	20.78	20.61
12	21.84	22.01	21.95	20.98	19.97	20.07	20.35	20.68	20.90	21.01	20.79	20.61
13	21.87	22.02	21.95	20.90	19.96	20.08	20.38	20.70	20.90	21.02	20.78	20.61
14	21.87	22.02	21.94	20.82	19.96	20.11	20.38	20.71	20.90	21.02	20.76	20.62
15	21.87	22.03	21.94	20.77	19.96	20.13	20.39	20.72	20.92	21.02	20.76	20.62
16	21.87	22.03	21.95	20.74	19.95	20.17	20.39	20.74	20.92	21.02	20.76	20.62
17	21.87	22.04	21.94	20.68	19.95	20.18	20.41	20.75	20.92	21.02	20.74	20.62
18	21.88	22.04	21.95	20.65	19.95	20.19	20.42	20.76	20.92	21.03	20.73	.....
19	21.88	22.05	21.95	20.59	19.94	20.21	e20.43	20.77	20.93	21.04	20.72	.....
20	21.90	22.05	21.94	20.55	19.94	20.21	e20.44	20.77	20.94	21.04	20.72	.....
21	21.90	22.05	21.94	20.52	19.93	20.21	20.44	20.78	20.94	21.03	20.72	20.62
22	21.91	22.05	21.94	20.48	19.93	20.22	20.44	20.78	20.97	21.03	20.70	20.62
23	21.91	22.05	21.94	20.45	19.93	20.24	20.46	20.78	20.97	21.03	20.70	20.65
24	21.91	22.05	21.93	20.43	19.93	20.25	e20.48	20.78	20.97	21.03	20.69	20.65
25	21.91	22.05	21.94	20.40	19.93	20.26	e20.49	20.79	20.97	21.02	20.69	20.67
26	21.92	22.05	21.94	20.37	19.92	20.26	e20.51	20.79	.....	20.99	20.68	20.67
27	21.94	22.04	21.94	20.34	19.92	20.26	e20.52	20.80	.....	20.97	20.68	20.68
28	21.94	22.03	21.94	20.29	19.92	20.27	.....	20.80	20.98	20.93	20.67	20.68
29	21.94	.....	21.93	20.26	19.93	20.30	.....	20.80	21.00	20.93	20.67	20.69
30	21.95	.....	21.90	20.24	19.93	20.32	.....	20.80	21.00	.....	20.67	20.70
31	.....	.....	21.88	.....	19.93	.....	.....	20.80	.....	.....	.....	20.70

Cr Gr 12. State Dept. of Conservation. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 27 N., R. 3 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 4 inches, depth 174 feet. Highest water level 14.77 below lsd, Apr. 29, 1951; lowest 16.46 below lsd, Nov. 9-14, 1949. Records available: 1949-51. Measurement discontinued.

Daily 2 a. m. water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	16.06	16.17	15.94	15.38	14.79	15.05
2	16.06	16.17	15.93	15.32	14.79	15.05
3	16.06	16.18	15.90	15.25	14.80	15.03
4	16.05	16.18	15.88	15.21	14.81	15.04
5	16.06	16.19	15.88	15.19	14.83	15.05
6	16.06	16.19	15.87	15.14	14.85	15.05
7	16.06	16.19	15.85	15.11	14.86	15.06
8	16.06	16.20	15.83	15.07	14.87	15.07
9	16.06	16.21	15.81	15.05	14.88	15.07
10	16.07	16.21	15.81	15.03	14.92	15.00
11	16.08	16.21	15.80	15.02	14.92	14.99
12	16.09	16.21	15.79	15.00	14.94	14.98
13	16.10	16.22	15.78	14.97	14.96	14.98
14	16.10	16.22	15.78	14.96	14.98	15.00
15	16.09	16.23	15.78	14.94	14.99	15.01
16	16.10	16.23	15.78	14.94	14.99	15.02
17	16.11	16.23	15.78	14.94	15.00	15.05
18	16.11	16.23	15.78	14.94	15.02	15.06
19	16.12	16.24	15.77	14.94	15.03	.....
20	16.12	16.23	15.76	14.95	15.03	.....
21	16.13	16.21	15.76	14.95	15.00	.....
22	16.13	16.20	15.76	14.93	15.01	.....
23	16.13	16.19	15.76	14.94	15.02	.....
24	16.14	16.17	15.75	14.95	15.03	.....
25	16.14	16.16	15.77	14.95	15.03	.....

Cr Gr 12--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June
26	16.15	16.15	15.78	14.86	15.05	.....
27	16.15	16.08	15.78	14.81	15.05	.....
28	16.16	16.01	15.76	14.78	15.06	.....
29	16.16		15.70	14.77	15.05	.....
30	16.16		15.62	14.78	15.04	.....
31	16.17		15.48		15.04	.....

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

Lovells Township

Cr Lv 1. State Dept. of Conservation. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 27 N., R. 1 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 13 feet, screen at 10 to 13. Highest water level 1.55 below lsd, July 11, 1943; lowest 5.64 below lsd, Mar. 10, 1936. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	5.03	Apr. 18	2.94	July 16	3.23	Oct. 18	4.20
Feb. 15	5.22	May 15	2.47	Aug. 15	3.91	Nov. 13	3.64
Mar. 14	4.57	June 18	2.94	Sept. 18	4.20	Dec. 17	3.67

Cr Lv 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 at 10 to 13. Highest water level 3.62 below lsd, Apr. 16, 1943; lowest 6.19 below lsd, Mar. 12, 1947. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	5.58	Apr. 18	3.79	July 16	4.50	Oct. 18	5.08
Feb. 15	5.70	May 15	3.79	Aug. 15	4.92	Nov. 13	4.73
Mar. 14	5.16	June 18	4.29	Sept. 18	5.09	Dec. 17	4.83

Cr Lv 6. State Dept. of Conservation. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 28 N., R. 2 W. Driven unused observation water-table well, diameter 2 inches, depth 9 feet, screen at 6 to 9. Highest water level 1.33 below lsd, Apr. 17, 1947; lowest 4.92 below lsd, Oct. 13, 1949. Records available: 1933, 1935-37, 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	3.96	Apr. 18	2.13	July 16	3.29	Oct. 18	2.87
Feb. 15	4.11	May 15	2.49	Aug. 15	3.96	Nov. 13	2.73
Mar. 14	3.23	June 18	3.15	Sept. 18	3.77	Dec. 17	2.73

South Branch Township

Cr Sb 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 31.86 below lsd, July 4, 1951; lowest 35.97 below lsd, Apr. 4-6, 1951. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.48	35.64	35.79	35.96	e34.49	32.45	31.90	32.22	32.53	32.81	33.13	33.02
2	35.48	35.64	35.81	35.96	e34.42	32.41	31.93	32.23	32.53	32.79	33.13	33.02
3	35.48	35.65	35.81	35.96	34.32	32.36	31.94	32.20	32.54	32.81	33.11	33.01
4	35.48	35.66	35.82	35.97	34.25	32.33	31.86	32.28	32.58	32.84	33.09	32.95
5	35.50	35.67	35.82	35.97	34.17	32.31	31.94	32.29	32.56	32.84	33.12	32.99
6	35.50	35.67	35.83	35.97	34.11	32.26	31.96	32.27	32.53	32.88	33.15	32.95
7	35.51	35.67	35.83	35.96	34.03	32.23	31.95	32.23	32.60	32.85	33.06	32.92
8	35.51	35.68	35.84	35.94	33.95	32.19	31.91	32.25	32.61	32.86	33.06	32.98
9	35.52	35.69	35.85	35.92	33.88	32.15	31.92	32.26	32.61	32.90	33.11	32.96
10	35.53	35.70	35.85	35.88	33.83	32.12	31.96	32.31	32.59	32.92	33.12	32.96
11	35.53	35.70	35.86	35.85	33.74	32.10	32.00	32.32	32.63	32.91	33.15	32.89
12	35.54	35.70	35.86	35.81	33.67	32.09	32.00	32.35	32.64	32.93	33.11	32.89
13	35.55	35.71	35.86	35.74	33.62	32.06	32.01	32.36	32.62	32.96	33.06	32.91
14	35.52	35.72	35.86	35.69	33.56	32.05	32.02	32.36	32.66	32.95	33.01	32.95
15	35.54	35.73	35.87	35.64	33.48	32.03	32.02	32.36	32.68	32.91	33.06	32.88
16	35.56	35.73	35.88	35.59	33.41	32.01	32.02	32.35	32.69	32.96	33.14	32.92
17	35.56	35.73	35.89	35.53	33.34	31.99	32.05	32.38	32.69	32.98	33.14	32.90
18	35.57	35.74	35.89	35.46	33.28	31.98	32.05	32.39	32.71	32.98	33.12	32.84
19	35.58	35.74	35.90	35.39	33.20	31.96	32.04	32.41	32.71	32.96	33.15	32.88
20	35.58	35.75	35.90	35.33	33.12	31.93	32.06	32.41	.....	33.00	33.16	32.84

Cr Sb 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	35.59	35.75	35.90	35.26	33.05	31.96	32.05	32.36	.....	32.98	33.11	32.79
22	35.60	35.77	35.91	35.18	33.00	31.94	32.09	32.44	.....	33.00	33.06	32.80
23	35.60	35.77	35.91	35.12	32.93	31.92	32.13	32.47	32.76	33.03	33.08	32.85
24	35.60	35.78	35.90	35.05	32.86	31.92	32.14	32.48	.....	32.97	33.09	32.85
25	35.61	35.78	35.92	34.97	32.81	31.96	32.14	32.47	.....	33.04	33.12	32.85
26	35.61	35.78	35.93	34.89	32.74	31.92	32.15	.....	.....	33.04	33.01	32.81
27	35.62	35.79	35.93	34.82	32.66	31.90	32.16	32.47	.....	33.05	33.11	32.83
28	35.62	35.80	35.93	34.73	32.63	31.90	32.17	32.47	32.83	33.02	33.03	32.79
29	35.62		35.94	e34.64	32.60	31.90	32.19	32.49	32.84	33.10	33.07	32.74
30	35.63		35.94	e34.57	32.55	31.89	32.20	32.50	32.82	33.09	33.05	32.74
31	35.64		35.94		32.51		32.18	32.45		33.06		32.76

e Estimated.

Eaton County

City of Charlotte

Ea CH 1. City of Charlotte. U. S. Highway 27 and Territorial Road, Charlotte. Dug unused water-table well in deposits of Pleistocene age, diameter 20 feet, depth 25 feet, cribbed with brick to open bottom. Highest water level 8.04 below lsd, Apr. 7, 1947; lowest 15.77 below lsd, Jan. 2, 1948. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	13.84	May 17	11.21	July 27	12.95	Oct. 26	12.85
Feb. 28	12.46	June 4	11.82	Aug. 30	13.49	Nov. 30	12.38
Apr. 18	11.20	21	12.24	Sept. 28	14.24		

City of Grand Ledge

Ea GL 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. Measurements made by the Water Dept. Highest water level 21.34 below lsd, May 5, 14, 1950; lowest 28.79 below lsd, Dec. 3, 1949. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.40	25.25	24.45	24.70	25.02	24.58	24.18	.....	25.64	25.97	26.34	26.23
2	25.33	25.42	24.87	24.77	24.96	24.46	24.31	25.30	25.69	25.84	26.37	26.23
3	24.99	25.56	24.57	24.74	24.72	24.40	24.31	25.04	25.74	25.89	26.26	26.22
4	24.92	25.31	24.65	24.71	24.67	24.30	24.01	25.44	25.82	26.00	26.08	25.99
5	25.29	25.46	24.79	24.89	24.66	24.40	24.26	25.48	25.76	26.05	26.58	26.14
6	25.10	25.45	24.65	24.89	.....	24.54	24.39	25.38	25.43	26.24	26.66	26.03
7	25.22	25.52	24.54	24.69	.....	24.46	24.29	25.10	25.67	26.15	26.04	25.99
8	24.97	.....	24.63	24.57	.....	24.37	24.13	25.19	25.82	26.20	26.33	26.26
9	25.05	.....	24.80	24.72	.....	24.25	24.12	25.23	25.69	26.24	26.48	26.14
10	25.18	.....	24.96	24.70	24.90	24.18	24.36	25.42	25.51	26.30	26.49	26.24
11	25.10	.....	24.85	24.85	24.60	24.18	.....	25.46	25.53	26.17	26.50	25.92
12	25.33	.....	24.62	24.60	24.65	24.26	24.38	25.44	25.69	26.26	26.47	.....
13	25.42	25.71	24.34	24.52	24.85	24.19	24.44	25.49	25.55	26.45	26.26	26.05
14	25.06	25.85	24.29	24.65	24.89	24.27	24.45	25.53	25.70	26.37	26.01	26.16
15	24.70	25.79	24.30	24.64	24.80	24.26	24.59	25.49	25.79	26.21	26.17	26.36
16	25.20	25.46	24.44	24.87	24.65	24.19	24.61	25.37	25.82	26.30	26.25	26.21
17	25.11	.....	24.67	24.97	24.63	24.33	24.71	25.52	25.79	26.34	26.33	26.16
18	25.23	.....	24.64	25.04	24.62	24.35	24.66	25.47	25.79	26.39	26.30	26.15
19	25.23	.....	24.63	24.88	24.59	24.39	24.56	25.59	25.78	26.38	26.37	25.95
20	25.18	25.03	24.59	.....	24.00	24.29	24.71	25.58	25.85	26.43	26.44	26.26
21	25.45	24.75	24.63	.....	24.00	24.51	24.68	25.26	25.77	26.31	26.30	.....
22	25.69	25.02	24.70	.....	24.45	24.44	24.66	25.61	25.70	26.35	26.14	.....
23	25.30	24.97	24.48	.....	.....	24.43	24.92	25.73	25.87	26.48	26.20	.....
24	25.26	24.99	24.31	.....	24.50	24.40	24.92	25.70	25.90	26.15	26.29	.....
25	25.36	24.78	24.78	24.87	24.42	24.54	.....	25.61	25.83	26.44	26.44	.....
26	25.42	24.54	24.96	25.19	24.35	.....	25.15	25.46	25.93	26.31	26.07	.....
27	25.24	24.59	24.74	25.23	24.29	24.25	25.12	25.37	25.57	26.25	26.43	.....
28	25.51	24.86	24.72	24.87	24.09	24.22	25.15	25.41	25.94	26.00	26.11	.....
29	25.51		24.62	24.81	24.27	24.29	25.27	25.50	26.16	26.22	26.37	.....
30	25.68		24.50	25.00	24.46	24.15	25.31	25.51	26.03	26.14	26.29	.....
31	25.45		24.68		24.50		25.16	25.42		26.14		.....

Delta Township

Ea Dt 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 about 860 feet above msl. Highest water level 31.28 below lsd, May 27, 1948; lowest 34.78 below lsd, Dec. 29, 1949. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	33.69	May 26	32.62	Aug. 27	34.18	Oct. 26	33.98
Feb. 27	33.45	June 25	32.93	Sept. 27	33.82	Dec. 1	33.90
Mar. 31	33.09	July 30	33.35	Oct. 4	33.85	31	33.69
Apr. 28	32.84						

Ea Dt 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 about 855 feet above msl. Highest water level 5.87 below lsd, May 21, 1948; lowest 16.15 below lsd, Jan. 18, 1947. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	10.19	Apr. 28	6.52	July 30	11.85	Oct. 26	13.75
Feb. 27	8.58	May 26	8.37	Aug. 27	12.80	Dec. 1	12.13
Mar. 31	8.34	June 25	9.86	Sept. 27	13.31	31	11.09

Genesee County

City of Flint

Ge FL 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 57.22 below lsd, Oct. 5, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	54.14	Apr. 30	53.60	July 25	56.29	Oct. 31	55.81
Feb. 26	53.18	May 25	54.07	Aug. 28	55.89	Dec. 26	55.25
Mar. 29	53.68	June 22	54.78	Sept. 26	55.88		

Ge FL 354. City of Flint. Atherton Road 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 5.10 below lsd, Aug. 29, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	2.12	Apr. 30	2.25	July 25	4.78	Oct. 31	3.81
Feb. 26	2.36	May 25	2.46	Aug. 28	4.65	Nov. 27	3.31
Mar. 29	2.94	June 22	3.26	Sept. 26	4.30		

Ge FL 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 31.89 below lsd, Aug. 20, 1949. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.36	26.21	25.88	25.60	25.67	26.79	28.84	30.38	30.18	28.75	27.41	26.54
2	26.19	26.26	26.13	25.59	25.72	27.02	28.99	30.45	30.26	28.53	27.49	26.59
3	25.98	26.32	26.12	25.58	25.71	27.12	28.85	30.28	30.15	28.50	27.35	26.53
4	25.80	26.20	26.02	25.60	25.82	27.12	28.78	30.27	30.05	28.52	27.17	26.30
5	26.08	26.21	26.11	25.75	25.88	27.34	28.98	.....	29.86	28.50	27.36	26.31
6	26.00	26.22	26.01	.....	25.88	27.32	28.93	.....	29.73	28.66	27.37	26.18
7	26.04	25.99	25.94	.....	25.74	27.30	28.92	.....	29.76	28.68	.....	26.20
8	25.86	26.25	26.12	.....	25.65	27.30	29.08	.....	29.85	28.51	.....	26.50
9	25.90	26.40	26.17	.....	25.72	27.29	29.15	29.45	29.77	28.51	.....	26.54
10	25.90	26.50	26.28	.....	25.94	27.26	29.01	29.47	29.61	28.53	.....	26.52
11	25.90	26.29	26.19	.....	25.86	27.47	29.24	29.58	29.44	28.45	.....	26.34
12	26.10	26.22	26.05	.....	25.83	27.44	29.21	29.60	29.44	28.49	26.72	26.35
13	26.23	25.66	25.86	.....	26.05	27.37	29.07	29.70	29.52	28.50	26.72	26.53
14	26.09	26.36	25.76	.....	.....	27.47	29.03	29.68	29.66	28.36	26.57	26.71
15	25.83	26.47	25.70	.....	.....	27.51	29.16	29.78	29.65	28.11	26.75	26.54
16	26.04	26.39	25.75	25.56	.....	27.50	29.35	29.78	29.65	28.08	26.94	26.78
17	26.02	25.98	25.90	25.57	.....	27.55	29.28	29.79	29.59	28.01	27.03	26.74
18	26.09	26.20	25.86	25.61	.....	27.84	29.46	29.73	29.35	28.03	27.02	26.44
19	26.12	26.00	25.77	25.53	.....	28.20	29.45	29.66	29.26	27.95	26.98	26.69
20	26.14	26.12	25.68	25.76	.....	28.21	29.64	29.56	29.31	28.01	26.94	26.68

Ge FL 491--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	26.19	26.16	25.69	25.82	.....	28.50	29.68	29.38	29.25	27.76	26.91	26.52
22	26.38	26.24	25.77	25.51	.....	28.59	29.52	29.51	29.23	27.72	26.80	26.66
23	26.17	26.24	25.71	25.51	.....	28.26	29.86	29.65	29.27	27.66	26.71	26.74
24	26.15	26.24	25.55	25.46	.....	28.22	29.82	29.65	29.24	27.47	26.70	26.58
25	26.26	26.15	25.85	25.42	26.63	28.33	29.86	29.64	29.06	27.58	26.78	26.70
26	26.29	25.96	25.87	25.49	26.62	28.40	30.10	29.60	29.11	27.57	26.44	26.57
27	26.28	25.82	25.73	25.63	26.60	28.33	30.29	29.53	28.88	27.48	26.66	26.68
28	26.42	26.06	25.59	25.56	26.59	28.54	30.38	29.51	28.97	27.32	26.60	26.69
29	26.41		25.50	25.48	26.59	28.67	30.48	29.64	29.11	27.36	26.64	26.58
30	26.44		25.44	25.61	26.59	28.71	30.60	29.82	28.96	27.28	26.62	26.61
31	26.40		25.51		26.68		e30.46	30.01		27.21		26.74

e Estimated.

Ge FL 500. Consumers Power Co. E. 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 25.40 below lsd, Sept. 3, 1949. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.75	20.79	20.21	19.92	20.03	21.52	22.81	23.90	24.07	23.81	22.96	21.80
2	20.62	20.82	20.33	19.82	20.09	21.50	22.87	23.96	24.11	23.70	22.95	21.73
3	20.41	20.91	20.30	19.79	20.10	21.52	22.93	23.89	24.12	23.65	22.90	21.63
4	.....	20.86	20.27	19.77	20.17	21.53	.....	24.00	24.11	23.68	22.74	21.49
5	.....	20.84	20.31	19.84	20.25	21.59	.....	24.02	24.10	23.65	22.77	21.51
6	.....	20.85	20.28	19.91	20.34	21.62	23.00	23.98	24.06	23.68	22.77	21.48
7	20.61	20.67	20.24	19.90	20.37	21.67	23.03	23.88	24.10	23.64	.....	21.44
8	20.59	20.85	20.29	19.83	20.36	21.73	23.00	.....	24.22	23.46	.....	21.58
9	20.56	20.99	20.35	19.79	20.45	21.74	22.92	23.93	24.18	23.44	.....	21.50
10	20.52	21.07	20.44	19.75	20.60	21.75	22.98	23.97	24.09	23.45	.....	21.42
11	20.52	20.96	20.42	19.79	20.59	21.78	23.09	23.99	24.01	23.45	.....	21.32
12	20.63	20.90	20.31	19.75	20.60	21.85	23.15	23.98	24.07	23.45	22.09	21.27
13	20.72	20.91	20.20	19.72	20.72	21.89	23.22	23.96	24.08	23.52	22.10	21.32
14	20.67	21.03	20.17	19.75	20.78	21.96	23.26	23.97	24.14	23.50	21.90	21.43
15	20.50	21.08	20.15	19.76	20.82	22.01	23.25	24.03	24.17	23.36	22.07	21.39
16	20.59	20.97	20.19	19.83	20.87	22.02	23.22	23.98	24.12	23.30	22.13	21.47
17	20.60	20.85	20.24	19.82	20.96	22.05	23.34	24.06	24.10	23.34	22.17	21.45
18	20.65	20.84	20.21	19.88	21.06	22.07	23.34	24.07	24.07	23.38	22.12	21.27
19	20.68	20.69	20.10	19.79	21.15	.....	23.37	24.07	24.07	23.37	22.05	21.35
20	20.70	20.66	20.05	19.90	21.14	22.17	23.46	24.03	24.11	23.44	22.00	21.34
21	20.68	20.59	20.02	19.96	21.08	22.33	23.52	23.89	24.07	23.39	22.00	21.17
22	20.67	20.62	20.05	19.78	21.16	22.41	23.49	23.96	24.05	23.29	21.95	21.24
23	20.56	20.60	20.04	19.79	21.18	22.40	23.53	24.03	24.03	23.26	21.87	21.35
24	20.54	20.58	19.95	19.77	21.27	22.49	23.59	24.07	24.00	23.07	21.86	21.32
25	20.63	20.47	20.09	19.74	21.29	22.52	23.74	24.04	23.88	23.11	21.86	21.33
26	20.68	20.35	20.09	19.74	21.33	22.52	23.80	24.02	23.93	23.26	21.59	21.16
27	20.72	20.27	20.04	e19.87	21.29	22.51	23.89	23.94	23.83	23.18	21.74	21.22
28	20.79	20.37	20.00	e19.88	21.29	22.61	23.87	23.94	23.92	22.98	21.73	21.20
29	20.83		19.97	e19.88	21.38	22.71	23.91	23.97	24.01	22.93	21.81	21.10
30	20.87		19.90	19.95	21.49	22.78	23.91	24.01	23.96	22.82	21.80	21.08
31	20.89		19.90		21.50		23.88	23.98		22.86		21.14

e Estimated.

Burton Township

Ge Bu 301. City of Flint. Hemphill Rd. and Saginaw St. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 2 inches, depth 153 feet. Land-surface datum is 781.45 feet above msl. Highest water level 20.63 below lsd, June 2, 1947; lowest 25.81 below lsd, Aug. 28, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	22.62	Apr. 30	23.36	Aug. 9	25.58	Oct. 31	25.14
Feb. 26	23.36	May 25	23.36	28	25.81	Nov. 27	24.53
Mar. 29	22.88	June 22	24.17	Sept. 26	25.43	Dec. 26	24.32

Ge Bu 303. Fred Kreft. Formerly Clifford Clute. 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: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.61	2.48	.....	e0.69	1.10	2.24	2.69	3.26	3.33	3.74	2.16	1.36
2	2.56	2.56	.....	e.59	1.30	.38	2.80	3.35	3.35	3.60	2.23	1.42
3	.....	2.60	.....	.....	.87	.99	2.90	3.41	3.45	3.23	2.24	1.55
4	.45	2.60	.....	.71	1.19	.81	2.90	3.44	3.57	3.37	2.23	1.03
5	.77	2.63	1.02	e.87	1.47	1.24	2.97	3.50	3.60	3.49	2.42	.70
6	1.02	2.69	.76	.56	1.70	1.51	3.05	3.53	3.62	3.58	2.50	.88
7	1.21	2.45	.85	1.03	1.82	1.72	3.13	3.51	3.36	3.54	2.35	1.01
8	e1.50	2.38	.86	1.12	1.91	1.93	3.51	3.48	3.48	2.47	1.77	1.28
9	e1.78	2.45	.....	.....	2.01	2.04	3.23	3.56	3.49	2.68	1.68	1.32
10	1.99	2.48	.....	e.63	2.13	1.88	3.12	3.65	3.55	2.86	1.48	1.37
11	2.06	2.48	.....	.79	.91	2.14	3.20	3.71	3.23	2.90	.71	1.45
12	2.13	2.48	.15	.92	1.23	2.31	3.07	3.98	3.35	3.01	.89	1.47
13	2.19	.....	.....	1.11	1.57	2.42	.....	3.81	3.52	3.14	.47	1.71
14	2.15	.....	.....	.97	1.80	2.49	3.16	3.80	3.50	3.14	.27	1.93
15	2.11	.....	.....	.....	1.97	2.53	3.23	3.81	3.60	3.15	.94	1.96
16	2.26	.....	.....	.....	2.09	.....	.....	3.41	3.63	3.25	1.19	2.06
17	2.18	.....	.....	.....	2.12	.....	.....	3.44	3.61	3.27	1.30	2.12
18	2.04	.....	.....	.....	2.16	.....	.....	3.48	3.64	.....	1.33	2.05
19	1.53	1.11	.20	.....	2.25	.....	3.36	3.58	3.69	.....	1.47	2.11
20	1.49	.....	.....	.....	2.32	2.40	3.43	3.59	3.78	3.30	1.64	2.14
21	1.01	.....	.....	.....	1.37	2.46	3.46	3.61	3.82	3.30	1.73	.....
22	.....	.....	.....	.....	1.51	2.48	3.25	3.53	3.87	3.31	1.68	.....
23	.....	.....	.....	.....	.78	1.26	3.21	3.64	3.76	3.36	1.11	2.09
24	e1.74	.....	.....	.....	1.41	1.75	3.25	3.69	3.81	.31	1.29	2.15
25	1.80	.....	.....	.....	1.58	2.03	3.33	3.76	3.82	1.03	1.63	2.19
26	e1.87	1.00	.20	.....	1.85	2.22	3.42	3.77	.....	1.41	1.64	2.18
27	1.87	.....	.....	.50	1.85	2.35	3.49	3.78	3.75	1.64	1.79	2.15
28	e1.89	.....	.....	.....	1.63	2.46	3.05	3.80	3.91	.....	1.85	2.18
29	e2.15	.....	.59	.60	1.82	2.53	3.02	3.89	4.01	1.89	1.90	2.07
30	2.45	.....	.51	.92	2.02	2.62	3.12	3.81	3.97	1.96	1.47	1.55
31	2.48	.....	.56	.....	2.19	.....	3.20	3.78	.....	2.00	.....	1.27

e Estimated.

Gladwin County

City of Beaverton

Gw BV 1. City of Beaverton. Third and Main Sts. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 93 feet. Measurements made by City Engineer. Highest water level 30.40 below lsd, Apr. 26, 1951; lowest 49.35 below lsd, June 26, 1950. Records available: 1950-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.39	.....	.....	.....	30.83	31.94	.....	.....	42.34	44.89	31.90	32.44
2	32.47	32.66	31.50	30.79	31.00	31.77	32.42	46.43	.....	.....	31.44	.....
3	32.37	32.31	30.65	30.68	46.44	.....	34.00	32.64	37.35	32.23	33.00	32.05
4	32.50	.....	.....	46.22	46.13	31.85	46.70	46.12	33.76	.....	.....	32.26
5	32.40	32.47	31.44	31.06	31.17	44.26	32.64	.....	.....	33.25	33.37	43.60
6	32.42	32.42	30.52	31.04	.....	32.04	36.32	32.51	33.95	43.19	32.45	43.50
7	.....	.....	30.63	31.02	31.24	31.87	36.32	32.64	32.42	.....	37.70	31.96
8	32.17	32.55	45.92	.....	31.29	32.08	.....	34.15	45.14	44.27	44.54	31.96
9	32.18	32.54	30.65	31.95	.....	.....	32.17	32.33	.....	32.28	44.05	.....
10	.....	32.40	30.73	30.72	31.51	.....	32.34	34.00	32.42	44.48	44.46	32.52
11	.....	.....	.....	30.70	46.56	32.18	32.32	45.39	32.24	44.50	.....	43.55
12	32.49	.....	30.93	30.69	31.64	32.22	32.93	.....	32.23	32.47	34.26	31.25
13	32.38	32.35	31.00	30.63	.....	31.95	32.50	.....	32.25	33.86	44.20	43.78
14	.....	.....	46.83	31.00	31.71	32.41	.....	.....	42.57	.....	31.44	32.24
15	32.44	32.30	31.73	.....	.....	46.49	.....	.....	45.05	32.20	31.17	43.05
16	32.42	32.29	31.40	30.96	.....	32.32	32.58	.....	.....	43.38	31.30	.....
17	32.38	32.53	31.31	30.98	32.60	.....	46.71	.....	32.39	32.30	31.55	43.60
18	32.31	.....	.....	31.10	32.40	46.39	32.68	.....	45.19	32.31	.....	.....
19	32.40	.....	31.81	46.51	32.00	32.74	32.68	.....	32.68	32.30	43.13	43.90
20	.....	32.11	47.10	31.25	.....	32.23	32.09	32.82	32.83	32.11	43.71	32.74
21	.....	32.29	45.79	31.40	32.20	33.00	.....	44.63	32.67	.....	31.78	.....
22	.....	31.68	32.57	.....	31.95	32.81	.....	.....	32.49	32.21	32.09	32.52
23	.....	32.03	31.37	31.37	31.20	32.16	32.46	45.35	.....	.....	31.81	.....
24	.....	31.30	.....	31.35	31.82	.....	32.21	32.57	33.80	36.30	43.98	.....
25	.....	.....	.....	31.24	31.77	32.44	32.34	45.34	33.71	31.47	.....	32.58

Gw BV 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	32.64	30.90	47.00	30.40	46.27	33.50	32.33	.....	32.39	31.28	33.74	.....
27	32.53	30.60	47.27	30.69	.....	32.60	.....	32.55	38.86	31.50	43.91	43.65
28	.....	30.47	31.36	.....	31.67	32.72	46.23	33.27	32.17	.....	44.11	33.49
29	32.46		31.35	.....	31.63	32.44	.....	32.24	44.80	43.86	44.10	41.50
30	32.44		30.90	30.76	32.10	46.19	32.54	32.24	.....	43.89	32.30	.....
31	.....		46.15		31.87		46.10	.....		32.29		32.47

Grand Traverse County

Blair Township

Gv Br 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, 1948-51. Oct. 30, 1.32.

Fife Lake Township

Gv Ff 6. State Dept. of Conservation. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 25 N., R. 9 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 2 inches, depth 17 feet, open bottom. Land-surface datum is 1,017.85 feet above msl. Highest water level 3.23 below lsd, May 8, 1951; lowest 5.37 below lsd, Sept. 20, 1944. Records available: 1934-37, 1941-44, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	4.39	May 8	3.23	Aug. 6	3.95	Oct. 8	4.05
Mar. 8	4.20	June 5	3.49	Sept. 25	4.20	Dec. 13	3.96
Apr. 10	3.70	July 12	3.69				

Gv Ff 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, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	13.71	Apr. 10	13.85	July 12	11.60	Oct. 8	12.30
Feb. 12	13.90	May 8	12.53	Aug. 6	11.78	Dec. 13	12.58
Mar. 8	13.99	June 5	11.87	Sept. 25	12.21		

Mayfield Township

Gv My 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 2.21 below lsd, Oct. 30, 1951; lowest 6.40 below lsd, Nov. 14, 1935. Records available: 1935-37, 1943-44, 1948-51. Oct. 30, 2.21.

Paradise Township

Gv Pr 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, 1948-51. Oct. 30, 1.15.

Union Township

Gv Un 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 5.11 below lsd, Dec. 19, 1934; lowest 7.87 below lsd, Oct. 11, 1949. Records available: 1934-37, 1941-44, 1948-51. Oct. 30, 5.50.

Whitewater Township

Gv Ww 1. State Dept. of Conservation. SE $\frac{1}{2}$ NW $\frac{1}{2}$ 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 11.93 below lsd, Oct. 30, 1951; lowest 15.62 below lsd, Sept. 10, 1937. Records available: 1934-37, 1941-44, 1948-51. Oct. 30, 11.93.

Gratiot County

City of Alma

Gr AL 54. Leonard Refineries. Formerly Layne Northern Co. NW $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 2, T. T. 11 N., R. 3 W. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 8 inches, depth 130 feet, screen at 120 to 130. Land-surface datum is about 745 feet above msl. Highest water level 25.0 below lsd, Apr. 29, 1948; lowest 72.5 below lsd, Aug. 26, 1950. Records available: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	67.6	66.2	63.5	63.1	59.4	59.5	55.3	....	68.1	....	69.6	68.5
2	67.5	65.6	63.9	63.1	59.3	59.5	55.8	....	68.3	....	69.48	68.4
3	67.1	65.6	63.5	63.0	58.8	59.6	56.3	....	68.5	....	69.3	68.4
4	67.32	65.2	63.5	62.9	58.5	59.7	56.3	....	68.6	....	69.4	68.1
5	67.4	65.2	63.7	63.0	58.5	59.2	57.0	....	67.7	69.5	70.1	68.4
6	67.3	65.3	63.4	62.1	58.3	....	57.5	....	67.4	69.6	....	68.3
7	67.4	64.7	....	62.7	58.2	....	57.7	....	67.6	69.5	....	68.2
8	67.0	65.1	....	62.5	58.0	....	57.8	....	67.8	69.4	....	69.0
9	67.0	....	....	62.4	57.9	....	58.0	....	67.6	69.4	....	68.9
10	66.9	....	....	62.3	57.8	....	58.6	....	67.4	69.5	....	68.9
11	67.0	64.6	....	62.3	....	....	e59.2	....	67.4	69.4	69.5	68.2
12	67.2	64.6	....	62.0	....	....	59.9	....	67.8	69.3	69.8	68.4
13	67.3	64.8	63.0	61.8	....	....	60.1	....	67.7	69.6	69.4	69.0
14	67.0	65.4	62.9	61.8	....	....	60.2	....	67.9	69.5	69.2	69.2
15	66.3	65.4	62.7	61.7	....	....	....	67.6	68.0	69.2	68.7	68.6
16	66.7	65.0	62.7	62.0	....	....	....	67.6	67.1	69.3	69.2	69.4
17	66.7	64.5	62.9	62.1	....	....	....	67.9	67.8	69.2	69.3	69.3
18	66.7	64.5	63.5	....	....	....	....	67.9	67.9	69.5	69.5	68.8
19	66.8	64.2	63.6	62.1	....	....	....	68.0	67.9	69.4	....	69.5
20	66.7	64.3	63.3	61.5	....	....	....	68.1	68.1	69.5	....	68.9
21	66.7	63.9	....	60.4	....	....	....	67.8	68.1	69.4	....	68.5
22	67.4	64.1	....	60.5	....	....	....	68.2	68.1	69.4	....	68.9
23	67.0	64.1	....	60.0	....	....	....	68.4	68.4	69.7	68.95	69.2
24	66.8	64.0	....	59.9	....	....	....	68.3	68.5	69.4	69.1	69.4
25	67.0	64.4	....	59.9	....	....	....	68.2	68.5	69.7	69.2	69.1
26	67.1	....	....	....	....	53.6	60.8	68.0	68.6	69.8	68.6	69.1
27	66.7	64.3	....	60.0	....	54.0	63.5	67.9	68.4	69.7	68.6	69.2
28	66.6	64.8	....	59.6	....	54.3	64.4	67.9	69.8	69.3	68.4	68.7
29	66.7	....	....	59.4	58.9	54.7	65.1	68.2	....	69.6	....	68.4
30	66.8	....	62.6	59.5	59.0	55.0	65.1	68.1	....	69.5	68.46	68.3
31	66.7	....	63.0	....	59.4	....	65.6	64.8	....	69.2	....	68.5

e Estimated.

Gr AL 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 45.64 below lsd, Oct. 27, 1948. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	39.96	Apr. 27	36.20	July 26	47.13	Oct. 30	43.00
Feb. 27	39.14	May 29	37.34	Aug. 29	43.62	Nov. 28	43.28
Mar. 30	39.66	June 26	39.80	Sept. 25	43.56	Dec. 29	41.94

Gr AL 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: 1947-51.

Jan. 30	9.40	June 26	8.93	Sept. 25	9.40	Nov. 28	8.52
Feb. 27	8.79	July 26	9.46	Oct. 30	8.87	Dec. 29	8.73
Apr. 27	7.89	Aug. 29	9.49				

Gr AL 255. Mrs. Mattie J. Patterson. 525 River Ave. Drilled unused artesian well in deposits of Pleistocene age, diameter 2 inches, depth 76 feet. Land-surface datum is 727.19 feet above msl. Highest water level 5.17 below lsd, Apr. 26, 1948; lowest 31.05 below lsd, June 28, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	14.59	Apr. 27	14.64	July 26	23.76	Oct. 30	18.42
Feb. 27	17.38	May 29	14.73	Aug. 29	19.32	Nov. 28	19.32
Mar. 30	25.01	June 26	17.60	Sept. 25	20.51	Dec. 29	16.73

Gr AL 258. Joel R. McCartney. 219 Prospect Ave. Drilled unused artesian well in deposits of Pleistocene age, diameter 2 inches, depth 49 feet. Land-surface datum is about 732.2 feet above msl. Highest water level 7.64 below lsd, Feb. 27, 1951; lowest 32.72 below lsd, July 26, 1951. Records available: 1946-51.

Jan. 30	22.61	Apr. 27	18.38	Aug. 22	25.85	Oct. 30	23.24
Feb. 27	7.64	June 26	24.47	Aug. 29	25.05	Nov. 28	26.58
Mar. 30	19.94	July 26	32.72	Sept. 25	26.98	Dec. 29	22.99

Gr AL 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. Land-surface datum is 738.78 feet above msl. Measurements made by Alma Water Dept. Highest water level 13.74 below lsd, Apr. 7, 1950; lowest 17.56 below lsd, Sept. 11, 1950. Records available: 1950-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.80	16.57	15.04	15.14	14.49	15.83	16.43	17.09	16.17	16.41	15.47	15.14
2	16.81	16.60	15.06	15.05	14.50	15.86	16.47	17.12	16.10	16.37	15.51	15.15
3	16.69	16.62	15.04	14.99	14.49	15.85	16.50	17.14	16.08	16.23	15.55	15.14
4	16.35	16.60	14.90	14.96	14.53	15.86	16.51	.....	16.12	16.18	15.58	15.10
5	16.11	16.64	14.82	14.98	14.61	15.87	16.55	.....	16.20	16.17	15.71	15.02
6	16.03	16.65	14.78	15.00	14.68	15.90	16.58	.....	16.25	16.21	15.80	14.91
7	16.05	16.65	14.76	15.03	14.76	15.94	16.59	.....	.....	16.23	15.79	14.86
8	15.99	16.69	14.76	15.08	14.83	15.97	16.51	.....	16.28	16.01	15.90	14.80
9	16.01	16.72	14.80	.....	14.91	16.00	.....	.....	16.30	15.87	15.95	14.75
10	16.05	16.73	14.85	14.95	15.01	16.05	.....	.....	16.35	15.81	15.93	14.74
11	16.20	16.71	14.86	14.92	15.05	16.09	.....	.....	16.31	15.73	15.89	14.71
12	16.13	16.73	14.90	14.85	15.11	16.13	.....	.....	16.22	15.69	15.85	14.76
13	16.17	16.60	14.95	14.85	15.17	16.16	.....	.....	16.17	15.69	15.76	14.84
14	16.18	16.55	15.02	14.84	15.22	16.20	.....	.....	16.15	15.71	15.40	14.96
15	16.20	16.51	15.04	14.84	15.25	16.23	.....	17.38	16.21	15.74	15.10	15.05
16	16.28	16.46	15.05	14.84	15.29	16.24	.....	17.21	16.31	15.80	14.96	15.20
17	16.26	16.45	15.07	14.84	15.35	16.28	.....	17.06	16.36	15.86	14.85	15.29
18	16.30	16.46	15.02	14.86	15.40	16.32	.....	17.02	16.42	15.90	14.78	15.27
19	16.32	16.37	15.01	14.86	15.43	16.35	.....	16.97	16.47	15.94	14.77	15.38
20	16.30	16.08	15.05	14.87	15.45	16.30	16.96	16.96	16.53	15.96	14.78	15.37
21	16.34	15.74	15.11	14.89	15.50	16.32	.....	16.97	16.58	15.84	14.81	15.36
22	16.32	15.52	15.18	14.83	15.55	16.29	16.99	16.96	16.63	15.88	14.86	15.43
23	16.31	15.41	15.23	14.89	15.59	16.13	17.02	16.99	16.54	15.94	14.92	15.48
24	16.36	15.34	15.25	14.92	15.62	16.10	17.04	.....	16.48	15.85	14.91	15.52
25	16.39	15.28	15.37	14.92	15.65	16.15	17.06	.....	16.42	15.64	14.91	15.54
26	.....	15.22	15.42	14.77	15.68	16.19	.....	.....	16.41	15.65	14.87	15.56
27	16.45	15.14	15.42	14.66	15.70	16.27	17.06	.....	16.30	15.50	14.97	15.60
28	16.48	15.10	15.44	14.57	15.75	16.34	17.06	.....	16.35	15.42	15.01	15.60
29	16.50	.....	15.43	14.51	15.78	16.37	17.06	16.62	16.47	15.39	15.10	15.61
30	16.54	.....	15.27	14.49	15.78	16.40	17.05	16.58	16.42	15.38	15.12	15.64
31	16.56	.....	15.23	.....	15.80	.....	17.06	16.51	.....	15.41	.....	15.66

Village of Ithaca

Gr IH 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 78.67 below lsd, Dec. 29, 1951; lowest 83.96 below lsd, Sept. 4, 1949. Records available: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	79.48	79.09	.....	79.07	79.28	79.50	80.13	.....	.....	80.04	79.92	79.48
2	79.35	79.15	.....	79.12	79.60	79.80	80.46	.....	.....	79.99	79.90	79.47
3	79.10	79.31	.....	79.13	79.17	79.86	80.26	.....	.....	79.95	79.77	79.42
4	79.00	79.14	.....	79.04	79.11	80.56	80.03	.....	80.53	79.99	79.38	79.17
5	79.45	79.20	.....	79.23	79.16	.....	79.99	.....	80.54	80.02	79.81	79.28

Gr IH 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	79.38	79.28	.....	79.26	79.16	.....	79.90	80.35	80.31	80.19	80.03	79.14
7	79.53	79.01	.....	79.15	79.17	.....	80.25	80.12	.....	80.17	79.49	79.02
8	79.25	79.17	.....	79.00	79.08	.....	80.40	80.07	.....	80.06	79.47	79.30
9	79.27	79.33	.....	79.08	79.06	.....	80.26	80.06	.....	80.18	79.59	.....
10	79.23	79.40	.....	79.05	79.43	.....	80.37	80.37	.....	.....	80.26	79.58
11	79.22	79.00	.....	79.16	79.00	79.73	80.25	80.71	80.19	80.14	79.69	.....
12	79.41	78.88	.....	78.92	78.98	79.80	80.04	80.91	80.18	80.16	79.60	.....
13	79.51	79.04	e	78.90	79.17	79.47	80.00	80.82	80.30	80.33	79.36	.....
14	79.27	79.48	.....	79.02	79.28	79.79	80.35	80.57	.....	80.25	79.12	.....
15	78.85	79.49	79.00	78.94	79.25	79.54	80.70	80.50	.....	80.05	79.34	.....
16	79.15	79.25	78.93	79.16	79.24	80.80	80.61	.....	.....	80.15	79.56	.....
17	79.05	79.00	79.06	79.25	79.37	81.24	80.48	.....	80.17	80.14	79.64	.....
18	79.12	79.12	79.24	79.30	79.25	80.40	80.68	.....	80.26	80.19	79.63	.....
19	79.11	78.95	79.30	79.10	79.58	80.70	80.68	.....	80.23	80.09	79.68	.....
20	79.09	79.08	79.23	79.43	80.20	79.70	80.80	80.67	.....	80.12	79.78	.....
21	79.22	78.96	79.17	79.48	79.58	79.67	80.77	80.22	.....	79.95	79.50	.....
22	79.59	79.23	79.24	79.10	79.39	80.50	80.92	.....	.....	79.90	79.48	.....
23	79.27	79.29	79.02	79.13	79.26	79.56	81.30	.....	.....	80.02	79.43	.....
24	79.13	79.28	78.74	79.23	79.24	80.40	80.94	.....	.....	79.69	79.55	.....
25	79.21	79.11	79.26	79.21	79.15	80.20	80.63	.....	80.23	79.97	79.74	.....
26	79.26	78.89	79.37	79.22	80.50	80.20	80.66	.....	80.22	79.95	79.27	.....
27	79.15	78.83	79.25	79.34	e	79.22	79.88	80.56	80.54	.....	79.90	79.65
28	79.34	79.15	79.14	79.07	79.22	79.67	80.53	80.56	.....	79.64	79.50	.....
29	79.32	.....	79.05	79.02	79.25	79.64	80.68	80.61	.....	79.80	79.60	78.87
30	79.47	.....	78.87	79.18	79.66	80.05	80.68	.....	.....	79.72	79.55	78.80
31	79.40	.....	78.98	.....	80.00	.....	.....	.....	.....	79.64	.....	78.90

e Estimated.

Village of Perrinton

Gr PE 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 4.48 below lsd, Nov. 16, 1951; lowest 21.23 below lsd, Dec. 16, 17, 1949. Records available: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.64	12.54	9.24	9.30	6.60	12.99	13.71	16.48	16.49	13.71	10.07	11.14
2	12.74	e12.64	9.17	8.71	6.90	13.05	13.78	16.56	16.22	.....	10.42	11.10
3	12.67	e12.76	9.12	8.35	7.02	13.05	13.88	16.61	16.02	.....	10.73	11.04
4	11.22	e12.89	8.22	8.25	6.75	13.00	13.96	16.68	15.88	.....	10.93	11.00
5	10.50	e13.00	8.00	8.27	6.82	13.00	14.02	16.78	15.80	.....	11.22	10.00
6	10.18	e13.11	8.08	8.39	7.09	13.01	14.16	16.87	15.70	.....	11.53	9.92
7	10.07	13.07	8.15	8.53	7.48	13.02	14.30	16.91	15.60	14.35	11.70	9.90
8	9.99	e13.20	8.31	8.66	7.87	13.04	14.43	16.92	15.65	14.37	11.84	9.50
9	10.04	13.56	8.53	e7.65	8.28	13.06	14.47	16.95	15.56	14.40	12.04	9.66
10	10.14	13.63	8.85	e7.12	8.72	13.09	14.57	17.01	.....	14.41	12.19	9.83
11	10.26	13.73	9.15	7.04	9.14	13.16	14.70	17.09	.....	14.39	12.31	10.03
12	10.46	13.77	9.39	7.15	9.48	13.24	14.82	17.16	12.53	14.35	12.41	10.20
13	10.70	13.71	9.59	7.14	9.82	13.34	14.93	17.25	12.25	14.36	.....	10.41
14	10.86	13.66	9.73	7.13	10.19	13.44	15.05	17.32	11.00	14.37	.....	10.74
15	10.93	13.64	9.20	7.08	10.49	13.56	15.14	17.38	9.39	14.33	.....	10.94
16	11.10	13.60	8.50	7.07	10.76	13.66	15.24	17.32	8.02	14.31	4.48	11.23
17	11.26	13.48	7.95	7.18	10.98	13.77	15.33	17.36	8.25	14.31	5.05	11.48
18	11.40	13.38	7.76	7.41	11.22	13.88	15.43	17.37	9.21	14.34	.....	11.65
19	11.53	13.13	7.76	7.42	11.43	14.00	15.49	17.35	.....	14.35	.....	11.79
20	11.60	12.77	7.82	7.18	11.59	14.08	15.57	17.30	.....	14.20	.....	11.93
21	11.58	12.39	7.94	7.27	11.74	14.15	15.65	17.21	.....	14.14	8.31	12.08
22	11.62	11.96	e8.35	7.42	11.90	14.21	15.71	17.12	.....	14.11	8.71	12.18
23	11.61	11.56	e8.68	7.52	12.04	14.10	15.81	17.08	12.07	14.12	9.15	12.35
24	11.61	11.19	8.95	7.68	12.18	13.97	15.92	17.06	12.21	8.37	9.24	12.49
25	11.67	10.86	9.30	7.89	12.28	13.84	16.01	17.03	12.45	7.30	9.56	12.65
26	11.77	10.49	9.66	6.20	12.38	13.78	16.09	16.93	12.68	7.57	9.82	12.76
27	11.88	9.73	9.86	5.83	12.45	13.70	16.16	16.90	12.86	8.01	10.19	12.90
28	12.01	9.32	10.03	5.96	12.54	13.67	16.21	16.84	13.06	8.43	10.49	13.02
29	12.14	.....	10.14	6.24	12.66	13.67	16.29	16.82	13.30	8.87	10.77	13.05
30	12.29	.....	9.99	6.38	12.79	13.69	16.36	16.81	13.53	9.28	10.99	13.11
31	12.45	.....	9.60	.....	12.90	.....	16.43	16.74	.....	9.65	.....	.....

e Estimated.

City of St. Louis

Gr ST 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 50.92 below lsd, July 26, 1951. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	32.94	May 29	44.00	Aug. 15	42.89	Oct. 30	46.15
Feb. 27	39.63	June 26	47.41	29	45.72	Nov. 28	43.43
Mar. 30	37.63	July 26	50.92	Sept. 25	47.86	Dec. 29	38.89
Apr. 27	42.17						

Pine River Township

Gr Pr 16. Keith Knudson. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 12 N., R. 3 W. Drilled unused artesian well in deposits of Pleistocene age, diameter 2 inches, depth 36 feet. Land-surface datum is 775.11 feet above msl. Highest water level 19.83 below lsd, Feb. 27, 1951; lowest 24.36 below lsd, Dec. 30, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	23.64	Apr. 27	21.96	July 26	22.75	Oct. 30	22.36
Feb. 27	19.83	May 29	22.42	Aug. 29	22.92	Nov. 28	22.11
Mar. 30	22.73	June 26	22.39	Sept. 25	22.86	Dec. 29	21.75

Ingham County

City of Lansing

Ig LS 6. City of Lansing. Lapeer and Logan Sts. Drilled unused artesian well, in Saginaw formation, diameter 20 inches, depth 424 feet. Highest water level 34.34 below lsd, Dec. 1929; lowest 137.12 below lsd, Dec. 1, 1951. Records available: 1929, 1931, 1933-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	133.13	Apr. 28	134.46	July 30	133.45	Oct. 26	135.75
Feb. 27	131.01	May 26	134.85	Aug. 27	135.97	Dec. 1	137.12
Mar. 31	133.16	June 25	135.39	Sept. 27	135.38	31	132.91

Ig LS 7. City of Lansing. N. Grand River and Josephine St. Drilled unused artesian well in Saginaw formation, diameter 14 inches, depth 395 feet, cased to 49. Highest water level 15.63 below lsd, Mar. 26, 1931; lowest 133.78 below lsd, Oct. 26, 1951. Records available: 1919, 1929-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	121.35	June 25	127.02	Sept. 13	127.56	Oct. 3	126.56
Feb. 27	119.48	July 30	121.15	18	121.17	26	133.78
Mar. 31	121.04	Aug. 7	126.90	27	121.67	Dec. 1	133.63
Apr. 28	122.81	27	122.76	Oct. 1	115.28	31	125.02
May 26	122.91	Sept. 7	127.46				

Ig LS 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. Highest water level 12.12 below lsd, Jan. 1919; lowest 47.01 below lsd, Aug. 30, 1950. Records available: 1919, 1929-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	43.09	Apr. 28	42.80	July 30	45.04	Oct. 26	46.47
Feb. 27	42.85	May 26	44.02	Aug. 27	45.12	Dec. 2	44.48
Mar. 31	42.73	June 25	44.98	Sept. 27	45.78	31	39.93

Ig LS 9. City of Lansing. S. Cedar and Jay Sts. Drilled unused artesian well in Saginaw formation, diameter 12 inches, depth 417 feet. Highest water level 42.01 below lsd, Mar. 11, 1946; lowest 67.0 below lsd, Aug. 22, 1949. Records available: 1945-51.

Daily 2 a. m. water level, below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.56	63.31	63.20	62.32	63.05	.....	59.20	58.70	59.58	56.55	55.31	53.11
2	61.62	63.43	63.38	62.00	63.28	62.82	58.72	58.65	57.93	56.95	55.26	52.72
3	62.18	63.40	63.35	62.75	63.43	62.47	59.00	58.50	57.15	57.15	55.16	52.43
4	62.49	62.80	62.47	63.05	63.37	62.50	58.85	58.65	56.74	57.44	54.54	52.55
5	62.79	62.73	62.47	63.25	63.40	62.54	58.86	58.60	57.50	57.67	54.42	52.90
6	62.87	63.18	62.85	63.32	62.61	62.63	58.83	58.23	57.58	57.81	54.63	52.70
7	62.03	63.26	63.05	62.92	62.60	.....	58.83	58.19	57.74	56.55	54.28	52.84
8	62.00	63.40	63.23	62.20	62.93	.....	58.83	58.55	57.17	56.05	54.51	53.22
9	62.46	63.45	63.35	61.83	63.20	62.29	57.85	58.91	56.77	56.54	54.51	52.71
10	62.70	63.45	63.46	62.62	63.21	62.05	58.43	59.26	56.62	56.75	54.47	52.52

lg LS 9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	62.86	63.13	62.99	63.02	63.18	61.79	58.59	59.42	57.19	56.77	54.14	52.54
12	63.06	62.93	62.34	63.15	62.75	62.27	58.35	59.52	57.53	56.84	53.78	52.78
13	63.17	63.28	62.68	63.25	62.20	62.33	58.35	59.42	57.63	56.67	53.92	53.07
14	62.25	63.44	62.96	62.88	62.32	62.23	58.44	59.47	57.60	55.96	53.90	53.26
15	62.18	63.45	63.17	62.24	62.93	62.49	58.45	59.35	57.41	55.70	54.05	53.06
16	62.68	63.42	63.28	61.85	63.10	62.25	58.30	59.37	56.75	.....	54.10	53.00
17	62.83	63.43	62.92	62.50	63.24	.....	58.93	59.43	56.52	.....	54.08	52.67
18	63.00	62.62	62.26	62.87	63.09	61.71	58.69	59.37	56.92	.....	53.54	52.51
19	63.12	62.64	61.97	63.09	63.28	62.27	59.10	58.94	57.15	.....	53.27	53.11
20	62.64	63.15	62.73	63.25	63.00	62.20	59.52	58.00	57.43	57.00	53.29	52.93
21	62.06	63.27	63.02	62.86	62.34	60.74	59.27	58.58	57.61	56.25	53.11	52.83
22	62.28	63.41	63.23	62.15	63.15	60.28	59.17	59.01	57.67	55.95	52.97	53.22
23	62.63	63.42	63.30	62.25	62.95	59.74	59.03	59.24	57.19	56.84	52.95	53.10
24	62.90	63.42	62.78	62.77	63.00	59.78	59.55	59.15	57.02	57.15	52.85	52.81
25	63.08	62.95	62.10	62.83	63.15	59.27	59.64	59.41	57.26	57.32	52.86	52.62
26	63.20	62.17	62.55	63.16	63.25	59.52	59.62	59.53	57.40	56.25	52.38	52.34
27	63.25	62.63	62.77	63.27	62.64	59.45	59.58	58.28	57.26	56.06	52.96	52.77
28	63.26	63.17	63.08	62.80	.....	59.44	59.61	59.17	57.49	55.26	52.91	52.77
29	62.85	.....	63.25	62.31	.....	59.40	59.28	59.51	57.63	55.03	53.16	52.67
30	63.20	.....	63.33	62.61	.....	59.30	58.48	59.47	56.94	55.25	53.13	52.41
31	63.26	.....	62.98	.....	.....	.....	58.80	59.50	.....	55.31	.....	52.25

e Estimated.

lg LS 182. Atlas Drop Forge Co. W. Mount Hope and Davis Aves. Drilled industrial well in Saginaw formation, diameter 8 inches, depth 425 feet. Highest water level 30.28 below lsd, Apr. 23, 1948; lowest 64.40 below lsd, Aug. 18, 1948. Subtract 0.88 foot from 1949 and 1950 measurements. Records available: 1944-46, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	36.44	Apr. 28	35.50	July 30	37.29	Oct. 26	37.76
Feb. 27	35.84	May 26	35.00	Aug. 27	37.63	Dec. 1	37.07
Mar. 31	35.89	June 25	36.69	Sept. 27	37.44	31	35.85

a Pumping.

City of Mason

lg MS 30. City of Mason. Jefferson Ave. and Okemos St. Drilled unused artesian well in Saginaw formation, diameter 6 inches, depth 150 feet. Measurements made by Mason Water Dept. Highest water level 0.08 below lsd, June 29, 1949; lowest 4.95 below lsd, Sept. 22, 1948. Records available: 1948-51.

Jan. 9	2.87	Apr. 7	1.92	July 7	3.20	Oct. 6	2.75
13	2.26	14	1.70	14	3.16	13	3.48
20	2.02	21	1.92	21	3.65	20	3.79
21	2.10	28	1.86	28	3.95	27	3.90
Feb. 3	2.01	May 5	1.81	Aug. 4	3.80	Nov. 3	3.38
10	2.18	12	2.08	11	3.64	10	2.94
17	2.09	19	2.76	18	3.30	17	2.99
24	1.99	26	2.64	25	3.48	24	2.95
Mar. 3	1.90	June 2	2.40	Sept. 1	3.87	Dec. 1	2.40
10	1.82	9	3.20	8	4.00	8	2.10
17	1.80	16	3.07	15	4.22	15	1.70
24	2.00	23	2.66	22	4.07	22	1.70
31	2.14	30	2.80	29	3.46	29	1.69

Lansing Township

lg Ls 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. Highest water level 53.94 below lsd, Nov. 2, 1944; lowest 69.51 below lsd, June 25, 1951. Records available: 1944-51.

Jan. 27	67.94	Apr. 28	67.98	July 30	68.38	Oct. 26	68.49
Feb. 27	67.97	May 26	67.82	Aug. 27	68.16	Dec. 1	68.58
Mar. 31	68.09	June 25	69.51	Sept. 27	68.30	31	68.37

Ig Ls 265. Frank Clever. 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 about 865 feet above msl. Highest water level 25.47 below lsd, Mar. 25, 1946; lowest 61.00 below lsd, Sept. 4, 1948. Records available: 1945-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.49	48.67	48.28	46.30	46.81	49.86	49.60	54.96	53.95	51.72	54.90	47.30
2	39.83	49.14	49.08	45.92	48.01	50.34	48.52	54.72	52.65	51.60	54.90	47.07
3	42.74	49.60	49.00	45.94	47.54	50.56	50.35	55.14	50.79	52.16	53.91	46.86
4	43.95	49.40	48.86	45.62	49.37	50.15	50.75	55.80	50.44	53.45	50.67	47.06
5	45.24	48.95	48.44	46.05	50.10	50.15	48.95	54.22	50.11	54.82	48.61	47.43
6	45.70	48.65	48.13	46.81	47.34	49.34	50.87	52.70	49.10	55.54	.....	47.47
7	46.36	48.36	47.57	47.10	46.00	48.29	52.20	53.19	48.50	55.11	.....	47.32
8	46.10	48.73	49.03	46.85	47.60	48.30	52.85	51.85	49.23	53.15	.....	47.74
9	46.36	49.25	49.55	44.25	48.42	48.90	52.44	.....	49.45	53.97	48.18	47.39
10	46.70	50.32	50.05	45.30	49.66	47.97	52.23	.....	48.78	55.66	48.27	48.95
11	47.00	50.57	49.80	46.70	49.90	46.30	51.50	.....	47.98	55.05	48.67	46.60
12	47.75	49.90	49.09	47.15	49.73	47.80	49.25	.....	47.88	56.11	48.31	48.92
13	48.37	49.83	48.61	47.79	48.96	48.91	47.88	56.41	48.60	56.41	47.93	47.23
14	48.00	49.67	48.80	47.97	46.60	49.38	48.21	56.55	49.59	56.35	48.09	46.94
15	47.50	49.84	49.02	46.40	48.04	49.00	48.95	57.00	49.60	56.00	48.48	46.26
16	47.53	49.92	49.27	44.26	48.40	48.03	48.10	54.70	48.89	55.94	48.68	46.11
17	47.53	49.67	49.48	45.87	49.80	.....	50.17	53.24	48.75	55.73	48.52	45.79
18	47.27	49.46	49.15	47.32	50.92	48.32	52.65	52.77	48.57	55.52	48.21	45.20
19	47.91	48.60	48.25	47.90	51.34	46.40	54.70	51.70	49.22	55.50	47.85	45.24
20	47.96	48.40	47.74	48.38	50.75	49.00	58.55	50.70	49.96	55.48	47.54	44.93
21	48.03	48.39	47.33	48.55	48.50	49.70	57.75	50.21	50.25	55.10	.....	45.63
22	47.80	48.74	46.85	46.15	49.32	50.77	58.85	50.90	51.30	54.87	.....	44.71
23	47.45	49.08	46.45	44.67	50.47	49.60	55.05	51.76	51.33	54.85	47.33	44.78
24	47.52	49.47	48.20	46.37	51.16	47.70	54.67	51.98	51.08	54.37	47.01	44.81
25	47.87	49.19	46.31	47.65	51.60	46.40	55.22	52.16	51.86	54.53	46.77	44.66
26	48.75	48.25	46.02	48.05	51.92	48.10	56.55	51.83	52.15	54.54	46.21	44.13
27	48.98	48.00	45.77	48.55	51.54	49.05	58.84	50.52	52.50	54.45	46.42	44.44
28	48.98	48.20	45.65	48.42	50.83	50.17	59.84	49.87	52.83	54.22	46.32	44.26
29	48.33	.....	45.73	46.00	50.41	51.70	58.05	50.60	53.49	54.14	46.63	44.02
30	48.23	.....	45.92	45.00	50.27	52.15	56.00	51.47	52.67	54.05	46.95	44.01
31	48.37	.....	46.20	.....	50.07	.....	55.26	52.80	.....	54.08	.....	44.00

e Estimated.

Ig Ls 271. 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. Highest water level 19.02 below lsd, May 21, 1948; lowest 24.39 below lsd, Nov. 8, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	21.32	Apr. 28	19.85	July 30	21.58	Oct. 26	21.52
Feb. 27	20.86	May 26	20.06	Aug. 27	21.94	Dec. 1	21.83
Mar. 31	20.51	June 25	20.89	Sept. 27	22.34	31	21.49

Iosco County

Wilbur Township

Ic Wr 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 in sand and gravel of Pleistocene age, diameter 6 inches, depth 341 feet. Highest water level 25.91 below lsd, Dec. 22, 1951; lowest 27.94 below lsd, Jan. 8, 10, 1950. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.94	26.94	26.72	26.51	26.43	26.42	.....	.....	.....
2	26.94	26.92	26.68	26.51	26.48	26.42	.....	.....	.....
3	26.94	26.82	26.66	26.54	26.38	26.45	.....	.....	.....
4	26.94	26.80	26.65	26.42	26.45	26.46	.....	.....	26.05
5	27.10	27.00	26.80	26.71	26.33	26.49	.....	.....	.....	26.12
6	27.01	27.08	27.04	26.85	26.71	26.41	26.48	.....	.....	.....	26.09
7	27.03	27.00	26.84	26.68	26.42	26.42	.....	.....	.....	26.03
8	27.06	26.95	.....	26.67	26.37	26.36	.....	.....	.....	26.13
9	27.32	.....	27.12	26.96	.....	26.64	26.32	26.36	.....	.....	.....	26.16
10	27.32	.....	27.23	26.94	.....	26.60	26.36	26.43	.....	.....	.....	26.16

Ic Wr 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	27.31	.....	27.22	26.98	.....	26.61	26.41	26.45	.....	.....	.....	26.08
12	27.32	.....	27.16	26.96	.....	26.63	26.42	26.45	.....	.....	.....	26.05
13	.....	.....	.....	26.79	.....	26.61	26.42	26.48	.....	.....	.....	26.10
14	.....	27.28	.....	26.80	.....	26.61	26.43	26.46	.....	.....	.....	26.21
15	.....	.....	.....	26.81	26.86	26.63	26.42	26.45	.....	.....	.....	26.10
16	27.14	.....	.....	26.92	26.82	26.60	26.41	26.37	.....	.....	.....	26.20
17	.....	.....	27.06	26.95	26.83	26.60	26.43	26.39	.....	.....	.....	26.20
18	.....	.....	27.11	26.99	26.84	26.61	26.45	26.41	.....	.....	.....	26.13
19	.....	.....	27.04	26.89	26.83	.....	26.39	26.42	.....	.....	.....	26.14
20	.....	27.09	27.02	27.02	26.76	.....	26.41	26.42	.....	.....	.....	26.12
21	.....	.....	27.05	27.07	26.70	.....	26.43	26.32	.....	.....	.....	25.93
22	.....	.....	27.06	26.93	26.74	.....	26.37	26.35	.....	.....	.....	25.91
23	27.05	.....	26.99	26.96	26.72	.....	26.43	26.41	.....	.....	.....	26.05
24	.....	.....	26.86	27.00	26.72	.....	26.45	26.45	.....	.....	.....	26.08
25	.....	.....	27.01	27.00	26.70	.....	26.44	26.46	.....	.....	.....	26.15
26	.....	.....	27.07	26.90	26.68	26.53	26.43	26.42	.....	.....	.....	26.09
27	.....	26.99	27.03	26.97	26.59	26.50	26.43	26.38	.....	.....	.....	26.16
28	.....	.....	.....	26.89	26.59	26.53	26.43	26.38	.....	.....	.....	26.15
29	.....	.....	.....	26.82	26.65	26.53	26.44	26.40	.....	.....	.....	26.00
30	.....	.....	26.88	26.89	26.68	26.53	26.45	26.35	.....	.....	.....	25.99
31	27.19	.....	26.89	.....	26.72	.....	26.43	26.38	.....	.....	.....	.....

Kalamazoo County

City of Kalamazoo

Ko KO 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. Measurements made by City Light and Water Utilities. Subtract 0.45 foot Jan. 1 to Sept. 29; and 0.09 foot Sept. 30 through Dec. 31, 1950. Highest water level 12.93 below lsd, Apr. 11, 1947; lowest 29.36 below lsd, Aug. 9, 1946. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.28	15.77	15.40	15.23	15.19	15.66	16.54	15.93	16.43	16.46	15.91	14.81
2	16.23	15.81	15.52	15.22	15.22	15.75	16.53	15.99	16.42	16.42	15.96	14.73
3	16.09	15.87	15.45	15.21	15.25	15.82	16.54	16.01	16.42	16.90	15.93	14.65
4	16.90	15.83	15.45	15.15	15.30	15.81	16.53	16.08	16.40	17.11	15.85	14.59
5	15.76	15.85	15.45	15.24	15.34	15.83	16.56	16.12	16.39	17.23	15.86	14.62
6	15.72	15.81	15.39	15.28	15.37	15.85	16.58	16.03	16.38	17.16	15.86	14.57
7	15.70	15.79	15.39	e15.29	15.34	15.91	16.59	15.95	16.45	17.37	15.79	14.54
8	15.56	15.88	15.40	15.33	15.24	15.94	16.63	15.99	16.49	16.99	15.83	14.58
9	15.56	15.91	15.45	15.34	15.27	15.97	16.62	16.01	16.48	16.79	15.87	14.50
10	15.55	15.94	15.52	15.27	15.34	15.97	16.59	16.12	16.14	17.00	15.85	14.44
11	15.56	e15.88	15.54	15.33	15.24	16.01	16.62	16.14	16.37	16.84	15.83	14.33
12	15.75	e15.81	15.53	15.32	15.17	16.00	16.64	16.24	16.34	16.78	15.71	14.35
13	15.72	e15.73	e15.38	15.33	15.18	16.03	16.66	16.33	16.41	16.78	15.63	14.38
14	15.71	e15.66	e15.38	15.37	15.25	16.12	16.70	16.36	16.43	16.74	15.76	14.43
15	15.68	e15.58	e15.38	15.35	15.24	16.18	16.78	16.43	16.49	16.65	15.52	14.35
16	15.71	e15.54	15.35	15.33	15.24	16.21	16.79	16.41	16.51	16.65	15.43	14.36
17	15.68	e15.54	15.39	15.26	15.31	16.30	16.79	16.43	16.45	16.67	15.41	14.27
18	15.73	e15.52	15.35	15.32	15.37	16.35	16.81	16.39	16.46	16.66	15.34	14.21
19	15.76	e15.43	15.38	15.24	15.37	16.31	16.86	16.38	16.51	16.71	15.24	14.25
20	15.76	e15.38	15.23	15.33	15.49	16.33	16.89	16.29	16.55	16.72	15.21	14.17
21	15.83	e15.34	15.19	15.36	15.48	16.39	16.95	16.23	16.58	16.68	15.15	14.43
22	15.74	e15.34	15.17	15.31	15.55	16.33	16.85	16.16	16.62	16.62	15.18	14.33
23	15.71	e15.34	15.13	15.29	15.58	16.29	16.95	16.21	16.62	16.65	15.11	14.29
24	15.74	e15.34	15.11	15.25	15.61	16.37	15.91	16.22	16.59	16.47	15.07	14.24
25	15.80	15.34	15.18	15.23	15.64	16.35	15.87	16.27	16.60	16.23	15.01	14.26
26	15.80	15.33	15.15	15.32	15.68	16.33	15.91	16.24	16.64	16.08	14.89	14.17
27	15.82	e15.38	15.13	15.34	15.67	16.41	15.96	16.22	16.55	16.02	14.89	14.17
28	15.83	e15.43	15.19	15.24	15.68	16.41	15.96	16.26	16.58	15.97	14.91	14.13
29	15.86	.....	15.21	15.26	15.64	16.45	16.03	16.29	16.61	15.94	14.96	14.10
30	15.86	.....	15.16	15.17	15.68	16.48	15.95	16.32	16.57	15.91	14.89	14.10
31	15.83	.....	15.22	.....	15.68	.....	15.90	16.38	.....	15.94	.....	14.07

e Estimated.

Ko KO 227. Hanselman Bldg. Corp. N. Burdick St. and W. 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: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	23.94	Apr. 18	23.02	July 27	23.23	Oct. 26	23.38
Feb. 28	22.86	May 24	24.01	Aug. 31	23.37	Nov. 29	22.80
Mar. 16	23.62	June 21	23.56	Sept. 28	23.75		

Ko KO 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. Measurements made by City Light and Water Utilities. Highest water level 3.63 below lsd, Apr. 26, 1950; lowest 8.96 below lsd, Oct. 20, 21, 1948. Records available: 1947-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.05	6.74	6.26	6.39	6.25	6.81	7.23	6.71	6.98	7.03	6.42	6.30
2	7.05	6.78	6.38	6.32	6.28	6.70	7.26	6.78	7.01	7.05	6.47	6.30
3	6.20	6.81	6.34	6.28	6.30	6.70	7.29	6.83	7.05	7.10	6.50	6.32
4	5.60	6.80	6.05	6.30	6.35	6.77	7.30	6.84	7.08	....	6.48	6.25
5	5.69	6.83	6.07	6.37	6.41	6.83	7.33	6.79	7.12	....	6.56	5.96
6	5.77	6.85	6.10	6.41	6.46	6.86	7.36	6.93	7.13	7.27	6.61	5.96
7	5.92	6.81	6.15	6.42	6.51	6.88	7.39	6.93	7.07	7.22	6.58	6.02
8	5.99	6.85	6.23	6.40	6.53	6.91	7.40	6.95	7.13	6.43	6.62	6.11
9	6.08	6.87	6.31	6.15	6.56	6.92	7.27	6.99	7.16	6.40	6.63	6.13
10	6.15	6.89	6.38	6.15	6.62	6.94	7.11	7.04	7.18	6.47	6.61	6.17
11	6.20	6.86	6.42	6.19	6.18	6.97	7.17	7.08	6.83	6.52	6.42	6.17
12	6.26	6.68	6.42	6.17	6.02	7.00	7.22	7.13	6.82	6.58	6.25	6.21
13	6.32	6.23	6.41	6.05	6.08	7.02	7.25	7.17	6.88	6.66	5.91	6.30
14	6.30	6.15	6.30	6.05	6.17	7.05	7.29	7.19	6.85	6.69	5.49	6.37
15	6.29	6.23	6.19	6.04	6.24	7.08	7.32	7.21	6.91	6.72	5.51	6.39
16	6.41	6.27	6.14	6.09	6.30	7.11	7.36	7.11	6.96	6.77	5.65	6.44
17	6.44	6.27	6.16	6.15	6.37	7.13	7.40	7.16	7.00	6.82	5.78	6.46
18	6.50	6.29	6.18	6.19	6.43	7.15	7.43	6.70	7.06	6.87	5.88	6.40
19	6.51	6.12	6.22	6.20	6.49	7.18	7.45	6.66	7.11	6.91	5.95	6.49
20	6.49	5.88	6.26	6.26	6.52	7.14	7.47	6.75	7.16	6.94	6.03	6.46
21	6.51	5.89	6.31	6.29	6.56	7.19	7.49	6.65	7.20	6.95	6.07	6.42
22	6.52	6.02	6.36	6.27	6.62	7.15	6.75	6.39	7.23	7.00	6.10	6.46
23	6.47	6.09	6.37	6.32	6.64	6.95	5.56	6.47	7.21	7.02	5.99	6.47
24	6.51	6.13	6.39	6.36	6.67	6.98	5.86	6.57	7.25	6.16	5.89	6.48
25	6.52	6.14	6.46	6.37	6.69	7.04	6.10	6.65	7.27	5.84	6.00	6.49
26	6.54	6.15	6.50	6.40	6.72	7.08	6.27	6.71	7.29	5.90	5.98	6.49
27	....	6.20	6.51	6.43	6.72	7.14	6.40	6.75	7.04	6.02	6.15	6.52
28	6.67	6.29	6.53	6.41	6.70	7.17	6.44	6.79	6.96	6.07	6.17	6.50
29	6.69		6.53	6.44	6.73	7.20	6.50	6.83	6.99	6.18	6.24	6.46
30	6.73		6.49	6.27	6.75	7.21	6.57	6.89	7.00	6.24	6.25	6.44
31	6.75		6.45		6.79		6.63	6.92		6.33		6.38

Ko KO 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. Measurements made by City Light and Water Utilities. Highest water level 13.98 below lsd, May 3, 4, 1950; lowest 27.42 below lsd, Dec. 5, 6, 1946. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	18.46	17.97	17.62	18.00	18.15	18.74	18.26	18.71	19.33	18.55	17.57
2	....	18.52	18.02	17.81	18.39	18.14	18.77	18.27	18.71	19.40	18.52	17.55
3	....	18.53	17.87	17.84	18.09	18.26	18.78	18.29	18.72	19.47	18.50	17.52
4	....	18.53	17.87	17.84	18.36	18.26	18.74	18.32	18.75	19.47	18.42	17.50
5	....	18.57	17.78	18.16	17.88	18.14	18.79	18.31	19.05	19.64	18.55	17.49
6	19.23	18.70	17.97	17.96	17.82	18.14	18.79	18.30	19.29	19.40	18.53	17.45
7	18.97	18.59	18.10	17.85	17.79	18.13	18.83	18.21	19.39	19.33	18.60	17.40
8	18.84	19.03	17.89	17.75	17.76	18.18	18.76	18.26	19.47	19.20	18.50	17.47
9	18.80	18.68	17.75	17.76	17.83	18.19	18.73	18.33	19.49	19.13	18.51	17.45
10	19.13	19.00	17.76	17.77	....	18.24	18.83	18.38	19.51	19.12	18.47	17.36
11	19.18	18.94	17.73	17.83	....	18.26	19.04	18.41	19.52	19.05	18.45	17.30
12	18.69	18.91	17.67	17.74	17.88	18.29	18.82	18.44	19.55	19.05	18.35	17.28
13	18.76	18.57	17.92	17.70	17.95	18.39	18.88	18.49	19.54	19.07	18.35	17.30
14	18.73	18.54	17.78	17.79	17.92	18.45	18.90	18.49	19.60	19.07	18.28	17.35
15	18.97	18.50	17.62	18.00	17.91	18.44	18.93	18.51	19.64	19.04	18.15	17.27

Ko KO 242--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	18.75	18.60	17.62	17.72	17.88	18.47	18.93	18.53	19.14	19.05	18.20	17.35
17	18.65	18.60	17.65	17.77	17.89	18.46	19.03	18.57	19.09	19.07	18.05	17.35
18	18.51	18.46	17.59	17.84	17.86	18.50	19.01	18.52	19.20	19.10	.....	17.23
19	18.58	18.81	17.59	17.87	17.88	18.80	19.04	18.55	19.14	19.13	.....	17.40
20	18.55	18.45	17.57	18.19	.....	18.55	19.02	18.55	19.15	19.15	18.94	17.30
21	18.59	18.61	17.58	18.07	.....	18.66	19.00	18.47	19.68	19.09	18.86	17.25
22	18.49	18.27	17.61	18.23	.....	18.55	19.07	18.47	19.37	19.11	18.85	17.42
23	18.45	18.19	18.14	18.38	.....	18.55	18.59	18.52	19.24	19.17	18.79	17.49
24	18.39	18.13	17.75	18.13	18.21	18.56	18.45	18.51	19.22	19.00	18.85	17.54
25	18.58	18.28	17.75	17.94	17.99	18.60	18.43	18.54	19.30	18.94	17.70	17.48
26	18.40	18.20	17.76	18.14	18.02	18.62	.....	18.54	19.40	18.82	17.63	17.45
27	18.47	18.07	17.76	18.05	17.98	18.91	18.51	18.53	19.28	18.74	17.63	17.50
28	18.49	18.03	18.27	17.97	18.04	18.70	18.43	18.55	19.30	18.69	17.55	17.39
29	18.46	.....	18.30	18.01	18.06	18.71	18.28	18.60	19.27	18.66	17.63	17.37
30	18.49	.....	18.33	17.97	18.11	18.74	18.26	18.65	19.33	18.60	17.70	17.35
31	18.45	.....	17.89	.....	18.15	.....	18.27	18.72	.....	18.57	.....	17.35

Ko KO 284. Bryant Paper Co. Formerly St. Regis Paper Co. Alcott and Portage Sts. Drilled unused artesian well in sand and gravel of Pleistocene age, diameter 12 inches, depth 113 feet, screen at 83-113. Land-surface datum is 802.59 feet above msl. Measurements made by City Light and Water Utilities. Highest water level 34.46 below lsd, May 5, 1950; lowest 64.37 below lsd, Sept. 1, 1946. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.78	37.19	36.88	36.94	37.03	37.18	37.70	37.34	37.61	37.48	37.35	36.80
2	37.74	37.29	37.05	36.90	37.05	37.23	37.62	37.38	37.54	37.49	37.31	36.65
3	37.73	37.30	36.92	36.94	36.94	37.16	37.62	37.36	37.46	37.68	37.26	36.57
4	37.63	37.20	37.02	36.92	36.96	37.18	37.51	37.47	37.60	37.60	37.60	36.68
5	37.60	37.22	37.02	36.91	37.03	37.27	37.58	37.40	37.51	.....	37.24	36.76
6	37.50	37.23	36.96	36.97	37.00	37.20	37.65	37.28	37.46	37.69	37.26	36.87
7	37.45	37.27	36.99	36.92	36.99	37.19	37.63	37.35	37.56	37.68	37.13	36.65
8	37.37	37.30	36.99	36.90	37.03	37.18	37.81	37.41	37.65	37.61	37.23	36.73
9	37.43	37.34	37.08	36.90	37.03	37.20	37.65	37.39	37.92	37.65	37.18	36.51
10	37.42	37.41	37.09	36.88	37.10	37.23	37.68	37.45	37.56	37.67	37.22	36.47
11	37.39	37.23	37.02	36.97	36.94	37.23	37.87	37.46	37.64	37.68	37.19	36.47
12	37.44	37.19	36.90	36.83	37.00	37.30	37.81	37.55	37.62	37.65	37.05	36.52
13	37.42	37.32	36.89	36.87	37.00	37.31	37.89	37.41	37.58	37.68	37.09	36.55
14	37.30	37.33	36.91	37.05	36.96	37.36	37.92	37.48	37.64	37.63	37.10	36.65
15	37.20	37.27	36.90	36.93	37.00	37.38	37.78	37.60	37.66	37.64	37.12	36.57
16	37.33	37.19	36.94	36.93	36.97	37.37	37.73	37.55	37.56	37.68	37.14	36.63
17	37.21	37.22	37.01	37.00	37.04	37.45	37.81	37.52	37.49	37.78	37.06	36.45
18	37.25	37.19	37.00	36.99	37.03	37.45	37.81	37.49	37.53	37.74	37.09	36.32
19	37.25	37.06	36.93	37.06	36.90	37.49	37.81	37.48	37.54	37.84	36.99	36.56
20	37.28	37.18	36.96	37.10	36.94	37.50	37.88	37.41	37.66	37.94	37.16	36.35
21	37.35	37.05	37.02	37.13	36.95	37.64	37.89	37.40	37.72	37.65	37.09	36.30
22	37.33	37.13	36.96	36.96	37.07	37.55	37.86	37.55	37.64	37.60	37.01	36.43
23	37.27	37.11	36.90	37.08	37.09	37.60	37.48	37.52	37.67	37.75	36.83	36.42
24	37.22	37.08	36.90	37.09	37.02	37.56	37.45	37.41	37.57	37.78	36.98	36.41
25	37.26	37.00	37.03	36.97	37.05	37.59	37.45	37.49	37.54	37.73	37.00	36.33
26	37.28	36.91	37.00	37.09	37.09	37.61	37.34	37.36	37.63	37.60	36.71	36.29
27	37.18	37.00	36.94	37.05	37.01	37.63	37.35	37.31	37.64	37.62	36.86	36.40
28	37.29	37.08	36.94	36.95	37.07	37.63	37.36	37.38	37.63	37.40	36.79	36.32
29	37.23	.....	36.89	36.95	37.12	37.67	37.31	37.40	37.68	37.31	36.87	36.27
30	37.32	.....	36.92	36.94	37.19	37.65	37.22	37.41	37.54	37.37	36.78	36.26
31	37.26	.....	37.03	.....	37.20	.....	37.31	37.48	.....	37.41	.....	36.19

City of Parchment

Ko PT 13. Kalamazoo Vegetable Parchment Co. Superior Ave. and Riverview Drive, Parchment. Drilled unused artesian well in gravel of Pleistocene age, diameter 12 inches, depth 63 feet. Land-surface datum is 767.17 feet above msl. Measurements made by Maintenance Dept. Highest water level 11.40 below lsd, Apr. 10, 1950; lowest 16.94 below lsd, Aug. 27, 1949. Records available: 1948-51. Measurement discontinued.

Ko PT 13--Continued.

Daily 2 a. m. water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July
1	15.11	14.72	13.51	14.27	13.96	14.71	14.81
2	15.00	14.80	13.84	14.10	13.97	14.74	14.69
3	14.78	14.86	13.63	14.16	14.05	14.70	14.61
4	14.36	14.82	13.62	14.12	14.01	14.60	14.56
5	14.23	14.66	13.56	14.10	14.00	14.60	14.55
6	14.05	14.74	13.65	14.13	14.02	14.66	14.58
7	13.79	14.79	13.77	e14.15	.....	14.77	.....
8	13.54	14.86	13.81	.....	.....	14.82	.....
9	13.37	14.91	13.85	14.10	.....	14.81	.....
10	13.42	14.94	13.93	14.10	.....	14.77	.....
11	13.42	14.87	13.90	14.14	.....	14.68	.....
12	13.69	14.66	13.91	14.09	.....	14.85	.....
13	13.89	14.59	14.01	14.06	.....	14.90	.....
14	13.97	14.49	14.08	14.03	.....	15.02	.....
15	13.82	14.42	14.09	13.98	14.10	15.09	.....
16	14.00	14.36	14.12	13.92	14.03	15.17	.....
17	14.13	14.30	14.14	13.97	14.10	15.30	.....
18	14.21	14.11	14.05	14.00	14.10	15.43	.....
19	14.29	14.03	13.97	14.03	14.27	15.37	.....
20	14.29	13.93	14.11	14.08	14.33	15.27	.....
21	14.22	13.78	14.15	14.14	14.31	15.07	.....
22	14.02	13.65	14.19	14.09	14.47	14.95	.....
23	14.14	13.50	14.23	14.00	14.50	14.81	.....
24	14.24	13.41	14.26	14.18	14.55	14.72	.....
25	14.26	13.34	14.27	14.24	14.60	14.60	.....
26	14.28	13.13	14.29	14.27	14.66	14.61	.....
27	e14.29	13.27	14.42	14.26	14.65	14.78	.....
28	.....	13.44	14.50	14.24	14.51	14.79	.....
29	14.39	.....	14.42	14.20	14.60	14.79	.....
30	14.53	.....	14.41	13.92	14.63	14.89	.....
31	14.64	.....	14.36	.....	14.66	.....	.....

e Estimated.

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

Ko PT 50. Kalamazoo Vegetable Parchment Co. Riverview Ave. and Robert Lane, Parchment. 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. Measurements made by Maintenance Dept. Highest water level 20.83 below lsd, Dec. 10, 1951; lowest 23.11 below lsd, July 17, 1951. Records available: 1951.

Daily 2 a. m. water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	22.49	.....	22.09	21.81	21.79
2	.....	22.59	.....	22.38	21.91	21.62
3	.....	22.65	.....	22.67	22.00	20.98
4	.....	22.59	.....	22.82	21.83	21.59
5	.....	22.48	.....	22.95	21.56	21.67
6	21.84	22.04	22.69	22.91	22.04	21.40
7	21.57	22.46	22.72	22.59	22.07	21.48
8	21.56	22.52	22.76	22.13	22.10	21.47
9	21.38	.....	22.60	22.40	22.17	21.27
10	22.10	22.77	22.13	22.38	22.16	20.83
11	.....	22.78	22.48	22.39	22.08	21.31
12	.....	22.54	22.66	22.43	21.39	21.64
13	.....	22.16	22.61	22.42	21.86	21.61
14	.....	21.88	22.72	22.15	21.78	21.68
15	.....	22.53	22.74	21.57	21.66	21.69
16	.....	.....	22.54	22.26	21.56	21.58
17	23.11	.....	21.78	22.34	21.53	20.88
18	22.96	.....	22.42	22.39	21.10	20.97
19	23.02	.....	22.62	22.51	21.36	21.71
20	22.99	.....	22.58	22.46	21.52	21.73
21	23.02	.....	22.72	22.17	21.69	21.78
22	.....	.....	22.69	22.24	21.73	21.81
23	.....	.....	22.42	22.55	.....	21.14
24	22.39	.....	22.11	22.33	.....	21.15
25	22.26	.....	22.48	22.17	.....	.....

Ko PT 50--Continued.

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	22.37	.....	22.68	22.12	.....	21.34
27	22.50	.....	22.59	21.97	.....	21.73
28	22.38	.....	22.67	21.70	21.58	21.72
29	22.14	.....	22.63	21.12	21.67	21.74
30	21.88	.....	22.43	21.68	21.73	21.56
31	22.45	.....	.....	21.76	.....	21.15

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

Village of Vicksburg

Ko VB 6. Lee Paper Co. Washington St. and Mill Pond. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 144 feet. Measurements made by Lee Paper Co. Highest water level 2.08 above lsd, Apr. 7, 1947; lowest 10.15, below lsd, Sept. 9, 1946. Records available: 1946-51.

Daily 2 a. m. water level, above and below lsd, from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Dec.
1	.....	.....	+0.01	-0.23	-0.85	+0.10	.....
2	.....	.....	.11	.24	+ .28	-1.05	.....
3	.....	.....	.20	.28	.....	1.02	.....
4	.....	.....	.25	-.25	+ .34	1.10	-0.59
5	.....	.....	.28	+ .35	.....	1.07	.70
6	.....	.....	.32	.46	.....	1.10	.60
7	.....	.....	+ .33	+ .05	-.89	-1.20	.55
8	.....	.....	.....	-.45	.93	+ .10	-.65
9	.....	-0.57	.....	+ .25	1.00	-.80	+ .45
10	.....	.58	.....	+ .25	.96	.80	+ .60
11	.....	.68	.....	-.77	.88	.....	-.45
12	.....	.72	.....	.85	.93	.....	.47
13	.....	.68	.....	-.85	.88	.....	.60
14	.....	.67	.....	+ .05	.89	.....	.60
15	.....	.70	.....	-1.00	.95	.....	.65
16	.....	.70	.....	.78	-.95	.....	.70
17	.....	.87	.....	.74	+ .14	.....	.....
18	.....	.10	.....	.64	-1.00	.....	.....
19	.....	.70	.....	-.67	1.08	.....	.....
20	.....	.60	-.72	+ .41	1.00	.....	-.92
21	.....	.62	.65	-.72	1.02	.....	+ .25
22	.....	.60	-.65	.91	1.04	.....	-.75
23	-0.45	.55	+ .44	.80	1.18	.....	-.80
24	.65	.52	-.01	.80	1.13	.....	+ .48
25	.60	.60	.00	.66	1.13	.....	.60
26	.60	.65	-.04	.....	1.17	.....	.70
27	.65	.68	.05	.76	1.11	.....	.70
28	.70	.65	.04	.70	1.07	.....	.58
29	.70	.65	.11	.72	1.06	.....	+ .52
30	.65	.68	.16	.78	-.02	.....	-.85
31	.67	.....	.20	.80	.....	.....	.70

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

Ko VB 7. Lee Paper Co. Washington St. and Mill Pond, Vicksburg. Drilled unused artesian well in deposits of Pleistocene age, diameter 12 inches, depth 48 feet. Measurements made by Lee Paper Co. Highest water level 0.55 below lsd, July 8, 1950; lowest 9.72 below lsd, Sept. 14, 1946. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Dec.
1	3.80	.....	.....	1.60	.....
2	2.95	5.15	.....	3.36	.....
3	2.55	.....	.....	3.65	.....
4	3.20	.....	4.00	3.53
5	2.30	.....	4.05	3.80
6	2.85	4.15	3.85
7	4.35	3.60
8	1.82	3.85
9	5.08	.....	.....	.....	3.36	1.60
10	5.20	.....	.....	.....	3.55	1.09

Ko VB 7--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Dec.
11	....	5.35	....	4.77	....	3.75	2.92
12	....	5.30	....	4.20	3.55	....	3.18
13	....	5.30	....	4.30	....	....	3.25
14	....	5.40	....	....	....	....	3.37
15	....	5.40	....	....	3.77	....	3.50
16	....	5.40	....	....	4.10	....	3.85
17	....	5.50	....	....	1.92	....	3.75
18	....	2.70	....	4.01	3.93	....	3.75
19	....	4.78	....	4.00	3.43	....	4.50
20	....	4.92	5.30	....	....	....	3.88
21	....	5.06	....	....	....	....	1.75
22	....	5.05	....	....	3.91	....	....
23	4.97	5.02	....	....	3.90	....	....
24	5.06	5.45	....	....	....	....	....
25	5.14	5.20	....	....	....	....	....
28	5.22	5.30	....	....	....	....	....
27	5.26	5.30	....	3.94	4.07	....	1.29
28	5.24	5.25	4.66	3.92	....	....	1.75
29	5.24	5.25	4.90	3.92	....	....	....
30	5.27	3.50	....	....	2.12	....	....
31	e5.25	....	....	3.81	....	....	....

e Estimated.

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

Kalamazoo Township

Ko Ko 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: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	34.47	Apr. 18	34.46	July 27	34.69	Oct. 26	34.74
Feb. 28	34.28	May 24	34.58	Aug. 31	34.83	Nov. 29	34.69
Mar. 16	34.37	June 21	34.81	Sept. 28	34.90		

Schoolcraft Township

Ko Sc 4. H. H. Chamberlain. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 4 S., R. 11 W. Driven unused water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{4}$ inches, depth 19 feet. Highest water level 9.23 below lsd, May 9, 1950; lowest 15.79 below lsd, Mar. 10, 1947. Records available: 1945-51.

Aug. 6	12.32	Sept. 12	12.29	Oct. 23	12.55	Nov. 27	11.76
14	12.40	19	12.43	31	12.29	Dec. 4	11.62
21	12.14	25	12.43	Nov. 14	12.09	11	11.64
28	12.20	Oct. 2	12.50	20	11.89	19	11.64
Sept. 4	12.25	16	12.56				

Kalkaska County

Blue Lake Township

Ka Bk 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 9.46 below lsd, May 15, 1951; lowest 11.77 below lsd, Dec. 14, 1949. Records available: 1949-51.

Jan. 18	11.31	Apr. 18	9.63	Aug. 15	10.49	Nov. 12	10.38
Feb. 15	11.47	May 15	9.46	Sept. 18	10.83	Dec. 17	9.98
Mar. 14	11.24	July 16	10.06	Oct. 18	10.79		

Clearwater Township

Ka Cw 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 $\frac{1}{4}$ inches, depth 16 feet, screen at 14 to 16. Highest water level 11.12 below lsd, July 11, 1943; lowest 14.69 below lsd, Mar. 12, 1940. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	14.19	Apr. 18	12.82	July 16	12.76	Oct. 18	13.08
Feb. 15	14.21	May 15	12.31	Aug. 15	12.94	Nov. 13	12.64
Mar. 14	14.17	June 18	12.60	Sept. 18	13.19	Dec. 17	12.62

Kent County

City of Grandville

Ke GV 13. Winters & Crampton Co. Wallace and 30th Sts. Drilled observation water-table well in gravel of Pleistocene age, diameter 1 $\frac{1}{4}$ inches, depth 20 feet, screen at 17 to 20. Land-surface datum is 608.26 feet above msl. Measurements made by owner. Highest water level 9.09 below lsd, May 5, 1950; lowest 15.18 below lsd, Dec. 1, 1950. Records available: 1950-51.

Jan. 2	14.58	Apr. 10	12.56	June 6	11.94	Sept. 21	13.24
5	14.60	14	12.60	8	11.97	28	13.30
9	14.39	17	12.58	12	12.02	Oct. 5	13.26
12	14.31	21	12.47	15	12.09	12	13.20
16	14.16	24	12.39	22	11.98	19	13.17
19	14.07	27	12.40	29	11.68	25	13.31
23	13.85	May 1	12.08	July 13	11.80	Nov. 1	13.24
26	13.85	4	12.10	20	12.00	9	13.19
27	12.44	8	11.94	27	12.18	15	12.97
Mar. 2	13.23	11	11.98	Aug. 3	12.62	23	12.35
9	12.86	15	11.88	11	12.57	29	12.18
16	12.54	18	13.06	17	12.70	Dec. 6	12.07
23	12.54	22	12.95	24	11.98	12	11.90
30	12.60	25	12.09	31	12.65	20	11.77
Apr. 3	12.55	29	11.93	Sept. 7	12.85	27	11.69
6	12.66	June 1	11.96	14	12.97		

Livingston County

City of Howell

Lg HO 12. City of Howell. Michigan Ave. and Pere Marquette Railroad. Drilled unused artesian well in deposits of Pleistocene age, diameter 8 inches, depth 58 feet. Measurements made by Dept. of Public Works. Highest water level 8.60 below lsd, May 14, 1951; lowest 16.80 below lsd, Dec. 3, 1951. Records available: 1949-51.

Jan. 2	10.60	Apr. 2	9.35	July 2	10.05	Oct. 8	12.15
8	10.30	9	9.15	9	10.40	15	11.10
14	10.45	16	9.85	16	9.15	16	12.19
22	10.45	23	9.95	23	10.70	22	10.85
29	11.05	30	10.00	Aug. 6	9.85	29	11.30
Feb. 5	9.85	May 7	9.05	13	10.95	Nov. 5	10.90
12	10.65	14	8.60	20	10.15	12	11.20
19	10.60	21	8.75	27	9.65	19	10.70
26	9.65	28	9.70	Sept. 4	10.65	26	12.15
Mar. 5	10.45	June 4	9.90	10	10.15	Dec. 3	16.80
12	10.45	11	9.65	17	11.10	10	13.85
19	10.05	18	10.35	24	10.90	17	13.30
26	10.15	25	9.65	Oct. 1	11.15	31	12.15

Manistee County

Norman Township

Ms Nr 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: 1949-51.

Ms Nr 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	15.79	May 8	12.54	Aug. 6	14.01	Oct. 8	15.09
Mar. 8	15.21	June 5	12.85	Sept. 19	14.86	Dec. 13	14.31
Apr. 10	13.48	July 12	13.51				

Mason County

Logan Township

Ma Lo 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. Highest water level 14.80 below lsd, May 31, 1950; lowest 18.50 below lsd, Feb. 28, Mar. 1, 1951. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	Oct.	Nov.	Dec.
1	18.10	18.31	18.50	17.38	15.97	15.01	.....	17.40	16.88
2	18.10	18.31	18.49	17.35	15.90	15.01	.....	17.38	16.85
3	18.10	18.32	18.43	17.32	15.83	15.01	.....	17.35	16.83
4	18.11	18.34	18.37	17.27	15.76	15.03	.....	17.32	16.81
5	18.12	18.35	18.31	17.21	15.69	15.05	.....	17.32	16.80
6	18.13	18.37	e18.26	17.16	15.63	15.06	.....	17.32	16.78
7	18.14	18.37	e18.22	17.09	15.57	15.06	.....	17.29	16.76
8	18.14	18.38	e18.18	17.03	15.51	15.06	.....	17.28	16.76
9	18.15	18.38	e18.13	16.97	15.45	15.06	.....	17.28	16.75
10	18.16	18.39	e18.08	16.92	15.41	15.08	.....	17.28	16.74
11	18.16	18.40	e18.04	16.87	15.36	15.10	17.29	17.28	16.71
12	18.18	18.41	e17.98	16.81	15.32	.....	17.30	17.28	16.71
13	18.18	18.41	17.95	16.76	15.29	.....	17.31	17.26	16.70
14	18.19	18.41	17.90	16.70	15.25	.....	17.32	17.25	16.70
15	18.19	18.41	17.86	16.65	15.22	.....	17.33	17.26	16.68
16	18.21	18.42	17.83	16.61	15.18	.....	17.36	17.28	16.68
17	18.21	18.43	17.79	16.57	15.16	.....	17.36	17.28	16.68
18	18.21	18.43	17.75	16.53	15.14	.....	17.37	17.26	16.66
19	18.22	18.44	17.71	16.48	15.11	.....	17.40	17.25	16.67
20	18.23	18.45	17.68	16.45	15.08	.....	17.41	17.23	16.66
21	18.24	18.45	17.65	16.41	15.07	.....	17.42	17.19	16.65
22	18.25	18.46	17.61	16.35	15.05	.....	17.43	17.15	16.65
23	18.25	18.47	17.58	16.32	15.04	.....	17.44	17.11	16.65
24	18.25	18.47	17.55	16.28	15.02	.....	17.45	17.08	16.65
25	18.26	18.48	17.53	16.23	15.01	.....	17.47	17.05	16.65
26	18.27	18.48	17.51	16.19	15.00	.....	17.48	17.01	16.64
27	18.28	18.49	17.49	16.15	14.99	.....	17.49	16.98	16.64
28	18.29	18.50	17.47	16.10	15.00	.....	17.47	16.95	16.63
29	18.29		17.44	16.06	15.01	.....	17.47	16.93	16.62
30	18.31		17.42	16.01	15.01	.....	17.44	16.90	16.62
31	18.31		17.40		15.02		17.41		16.62

e Estimated.

* No record for July, August, and September.

Montcalm County

City of Greenville

Mm GV 9. City of Greenville. Fairplain St. and Pere Marquette Railroad. Drilled unused artesian well in gravel of Pleistocene age, diameter 12 inches, depth 65 feet, screen at 45 to 65. Measurements made by Greenville Water Works. Highest water level 11.40 below lsd, Apr. 1, 1950; lowest 15.35 below lsd, Oct. 11, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	14.40	Feb. 28	13.50	Apr. 25	14.12	June 20	14.37
10	14.18	Mar. 7	13.50	May 2	13.72	27	14.66
17	14.60	14	13.99	9	14.46	July 4	14.46
24	14.70	21	14.22	16	14.88	11	14.66
31	14.70	28	14.25	23	14.61	18	14.86
Feb. 7	14.90	Apr. 4	13.98	30	15.07	25	15.12
14	14.78	11	14.06	June 6	14.07	Aug. 1	14.76
21	14.40	18	13.88	13	14.55	8	14.87

Mm GV 9--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 15	14.94	Sept. 19	14.56	Oct. 24	13.07	Nov. 28	13.48
22	14.19	26	14.34	31	13.78	Dec. 5	13.56
29	14.54	Oct. 3	14.34	Nov. 7	14.18	12	13.43
Sept. 5	14.66	10	13.53	14	13.78	19	13.95
12	14.34	17	13.84	21	12.92	26	13.76

Montmorency County

Albert Township

My Ab 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 0.99 above lsd, May 4-5, 1951; lowest 4.95 below lsd, Jan. 29, 1949. Records available: 1948-51.

Daily 2 a. m. water level, above and below lsd, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-0.39	-0.41	-0.42	-0.21	+0.85	+0.75	+0.52	+0.31	+0.01	-0.16	+0.01	+0.29
2	.36	.43	.48	.15	.90	.78	.48	e.25	.00	.12	.04	.28
3	.31	.50	.46	.11	.98	.78	.45	.27	-.01	.10	.08	.28
4	.30	.48	.39	.06	.99	.76	.58	.18	.04	.14	.14	.35
5	.43	.50	.49	-.05	.99	.72	.53	.17	.04	.13	+0.06	.30
6	.44	.53	.47	-.02	.95	.73	.46	.19	.00	.18	-.02	.31
7	-.46	.38	.43	+0.11	.96	.74	.46	.24	-.03	.18	+0.08	.36
8	....	.51	.43	.22	.98	.74	.49	.24	+0.08	.09	.15	.26
9	....	.58	.45	.23	.96	.75	.54	.22	.07	.13	.09	.22
10	....	.60	.51	.40	.88	.77	.46	.16	.04	.16	.08	.23
11	-.36	.48	.48	.55	.94	.73	.42	.15	+0.03	.13	.06	.30
12	.43	.47	.41	.73	.97	.70	.42	.14	-.04	.13	.06	.31
13	.42	.56	.35	.94	.89	.69	.43	.12	.03	.16	.16	-.24
14	.36	.65	.32	.94	.86	.68	.43	.13	.07	.14	.22	....
15	.26	.62	.31	.94	.87	.67	.43	.13	-.10	.07	.18	....
16	.33	.59	.33	.88	.90	.67	.45	.16	....	.10	.12	....
17	.32	.51	.38	.86	.87	.65	.41	.12	....	.12	.12	....
18	.37	.56	.41	.84	.86	.65	.42	.10	....	.13	.15	-.18
19	.35	.55	.35	.91	.88	.66	.45	.09	....	.06	.16	.17
20	.38	.56	.32	.78	.92	.68	.44	.09	-.16	.12	.15	.17
21	.40	.56	.35	.76	.92	.64	.42	.16	.14	.08	.20	.27
22	.49	.59	.34	.87	.88	.59	.44	.09	.16	.06	.28	.27
23	.40	.60	.31	.82	.86	.60	.38	.03	.13	.10	.27	.15
24	.36	.59	-.22	.77	.88	.57	.37	.02	.16	.02	.26	.12
25	.40	.54	....	.78	.88	.54	.37	.03	.16	.06	.22	.07
26	.42	.50	....	.83	.88	.54	.37	.06	.18	.06	.33	.13
27	.41	.43	....	.82	.92	.58	.36	.08	.05	-.02	.22	.09
28	.48	.55	....	.91	.87	.55	.34	.06	.14	+0.03	.31	.10
29	.47	....	-.22	.95	.81	.53	.33	.04	.23	.03	.28	.20
30	.50	....	.20	.88	.78	.53	.32	.02	.21	.07	.27	.19
31	.48	....	.19	....	.75	....	.35	.07	....	.12	....	.11

Briley Township

My Br 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; lowest dry Oct. 27, 1939. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	11.04	Apr. 19	8.43	July 19	9.73	Oct. 22	9.80
Feb. 16	11.27	May 16	8.89	Aug. 16	10.19	Nov. 26	9.14
Mar. 23	10.69	June 19	9.68	Sept. 21	10.48	Dec. 18	9.51

Hillman Township

My Hm 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 3.20 below lsd, Mar. 29, 1938; lowest 7.76 below lsd, Dec. 15, 1949. Records available: 1936-44, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	6.36	Apr. 19	3.93	July 19	5.20	Oct. 22	5.28
Feb. 16	6.62	May 16	4.17	Aug. 16	5.67	Nov. 26	4.51
Mar. 23	6.11	June 19	4.93	Sept. 21	5.96	Dec. 18	4.85

Loud Township

My Ld 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 2.83 below lsd, May 16, 1951; lowest 5.86 below lsd, Dec. 15, 1949. Records available: 1945-51.

Jan. 19	5.10	Apr. 19	3.29	July 19	3.70	Oct. 22	4.64
Feb. 16	5.24	May 16	2.83	Aug. 16	4.39	Nov. 26	4.33
Mar. 23	4.93	June 19	3.28	Sept. 21	4.61	Dec. 18	4.33

Montmorency Township

My My 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 18.38 below lsd, May 26, 1948; lowest 20.97 below lsd, Aug. 17, 1949. Records available: 1948-51.

Jan. 19	20.73	Apr. 19	19.46	July 19	18.93	Oct. 22	19.03
Feb. 16	20.72	May 16	19.14	Aug. 16	19.02	Nov. 26	18.81
Mar. 23	20.60	June 19	19.18	Sept. 21	19.14	Dec. 18	18.74

Rust Township

My Rs 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. Add 0.82 foot to all measurements 1945 through 1950. Highest water level 0.78 above lsd, July 2, 1945; lowest 2.33 below lsd, Sept. 23, 1948. Records available: 1935-37, 1945-51.

Jan. 19	-0.16	Apr. 19	+0.11	July 19	-1.03	Oct. 22	-0.08
Feb. 16	-.21	May 16	-.61	Aug. 16	-.68	Nov. 26	-.05
Mar. 25	-.43	June 19	-.16	Sept. 21	-.82	Dec. 16	+0.07

Oakland County

City of Bloomfield Hills

Oa Oh 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 at 58-65. Measurements made by Water Dept. Highest water level 11.90 below lsd, Apr. 13, 1951; lowest 15.60 below lsd, Sept. 1, 1951. Records available: 1950-51.

Daily 2 a. m. water level from recorder graph, 1950*

Day	Sept.	Oct.	Nov.	Dec.	Day	Sept.	Oct.	Nov.	Dec.
1	14.59	14.21	13.74	17	.....	14.50	14.15	13.00
2	14.61	14.25	13.65	18	.....	14.62	14.28	.....
3	14.66	14.25	13.20	19	.....	14.60	14.30	.....
4	14.69	14.27	13.15	20	14.32	14.55	14.25	.....
5	14.73	14.30	13.15	21	14.24	14.53	14.26	12.95
6	14.72	14.20	13.15	22	14.26	14.50	14.22	12.88
7	14.77	14.25	.....	23	14.29	14.43	14.19	12.88
8	14.71	14.24	.....	24	14.36	14.38	14.10	12.80
9	14.71	14.15	.....	25	14.31	14.28	.....	12.90
10	14.59	14.28	.....	26	14.40	14.27	.....	12.90
11	14.26	12.62	27	14.36	14.26	.....	13.00
12	14.26	e12.85	28	14.39	14.24	.....	13.15
13	14.53	14.21	12.90	29	14.40	14.20	.....	13.00
14	14.52	14.20	12.82	30	14.52	14.12	13.75	13.06
15	14.53	14.15	12.80	31	.....	14.18	.....	13.10
16	14.46	14.12	12.90					

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

Oa BH 2--Continued.

Daily 2 a. m. water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	13.20	13.12	12.20	.....	13.24	.....	15.06	15.60	15.51	15.06	14.28
2	.....	13.25	13.15	12.15	.....	13.02	.....	e15.25	15.58	15.53	15.05	14.28
3	.....	13.25	13.15	12.25	.....	13.18	.....	15.29	15.44	15.53	15.04	14.25
4	12.87	13.30	13.05	12.23	.....	13.20	.....	15.30	15.38	15.55	15.01	14.29
5	12.90	13.22	13.00	12.28	.....	13.15	.....	15.32	15.41	15.56	14.97	14.19
6	12.87	13.37	13.05	12.28	.....	13.06	.....	15.24	15.44	15.55	15.05	14.04
7	13.20	13.33	13.10	12.27	13.00	13.51	.....	15.25	15.43	15.52	15.01	13.95
8	13.33	.....	13.20	12.28	.....	13.79	.....	15.24	15.40	15.45	14.93	13.93
9	13.25	.....	13.10	12.03	.....	13.98	.....	.....	15.42	15.46	14.84	13.87
10	13.30	.....	13.17	11.98	.....	14.12	.....	15.29	15.37	15.45	14.80	13.81
11	13.10	.....	13.20	12.03	13.22	14.23	.....	15.32	15.42	15.51	14.79	13.86
12	13.05	.....	13.12	11.98	12.72	14.34	.....	15.33	15.40	15.50	14.74	13.88
13	13.07	.....	13.17	11.90	12.90	14.40	.....	15.33	15.48	15.45	14.73	13.91
14	13.04	.....	13.20	12.63	12.80	14.25	.....	15.39	15.45	15.44	14.61	13.95
15	12.93	13.25	13.10	12.25	12.82	14.12	.....	15.48	15.43	15.40	14.45	13.98
16	13.05	13.25	13.08	12.10	12.83	14.06	.....	15.46	15.45	15.37	14.34	14.02
17	13.10	13.20	13.08	12.18	12.91	14.02	.....	15.36	15.41	15.35	14.24	13.99
18	13.20	13.15	13.05	12.50	12.85	14.00	.....	15.28	15.45	15.36	14.17	14.03
19	13.26	13.00	13.04	12.35	12.93	14.05	.....	15.24	15.45	15.42	14.11	14.09
20	13.25	12.95	13.10	.....	12.97	14.10	14.93	15.18	15.50	.....	14.16	14.09
21	13.10	12.74	13.15	.....	12.94	14.15	14.99	15.24	15.55	.....	14.17	14.05
22	13.00	.....	13.17	.....	12.99	14.18	15.02	15.21	15.55	.....	14.17	14.03
23	13.05	13.30	13.13	.....	12.91	14.10	14.97	15.27	15.53	.....	14.15	14.00
24	13.10	13.31	13.08	.....	12.94	14.20	14.94	15.31	15.49	.....	14.15	13.94
25	13.10	13.31	13.17	.....	12.89	14.17	14.98	15.34	15.53	.....	14.17	13.96
26	13.12	13.28	13.13	.....	12.89	14.25	15.03	15.34	15.55	.....	14.07	13.91
27	13.17	13.17	.....	.....	12.83	14.25	15.08	15.32	15.56	15.28	14.17	13.97
28	13.18	13.17	12.80	.....	12.88	14.13	15.08	15.38	15.57	15.20	14.20	13.99
29	13.13	.....	12.70	.....	12.94	14.11	15.05	15.50	15.57	15.12	14.24	14.00
30	13.25	.....	12.48	.....	13.00	14.10	14.98	15.54	15.57	15.10	14.27	13.97
31	13.25	.....	12.30	.....	12.96	.....	15.03	15.54	.....	15.07	.....	13.90

e Estimated.

City of Pontiac

Oa PT 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. Measurements made by Dept. of Water Supply. Highest water level 99.55 below lsd, Apr. 22, 1940; lowest 117.0 below lsd, Aug. 15, 1951. Records available: 1939-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	109.0	112.3	113.0	.....	107.2	109.6	113.0	114.7	.....	.....	111.4	109.9
2	108.7	112.6	112.7	107.2	107.7	110.2	111.9	113.9	.....	.....	111.9	109.1
3	108.2	112.8	112.3	107.3	107.8	107.4	113.5	112.9	.....	.....	111.8	109.3
4	108.6	112.0	111.1	107.9	107.7	106.9	113.6	113.1	114.13	.....	110.7	109.7
5	109.3	110.9	110.6	107.7	107.7	108.5	112.6	113.4	.....	.....	110.5	110.6
6	109.5	112.5	111.1	108.2	107.1	108.2	113.6	113.1	.....	.....	112.2	110.8
7	109.5	112.0	110.5	108.5	106.8	109.4	114.2	111.8	.....	.....	111.5	110.4
8	107.5	112.8	110.6	107.6	107.2	110.3	113.1	111.9	.....	.....	112.0	111.2
9	108.9	112.5	111.2	106.5	107.5	108.7	112.3	113.8	.....	.....	111.8	.....
10	109.8	112.0	111.2	107.5	.....	106.8	112.1	114.8	.....	.....	112.2	110.0
11	110.2	111.4	.....	107.9	.....	106.9	113.5	115.6	.....	.....	111.6	110.3
12	110.0	110.5	.....	108.2	106.1	108.7	114.1	115.8	.....	.....	110.0	110.2
13	110.2	112.1	.....	108.2	106.0	110.9	114.3	114.6	.....	.....	110.6	110.7
14	108.4	113.1	.....	108.5	108.0	110.1	.....	115.5	.....	.....	.....	111.3
15	107.5	113.7	109.0	107.1	106.9	110.2	.....	117.0	.....	.....	.....	.....
16	108.8	114.0	108.6	105.7	108.2	111.6	112.7	115.3	.....	.....	.....	.....
17	110.1	112.7	109.2	105.4	109.5	109.6	114.0	115.9	.....	.....	.....	.....
18	110.8	113.6	108.3	107.5	109.2	110.4	114.5	115.9	113.0	.....	.....	.....
19	111.5	111.8	109.9	107.6	109.2	112.1	114.2	114.1	.....	.....	.....	.....
20	111.6	113.0	110.0	108.1	108.6	112.9	113.9	113.3	.....	.....	.....	.....
21	110.2	113.1	108.8	108.6	107.3	113.3	114.5	.....	.....	.....	.....	.....
22	110.9	.....	109.4	108.0	109.1	113.6	.....	.....	.....	.....	.....	.....
23	111.2	.....	110.4	107.2	109.4	112.6	112.4	.....	.....	.....	.....	.....
24	111.1	.....	108.7	107.9	109.6	112.1	112.3	.....	.....	.....	.....	109.7
25	111.6	.....	109.0	107.8	109.2	110.6	113.4	.....	.....	.....	.....	110.1

Oa PT 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	111.8	.....	108.0	107.9	110.1	112.5	114.7	.....	.....	.....	108.71	108.1
27	111.6	113.1	107.4	108.4	109.0	113.2	115.3	113.57	.....	.....	108.4	110.2
28	111.8	113.5	108.7	107.3	107.9	113.6	115.5	.....	.....	.....	109.4	110.3
29	110.7		108.9	107.3	108.3	113.9	113.9	.....	.....	.....	110.3	109.8
30	112.5		108.7	108.2	108.7	114.0	113.3	.....	.....	.....	109.5	108.9
31	112.8	.....	.....	107.4	107.4	114.0	114.0	.....	.....	111.45	.....	108.9

e Estimated.

Ogemaw County

Clacking Township

Og Ka 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, diameter 36 by 48 inches, depth 6 feet, cribbed with wood. Highest water level 1.70 below lsd, July 26, 1951; lowest 2.62 below lsd, Sept. 26, 1951. Records available: 1951.

Daily 2 a. m. water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.16	2.48	2.10	1.94
2	1.80	2.23	2.54	2.09	1.92
3	2.28	2.47	2.09	1.90
4	2.32	2.54	2.07	1.71
5	2.43	2.10	1.86
6	2.32	2.44	2.12	1.88
7	2.34	2.48	2.08	1.79
8	2.41	2.19	2.07	1.90
9	1.90	2.45	2.29	2.08	1.91
10	2.34	2.05	1.92
11	2.36	2.04	1.92
12	2.39	2.05	1.93
13	2.40	2.42	1.80	1.95
14	2.42	2.44	1.73	1.97
15	2.45	2.46	1.89	1.96
16	1.95	2.47	2.49	1.94	1.97
17	2.01	2.43	2.52	1.96	1.98
18	2.02	2.50	2.46	1.97	1.98
19	2.06	2.53	2.36	1.98	1.97
20	2.09	2.58	2.43	2.00	1.99
21	1.97	2.60	2.46	1.99	1.97
22	2.02	2.55	2.39	1.96	1.96
23	2.10	2.48	2.43	1.94	1.98
24	2.13	2.56	1.95	1.96	1.99
25	2.16	2.57	1.98	1.99	2.00
26	1.70	2.18	2.62	2.08	1.95	2.00
27	2.14	2.33	2.10	1.97	2.00
28	2.18	2.47	2.10	1.96	2.00
29	2.22	2.54	2.11	1.97	1.98
30	2.25	2.58	2.10	1.95	1.98
31	1.76	2.20	.....	2.08	.....	1.98

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

Otsego County

Otsego Lake Township

On Ok 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 at 12 to 14. Highest water level 5.56 below lsd, May 14, 1947; lowest 9.68 below lsd, Sept. 16, 1941. Records available: 1933-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	8.75	Apr. 18	6.92	July 18	8.01	Oct. 18	8.61
Feb. 15	8.87	May 15	6.98	Aug. 15	8.38	Nov. 13	8.17
Mar. 14	8.45	June 18	7.63	Sept. 18	8.69	Dec. 17	7.68

Ottawa County

City of Holland

Ot HO 12. City of Holland. Cleveland Ave., and 26th St. Drilled unused artesian well in gravel of Pleistocene age, diameter 18 inches, depth 29 feet. Measurements made by Board of Public Works. Highest water level 2.20 below lsd, Apr. 25, 1950; lowest 5.35 below lsd, Nov. 17, 18, 1949. Records available: 1949-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.28	4.08	3.34	3.73	2.92	3.79	3.35	....	4.39	3.94	3.92	3.56
2	4.20	4.11	3.39	3.70	3.00	3.73	3.45	....	4.40	3.95	3.93	3.59
3	3.92	4.12	3.33	3.68	3.06	3.66	3.45	....	4.42	3.96	3.94	3.61
4	3.51	4.12	3.06	3.70	3.13	3.70	3.46	....	4.44	3.99	3.96	3.60
5	3.51	4.15	3.15	3.76	3.21	3.74	3.48	....	4.45	4.02	3.95	3.54
6	3.57	4.13	3.19	3.78	3.29	3.77	3.51	....	4.45	4.05	3.99	3.54
7	3.62	....	3.28	3.77	3.35	3.80	3.54	4.38	4.47	4.02	3.99	3.56
8	3.67	....	3.34	3.69	3.39	3.82	3.57	4.38	4.48	3.72	4.03	3.58
9	3.72	....	3.43	3.35	3.44	3.85	3.62	4.39	4.48	3.68	4.04	3.56
10	3.76	....	3.49	3.33	3.50	3.87	3.67	4.41	4.49	3.70	4.02	3.60
11	3.81	....	3.51	3.40	3.25	3.90	3.68	4.42	4.43	3.71	3.91	3.59
12	3.86	....	3.52	3.38	3.04	3.92	3.73	4.44	4.43	3.76	3.78	3.62
13	3.90	3.86	3.52	3.29	3.16	3.94	3.78	4.45	4.41	3.80	3.63	3.67
14	3.90	3.81	3.56	3.25	3.25	3.96	3.83	4.47	4.37	3.82	2.91	3.70
15	3.91	3.79	3.58	3.24	3.32	3.98	3.87	4.34	4.37	3.85	2.89	3.69
16	3.99	3.78	3.60	3.30	3.36	4.00	3.91	4.16	4.37	3.88	2.99	3.76
17	3.97	3.81	3.64	3.36	3.43	4.02	3.94	4.14	4.38	3.91	3.10	3.78
18	4.00	3.85	3.66	3.40	3.48	4.05	3.97	4.12	4.40	3.93	3.17	3.78
19	4.02	3.73	3.68	3.37	3.52	4.07	3.99	4.12	4.40	3.95	3.25	3.80
20	3.95	3.17	3.69	3.39	3.55	3.16	4.03	4.14	4.42	3.96	3.32	3.76
21	3.90	3.06	3.72	3.41	3.59	3.26	4.05	4.14	4.44	3.97	3.35	3.77
22	3.88	3.09	3.75	3.39	3.62	3.03	4.08	4.19	4.44	3.99	3.39	3.83
23	3.89	3.15	3.75	3.42	3.63	2.73	4.11	4.23	4.42	4.03	3.30	....
24	3.92	3.19	3.78	3.44	3.65	2.88	4.13	4.25	4.43	3.90	3.26	....
25	3.96	3.22	3.81	3.43	3.67	3.03	4.14	4.27	4.43	3.77	3.36	....
26	3.99	3.24	3.82	3.03	3.68	3.11	4.16	4.29	4.44	3.73	3.39	....
27	3.98	3.30	3.82	3.05	3.67	3.13	4.19	4.30	4.15	3.75	3.48	....
28	4.02	3.38	3.81	3.09	3.71	3.17	....	4.32	3.90	3.75	3.49	....
29	4.05	....	3.80	3.17	3.73	3.23	....	4.34	3.90	3.82	3.54	....
30	4.09	....	3.78	2.92	3.76	3.30	....	4.36	3.92	3.84	3.55	....
31	4.07	....	3.80	....	3.78	....	....	4.36	....	3.88	....	....

Holland Township

Ot Ho 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. Measurements made by Board of Public Works. Highest water level 56.44 below lsd, Aug. 8, 1946; lowest 88.96 below lsd, Sept. 11, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	77.00	Apr. 3	82.24	July 3	83.45	Oct. 2	87.13
9	77.85	10	82.60	10	84.08	9	86.85
16	76.95	17	83.11	17	85.42	16	88.21
23	77.44	24	83.25	24	85.77	24	88.48
30	78.06	May 1	83.42	31	86.30	30	88.28
Feb. 6	77.82	8	83.47	Aug. 7	87.35	Nov. 6	88.66
13	79.99	15	84.31	14	88.41	13	86.84
20	80.30	22	84.31	21	88.60	20	88.15
27	80.70	29	84.42	28	88.21	27	87.43
Mar. 6	81.17	June 5	85.13	Sept. 4	88.94	Dec. 4	87.00
13	81.11	12	82.21	11	88.96	11	86.63
20	81.67	19	81.01	18	87.89	18	87.14
27	81.84	26	81.50	25	88.19	26	87.10

Ot Ho 21. 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 of Pleistocene age, diameter 1 inch, reported depth 290 feet. Land-surface datum is 640.58 feet above msl. Measurements made by Board of Public Works. Highest water level 47.45 below lsd, Sept. 27, 1949; lowest 63.42 below lsd, Dec. 26, 1951. Records available: 1949-51. Wells Ot Ho 21 and Ot Ho 22 were formerly Ot Ho 8 which consisted of a 6-inch well inside an 8-inch well. The 6-inch and 8-inch pipes were pulled up Sept. 27, 1949 and two 1-inch pipes were put in the same holes. These 1-inch wells were designated Ot Ho 21 and Ot Ho 22. To make the measurements correlate with the former 6-inch and 8-inch wells, add 9.10 feet to the 1950 measurements.

Ot Ho 21--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	57.09	Apr. 3	58.29	July 3	59.78	Oct. 2	62.36
9	57.31	10	58.39	10	59.88	9	62.57
16	57.41	17	58.64	17	60.08	16	62.70
23	57.48	24	58.91	24	60.28	24	62.72
30	57.58	May 1	58.82	31	60.45	30	62.80
Feb. 6	57.36	8	59.03	Aug. 7	60.65	Nov. 6	62.95
13	57.55	15	59.23	14	60.71	13	62.72
20	57.56	22	59.26	21	61.04	20	63.23
27	57.65	29	59.33	28	61.36	27	63.24
Mar. 6	57.75	June 5	59.56	Sept. 4	61.71	Dec. 4	63.08
13	57.89	12	59.60	11	61.78	11	63.20
20	58.06	19	59.55	18	62.11	18	63.24
27	58.23	26	59.58	25	62.32	26	63.42

Ot Ho 22. Formerly Ot Ho 8. 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. Measurements made by Board of Public Works. Highest water level 5.72 above lsd, May 11, 1948; lowest 1.25 below lsd, Oct. 4, 1949. Records available: 1946-51. Subtract 3.75 feet from 1950 measurements.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	-0.83	Apr. 10	+0.02	June 26	+0.44	Sept. 11	-0.07
16	.70	17	.16	July 3	.43	18	.08
23	.59	24	.26	10	.34	25	.12
Feb. 6	.59	May 1	.39	17	.25	Oct. 2	.13
13	.49	8	.49	24	.19	9	.10
20	.39	15	.53	31	.12	16	-.05
27	.17	22	.57	Aug. 7	+0.00	24	+0.01
Mar. 6	.07	29	.56	14	-.06	30	.06
13	.15	June 5	.53	21	.05	Nov. 13	.11
27	.27	12	.48	28	.05	Dec. 4	.21
Apr. 3	-.14	19	.39	Sept. 4	-.06	11	.43

Presque Isle County

Allis Township

Pr As 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, 1948-51. Oct. 31, 2.34.

Roscommon County

Au Sable Township

Ro As 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 at 16 to 19. Highest water level 14.40 below lsd, June 15, 1943; lowest dry Nov. 6, 1939 - May 2, 1940. Records available: 1934-51.

Jan. 15	17.67	Apr. 17	16.08	July 18	15.35	Oct. 19	16.38
Feb. 15	17.79	May 14	15.15	Aug. 14	15.66	Nov. 13	16.18
Mar. 19	17.42	June 12	15.22	Sept. 17	16.11	Dec. 14	16.16

Backus Township

Ro Bk 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 at 9 to 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: 1934-51.

Ro Bk 15--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	3.57	Apr. 17	1.75	July 18	2.67	Oct. 19	3.25
Feb. 15	3.79	May 14	2.01	Aug. 14	3.51	Nov. 13	2.65
Mar. 19	2.77	June 12	2.18	Sept. 17	4.15	Dec. 14	2.59

Denton Township

Ro Dt 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 at 11 to 13. Land-surface datum is 1,170.58 feet above msl. Highest water level 3.66 below lsd, May 13, 1943; lowest 8.25 below lsd, Dec. 13, 1949. Records available: 1934-51.

Jan. 15	7.74	Apr. 17	5.40	July 18	4.53	Oct. 19	5.63
Feb. 15	7.95	May 14	4.43	Aug. 14	5.37	Nov. 13	5.03
Mar. 19	7.26	June 12	4.36	Sept. 17	6.05	Dec. 14	4.80

Gerrish Township

Ro Gr 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 at 12 to 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: 1934-51.

Apr. 17	8.38	July 18	7.40	Sept. 17	8.75	Nov. 13	8.33
May 14	7.37	Aug. 14	8.09	Oct. 19	8.85	Dec. 14	8.01
June 12	7.48						

Ro Gr 17. State Dept. of Conservation. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 24 N., R. 3 W. Jetted observation water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 17 feet, screen at 15 to 17. Highest water level 10.30 below lsd, July 9, 1943; lowest 13.26 below lsd, Dec. 14, 1949. Records available: 1934-51. Subtract 0.26 foot from measurements Sept. 15, 1949 through 1950.

Jan. 15	12.77	Apr. 17	11.41	July 18	11.30	Oct. 19	11.70
Feb. 15	12.89	May 14	11.10	Aug. 14	11.54	Nov. 13	11.50
Mar. 19	12.61	June 12	11.25	Sept. 17	11.81	Dec. 14	11.45

Higgins Township

Ro Hg 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: 1934-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.23	5.33	4.91	4.33	2.80	3.47	3.95	4.23	4.69	4.78	4.26	4.11
2	5.23	5.34	4.89	4.23	2.79	3.45	3.98	4.25	4.73	4.78	4.25	4.11
3	5.22	5.34	4.87	4.18	2.78	3.47	4.00	4.23	4.75	4.77	4.25	4.12
4	5.22	5.34	4.86	4.14	2.80	3.49	3.91	4.28	4.77	4.78	4.24	4.10
5	5.23	5.35	4.87	4.12	2.82	3.51	3.43	4.30	4.79	4.78	4.26	4.11
6	5.24	5.35	4.86	4.05	2.85	3.53	3.48	4.31	4.80	4.80	4.28	4.09
7	5.25	5.34	4.77	3.98	2.88	3.55	3.50	4.31	4.80	4.81	4.25	4.08
8	5.24	5.36	4.76	3.84	2.89	3.57	3.52	4.32	4.83	4.75	4.25	4.10
9	5.24	5.36	4.77	3.72	2.92	3.59	3.55	4.34	4.85	...	4.27	4.10
10	5.25	5.37	4.78	3.64	2.97	3.60	3.60	4.37	4.87	4.72	4.27	4.10
11	5.25	5.35	4.76	3.61	2.98	3.63	3.65	4.39	4.80	4.71	4.28	4.07
12	5.27	5.36	4.75	3.58	3.00	3.65	3.68	4.41	4.82	4.71	4.28	4.07
13	5.28	5.37	4.72	3.52	3.07	3.66	3.72	4.44	4.80	4.71	4.25	4.09
14	5.27	5.38	4.72	3.41	3.10	3.68	3.76	4.45	4.85	4.71	4.19	4.12
15	5.25	5.36	4.71	3.37	3.12	3.70	3.80	4.47	4.88	4.70	4.14	4.10
16	5.27	5.38	4.72	3.33	3.14	3.72	3.83	4.48	4.90	4.71	4.12	4.13
17	5.27	5.37	4.72	3.30	3.17	3.74	3.86	4.50	4.91	4.72	4.10	4.14
18	5.28	5.38	4.71	3.27	3.20	3.76	3.89	4.52	4.92	4.72	4.08	4.13
19	5.28	5.38	4.69	3.24	3.22	3.79	3.91	4.54	4.94	4.71	4.07	4.17
20	5.29	5.35	4.69	3.24	3.23	3.78	3.94	4.56	4.95	4.69	4.07	4.16

Ro Hg 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	5.30	5.33	4.68	3.22	3.25	3.73	3.97	4.56	4.97	4.68	4.06	4.15
22	5.30	5.32	4.68	3.18	3.28	3.79	3.99	4.58	4.97	4.68	4.05	4.17
23	5.29	5.32	4.67	3.19	3.30	3.80	4.01	4.60	4.96	4.68	4.06	4.21
24	5.30	5.30	4.67	3.19	3.32	3.83	4.04	4.62	4.97	4.64	4.07	4.23
25	5.31	5.24	4.69	3.18	3.35	3.85	4.06	4.64	4.97	4.52	4.08	4.25
26	5.31	5.19	4.69	2.97	3.37	3.87	4.09	4.66	4.97	4.42	4.06	4.25
27	5.32	5.02	4.68	2.95	3.36	3.87	4.12	4.66	4.80	4.35	4.10	4.28
28	5.32	4.96	4.63	2.90	3.39	3.90	4.12	4.68	4.80	4.31	4.09	4.28
29	5.33		4.61	2.80	3.40	3.91	4.16	4.70	4.82	4.29	4.11	4.26
30	5.33		4.57	2.80	3.43	3.93	4.19	4.71	4.82	4.27	4.11	4.28
31	5.33		4.45		3.45		4.21	4.69		4.25		4.30

Markey Township

Ro Mk 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 3.47 below lsd, June 15, 1943; lowest 6.76 below lsd, Aug. 14, 1936. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	5.26	Apr. 17	3.75	July 18	4.45	Oct. 19	5.02
Feb. 15	5.33	May 14	4.09	Aug. 14	5.24	Nov. 13	4.62
Mar. 19	4.46	June 12	4.09	Sept. 17	5.57	Dec. 14	4.51

Richfield Township

Ro Rf 5. State Dept. of Conservation. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 22 N., R. 1 W. Jetted observation water-table well in sand of Pleistocene age, diameter 2 inches, depth 12 feet, screen at 10 to 12. Highest water level 1.10 below lsd, June 15, 1943; lowest 6.22 below lsd, Nov. 11, 1949. Records available: 1934-51. Subtract 0.54 foot from measurements Sept. 29, 1949 through 1950.

Jan. 15	5.29	Apr. 17	2.78	July 18	2.26	Oct. 19	2.55
Feb. 15	5.60	May 14	2.28	Aug. 14	3.19	Nov. 13	2.44
Mar. 19	4.24	June 12	2.14	Sept. 17	3.72	Dec. 14	2.43

Ro Rf 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 at 10 to 12. Highest water level 0.93 below lsd, Jan. 12, 1942; lowest 7.31 below lsd, Dec. 14, 1949. Records available: 1939-51. Add 1.00 foot to measurements Oct. 12, 1949 through 1950.

Jan. 15	5.68	Apr. 17	3.09	July 18	2.88	Oct. 19	4.22
Feb. 15	6.01	May 14	2.63	Aug. 14	3.35	Nov. 13	3.78
Mar. 19	4.92	June 12	3.00	Sept. 17	3.49	Dec. 14	3.64

Roscommon Township

Ro Ro 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: 1934-51. Add 1.30 feet to all measurements Sept. 23, 1938 through 1950.

Jan. 15	11.72	Apr. 17	10.77	July 18	11.05	Oct. 19	11.26
Feb. 15	11.72	May 14	10.75	Aug. 14	11.27	Nov. 13	11.05
Mar. 19	11.50	June 12	10.91	Sept. 17	11.43	Dec. 14	11.01

Saginaw County

Village of Chesaning

Sg CH 9. August Bauer. Clark and W. Broad Sts. Drilled unused artesian well in Saginaw formation, diameter 2 inches, depth 71 feet. Highest water level 39.66 below lsd, Nov. 23, 1951; lowest 65.54 below lsd, June 26, 1951. Records available: 1950-51.

Sg CH 9--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 10	58.15	June 20	65.46	Aug. 31	62.03	Oct. 30	41.53
17	56.71	26	65.54	Sept. 5	61.95	Nov. 8	41.76
23	58.54	July 3	59.13	11	62.58	13	39.91
May 1	59.30	11	56.52	18	57.36	23	39.66
8	58.67	18	57.52	25	53.28	29	43.76
15	60.49	24	62.59	Oct. 2	53.46	Dec. 7	42.08
23	63.10	31	62.75	9	54.08	14	43.93
30	64.71	Aug. 10	62.63	16	43.70	22	40.42
June 5	63.07	14	63.08	26	45.30	29	45.03
14	62.01	21	62.12				

St. Joseph County

City of Three Rivers

Sp TR 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 at 39 to 59. Land-surface datum is 790.52 feet above msl. Measurements made by city of Three Rivers. Highest water level 2.83 above lsd, Mar. 29, 1940; lowest 5.50 below lsd, Sept. 27, 1947. Records available: 1939-51.

Apr. 6	-0.07	June 8	+0.95	Aug. 10	-1.06	Oct. 5	-0.10
13	-1.07	15	-.02	17	1.07	12	1.00
20	+.93	22	-.08	24	1.06	19	-.80
27	-.04	29	-.08	31	1.10	26	+1.90
May 4	1.05	July 6	1.03	Sept. 7	2.05	Nov. 2	-.90
11	.01	13	1.05	14	-2.05	16	+.90
18	.09	20	1.08	21	+.93	23	-2.20
25	2.08	27	1.02	28	-1.08	30	.35
June 1	-1.04	Aug. 3	1.06				

Florence Township

Sp Fr 2. J. C. Barnhart. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 7 S., R. 11 W. Driven unused water-table well in deposits of Pleistocene age, diameter 1 $\frac{1}{2}$ inches, depth 21 feet. Highest water level 5.78 below lsd, July 6, 1950; lowest 15.67 below lsd, Jan. 9, 1947. Records available: 1945-51. Measurement discontinued.

Jan. 4	7.58	Feb. 8	7.74	Mar. 15	7.36	Apr. 19	7.00
11	7.65	15	7.75	22	7.37	26	7.06
18	7.59	22	7.75	29	7.36	May 3	6.95
25	7.65	Mar. 1	7.55	Apr. 5	7.37	10	6.97
Feb. 1	7.71	8	7.48	12	7.01	17	7.23

Sanilac County

Moore Township

Sa Mr 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 Marshall formation, diameter 3 inches, depth 150 feet, cased to 53. Highest water level 15.45 below lsd, Apr. 25, 1951; lowest 23.00 below lsd, Jan. 10, 1949. Records available: 1948-51.

Jan. 10	16.80	Apr. 11	15.66	July 11	17.80	Oct. 10	20.15
17	16.85	18	15.55	18	18.20	17	20.10
24	16.90	25	15.45	25	18.55	24	20.95
31	16.95	May 2	15.50	Aug. 1	18.70	31	20.95
Feb. 7	17.70	9	15.85	8	18.80	Nov. 7	20.70
14	17.25	16	16.50	15	19.50	14	20.65
21	15.80	23	16.60	22	19.40	21	19.70
28	15.80	30	16.80	30	19.60	28	19.30
Mar. 7	15.80	June 6	16.60	Sept. 5	20.45	Dec. 5	18.56
14	15.75	13	16.60	12	20.40	12	18.30
21	15.70	20	17.10	18	20.35	19	18.25
28	15.65	27	17.35	26	20.50	26	18.23
Apr. 4	15.65	July 4	17.60	Oct. 3	20.25		

Shiawassee CountyVillage of Perry

Sh PR 8. Arthur B. Cobb. 115 W. Second St., Perry. Driven unused water-table well in deposits of Pleistocene age, diameter 1½ inches, depth 26 feet. Measurements made by owner. Highest water level 17.28 below lsd, May 3, 1950; lowest 20.90 below lsd, Dec. 19, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 29	18.01	May 7	17.56	June 26	18.50	Dec. 3	19.80
Apr. 17	17.80	14	17.60	July 6	18.80	20	19.80
May 2	17.60	June 11	18.20	18	19.10	27	19.80

Washtenaw CountyCity of Ypsilanti

Wa YP 3. City of Ypsilanti. Spring and Chidister Sts. Drilled unused water-table well in deposits of Pleistocene age, diameter 8 inches, depth 67 feet. Measurements made by Dept. of Public Utilities. Highest water level 6.33, Nov. 5, 1945; lowest 26.1, Nov. 12, 1949. Records available: 1944-46, 1948-49. Measurement discontinued.

Corrected measurements Sept. 25, 1948 through Dec. 31, 1949

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1948	19.5	Jan. 8, 1949	13.8	June 4, 1949	22.8	Sept. 10, 1949	17.8
Oct. 2	20.5	15	17.9	11	20.9	24	17.8
9	19.3	22	17.8	18	19.0	Oct. 1	18.7
16	19.0	29	17.8	25	21.0	8	15.7
23	19.7	Feb. 5	17.4	July 2	23.7	15	11.6
30	19.2	12	19.0	9	20.9	22	14.5
Nov. 2	18.3	19	18.3	16	19.8	29	12.8
13	20.1	26	18.5	23	19.2	Nov. 5	12.1
20	18.9	Mar. 5	11.0	30	21.3	12	26.1
27	17.5	26	18.7	Aug. 6	21.1	19	19.2
Dec. 4	17.6	Apr. 2	18.7	13	18.3	Dec. 10	17.6
11	18.0	30	17.3	20	18.9	17	18.0
18	18.1	May 7	20.6	27	20.3	24	16.7
28	17.3	28	12.3	Sept. 3	18.2	31	17.2

Wa YP 40. City of Ypsilanti. River St. and Michigan Ave. Drilled unused water-table well in gravel of Pleistocene age, diameter 6 inches, depth 50 feet, screen at 46 to 49. Measurements made by Dept. of Public Utilities. Highest water level 23.58, June 4, 1945; lowest 27.99, Sept. 18, 1948. Records available: 1944-46, 1948-49. Measurement discontinued.

Corrected measurements Sept. 25, 1948 through Dec. 31, 1949

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1948	26.9	Jan. 8, 1949	26.6	June 4, 1949	26.6	Sept. 10, 1949	27.1
Oct. 2	26.8	15	26.7	11	26.6	24	26.7
9	27.0	22	26.4	18	26.8	Oct. 1	26.8
16	26.7	29	26.5	25	27.5	8	26.5
23	26.7	Feb. 5	26.2	July 2	27.3	15	26.6
30	26.8	12	26.9	9	27.1	22	26.7
Nov. 2	26.8	19	25.1	16	27.3	29	26.5
13	26.5	26	25.1	23	27.1	Nov. 5	26.8
20	26.7	Mar. 5	25.2	30	27.2	12	21.2
27	26.6	26	25.3	Aug. 6	27.4	19	27.4
Dec. 4	26.6	Apr. 2	25.3	13	26.9	Dec. 10	26.4
11	26.8	30	25.7	20	27.2	17	26.8
18	26.5	May 7	25.9	27	27.3	24	26.4
28	26.8	28	26.4	Sept. 3	26.7	31	26.7

Wa YP 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 at 90 to 95. Measurements made by Dept. of Public Utilities. Highest water level 29.12, Nov. 5, 1945; lowest 40.8, July 2, 1949. Records available: 1944-46, 1948-51.

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Wa YP 44--Continued.

Corrected measurements Sept. 25, 1948 - Dec. 31, 1949

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1948	37.9	Jan. 8, 1949	35.6	June 4, 1949	39.1	Sept. 10, 1949	36.0
Oct. 2	37.2	15	37.1	11	37.3	24	36.0
9	37.0	22	36.7	18	36.3	1	37.2
16	36.3	29	37.0	25	37.1	8	36.0
23	37.0	Feb. 5	36.0	July 2	40.8	15	35.8
30	37.2	12	36.8	9	38.3	22	35.8
Nov. 2	38.2	19	36.1	16	37.6	29	35.0
13	37.6	26	35.5	23	37.3	5	35.2
20	36.8	Mar. 5	33.1	30	39.0	12	37.3
27	35.8	26	36.2	Aug. 6	38.5	19	36.9
Dec. 4	36.5	Apr. 2	35.9	13	38.2	Dec. 10	36.5
11	36.3	30	35.7	20	37.0	17	36.6
18	36.4	May 7	37.5	27	36.8	24	35.9
28	35.9	28	33.9	Sept. 3	37.4	31	36.0

Water level measurements 1950-1951

Jan. 7, 1950	36.0	June 3, 1950	35.4	Dec. 2, 1950	35.8	May 12, 1951	36.8
21	35.5	10	36.5	9	35.5	19	32.3
28	36.5	July 1	36.4	16	37.1	26	39.0
Feb. 4	33.9	8	37.8	23	35.0	June 9	37.0
18	35.2	15	39.1	Jan. 6, 1951	36.8	16	37.3
25	35.0	22	37.3	20	35.2	July 7	36.1
Mar. 4	35.9	29	38.8	27	36.1	21	40.3
11	34.4	Aug. 5	38.0	Feb. 10	36.4	Aug. 8	37.1
18	35.9	12	37.9	17	36.4	11	39.0
25	36.0	19	37.0	24	34.2	18	38.9
Apr. 1	34.7	Sept. 2	37.0	Mar. 10	34.0	25	38.3
8	31.8	16	37.8	17	35.0	Sept. 8	36.6
15	32.0	23	36.5	24	35.7	22	38.8
22	35.3	30	36.6	31	35.5	29	38.2
29	36.2	Oct. 7	37.4	Apr. 1	35.8	Oct. 13	37.0
May 6	35.0	21	36.6	7	35.8	20	37.9
13	35.8	28	36.2	14	35.4	Nov. 3	36.5
20	36.9	Nov. 11	36.6	21	34.5	24	36.1
27	34.9	18	36.2	28	36.0	Dec. 1	35.9

Pittsfield Township

Wa Pf 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. Measurements made by Board of Water. Highest water level 2.00 above lsd, June 30, 1951; lowest 11.30 below lsd, June 15, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	-3.55	June 4	-2.20	July 28	-2.17	Sept. 22	-4.18
16	6.14	14	1.82	Aug. 8	2.67	30	1.85
24	3.40	22	-2.29	16	4.00	Oct. 10	5.43
30	5.51	30	+2.00	22	3.77	18	5.55
Mar. 1	3.70	July 2	-.70	30	8.80	24	5.75
8	5.44	9	4.23	Sept. 8	.70	31	5.55
15	4.20	16	2.78	15	.54	Dec. 31	.36
20	.60						

York Township

Wa Yk 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. Measurements made by Ypsilanti State Hospital. Highest water level 69.24 below lsd, June 8, 1948; lowest 80.67 below lsd, July 25, 1947. Records available: 1946-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	71.59	.....	70.54	71.89	72.87	72.66	72.20	72.01	73.02	72.61	72.23	71.54
2	71.55	71.05	70.66	71.98	72.86	72.62	72.21	72.10	73.09	72.48	72.26	71.49
3	71.39	71.11	70.60	72.06	72.71	72.63	72.23	72.05	73.10	72.40	72.20	71.45
4	71.35	71.04	70.54	72.04	72.63	72.63	72.11	72.17	73.16	72.37	.....	71.26
5	71.58	.....	70.68	72.22	72.60	72.75	72.07	72.25	73.18	72.37	.....	71.22

Wa Yk 22--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	71.57	.....	70.69	e72.34	72.63	72.81	72.17	72.27	73.11	72.44	.....	71.11
7	71.64	.....	70.57	72.36	72.66	72.81	72.18	72.22	73.08	72.44	.....	71.05
8	71.55	.....	70.65	72.32	72.66	72.81	72.13	.....	73.21	72.40	.....	71.18
9	71.58	70.05	70.76	72.39	72.67	72.79	72.01	.....	73.21	72.47	e72.18	71.17
10	71.56	.....	70.91	72.43	72.72	72.79	72.05	.....	73.15	72.83	72.17	71.23
11	71.50	.....	70.94	72.64	72.87	72.82	72.11	.....	73.07	72.51	72.18	71.15
12	71.61	.....	70.92	72.50	72.53	72.86	72.11	.....	73.13	72.53	72.20	71.06
13	71.68	.....	70.79	72.46	72.66	72.85	72.15	.....	73.09	72.64	72.03	71.16
14	71.60	.....	70.69	72.46	72.77	72.84	72.18	.....	73.09	72.67	71.80	71.34
15	71.33	.....	70.70	72.56	72.79	72.86	72.19	.....	.....	72.61	71.88	71.18
16	71.44	70.96	70.82	72.70	72.74	72.83	72.18	.....	.....	72.64	71.96	71.42
17	71.45	70.86	.....	72.79	72.68	72.80	72.21	72.61	.....	72.65	.....	71.51
18	71.44	70.92	.....	72.83	72.72	72.76	72.23	72.62	.....	72.66	.....	71.36
19	71.43	70.85	.....	72.75	72.72	72.74	72.18	72.67	.....	72.59	72.02	71.46
20	71.43	70.86	.....	72.91	72.68	72.65	72.22	72.71	.....	72.62	72.03	71.47
21	.....	70.68	.....	73.00	72.51	72.63	72.25	72.67	72.93	72.51	72.01	71.27
22	.....	70.83	.....	72.83	72.54	72.59	71.93	72.73	72.87	72.48	71.86	71.39
23	.....	70.86	71.38	72.92	72.50	72.47	72.10	72.85	72.85	72.48	71.75	71.59
24	.....	70.87	71.32	72.97	72.52	72.50	72.13	72.82	72.86	72.23	71.80	71.70
25	.....	70.79	71.58	72.91	72.50	72.50	72.13	72.95	72.77	72.33	71.88	71.84
26	71.29	70.65	71.72	72.89	72.48	72.49	72.12	72.95	72.78	72.34	.....	71.72
27	71.21	70.54	e71.82	72.98	72.34	72.39	72.09	72.94	72.59	72.27	.....	71.87
28	71.21	70.87	e71.86	72.90	72.33	72.32	72.03	72.96	72.69	72.18	.....	71.92
29	71.19	.....	71.77	72.80	72.45	72.34	72.04	73.02	72.79	72.21	.....	71.74
30	71.21	.....	71.72	72.80	72.54	72.26	72.05	73.05	72.74	72.19	71.96	71.71
31	.....	.....	e71.81	.....	72.62	.....	72.02	73.01	.....	72.11	.....	71.80

e Estimated.

Ypsilanti Township

Wa Yp 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 at 77 to 80. Land-surface datum is 665.56 feet above msl. Measurements made by Water Filtration Plant. Highest water level 5.79 below lsd, Jan. 5, 1950; lowest 12.45 below lsd, Aug. 29, 1950. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	11.55	May 28	11.43	June 19	11.72	Sept. 11	11.76
May 14	11.45	June 5	11.63	June 27	11.77	Sept. 19	11.70
May 22	11.44	June 13	11.79	July 11	11.77	Dec. 5	11.64

Wexford County

City of Cadillac

We CD 1. City of Cadillac. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 21 N., R. 9 W. Drilled unused artesian wells in deposits of Pleistocene age, diameter 8 to 6 inches, reported depth 277 feet. Measurements made by Water Dept. Highest water level 21.51 below lsd, May 31, 1950; lowest 23.24 below lsd, Feb. 14, 1951. Records available: 1949-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.79	22.99	.....	22.93	22.56	21.96	.....	21.75	21.82	21.80	22.06	21.71
2	22.75	23.03	.....	22.91	22.45	21.92	21.80	21.77	21.73	21.89	22.07	21.70
3	22.87	23.06	.....	22.97	22.39	21.79	21.80	21.75	21.71	21.92	22.03	21.68
4	22.89	22.92	.....	22.96	22.39	21.78	21.61	21.72	21.71	21.98	21.81	21.76
5	23.03	22.94	23.14	23.01	22.39	21.92	21.65	21.68	21.85	21.98	21.92	21.86
6	23.02	23.05	23.05	23.00	22.31	e21.91	21.76	21.75	21.80	22.05	22.06	21.83
7	22.88	22.97	23.05	22.94	22.25	21.86	21.74	21.62	21.88	21.90	21.96	21.74
8	22.77	23.10	23.06	22.77	22.32	21.83	21.58	21.65	21.91	21.81	21.94	21.90
9	22.94	23.15	23.11	22.73	22.30	21.81	21.55	21.76	21.75	21.86	22.00	21.73
10	22.98	23.15	23.15	22.79	22.35	21.77	21.68	21.83	21.68	22.03	22.02	21.68
11	23.00	22.98	23.03	22.83	22.27	21.71	21.71	21.82	.....	22.04	21.92	21.69
12	23.06	22.89	22.95	22.76	22.24	21.79	21.69	21.70	.....	22.04	21.85	21.72
13	23.08	23.08	22.94	22.67	22.22	21.79	21.70	21.67	.....	22.08	21.88	21.79
14	22.85	23.20	22.94	22.73	22.17	21.83	21.70	21.72	.....	21.92	21.79	21.87
15	22.72	23.19	22.95	22.70	22.23	21.80	21.61	21.78	.....	21.83	21.91	21.78

We CD 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	22.96	23.12	22.98	22.70	22.19	21.78	21.58	21.75	.....	22.01	21.94	21.71
17	22.95	23.07	23.06	22.76	22.17	21.74	21.71	21.81	21.99	22.09	22.03	21.78
18	23.00	23.00	22.96	22.75	22.20	21.66	21.72	21.75	.....	22.09	21.86	21.68
19	23.02	23.00	22.91	22.68	22.17	21.78	21.70	21.69	.....	22.02	21.84	21.79
20	22.95	.....	22.96	22.77	22.04	21.73	21.75	21.66	.....	22.05	21.98	21.76
21	22.91	.....	23.00	22.75	21.98	21.78	21.72	21.70	.....	21.88	21.92	21.66
22	22.95	.....	23.02	22.57	22.08	21.80	21.59	21.80	.....	e21.82	21.86	21.73
23	22.95	.....	22.97	22.56	22.07	21.77	21.61	21.87	.....	22.03	21.76	21.68
24	22.97	.....	22.88	22.63	22.04	21.76	21.76	21.89	22.01	21.93	21.89	21.66
25	23.05	.....	22.96	22.59	22.02	21.68	21.77	21.86	21.90	22.04	21.82	21.67
26	23.07	22.97	22.97	22.56	21.99	21.79	21.78	21.68	21.96	22.02	21.64	21.60
27	23.05	.....	22.98	22.57	21.86	21.75	21.77	21.64	21.84	22.03	21.92	21.78
28	22.99	.....	22.98	22.44	21.91	21.75	21.76	21.71	21.97	21.80	21.85	21.74
29	22.94	.....	22.97	22.34	22.01	21.74	21.66	21.80	22.02	21.86	21.90	21.62
30	23.06	-	22.94	22.40	21.94	21.68	21.64	21.82	21.87	21.97	21.77	21.54
31	23.05	.....	22.97	e21.92	.....	.....	21.71	21.78	.....	21.96	.....	21.56

e Estimated.

Greenwood Township

We Gw 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 8.89 below lsd, Jan. 15, 1936. Records available: 1935-37, 1941-44, 1948-51. Oct. 30, 7.82.

Henderson Township

We Hn 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. Measurements made by U. S. Forest Service. Highest water level 47.10 below lsd, July 19, 21, 22, 1951; lowest 49.65 below lsd, Mar. 25, 1951. Records available: 1948-51.

Daily 2 a. m. water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	49.09	49.30	49.45	49.64	48.83	47.72	.....	47.16	.....	47.71	47.99	48.13
2	49.11	49.33	49.53	49.64	48.78	47.69	47.21	47.17	.....	47.71	47.99	48.15
3	49.09	49.34	49.48	49.64	48.73	47.66	47.21	47.16	.....	47.72	47.98	48.14
4	49.13	49.33	49.53	49.63	48.71	47.66	47.15	47.19	47.50	47.75	47.98	48.12
5	49.17	49.36	49.55	49.63	48.68	47.64	47.18	47.20	.....	47.75	48.04	48.18
6	49.16	49.36	49.54	49.61	48.66	47.60	47.19	47.21	.....	47.78	48.05	48.13
7	49.16	49.34	49.51	49.57	48.60	47.57	47.17	47.20	.....	47.74	47.96	48.12
8	49.14	49.39	49.55	49.56	48.56	47.55	47.14	47.20	.....	47.77	48.04	48.20
9	49.17	49.39	49.57	49.57	48.53	47.53	47.12	47.21	.....	47.78	48.05	48.14
10	49.18	49.40	49.59	49.53	48.51	47.51	47.14	47.23	.....	47.81	48.06	48.17
11	49.18	49.36	49.57	49.52	48.43	47.50	47.15	47.25	.....	47.79	48.08	48.10
12	49.20	49.39	49.56	49.45	48.41	47.47	47.14	47.26	.....	47.83	48.04	48.15
13	49.21	49.43	49.56	49.42	48.41	47.45	47.14	47.27	.....	47.84	48.07	48.18
14	49.18	49.44	49.58	49.44	48.35	47.44	47.14	47.28	.....	47.82	48.05	48.19
15	49.18	49.43	49.59	49.38	48.30	47.41	47.13	47.29	.....	47.83	48.10	48.17
16	49.23	49.42	49.60	49.37	48.25	47.39	47.12	47.29	.....	47.85	48.10	48.20
17	49.20	49.41	49.62	49.34	48.23	47.37	47.12	47.30	.....	47.89	48.11	48.19
18	49.23	49.44	49.61	49.29	48.20	47.36	47.12	47.31	.....	47.87	48.10	48.10
19	49.24	49.43	49.61	49.25	48.15	47.34	47.10	47.33	.....	47.88	48.13	48.22
20	49.24	49.46	49.61	49.25	48.09	47.30	47.11	47.34	.....	47.88	48.13	48.12
21	49.28	49.45	49.62	49.18	48.08	47.31	47.10	47.32	.....	47.89	48.10	48.13
22	49.27	49.48	49.62	49.08	48.05	47.30	47.10	47.35	.....	47.90	48.11	48.19
23	49.23	49.47	49.60	49.12	48.02	47.28	47.13	47.37	.....	47.93	48.15	48.21
24	49.27	49.47	49.59	49.08	47.96	47.27	47.13	47.38	.....	47.86	48.13	48.21
25	49.29	49.47	49.65	49.02	47.93	47.27	47.13	47.39	47.67	47.96	48.14	48.20
26	49.29	49.47	49.64	48.99	47.89	47.23	47.13	47.39	47.68	47.93	48.11	48.21
27	49.29	49.49	49.61	48.96	47.85	47.21	47.13	47.40	47.65	47.97	48.15	48.24
28	49.31	49.52	49.63	48.88	47.86	.....	47.14	47.40	47.71	47.89	48.09	48.18
29	49.31	.....	49.63	48.87	47.85	.....	47.15	.....	47.71	47.98	48.16	48.18
30	49.32	.....	49.62	48.87	47.81	.....	47.15	.....	47.70	47.97	48.16	48.23
31	49.32	.....	49.64	.....	47.78	.....	47.15	.....	.....	48.00	.....	48.21

Liberty Township

We Lb 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, 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	1.40	May 8	1.23	Aug. 6	2.57	Oct. 8	2.04
Mar. 8	1.09	June 5	1.44	Sept. 25	2.89	Dec. 13	1.35
Apr. 10	.94	July 12	1.66				

MENOMINEE RIVER BASIN

By H. C. Boback and W. T. Stuart

Scope of Water-Level Program

In 1945 the U. S. Geological Survey was requested by the Wisconsin-Michigan Power Company of Appleton, Wisconsin for instruction in setting up an observation-well program to determine the relationship between ground-water storage and base flow in the Menominee River basin of Michigan. About 30 wells were selected for observation and measurements were made periodically from 1945-47. During this period some of the wells proved to be unsatisfactory for use as observation wells and others were destroyed. Figure 11 gives the location of the wells for which records have been published. To obtain better coverage and to maintain a permanent network of observation wells, the Wisconsin-Michigan Power Company drilled and drove 25 wells in 1948. Each well was constructed of 1 $\frac{1}{2}$ inch diameter galvanized pipe with a 36-inch well point. These wells were drilled and driven to depths ranging from 8 to 23 feet. Depth-to-water measurements by the wetted-tape method have been made monthly in these wells since 1948. The basic hydrologic data were collected by personnel of the Wisconsin-Michigan Power Company. The depth-to-water measurements included in this tabulation are a part of the information furnished to the Geological Survey. There are 24 observation wells covering 3,200 square miles of the Menominee River basin and a line of profile wells across two of the tributary streams in the basin. The Paint River profile, 2 miles west of Gibbs City in Iron County, consists of three wells on each side in a line perpendicular to the stream. The Brule River profile, 10 miles southwest of Iron River in Iron County, consists of three wells in a line perpendicular to the stream in Michigan and four wells in a line across the river in Wisconsin. Records of the depth-to-water measurements in the wells in Wisconsin are included in those for Forest County, Wisconsin.

Precipitation

The average annual precipitation for the period 1909 through 1951 at stations in the Menominee River basin is about 30.15 inches, according to records collected by the Wisconsin-Michigan Power Company. Stations are located at Twin Falls, Brule, Pine, Michigamme Reservoir, Iron River, Phelps, Champion, Chalk Hill, Sturgeon, and Peavey. The annual precipitation in inches for the years 1946 through 1951 and the departure from the cumulative average each year is shown in the following table.

Year	Precipitation in inches	Departure from average
1946	29.28	-0.93
1947	24.20	-5.94
1948	25.33	-4.60
1949	29.29	-.63
1950	29.82	-.09
1951	40.38	+10.23

Interpretation of Water-Level Fluctuations

Ground-water-level fluctuations in the Menominee River basin usually follow a seasonal pattern. During the winter months the levels decline owing to the termination of recharge because of low air temperatures and frozen ground. After the melting of the winter snow cover, usually in March and April, the ground-water levels rise to peaks in May or June, after which there is again a gradual decline until late autumn. At this time the decreased use of water by

vegetation allows the levels to recover until freezing temperatures terminate the recharge at the ground surface. Fluctuations of the water level in well Irir 2, W. M. P. No. 25 are typical of those in the wells of the basin and may be used as an index of the trends of water levels. From September 1945 to March 1946 the water level declined 0.7 foot owing to lack of recharge; but with higher air temperatures and the melting of the snow cover, the water level rose 0.7 foot by July 1946. The water level declined from July 1946 to March 1947 without the usual autumn recovery because of the deficiency in precipitation in the last part of 1946. Meltwater from the snow cover caused the water level to rise from March to July 1947 after which there was a steady decline until March 1949 with no rise in level during the spring of 1948. The amount of meltwater from the 50 inches of snow cover in 1948 only replenished the soil moisture which had been depleted because of a 3-year period of below-normal precipitation. The level of March 1949 is the lowest in the period of record. From March to June 1949 there was a slight rise in the water level because of the melt from 46 inches of snow, after which there was a gradual decline until September 1949. Recharge from heavy rains in July and decreased use of water by the growing vegetation caused a substantial rise in the water level during September and October 1949. The usual seasonal decline caused by low air temperatures and lack of recharge occurred from November 1949 to March 1950. Following the rapid melting of 64 inches of snow cover the water level rose considerably until April 1950 after which there was a gradual lowering during the first part of the growing season. Recharge from above-normal precipitation in July coupled with decreased use of ground water by vegetation caused a small rise in water level during August 1950. A gradual decline in level beginning in September 1950 and ending in March 1951 began as a result of 8 weeks of drought in August and September in which the precipitation averaged 56 percent of normal. The decline continued through March 1951 although the snow cover averaged 70 inches over the basin. The water level rose rapidly in April 1951 and continued to rise at a lesser rate during the rest of the year as a result of a large amount of recharge from the snow melt, and an accumulated surplus of over 7 inches of above-normal precipitation from April through September. The water level was at the highest point in November 1951 for the period of record.

Well-Numbering System

The well-numbering system used in the following tabulation of water-level data was adapted to conform with the system in use for the Southern Peninsula. In this system a 4-letter prefix followed by the well number is used. The first pair of letters consists of an upper and lower-case letter that indicates the county in which the well is situated. The letters are selected to be suggestive of the county name. The second pair of letters indicates the city or the civil township in which the well is situated. Upper-case letters are used for cities, villages, or towns and an upper-case followed by a lower-case letter is used for the township designation. The use of civil townships, in preference to the township and range system, was considered desirable because of greater familiarity and more general use of the civil designation by the majority who will use these data. The abbreviation W. M. P. refers to Wisconsin-Michigan Power Company and is followed by their well number. Example, W. M. P. No. 6.

Well Descriptions and Water-Level Measurements

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

Baraga County

Covington Township

Bg Cv 1. W. M. P. No. 14. Michigan State Highway Dept. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 48 N., R. 32 W. U. S. Highway 41 near Nestoria. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 10 feet, screen at 7-10. Highest water level 4.19 below lsd, May 3, 1951; lowest 6.72 below lsd, Mar. 15, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 28, 1948	6.62	July 14, 1949	5.41	May 15, 1950	4.28	Mar. 13, 1951	5.48
Oct. 12	5.56	Aug. 15	5.47	June 15	5.21	Apr. 18	4.99
Nov. 13	6.46	Sept. 14	5.48	July 13	5.17	May 3	4.19
Dec. 15	6.29	Oct. 18	5.45	Aug. 15	5.26	June 1	5.30
Jan. 15, 1949	6.54	Nov. 14	5.10	Sept. 8	5.41	July 3	5.17
Feb. 15	6.54	Dec. 15	5.45	Oct. 13	5.44	Aug. 1	5.44
Mar. 15	6.72	Jan. 17, 1950	5.61	Nov. 15	5.38	31	5.47
Apr. 18	5.66	Feb. 13	5.72	Dec. 13	5.37	Sept. 28	4.87
May 16	5.65	Mar. 14	6.10	Jan. 12, 1951	5.53	Oct. 30	5.37
June 13	5.75	Apr. 13	5.77	Feb. 15	5.70	Nov. 29	5.29

Dickinson County

Breen Township

Dk Bg 1. W. M. P. No. 10. E. W. LaFreniere. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 42 N., R. 27 W., Foster City. Dug domestic water-table well in sand and gravel, diameter 36 inches, depth 12 feet. Highest water level 4.22 below lsd, May 3, 1951; lowest 10.00 below lsd, Mar. 15, 1948. Records available: 1945-46, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 27, 1945	g8.25	May 16, 1949	5.71	Apr. 13, 1950	6.42	Mar. 13, 1951	7.13
Aug. 6	g9.77	June 13	5.45	May 15	4.65	Apr. 18	5.15
Nov. 1	g7.42	July 14	6.31	June 15	6.15	May 3	4.22
June 4, 1946	g6.33	Aug. 15	7.94	July 13	7.13	June 1	6.00
Sept. 12	g9.80	Sept. 14	8.93	Aug. 15	8.03	July 3	6.29
Mar. 15, 1948	10.00	Oct. 18	6.98	Sept. 8	9.03	Aug. 1	6.39
Aug. 4	9.93	Nov. 14	6.54	Oct. 13	9.47	31	7.61
Dec. 15	5.85	Dec. 15	6.62	Nov. 15	9.21	Sept. 28	6.99
Feb. 15, 1949	8.59	Jan. 17, 1950	7.21	Dec. 13	8.87	Oct. 30	5.43
Mar. 15	9.10	Feb. 13	8.41	Jan. 12, 1951	9.11	Nov. 29	6.14
Apr. 18	6.05	Mar. 14	8.04	Feb. 15	9.47		

g By Geological Survey.

Breitung Township

Dk Bg 1. W. M. P. No. 1. Dickinson County Road Commission. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T. 41 N., R. 30 W., near Merriman. Driven observation water-table well in glacial till, diameter 1 $\frac{1}{2}$ inches, depth 20 feet, screen at 17-20. Highest water level 3.51 below lsd, Oct. 30, 1951; lowest 16.05 below lsd, Mar. 15, 1949. Records available: 1948-51.

Oct. 12, 1948	14.77	Aug. 15, 1949	10.79	June 15, 1950	6.25	Apr. 18, 1951	6.14
Nov. 22	15.54	Sept. 14	11.87	July 13	9.01	May 3	5.78
Dec. 15	15.02	Oct. 18	12.84	Aug. 15	10.01	June 1	6.80
Jan. 14, 1949	15.69	Nov. 14	13.35	Sept. 8	11.30	July 3	6.89
Feb. 15	15.94	Dec. 15	13.76	Oct. 13	12.43	Aug. 1	4.06
Mar. 15	16.05	Jan. 17, 1950	13.72	Nov. 15	13.10	31	7.24
Apr. 18	11.95	Feb. 13	14.00	Dec. 13	13.67	Sept. 28	5.10
May 16	11.12	Mar. 14	13.90	Jan. 12, 1951	13.88	Oct. 30	3.51
June 13	11.02	Apr. 13	9.20	Feb. 15	14.63	Nov. 29	5.67
July 14	8.39	May 15	3.59	Mar. 13	14.88		

Dk Bg 2. W. M. P. No. 2. William Carolo. Near 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, c ribbed with wood. Highest water level 2.61 below lsd, Oct. 30, 1951; lowest 13.95 below lsd, Feb. 15, Mar. 15, 1949. Records available: 1945-46, 1948-51.

July 27, 1945	g6.72	Apr. 18, 1949	11.83	Mar. 14, 1950	10.96	Feb. 15, 1951	12.65
Sept. 6	g8.12	May 16	8.04	Apr. 13	7.47	Mar. 13	13.10
Nov. 1	g7.97	June 13	8.34	May 15	3.75	Apr. 18	7.48
June 4, 1946	g2.94	July 14	6.00	June 15	4.81	May 3	5.44
Sept. 12	g7.52	Aug. 15	8.56	July 13	7.52	June 1	5.99
June 2, 1948	7.68	Sept. 14	9.65	Aug. 15	7.83	July 3	4.60
Oct. 29	7.80	Oct. 18	10.26	Sept. 8	8.98	Aug. 1	3.62
Nov. 24	11.81	Nov. 14	9.68	Oct. 13	10.38	31	4.72
Dec. 15	13.00	Dec. 15	10.71	Nov. 15	10.75	Sept. 23	2.80
Jan. 12, 1949	13.23	Jan. 17, 1950	10.14	Dec. 13	12.39	Oct. 30	2.61
Feb. 15	13.95	Feb. 13	10.52	Jan. 12	12.10	Nov. 29	3.56
Mar. 15	13.95						

g By Geological Survey.

Dk Bg 3. W. M. P. No. 3. Oscar Martinson. Near 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, concrete lined. Highest water level 1.81 below lsd, Sept. 23, 1951; lowest dry Nov. 1948 to Apr., 1949. Records available: 1945-46, 1948-51.

July 27, 1945	g7.14	Jan. 14, 1949	(f)	Aug. 15, 1949	10.41	Mar. 14, 1950	12.08
Sept. 6	g8.65	Feb. 15	(f)	Sept. 14	10.61	Apr. 13	10.24
Nov. 1	g7.08	Mar. 15	(f)	Oct. 18	10.62	May 15	8.49
June 4, 1946	g5.42	Apr. 18	12.23	Nov. 14	11.09	June 15	8.37
Sept. 12	g7.48	May 16	10.36	Dec. 15	11.07	July 13	6.38
Nov. 15, 1948	(f)	June 13	10.11	Jan. 17, 1950	10.70	Aug. 15	6.34
Dec. 15	(f)	July 14	8.00	Feb. 13	11.49	Sept. 8	8.10

Dk Bg 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 13, 1950	9.41	Feb. 15, 1951	11.75	June 1, 1951	3.62	Sept. 23, 1951	1.81
Nov. 15	9.75	Mar. 13	10.70	July 3	3.65	Oct. 30	1.93
Dec. 13	10.51	Apr. 18	2.62	Aug. 1	2.45	Nov. 29	3.54
Jan. 12, 1951	11.12	May 3	2.36	31	2.66		

f Dry.

g By Geological Survey.

Felch Township

Dk Fe 1. W. M. P. No. 11. Dickinson County Road Commission. 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. Records available: 1948-51.

Aug. 4, 1948	10.65	July 14, 1949	8.60	May 15, 1950	6.15	Mar. 13, 1951	9.96
Oct. 12	(f)	Aug. 15	9.91	June 15	8.21	Apr. 18	5.12
Nov. 22	11.57	Sept. 14	10.50	July 13	9.48	May 3	6.63
Dec. 15	9.15	Oct. 18	10.68	Aug. 15	9.41	June 1	8.06
Jan. 14, 1949	9.48	Nov. 14	8.93	Sept. 8	10.18	July 3	7.73
Feb. 15	9.69	Dec. 15	8.90	Oct. 13	10.85	Aug. 1	8.52
Mar. 15	9.88	Jan. 17, 1950	8.80	Nov. 15	10.80	31	8.86
Apr. 18	7.76	Feb. 13	9.56	Dec. 13	10.39	Sept. 28	8.22
May 16	7.76	Mar. 14	9.50	Jan. 12, 1951	10.18	Oct. 30	8.05
June 13	8.75	Apr. 13	7.54	Feb. 15	10.66	Nov. 29	8.18

f Dry.

Iron County

Crystal Falls Township

Ir Cf 1. W. M. P. No. 22. George Mechon, Sr. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 44 N., R. 33 W. Near Amasa. Dug and drilled domestic water-table well in sand and gravel, size 4 by 4 feet to 15 feet, 6 inches to 20 feet, depth 20 feet, concrete lined to 15 feet. Highest water level 2.98 below lsd, May 15, 1950; lowest dry Jan. 28, 1947. Records available: 1945-51.

July 26, 1945	g8.69	Jan. 16, 1949	14.03	Jan. 17, 1950	7.78	Jan. 12, 1951	14.74
Sept. 5	g10.12	Feb. 15	14.20	Feb. 13	9.22	Feb. 15	15.04
Oct. 10	g8.28	Mar. 15	13.98	Mar. 14	7.11	Mar. 13	11.38
Nov. 2	g7.44	Apr. 18	6.71	Apr. 13	4.34	Apr. 18	6.67
May 15, 1946	g6.97	May 16	6.74	May 15	2.98	May 3	6.67
Sept. 11	g9.40	June 13	8.24	June 15	6.76	June 1	6.74
Jan. 28, 1947	(f)	July 14	6.96	July 13	8.60	July 3	6.70
Mar. 24, 1948	9.20	Aug. 14	11.27	Aug. 15, 1949	10.40	Aug. 1	6.73
July 27	11.53	Sept. 14	11.27	Sept. 8	11.75	31	7.71
Aug. 4	11.78	Oct. 18	10.45	Oct. 13	13.52	Sept. 28	6.72
Oct. 12	11.78	Nov. 14	7.84	Nov. 15	13.39	Oct. 30	6.70
Nov. 23	13.66	Dec. 15	6.75	Dec. 13	13.34	Nov. 29	6.71
Dec. 15	13.53						

f Dry.

g By Geological Survey.

Hematite Township

Ir Hm 1. W. M. P. No. 20. Basilio Prandi. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 45 N., R. 33 W. Triangle Ranch Road. 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: 1945-51.

July 26, 1945	g25.35	Apr. 18, 1949	31.15	Mar. 14, 1950	30.59	Feb. 15, 1951	29.56
Sept. 5	g26.00	May 16	30.97	Apr. 13	30.74	Mar. 13	29.46
Nov. 2	g25.62	June 13	30.84	May 15	26.74	Apr. 18	26.52
May 10, 1946	g26.35	July 14	30.05	June 15	26.85	May 3	25.92
Sept. 11	g26.88	Aug. 15	30.08	July 13	26.85	June 1	26.32
Jan. 28, 1947	29.31	Sept. 14	30.19	Aug. 15	27.26	July 3	25.01
Mar. 24, 1948	29.31	Oct. 18	30.15	Sept. 8	27.52	Aug. 1	24.62
Aug. 4	29.08	Nov. 14	30.16	Oct. 13	28.24	31	24.82
Nov. 13	30.52	Dec. 15	30.00	Nov. 15	28.32	Sept. 28	24.21
Jan. 15, 1949	31.00	Jan. 17, 1950	30.67	Dec. 13	28.55	Oct. 30	23.39
Mar. 15	32.16	Feb. 13	30.36	Jan. 12, 1951	28.93	Nov. 29	23.49

g By Geological Survey.

Ir Hm 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. Triangle Ranch. 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: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 12, 1948	4.18	Aug. 15, 1949	3.42	July 13, 1950	3.03	Apr. 18, 1951	2.03
Nov. 23	3.97	Sept. 14	3.23	Aug. 15	3.09	May 3	2.10
Dec. 15	3.76	Oct. 18	3.42	Sept. 8	3.33	June 1	2.60
Jan. 16, 1949	4.06	Nov. 14	3.36	Oct. 13	3.48	July 3	2.18
Feb. 15	4.18	Dec. 15	3.30	Nov. 15	3.65	Aug. 1	2.35
Mar. 12	4.23	Jan. 20, 1950	3.28	Dec. 13	3.38	31	2.62
Apr. 18	3.03	Feb. 13	3.56	Jan. 12, 1951	3.46	Sept. 28	2.01
May 16	2.67	Mar. 15	3.49	Feb. 15	3.57	Oct. 30	2.26
June 13	3.61	May 15	2.17	Mar. 13	3.23	Nov. 29	2.59
July 14	2.82	June 15	2.72				

Ir Hm 3. W. M. P. No. 21. Iron County Road Commission. 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 2.28 below lsd, May 15, 1950; lowest 7.94 below lsd, Jan. 12, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 4, 1948	7.07	July 14, 1949	4.40	May 15, 1950	2.28	Apr. 18, 1951	2.56
Oct. 12	7.55	Aug. 15	6.09	June 15	4.15	May 3	2.49
Nov. 23	7.92	Sept. 14	6.69	July 13	5.22	June 1	3.43
Dec. 15	7.36	Oct. 18	6.32	Aug. 15	5.38	July 3	3.31
Jan. 15, 1949	7.21	Nov. 14	4.71	Sept. 8	7.15	Aug. 1	3.93
Feb. 15	7.23	Dec. 15	4.14	Oct. 13	7.89	31	4.92
Mar. 15	7.53	Jan. 17, 1950	5.06	Nov. 15	7.86	Sept. 28	3.01
Apr. 18	3.92	Feb. 13	5.63	Dec. 13	7.91	Oct. 30	2.81
May 16	3.78	Mar. 14	5.43	Jan. 12, 1951	7.94	Nov. 29	3.80
June 13	5.19	Apr. 13	3.59	Mar. 13	7.04		

Ir Hm 4. W. M. P. No. 17. Michigan State Highway Dept. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 46 N., R. 33 W. Park Siding Road and U. S. Highway 141. 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, 1948; lowest 8.90 below lsd, Feb. 15, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 12, 1948	8.69	Aug. 15, 1949	6.97	June 15, 1950	4.66	Apr. 18, 1951	4.98
Nov. 23	8.71	Sept. 14	6.87	July 13	5.89	May 3	4.63
Dec. 16	8.42	Oct. 18	4.85	Aug. 15	6.03	June 1	5.44
Jan. 16, 1949	8.73	Nov. 14	4.32	Sept. 8	6.60	July 3	4.82
Feb. 15	8.90	Dec. 15	5.67	Oct. 13	6.96	Aug. 1	5.01
Mar. 15	8.66	Jan. 17, 1950	6.49	Nov. 15	6.89	31	5.55
Apr. 18	2.80	Feb. 13	6.72	Dec. 13	6.11	Sept. 28	4.22
May 16	4.47	Mar. 14	6.31	Jan. 12, 1951	6.44	Oct. 30	3.85
June 13	7.82	Apr. 13	4.81	Feb. 15	7.10	Nov. 29	4.58
July 14	6.32	May 15	4.21	Mar. 13	5.72		

Ir Hm 5. W. M. P. No. 18. Luke and Carlson Logging Company. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 46 N., R. 34 W. Park Siding depot. Dug unused water-table well in glacial till, size 4 by 4 feet, depth 10 feet, cribbed with wood. Highest water level 4.34 below lsd, Apr. 18, 1951; lowest 8.60 below lsd, Mar. 15, 1949. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 26, 1945	g6.67	Jan. 14, 1949	8.25	Dec. 15, 1949	6.36	Nov. 15, 1950	7.44
Sept. 5	g7.32	Feb. 15	8.42	Jan. 17, 1950	7.31	Apr. 18, 1951	4.34
Nov. 1	g7.78	Mar. 15	8.60	Feb. 13	7.28	May 3	4.39
May 15, 1946	g7.29	Apr. 18	6.63	Mar. 14	6.37	June 1	5.75
Sept. 11	g7.92	May 16	6.33	Apr. 13	7.97	July 3	4.04
Jan. 28, 1947	8.42	June 13	6.87	May 15	4.73	Aug. 1	5.69
Mar. 24, 1948	8.44	July 14	5.84	June 15	5.39	31	6.21
Aug. 4	6.68	Aug. 15	6.46	July 13	6.14	Sept. 30	5.27
Oct. 12	6.17	Sept. 14	6.48	Aug. 15	6.42	Oct. 30	5.47
Nov. 23	8.21	Oct. 18	6.70	Sept. 8	6.85	Nov. 29	5.52
Dec. 15	7.92	Nov. 14	6.64	Oct. 13	7.32		

g By Geological Survey.

Iron River Township

Ir Ir 1. W. M. P. No. 23. Joseph J. Javoroski. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 43 N., R. 35 W. Near Mineral Hills. Dug domestic and stock water-table well in glacial till, diameter 36 inches, depth 47 feet. Highest water level 39.80 below lsd, Dec. 13, 1951; lowest 47.08 below lsd, Aug. 15, 1949. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 24, 1945	g43.83	June 29, 1948	g45.13	Nov. 14, 1949	45.78	Nov. 24, 1950	g43.70
Oct. 18	g43.68	July 27	g45.17	21	g45.84	Dec. 13	43.58
Jan. 10, 1946	g43.63	Sept. 23	g45.31	Dec. 15	45.47	Jan. 12, 1951	43.61
Mar. 8	g43.82	Oct. 27	g45.45	19	bg46.07	24	g43.66
Apr. 16	g43.97	Nov. 23	g45.54	Jan. 17, 1950	45.18	Feb. 15	43.73
June 13	g43.73	Dec. 21	g46.05	20	g45.85	21	g43.84
July 10	g43.51	Jan. 16, 1949	45.64	Feb. 13	45.80	Mar. 13	43.84
Sept. 11	g43.25	19	g46.00	24	g45.87	16	bg44.00
Oct. 30	g43.01	Feb. 15	45.98	Mar. 14	45.77	Apr. 18	43.85
Dec. 2	g43.09	24	g45.88	24	g45.87	20	bg44.12
Jan. 28, 1947	g43.42	Mar. 15	45.93	Apr. 13	45.96	May 3	43.70
Feb. 20	g43.48	24	g46.27	21	g45.82	17	g43.74
Mar. 26	g43.78	Apr. 18	46.16	May 15	45.60	June 1	43.51
June 17	g43.25	21	g46.15	19	g45.58	14	g43.43
July 24	g43.70	May 16	46.00	June 15	45.28	July 3	43.01
Aug. 22	g43.90	24	46.09	23	g45.27	20	g42.81
Sept. 24	g43.83	June 13	46.03	July 13	45.06	Aug. 1	42.42
Oct. 25	g43.90	23	g46.12	20	g45.09	16	g42.13
Nov. 24	g43.96	July 14	46.03	Aug. 15	44.76	31	41.70
Dec. 17	g44.16	25	g45.98	25	g44.63	Sept. 28	g41.24
Jan. 27, 1948	g44.36	Aug. 15	b47.08	Sept. 8	44.28	Oct. 16	g42.74
Feb. 24	g44.45	23	g45.91	19	g44.19	30	42.24
Mar. 24	g44.70	Sept. 14	45.84	Oct. 13	43.98	Nov. 19	g39.96
Apr. 26	g44.95	Oct. 18	45.86	19	g44.06	29	39.85
May 21	g44.97	21	g45.84	Nov. 15	43.92	Dec. 13	g39.80

b Pumped recently.

g By Geological Survey.

Ir Ir 2. W. M. P. No. 25. Mrs. Bernard Hendrickson. Formerly Nash School. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 43 N., R. 35 W. Near Iron River. Dug unused water-table well in glacial till, diameter 36 inches, depth 48 feet. Highest water level 43.00 below lsd, Nov. 29, 1951; lowest 48.29 below lsd, Aug. 15, 1949. Records available: 1945-51.

Sept. 13, 1945	g44.70	Apr. 26, 1948	g46.33	Sept. 14, 1949	46.84	Feb. 15, 1951	45.87
25	g44.74	May 20	g46.43	Oct. 18	46.79	21	g45.88
Oct. 27	g44.89	June 29	g46.46	Mar. 14, 1950	46.93	Mar. 13	45.83
Dec. 14	g45.26	July 27	g46.64	Apr. 13	44.16	16	g46.03
Jan. 10, 1946	g45.14	Sept. 23	g46.78	21	g45.23	Apr. 18	44.46
Mar. 8	g45.43	Oct. 27	g46.66	May 15	44.46	20	g44.91
Apr. 10	g45.14	Nov. 23	g46.89	19	g45.38	May 3	45.57
May 15	g45.24	Dec. 21	g46.87	June 15	45.13	17	g44.74
July 10	g44.79	Jan. 16, 1949	47.32	23	g45.21	June 1	44.70
Sept. 5	g44.88	19	g47.32	July 13	45.15	14	g44.37
Dec. 2	g45.34	Feb. 24	g47.38	20	g45.27	July 3	44.19
Jan. 28, 1947	g45.52	Mar. 15	46.88	Aug. 15	45.53	20	g43.89
Mar. 26	g45.79	24	g47.45	25	g45.09	Aug. 1	43.46
June 16	g45.48	Apr. 18	45.85	Sept. 8	45.12	16	g43.76
July 24	g45.38	21	g47.22	19	g45.12	31	43.61
Aug. 23	g45.63	May 16	46.74	Oct. 13	45.22	Sept. 18	g43.53
Sept. 26	g45.75	24	g46.91	19	g45.20	28	g43.66
Oct. 25	g45.86	June 13	47.04	Nov. 15	45.28	Oct. 16	g43.44
Nov. 24	g45.96	23	g46.98	24	g47.20	30	43.36
Dec. 17	g46.04	July 14	46.66	Dec. 13	45.65	Nov. 14	g43.23
Jan. 28, 1948	g46.18	25	g47.10	Jan. 12, 1951	45.79	29	43.00
Feb. 24	g46.19	Aug. 15	48.29	24	g45.97	Dec. 13	g43.36
Mar. 24	g46.28	23	g47.22				

g By Geological Survey.

Ir Ir 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. Near Iron River. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 9 feet, screen 6-9. Highest water level 7.02 below lsd, Feb. 15, 1949; lowest 8.62 below lsd, Mar. 15, 1949. Records available: 1948-51.

Ir Ir 3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 12, 1948	8.04	Aug. 15, 1949	8.18	June 15, 1950	7.84	Apr. 18, 1951	7.08
Nov. 15	8.40	Sept. 14	8.09	July 13	7.89	May 3	7.26
Dec. 15	8.23	Oct. 18	7.20	Aug. 15	8.02	June 1	7.74
Jan. 15, 1949	8.94	Nov. 14	7.97	Sept. 8	8.07	July 3	7.55
Feb. 15	7.02	Dec. 15	8.18	Oct. 13	8.01	Aug. 1	7.61
Mar. 15	8.62	Jan. 17, 1950	8.12	Nov. 15	7.99	31	7.44
Apr. 18	7.98	Feb. 13	8.41	Dec. 13	7.82	Sept. 28	7.29
May 16	7.89	Mar. 14	8.26	Jan. 12, 1951	7.93	Oct. 30	7.57
June 13	8.12	Apr. 13	7.92	Feb. 15	7.92	Nov. 29	7.74
July 14	8.04	May 15	7.23	Mar. 13	7.81		

Ir Ir 4. W. M. P. No. 29. U. S. Forest Service, Ottawa National Forest. 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 14.01 below lsd, Nov. 29, 1951; lowest 23.21 below lsd, May 16, 1949. Records available: 1945-46, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 9, 1945	g16.55	July 14, 1949	20.71	July 13, 1950	17.13	Apr. 18, 1951	17.81
June 4, 1946	g14.83	Aug. 15	20.44	Aug. 15	17.27	May 3	17.90
Aug. 4, 1948	19.47	Sept. 14	19.97	Sept. 8	17.79	June 1	17.88
Dec. 15	21.83	Oct. 18	19.77	Oct. 13	18.49	July 3	16.97
Jan. 16, 1949	22.12	Nov. 14	17.65	Nov. 15	18.60	Aug. 1	16.59
Feb. 15	22.33	Dec. 15	18.39	Dec. 13	19.20	31	12.72
Mar. 15	22.89	Jan. 17, 1950	18.47	Jan. 12, 1951	19.70	Sept. 28	14.21
Apr. 18	21.91	Feb. 13	19.83	Feb. 15	19.13	Oct. 30	14.14
May 16	23.21	May 15	16.70	Mar. 13	19.45	Nov. 29	14.01
June 13	21.94	June 15	16.94				

g By Geological Survey.

Ir Ir 5. W. M. P. Paint River Profile Well No. 1. U. S. Forest Service, Ottawa National Forest. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Near Gibbs City. Driven observation water-table well in sand, diameter 1 $\frac{1}{2}$ 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: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	-2.19	Aug. 15, 1949	-1.86	June 15, 1950	-2.20	Apr. 18, 1951	-0.20
Nov. 15	2.26	Sept. 14	1.92	July 13	1.92	May 2	+ 1.10
Dec. 16	1.98	Oct. 18	1.96	Aug. 15	2.02	June 1	-1.50
Jan. 17, 1949	2.11	Nov. 14	1.53	Sept. 8	2.06	July 3	.46
Feb. 15	1.99	Dec. 15	1.70	Oct. 13	2.10	Aug. 2	1.44
Mar. 15	2.13	Jan. 17, 1950	1.80	Nov. 15	2.01	Sept. 1	1.35
Apr. 18	1.62	Feb. 13	1.62	Dec. 13	2.07	28	.77
May 16	1.55	Mar. 14	1.57	Jan. 12, 1951	2.07	Oct. 30	1.35
June 13	2.13	Apr. 13	1.15	Feb. 15	1.87	Nov. 29	1.35
July 14	1.51	May 15	.21	Mar. 13	1.74		

Ir Ir 6. W. M. P. Paint River Profile Well No. 2. U. S. Forest Service, Ottawa National Forest. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Near Gibbs City. Driven observation water-table well in sand, diameter 1 $\frac{1}{2}$ inches, depth 13 feet, screen 10-13. Land-surface datum is 1,475.14 feet above msl. Highest water level 5.36 below lsd, May 2, 1951; lowest 8.92 below lsd, Nov. 15, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	8.83	Aug. 15, 1949	8.40	June 15, 1950	7.38	Apr. 18, 1951	5.63
Nov. 15	8.92	Sept. 14	8.49	July 13	8.18	May 2	5.36
Dec. 16	8.67	Oct. 18	8.50	Aug. 15	8.48	June 1	7.60
Jan. 17, 1949	8.81	Nov. 14	8.46	Sept. 8	8.60	July 3	6.68
Feb. 15	8.65	Dec. 15	7.91	Oct. 13	8.62	Aug. 2	7.86
Mar. 15	8.70	Jan. 17, 1950	8.25	Nov. 15	8.64	31	8.00
Apr. 18	7.91	Feb. 13	8.00	Dec. 13	8.60	Sept. 28	7.19
May 16	7.79	Mar. 14	8.12	Jan. 12, 1951	8.61	Oct. 30	7.55
June 13	8.51	Apr. 13	7.53	Feb. 15	8.50	Nov. 29	7.56
July 14	7.72	May 15	5.54	Mar. 13	8.21		

Ir Ir 7. W. M. P. Paint River Profile Well No. 3. U. S. Forest Service, Ottawa National Forest. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 44 N., R. 35 W. Near Gibbs City. Driven observation water-table well in sand, diameter 1 $\frac{1}{2}$ inches, depth 12 feet, screen 9-12. Land-surface datum is 1,468.15 feet above msl. Highest water level 4.54 below lsd, May 15, 1950; lowest 9.20 below lsd, Nov. 15, 1948. Records available: 1948-51.

Ir Ir 7--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	9.01	Aug. 15, 1949	7.26	June 15, 1950	6.81	Apr. 18, 1951	4.78
Nov. 15	9.20	Sept. 14	8.57	July 13	7.86	May 2	4.70
Dec. 16	8.91	Oct. 18	8.65	Aug. 15	8.42	June 1	7.30
Jan. 17, 1949	8.99	Nov. 14	8.40	Sept. 8	8.66	July 3	5.89
Feb. 15	8.95	Dec. 15	8.38	Oct. 13	8.80	Aug. 2	7.30
Mar. 15	8.91	Jan. 17, 1950	8.43	Nov. 15	8.80	31	7.99
Apr. 18	7.73	Feb. 13	8.37	Dec. 13	8.32	Sept. 28	7.18
May 16	7.46	Mar. 14	8.37	Jan. 12, 1951	8.76	Oct. 30	7.24
June 13	8.31	Apr. 13	7.67	Feb. 15	8.68	Nov. 29	7.22
July 14	7.32	May 15	4.54	Mar. 13	8.33		

Ir Ir 8. W. M. P. Paint River Profile Well No. 4. U. S. Forest Service, Ottawa National Forest. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W. Near Gibbs City. Driven observation water-table well in sand, diameter 1 $\frac{1}{4}$ inches, depth 4 feet, screen 1-4. Land-surface datum is 1,468.28 feet above msl. Highest water level 1.12 below lsd, May 2, 1951; lowest 3.51 below lsd, Sept. 14, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	1.15	Sept. 14, 1949	3.51	July 13, 1950	3.31	Apr. 18, 1951	1.51
Dec. 16	3.36	Oct. 18	3.36	Aug. 15	3.43	May 2	1.12
Jan. 14, 1949	3.38	Nov. 14	2.76	Sept. 8	3.47	June 1	3.22
Feb. 15	3.32	Dec. 15	3.03	Oct. 13	3.47	July 3	2.34
Mar. 15	3.40	Jan. 17, 1950	3.09	Nov. 15	3.39	Aug. 2	2.83
Apr. 18	3.07	Feb. 13	3.00	Dec. 13	3.35	31	2.08
May 16	2.98	Mar. 14	2.91	Jan. 12, 1951	3.40	Sept. 28	1.94
June 13	3.42	Apr. 13	2.43	Feb. 15	3.18	Oct. 30	2.69
July 14	3.19	May 15	1.48	Mar. 13	2.99	Nov. 29	2.74
Aug. 15	3.40	June 15	2.67				

Ir Ir 9. W. M. P. Paint River Profile Well No. 5. U. S. Forest Service, Ottawa National Forest. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W. Near Gibbs City. 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 2.63 below lsd, May 2, 1951; lowest 9.44 below lsd, Oct. 26, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	9.44	Sept. 14, 1949	5.28	July 13, 1950	4.85	Apr. 18, 1951	2.84
Dec. 16	5.36	Oct. 18	5.35	Aug. 15	5.17	May 2	2.63
Jan. 14, 1949	5.36	Nov. 14	4.96	Sept. 8	5.33	June 1	4.83
Feb. 15	5.24	Dec. 15	4.75	Oct. 13	5.42	July 3	3.91
Mar. 15	5.25	Jan. 17, 1950	5.04	Nov. 15	5.42	Aug. 2	4.38
Apr. 18	4.92	Feb. 13	4.95	Dec. 13	5.36	31	4.37
May 16	4.71	Mar. 14	4.89	Jan. 12, 1951	5.27	Sept. 28	3.97
June 13	5.09	Apr. 13	4.57	Feb. 15	5.10	Oct. 30	4.34
July 14	4.86	May 15	2.81	Mar. 13	4.93	Nov. 29	4.41
Aug. 15	5.27	June 15	4.39				

Ir Ir 10. W. M. P. Paint River Profile Well No. 6. U. S. Forest Service, Ottawa National Forest. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 44 N., R. 35 W., 1,250 feet south of south branch of Paint River. Near Gibbs City. 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: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 26, 1948	13.40	Sept. 14, 1949	12.93	July 13, 1950	12.03	Apr. 18, 1951	9.65
Dec. 16	13.01	Oct. 18	12.92	Aug. 15	12.49	May 2	8.48
Jan. 14, 1949	13.03	Nov. 14	12.81	Sept. 8	12.75	June 1	12.08
Feb. 15	12.86	Dec. 15	12.69	Oct. 13	12.93	July 3	10.38
Mar. 15	12.88	Jan. 17, 1950	12.66	Nov. 15	12.91	Aug. 2	11.31
Apr. 18	12.36	Feb. 13	12.57	Dec. 13	12.89	31	11.93
May 16	12.06	Mar. 14	12.53	Jan. 12, 1951	12.78	Sept. 28	11.59
June 13	12.59	Apr. 13	12.25	Feb. 15	12.72	Oct. 30	11.58
July 14	12.10	May 15	9.61	Mar. 13	12.46	Nov. 29	11.55
Aug. 15	12.75	June 15	11.23				

Ir Ir 11. W. M. P. No. 34. Michigan State Highway Dept. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 45 N., R. 35 W., 30 feet south of State Highway 73, and 1.3 miles southwest of junction of State Highway 73 and U. S. Highway 2. Near Iron River. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 12 feet, screen 9-12. Highest water level 2.17 below lsd, Aug. 1, 1951; lowest 8.44 below lsd, Mar. 15, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 10, 1948	8.26	July 14, 1949	6.88	May 15, 1950	4.68	Mar. 13, 1951	6.69
Oct. 12	7.23	Aug. 15	7.37	June 15	3.79	Apr. 18	5.06
Nov. 15	7.96	Sept. 14	7.51	July 13	4.06	May 3	4.00
Dec. 15	7.91	Oct. 18	7.60	Aug. 15	4.50	June 1	3.37
Jan. 16, 1949	8.20	Nov. 14	7.51	Sept. 8	4.94	July 3	2.41
Feb. 15	8.20	Dec. 15	7.57	Oct. 13	5.47	Aug. 1	2.17
Mar. 15	8.44	Jan. 17, 1950	7.84	Nov. 15	5.73	Jan. 31	2.69
Apr. 18	7.77	Feb. 13	7.97	Dec. 13	5.99	Sept. 28	2.79
May 16	7.09	Mar. 14	8.08	Jan. 12, 1951	6.33	Oct. 30	2.62
June 13	7.12	Apr. 13	7.86	Feb. 15	6.71	Nov. 29	2.83

Mastodon Township

Ir Mt 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 $\frac{1}{2}$ inches, depth 8 feet, screen 5-8. Highest water level 0.59 below lsd, Apr. 13, 1950; lowest 6.28 below lsd, Oct. 13, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 4, 1948	5.03	July 14, 1949	2.44	May 15, 1950	1.05	Mar. 13, 1951	2.29
Oct. 13	6.28	Aug. 15	4.22	June 15	2.47	Apr. 18	.94
Nov. 22	4.78	Sept. 14	3.18	July 13	3.62	May 3	.94
Dec. 15	4.24	Oct. 18	2.97	Aug. 15	2.93	June 1	1.65
Jan. 14, 1949	5.45	Nov. 14	1.96	Sept. 8	4.29	July 3	1.56
Feb. 15	5.95	Dec. 15	3.13	Oct. 13	4.85	Aug. 1	1.63
Mar. 15	5.90	Jan. 17, 1950	3.30	Nov. 15	3.89	31	1.73
Apr. 18	2.11	Feb. 13	3.89	Dec. 13	4.24	Sept. 28	1.01
May 16	1.53	Mar. 14	2.57	Jan. 12, 1951	5.00	Oct. 30	.99
June 13	3.23	Apr. 13	.59	Feb. 15	5.43	Nov. 29	1.62

Ir Mt 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, tile cased. Highest water level 1.89 below lsd, Oct. 30, 1951; lowest 11.51 below lsd, Feb. 15, 1951. Records available: 1945-46, 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 25, 1945	g8.46	Mar. 15, 1949	11.40	Mar. 14, 1950	10.15	Feb. 15, 1951	11.51
Sept. 6	g9.50	Apr. 18	11.01	Apr. 13	6.65	Mar. 13	10.76
Nov. 1	g8.85	May 16	7.37	May 15	4.59	Apr. 18	7.10
June 4, 1946	g5.96	June 13	7.79	June 15	5.05	May 3	6.67
Sept. 12	g9.71	July 14	4.52	July 13	6.86	June 1	6.38
July 25, 1948	9.30	Aug. 15	7.10	Aug. 15	8.00	July 3	3.24
Aug. 4	9.30	Sept. 14	8.29	Sept. 8	9.22	Aug. 1	2.49
Oct. 13	10.88	Oct. 18	9.12	Oct. 13	9.70	31	5.10
Nov. 22	10.84	Nov. 14	9.29	Nov. 15	10.16	Sept. 28	4.36
Dec. 15	11.05	Dec. 15	9.15	Dec. 13	10.59	Oct. 30	1.89
Jan. 14, 1949	11.22	Jan. 17, 1950	8.99	Jan. 12, 1951	10.86	Nov. 29	3.62
Feb. 15	11.34	Feb. 13	9.52				

g By Geological Survey.

Ir Mt 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. Peavy School. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 17 feet, screen 14-17. Highest water level 8.52 below lsd, July 3, 1951; lowest dry Dec. 15, 1948 and Feb. to July, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 4, 1948	14.53	Aug. 15, 1949	12.12	June 15, 1950	9.34	Apr. 18, 1951	14.70
Oct. 13	16.22	Sept. 14	12.46	July 13	10.07	May 3	12.15
Nov. 22	16.95	Oct. 18	12.86	Aug. 15	11.02	June 1	10.08
Dec. 15	(f)	Nov. 14	12.96	Sept. 8	11.78	July 3	8.52
Jan. 15, 1949	17.12	Dec. 15	13.61	Oct. 13	12.80	Aug. 1	9.60
Feb. 15	(f)	Jan. 17, 1950	13.86	Nov. 15	13.42	Jan. 31	9.50
Apr. 18	(f)	Feb. 13	14.22	Dec. 13	13.88	Sept. 28	9.66
May 16	(f)	Mar. 14	14.52	Jan. 12, 1951	14.36	Oct. 30	9.41
June 13	(f)	Apr. 13	14.52	Feb. 15	14.86	Nov. 29	9.50
July 14	13.12	May 15	10.40	Mar. 13	15.15		

f Dry.

Stambaugh Township

Ir St 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: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1948	4.72	Sept. 14, 1949	3.17	July 13, 1950	2.74	Apr. 18, 1951	0.99
Jan. 16, 1949	3.68	Oct. 18	2.92	Aug. 15	2.86	May 3	.85
Feb. 15	3.47	Nov. 14	2.09	Sept. 8	3.35	June 1	1.30
Mar. 15	3.28	Dec. 15	2.18	Oct. 13	3.07	July 3	1.51
Apr. 18	1.52	Feb. 13, 1950	2.56	Nov. 15	2.75	Aug. 1	2.12
May 16	1.76	Mar. 14	2.35	Dec. 13	2.13	31	.75
June 13	2.67	Apr. 13	1.80	Jan. 12, 1951	2.36	Sept. 28	.89
July 14	2.12	May 15	1.15	Feb. 15	2.49	Oct. 30	1.51
Aug. 15	3.21	June 15	1.85	Mar. 13	1.92	Nov. 29	1.65

Ir St 2. W. M. P. Brule River Profile Well No. 1. Michigan State Highway Department. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W., State Highway 73 at Brule River. 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 1.25 below lsd, Apr. 13, 1950; lowest 3.17 below lsd, Oct. 26, 1948. Records available: 1948-51.

Oct. 26, 1948	3.17	July 14, 1949	2.34	May 15, 1950	1.54	Mar. 13, 1951	1.86
Nov. 15	2.94	Aug. 16	3.03	June 16	2.09	Apr. 18	1.43
Dec. 16	2.46	Sept. 14	2.15	July 13	2.69	May 3	1.47
Jan. 14, 1949	2.63	Oct. 17	2.39	Aug. 15	2.37	June 1	1.67
Feb. 15	2.23	Nov. 14	1.94	Sept. 8	3.04	July 3	1.56
Mar. 15	2.39	Dec. 15	2.19	Oct. 13	3.04	Aug. 1	2.14
30	1.69	Jan. 17, 1950	2.13	Nov. 15	2.62	30	2.33
Apr. 18	2.10	Feb. 13	2.09	Dec. 13	2.22	Sept. 27	1.57
May 16	2.26	Mar. 14	1.60	Jan. 12, 1951	2.19	Oct. 30	1.84
June 13	3.06	Apr. 13	1.25	Feb. 15	1.99	Nov. 29	1.91

Ir St 3. W. M. P. Brule River Profile Well No. 2. Michigan State Highway Department. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W., at Brule River. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 7 feet, screen 4-7. Land-surface datum is 1,545.60 feet above msl. Highest water level 0.55 below lsd, July 3, 1951; lowest 3.10 below lsd, Oct. 26, 1948. Records available: 1948-51.

Oct. 26, 1948	3.10	July 14, 1949	1.83	May 15, 1950	0.88	Mar. 13, 1951	1.61
Nov. 15	2.83	Aug. 16	2.74	June 16	1.34	Apr. 18	.70
Dec. 16	2.50	Sept. 14	1.92	July 13	1.99	May 3	.81
Jan. 14, 1949	2.45	Oct. 17	1.98	Aug. 15	1.82	June 1	.79
Feb. 15	2.42	Nov. 14	1.58	Sept. 8	2.70	July 3	.55
Mar. 15	2.42	Dec. 15	1.98	Oct. 13	2.71	Aug. 1	1.60
30	1.17	Jan. 17, 1950	2.07	Nov. 15	2.48	30	1.78
Apr. 18	1.48	Feb. 13	1.93	Dec. 13	2.16	Sept. 27	1.11
May 16	1.52	Mar. 14	1.66	Jan. 12, 1951	2.23	Oct. 30	2.16
June 13	2.43	Apr. 13	1.35	Feb. 15	2.16	Nov. 29	1.30

Ir St 4. W. M. P. Brule River Profile Well No. 3. William Young Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 42 N., R. 36 W., near Brule River. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ inches, depth 14 feet, screen 11-14. Land-surface datum is 1,554.36 feet above msl. Highest water level 4.08 below lsd, Apr. 18, 1951; lowest 8.29 below lsd, Oct. 26, 1948. Records available: 1948-51.

Oct. 26, 1948	8.29	July 14, 1949	6.22	May 15, 1950	5.53	Mar. 13, 1951	6.60
Nov. 15	7.87	Aug. 16	7.34	June 16	5.47	Apr. 18	4.08
Dec. 16	7.47	Sept. 14	7.15	July 13	6.29	May 3	4.42
Jan. 14, 1949	7.81	Oct. 17	6.72	Aug. 15	6.88	June 1	4.38
Feb. 15	7.00	Nov. 14	6.66	Sept. 8	7.14	July 3	4.99
Mar. 15	7.98	Dec. 15	6.64	Oct. 13	7.34	Aug. 1	3.74
30	7.52	Jan. 17, 1950	5.87	Nov. 15	7.34	30	6.23
Apr. 18	6.35	Feb. 13	7.03	Dec. 13	7.10	Sept. 27	5.54
May 16	6.01	Mar. 14	6.87	Jan. 12, 1951	7.30	Oct. 30	5.22
June 13	6.74	Apr. 13	6.35	Feb. 15	7.41	Nov. 29	5.54

Marquette County

Michigamme Township

Mq Mc 1. W. M. P. No. 13. Marquette County Road Commission. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 49 N., R. 30 W., near Champion. Driven observation water-table well in sand and gravel, diameter 1 $\frac{1}{4}$ 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: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 2, 1948	13.32	July 14, 1949	8.93	June 15, 1950	9.84	Apr. 18, 1951	6.46
Oct. 12	10.28	Aug. 15	10.08	July 13	10.39	May 3	.64
Nov. 13	11.16	Sept. 14	10.30	Aug. 15	10.49	June 1	9.84
Dec. 15	10.32	Oct. 18	10.25	Sept. 8	10.86	July 3	8.45
Jan. 15, 1949	10.86	Nov. 14	9.56	Oct. 13	11.00	Aug. 1	10.33
Feb. 15	10.45	Dec. 15	9.33	Nov. 15	10.74	31	10.28
Mar. 15	10.62	Jan. 17, 1950	9.89	Dec. 13	9.89	Sept. 28	9.28
Apr. 18	7.77	Feb. 13	10.30	Jan. 12, 1951	10.10	Oct. 30	9.45
May 16	9.17	Mar. 14	10.08	Feb. 15	10.47	Nov. 29	9.33
June 13	10.57	May 15	1.78	Mar. 13	9.34		

Republic Township

Mq Re 1. W. M. P. No. 4. Arnold Janofski. 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 iron pipe. Highest water level 24.38 below lsd, Dec. 13, 1951; lowest 29.28 below lsd, Mar. 15, 1949. Records available: 1945-51.

July 25, 1945	g25.82	May 16, 1949	28.14	Mar. 24, 1950	g28.37	Feb. 21, 1951	g27.20
Sept. 5	g25.90	24	g28.20	Apr. 13	28.16	Mar. 13	27.23
Oct. 10	g26.00	June 13	28.07	21	g27.93	16	g27.36
Nov. 1	g26.10	23	g28.14	May 15	27.20	Apr. 18	26.72
June 4, 1946	g26.05	July 14	28.09	19	g26.05	20	g26.79
Sept. 12	g26.33	25	g28.13	June 15	26.25	May 3	26.34
July 27, 1948	28.83	Aug. 15	28.10	23	g26.16	17	g25.99
Aug. 23	27.68	23	g28.16	July 13	26.01	June 1	25.74
Sept. 23	27.63	Sept. 14	28.10	20	g26.04	14	g25.63
Oct. 27	g27.68	Oct. 18	28.08	Aug. 15	25.99	July 3	25.46
Nov. 23	g27.81	21	g28.26	25	g26.08	20	g25.28
Dec. 15	28.05	Nov. 14	28.19	Sept. 8	26.14	Aug. 1	25.12
21	g28.05	21	g28.27	19	g26.20	16	g25.06
Jan. 15, 1949	28.13	Dec. 15	28.29	Oct. 13	26.33	31	25.02
19	g28.82	19	g28.29	Nov. 15	26.56	Sept. 28	g24.83
Feb. 15	28.67	Jan. 17, 1950	28.24	24	g26.64	Oct. 16	g24.60
24	g29.14	20	g28.29	Dec. 13	26.72	30	24.50
Mar. 15	29.28	Feb. 13	28.33	Jan. 12, 1951	26.89	Nov. 14	g24.42
24	g28.21	24	g28.40	24	g26.99	29	24.48
Apr. 18	28.30	Mar. 14	28.44	Feb. 15	27.09	Dec. 13	g24.38
21	g28.24						

g By Geological Survey.

NEW HAMPSHIRE

By Marvin A. Pistrang

Scope of Water-Level Program

The observation-well program in New Hampshire was continued in 1951. The Manchester Water Works continued measurements in one observation well at Auburn, Rockingham County. A recording gage was in operation on this well throughout the year. Periodic measurements of water level at one observation well at New London, Merrimack County, begun in 1947, were continued in 1951.

Precipitation

During 1951 precipitation for the State as a whole was 49.37 inches according to records of the U. S. Weather Bureau or 9.84 inches above normal and 8.72 inches greater than in 1950.

Interpretation of Water-Level Fluctuations

Records have shown that water-level fluctuations in New Hampshire follow a seasonal pattern in response to such factors as temperature and precipitation. In general, the water-table declines during the winter when precipitation in the form of snow furnishes little ground-water recharge. Occasionally, mild temperatures and rainfall cause a rise in water levels. A sharp rise, ordinarily to the highest levels of the year, usually occurs in March or April owing to temperatures high enough to melt the snow cover. This is followed by a water-table decline during the growing season, when vegetal demands for water are greatest. The water table continues to fall until September or October when the end of the growing season is marked by a rise in water levels. This rise normally continues until the onset of freezing weather. Figure 13 shows daily

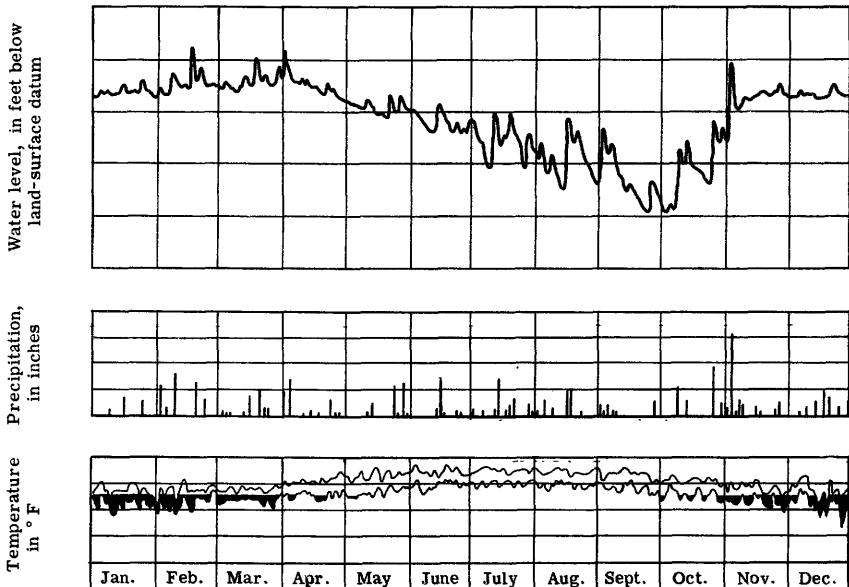


Figure 13.--Daily water level in an observation well at Auburn, New Hampshire, and daily precipitation and maximum and minimum temperatures at Massabesic Lake.

noon water levels in an observation well at Auburn for 1951, together with daily precipitation and maximum and minimum temperature records for the U. S. Weather Bureau station at nearby Massabesic Lake. Owing to the heavy rainfall throughout most of the summer the summer water-level decline was less than usual. Water levels in the three observation wells indicated a net gain in ground-water storage during the year.

Well-Numbering System

The wells in New Hampshire are designated by the names of the towns in which they are situated.

Well Descriptions and Water-Level Measurements

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

Merrimack County

Hill 1. J. E. Norcross. Formerly Bristol 1. Hill. 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 3.20 below lsd, Apr. 30, 1947; lowest dry several times in 1947, 1948, 1949, and 1950. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	9.16	Apr. 8	3.76	July 8	9.01	Oct. 14	9.14
14	9.14	15	3.89	15	9.36	21	8.98
21	9.24	22	5.46	22	10.26	28	8.96
28	8.46	29	6.32	Aug. 5	9.56	Nov. 4	6.46
Feb. 4	9.36	May 6	7.92	12	9.36	11	6.28
11	6.76	13	8.54	19	9.66	18	5.96
18	7.06	20	8.84	26	9.64	25	6.06
25	6.76	27	8.88	Sept. 2	9.76	Dec. 2	8.36
Mar. 4	7.26	June 3	8.64	9	9.79	9	8.30
11	7.21	10	9.14	16	9.76	16	7.63
18	7.26	17	8.84	25	9.36	23	7.59
25	6.28	24	8.64	30	9.38	30	8.42
Apr. 1	3.68	July 1	7.16	Oct. 7	9.42		

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 3.03 below lsd, Apr. 9, 1950; lowest 16.43 below lsd, Feb. 8, 1948. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	7.48	Apr. 8	5.26	July 8	9.71	Oct. 7	10.83
14	7.87	15	3.48	15	10.08	14	7.61
21	8.13	22	4.56	22	10.43	21	7.97
28	7.48	29	4.28	29	10.71	28	8.83
Feb. 4	8.03	May 6	5.45	Aug. 5	10.89	Nov. 4	5.62
11	7.81	13	6.53	12	11.04	11	4.05
18	8.26	20	7.36	19	11.36	18	4.08
25	8.60	27	7.85	26	11.13	25	6.11
Mar. 4	8.97	June 3	6.99	Sept. 2	11.05	Dec. 2	6.75
11	9.37	10	7.61	9	11.13	9	5.13
18	9.20	17	8.27	16	11.03	16	5.03
25	8.72	24	8.91	23	10.39	23	6.46
Apr. 1	4.59	July 1	9.35	30	10.56	30	6.90

Rockingham County

Auburn 8. Manchester Water Works. Lat. 43°00'21", long. 71°18'46". Dug unused water-table well, diameter 32 inches, depth 7 feet. Land-surface datum is about 300 feet above msl. Highest water level 0.50 below lsd, Mar. 22, 1948; lowest 7.22 below lsd, Oct. 11, 1950. Records available: 1942-51.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.76	1.71	1.54	1.31	1.78	1.97	2.13	2.72	3.21	3.76	2.48	1.64
2	1.75	1.56	1.55	1.36	1.79	1.98	2.25	2.76	2.92	3.82	2.26	1.66
3	1.72	1.64	1.57	.73	1.82	2.00	2.44	2.92	2.28	3.83	.95	1.63
4	1.60	1.65	1.56	1.18	1.83	1.99	2.56	2.58	2.44	3.80	1.69	1.64
5	1.65	1.66	1.42	1.29	1.84	2.02	2.61	2.85	2.69	3.74	1.82	1.64

Auburn 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	1.66	1.68	1.53	1.37	1.86	2.08	2.64	3.06	2.84	3.78	1.88	1.52
7	1.66	1.65	1.53	1.41	1.89	2.15	2.67	3.17	2.60	3.79	1.85	1.61
8	1.64	1.25	1.53	1.44	1.90	2.20	2.81	3.19	2.80	2.67	1.61	1.62
9	1.67	e1.38	1.57	1.45	1.93	2.24	2.94	2.81	2.99	2.70	1.70	1.56
10	1.67	e1.44	1.59	1.45	1.96	2.28	3.05	3.00	3.14	2.90	1.70	1.59
11	1.67	e1.50	1.60	1.37	1.89	2.32	3.16	3.12	3.25	2.97	1.69	1.62
12	1.67	1.55	1.54	1.47	1.75	2.37	3.07	3.30	3.25	2.45	1.69	1.62
13	1.69	1.53	1.58	1.38	1.87	2.39	1.99	3.33	3.35	2.66	1.67	1.65
14	1.68	1.50	1.58	1.48	1.92	2.24	2.25	3.43	3.44	2.79	1.65	1.67
15	1.47	1.56	1.30	1.52	1.95	1.82	2.45	3.53	3.54	2.86	1.57	1.65
16	1.57	1.57	1.45	1.57	1.98	1.94	2.65	2.67	3.37	2.93	1.58	1.66
17	1.63	1.59	1.50	1.53	2.03	2.01	2.44	2.09	3.43	3.02	1.51	1.66
18	1.63	.75	1.52	1.58	2.04	2.07	2.48	2.21	3.53	3.07	1.55	1.67
19	1.65	1.35	1.53	1.59	2.06	2.14	2.35	2.41	3.60	3.08	1.56	1.62
20	1.64	1.46	.86	1.65	2.05	2.23	2.01	2.60	3.69	3.15	1.57	1.65
21	1.58	1.49	1.35	1.67	2.06	2.33	2.25	2.58	3.76	3.22	1.59	1.35
22	1.63	1.11	1.37	1.67	2.13	2.44	2.39	2.39	3.80	3.26	1.60	1.48
23	1.72	1.42	1.44	1.44	2.13	2.41	2.47	2.66	3.87	3.27	1.58	1.55
24	1.35	1.46	1.28	1.61	1.64	2.14	2.64	2.80	3.89	3.30	1.47	1.57
25	1.54	1.49	1.30	1.62	1.88	2.22	2.82	2.87	3.94	2.12	1.58	1.58
26	1.58	1.47	1.41	1.57	1.98	2.40	2.97	2.97	3.29	2.33	1.34	1.59
27	1.62	1.46	1.45	1.67	2.02	2.42	3.12	3.08	3.33	2.48	1.53	1.61
28	1.67	1.51	1.46	1.70	1.68	2.38	2.85	3.17	3.38	2.59	1.58	1.62
29	1.68		1.47	1.73	1.80	2.42	2.40	3.26	3.57	2.19	1.60	1.62
30	1.70		1.47	1.76	1.86	2.28	2.52	3.37	3.69	2.35	1.64	1.63
31	1.72		1.05		1.90		2.74	3.46		2.42		1.48

e Estimated.

NEW JERSEY

By Charles R. Austin

Scope of Water-Level Program

The observation-well program in New Jersey was continued in 1951 in cooperation with the State Department of Conservation and Economic Development, Division of Water Policy and Supply. Measurements were made in 200 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 the year, continuous records from recording gages were being obtained from 81 wells. Figure 14 shows the location of the wells, the records of which are given in this report, except for those in Middlesex County and the western portion of Salem County. Figures 15 and 16 show the wells reported in these areas.

Precipitation

Precipitation for the year 1951 averaged 49.75 inches for the State which was 4.14 inches above normal. This rainfall was distributed throughout the year so that 8 months were above normal and 4 were below normal (3 only slightly). During the month of September the rainfall averaged only 50 percent of normal throughout the State. During the months of July and August, rainfall in the northern half of the State was plentiful, but in the southern half, crops were adversely affected by dry weather. The wettest month was November, with precipitation averaging twice the normal amount. The result was that a number of wells recorded record highs and indications were that these highs would later be exceeded.

Interpretation of Water-Level Fluctuations

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. During the year 1951 this well showed normal levels until the end of August, at which time it dropped below normal and continued thus until the heavy rains of October 9 and 10. At that time the levels rose abruptly above the average and continued so until the end of the year, when it was again about normal. Figure 17 is a composite hydrograph of this well from 1923 to 1951 inclusive. This graph shows the highest, lowest, and average water level at the end of day for each day of the year 1923 to 1950. The 1951 record has been plotted as a separate line to show its relation to the normal and record highs and lows. In the Runyon area, in Middlesex County (see fig. 18), there were several record lows observed in the wells of the Duhernal Water System. These lows occurred between October 7 and 10, 1951, and one on October 30, 1951. This can be attributed to increased pumping. In the Atlantic City area, the artesian pressure in 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. Due to increased pumping from these sands, the level throughout the year was approximately 1 foot below that of the preceding year.

In some wells near the shore, part of the fluctuation is caused by the rise and fall of tide. In the Longport well 30.23.1.9.6, which also taps the Atlantic City 800-foot sand unit of the Kirkwood formation, the average daily water level was 42.7 feet below msl on Jan. 7 as compared with 41.6 on Jan. 7, 1950; and at the end of the year the water level was 44.0 below msl as compared with 43.3 below msl on Dec. 31, 1950. This well showed the usual seasonal decline during the months of June, July, and August, and the recovery started immediately after Labor Day of each year, at which time most of the hotels in this area close for the season and heavy pumping stops. This well also shows a lower average water level of about 1 foot throughout the entire year, due to increased pumping. In Cape May County, the American Ice Company well 36.22.6.8.2 and the former Normandie Hotel well 36.22.6.9.1 both of which also tap the Atlantic City 800-foot sand unit of the Kirkwood formation, the water levels showed a greater decline than the wells in Atlantic County. On Jan. 1, 1951, the water level in the American Ice Company well was 44.7 feet below msl, while on the same date in 1950 it was 33.7 feet below msl, a decline of 11.0 feet below the preceding year. The water level throughout the year in this well averaged 8 feet lower than 1950. This trend was not as great in the Normandie Hotel well, and the water levels at the beginning and end of the year were about the same as 1950. During the pumping season, however, the levels were approximately 3 feet lower than the

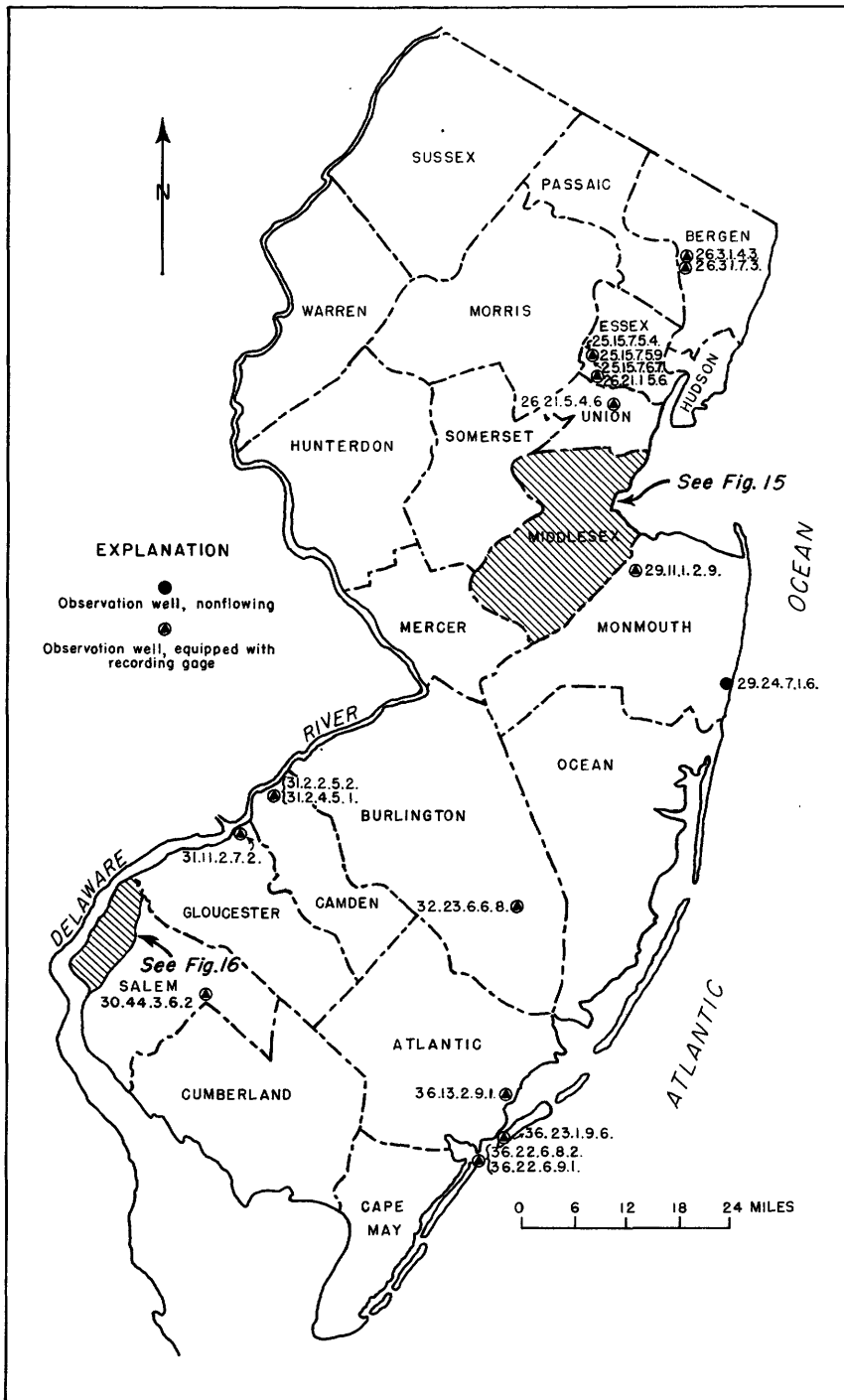


Figure 14. --Location of observation wells in New Jersey, 1951.

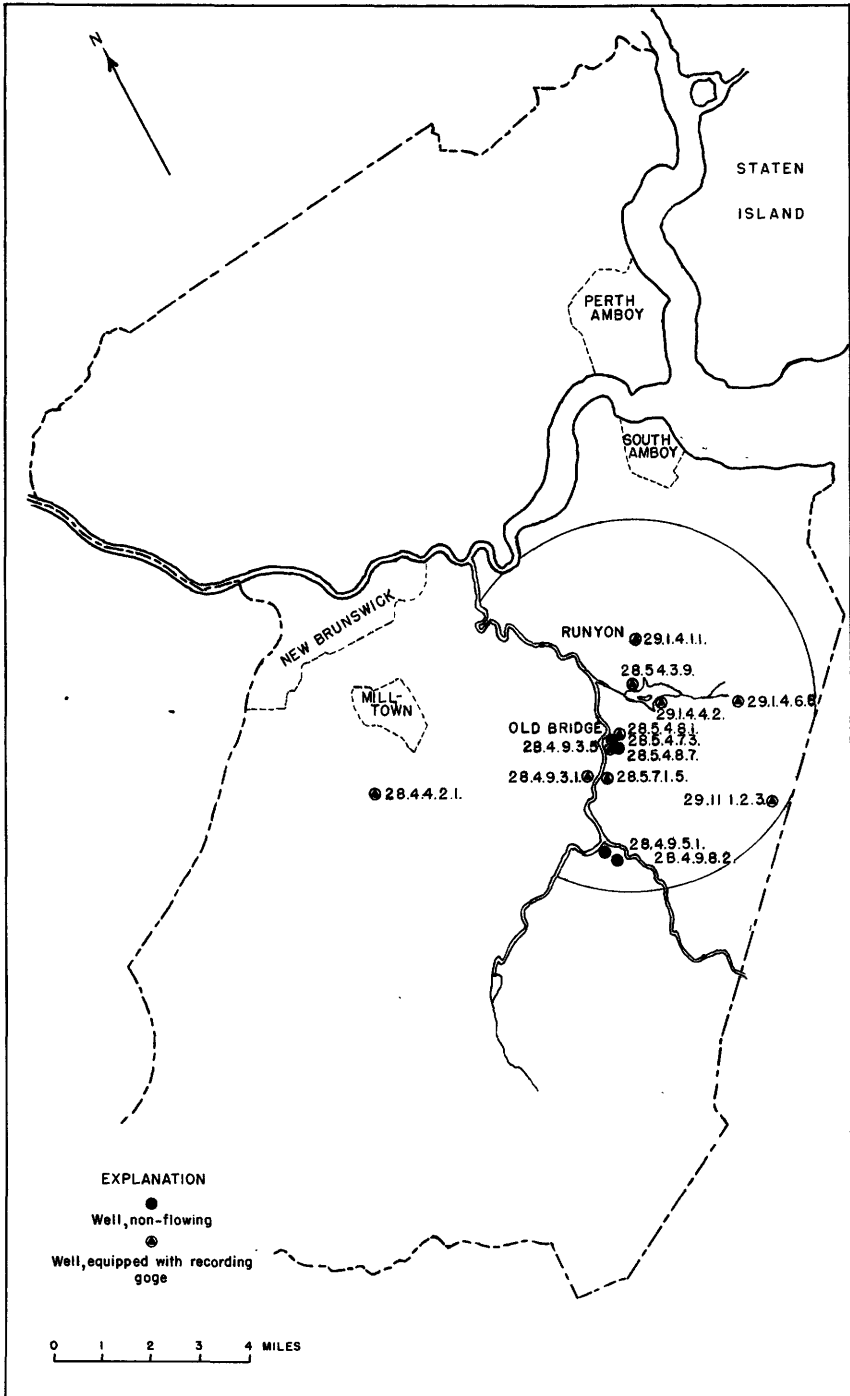


Figure 15. --Location of observation wells in Middlesex County, N. J., 1951.

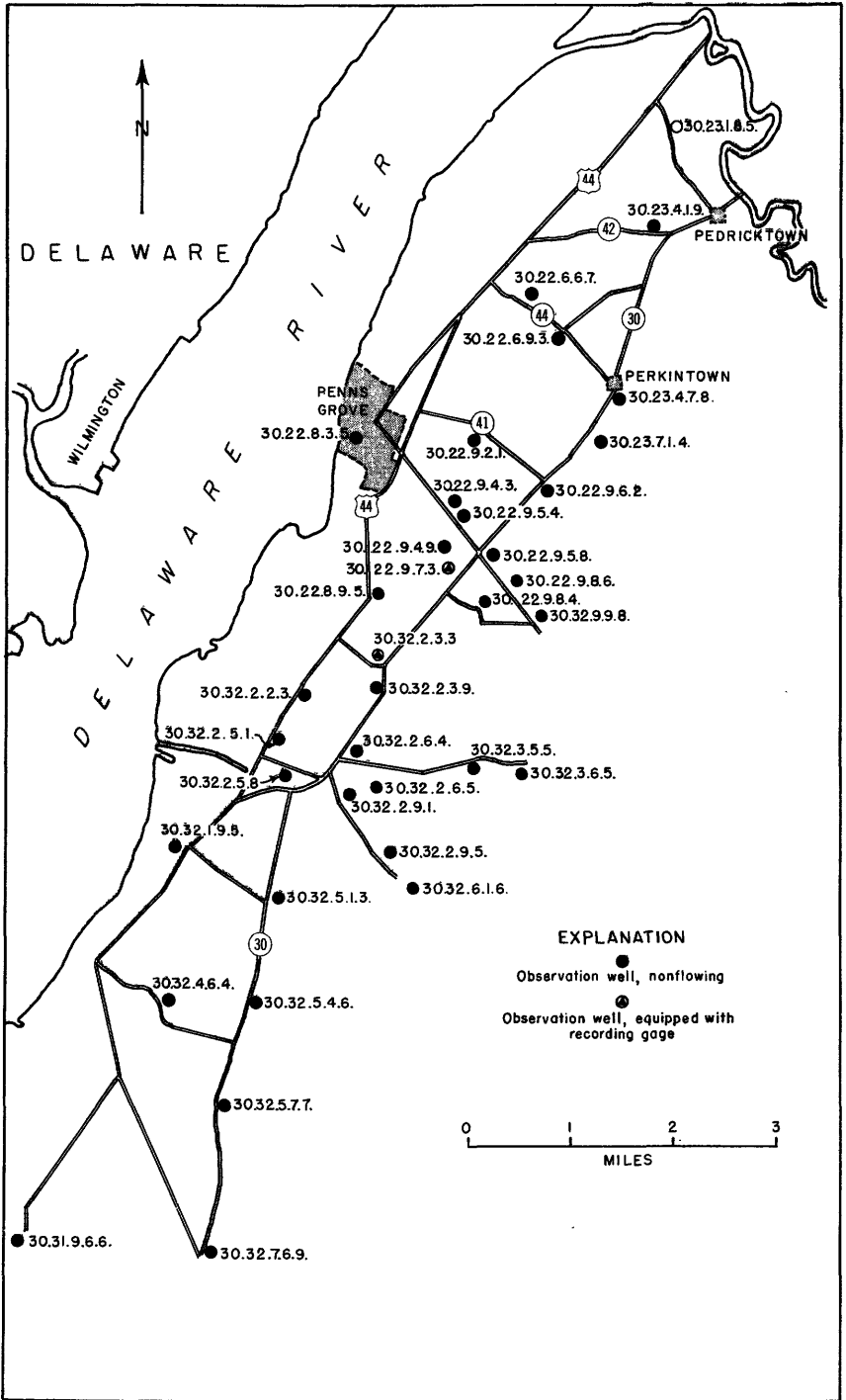


Figure 16. --Location of observation wells in western Salem County, N. J., 1951.

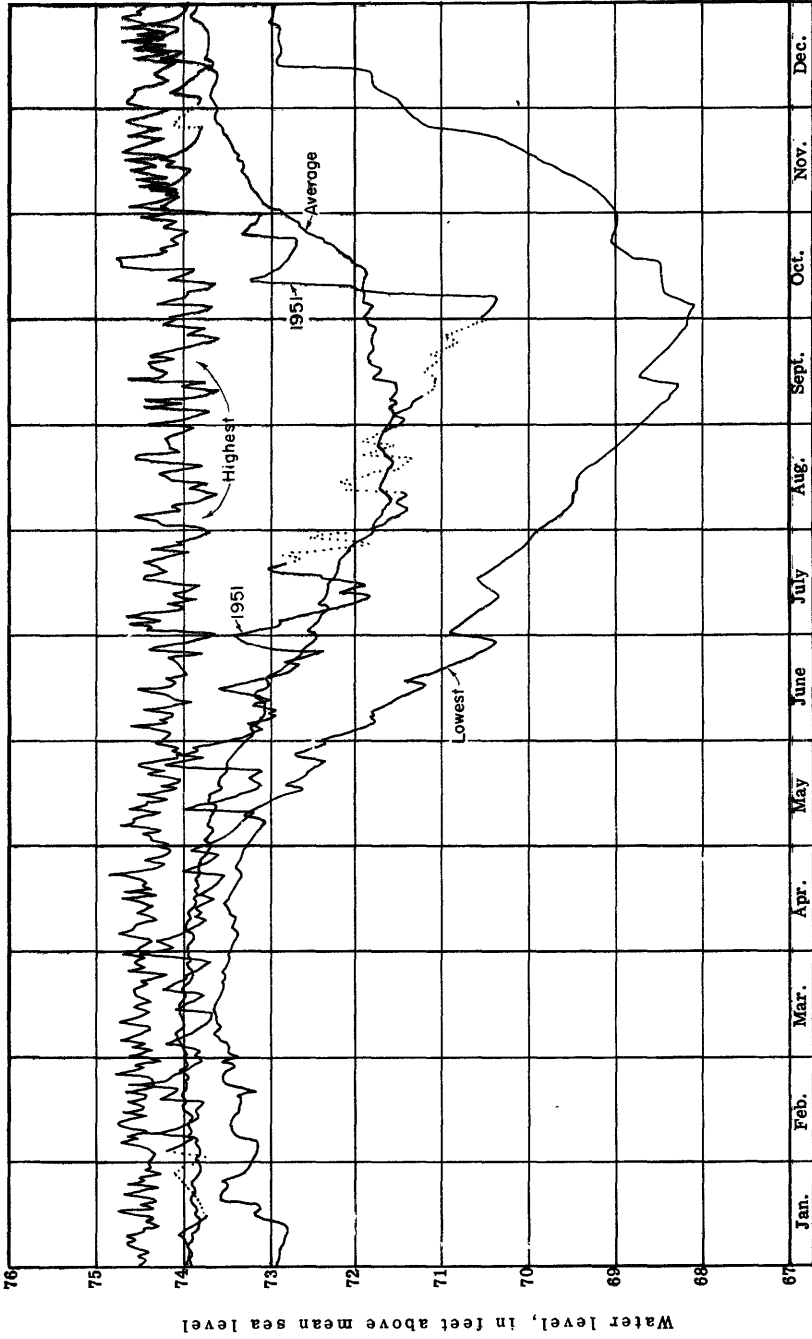


Figure 17. -- Average water level during 1923-50 and water level during 1951 in well 29.11.1.2.3, Middlesex County, N. J.

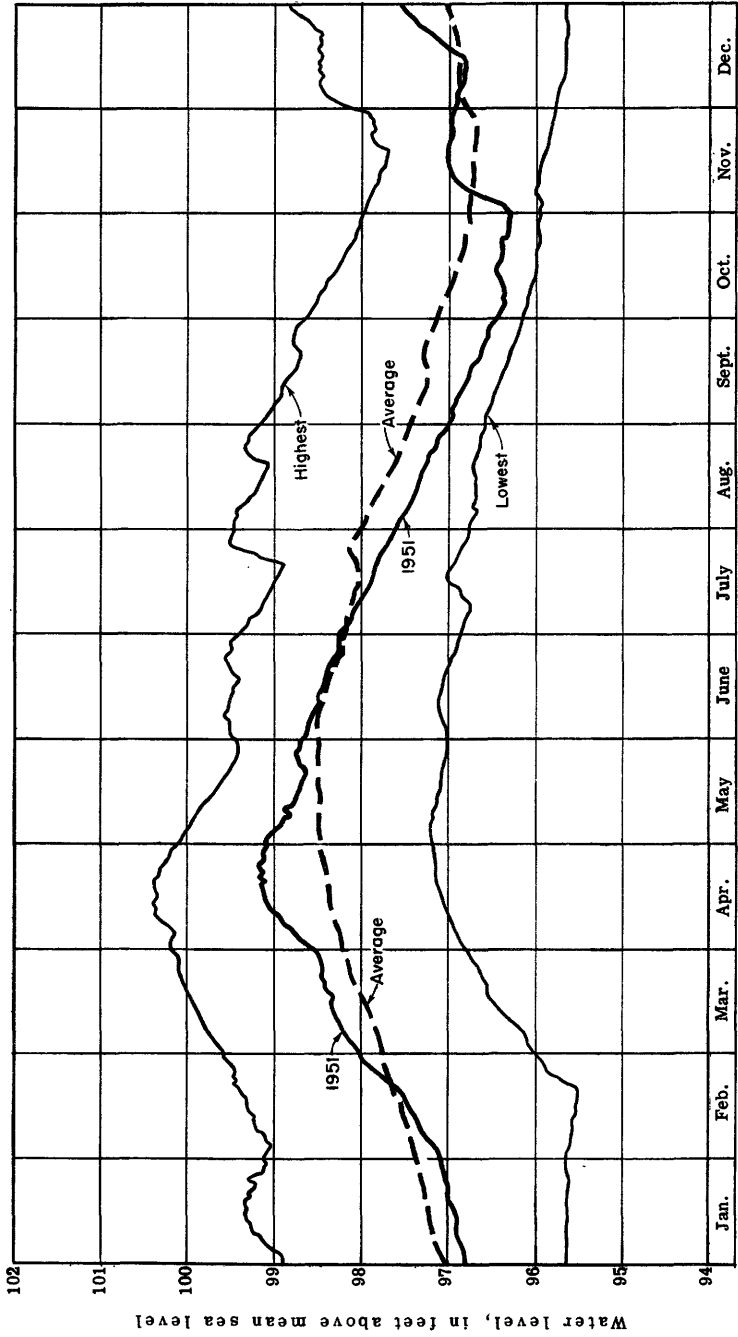


Figure 18. -- Average water level during 1936-50 and water level during 1951 in well 29. 11. 1. 2. 9, Monmouth County, N. J.

preceding year. The lowering of the water levels in this area was caused by the increased pumping from the 800-foot sands in the southern part of the Atlantic City area. In Bergen County, water levels in the Baker well 26.3.1.4.3, were approximately 8 feet higher on Jan. 1, 1951 than on Jan. 1, 1950; and on the last day of the year the water levels were 10 feet higher than the preceding year. This average higher water level was fairly constant throughout the year and can be attributed to the excessive rainfall in the northern counties of the State. The same trend was also observed in the Garfield well 26.3.1.7.3 where the levels in many instances throughout the year were 30 feet higher than in 1950. In the Camden area, a record low of 31.2 feet below msl was observed in well 10 (31.2.4.5.1) on August 18, the previous low being 29.8 feet below msl on Aug. 28, 1950. This low can be attributed mainly to increased pumping and to deficient rainfall in the southern half of the State. The Rulif Hulsart well 29.11.1.2.9 in Monmouth County, is a reliable index of ground-water levels in this area. A hydrograph (fig. 18), showing the highest, lowest, and average end-of-day water levels for the years 1936 to 1951 inclusive, indicates the seasonal trends. The 1951 end-of-day water levels were slightly lower than average during the months of July to October inclusive. No record highs or lows were observed in this well during the year. In Salem County (see fig. 16), record highs were observed in 12 wells: 1 during February, 3 in March and 8 during December. Eleven of the above wells were driven for observation purposes and all tap the Cape May formation. One is a drilled well in which the highest water level was recorded on March 20. This well appears to tap the Merchantville clay which generally yields little or no water to wells.

Well-Numbering System

The well-numbering system is based upon 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 9 equal rectangles which are numbered from 1 to 9, beginning in the upper left corner and numbering to the right in normal reading order. 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 appropriate signs are placed to indicate a change; readings that are between minus (-) signs are considered to be below the plane of reference; and those between plus (+) signs are considered as above the plane of reference. A plus or minus sign is placed immediately preceding the first entry in each column of each mixed table.

Atlantic County

36.13.2.9.1. Atlantic City Water Dept. 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 28.2 below msl, Oct. 4, 1951. Records available: 1925-51.

Water level at end of day from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e24.4	23.6	22.8	22.3	22.0	22.3	23.0	24.7	26.9	28.1	27.5	e26.3
2	24.4	23.6	22.8	22.2	22.0	22.3	23.0	24.9	26.9	28.1	....	e26.3
3	24.4	23.6	22.8	22.1	22.0	22.4	23.1	24.9	27.0	28.2	....	26.4
4	24.3	23.6	22.8	22.1	22.0	22.4	23.1	25.0	27.0	28.2	....	26.3
5	24.3	23.6	22.8	22.1	22.0	22.4	23.1	25.1	27.1	28.2	....	26.2
6	24.3	23.5	22.7	22.1	22.0	22.4	23.2	25.1	27.1	28.2	....	26.2
7	24.3	23.4	22.7	22.0	22.0	22.5	23.2	25.2	27.2	28.2	....	26.1
8	24.3	23.4	22.7	22.0	22.0	22.5	23.3	25.3	27.2	28.2	....	26.1
9	24.3	23.4	22.7	22.0	22.0	22.5	23.3	25.3	27.3	28.1	....	26.1
10	24.2	23.4	22.7	22.0	22.0	22.5	23.4	25.4	27.3	28.2	....	26.1
11	24.2	23.4	22.7	22.0	22.0	22.5	23.4	25.5	27.4	28.1	....	26.1
12	24.2	23.4	22.6	22.0	22.0	22.5	23.5	25.5	27.4	28.1	....	26.1
13	24.2	23.3	22.6	22.0	22.0	22.6	23.5	25.6	27.5	28.1	....	26.0
14	24.2	23.3	22.4	22.0	22.1	22.6	23.6	25.7	27.6	28.1	....	25.9
15	24.1	23.3	22.4	22.0	22.1	22.6	23.6	25.8	27.6	28.1	....	25.8
16	24.1	23.3	22.4	22.0	22.1	22.6	23.7	25.8	27.7	28.1	....	25.8
17	24.1	23.3	22.4	22.0	22.1	22.6	23.7	25.9	27.7	28.1	....	25.8
18	24.1	23.2	22.4	22.0	22.1	22.7	23.8	26.0	27.8	28.1	....	25.7
19	24.0	23.2	22.4	22.0	22.1	22.7	23.9	26.1	27.8	28.1	....	25.7
20	24.0	23.2	22.4	22.0	22.2	22.7	23.9	26.1	27.8	28.0	....	25.7
21	24.0	23.0	22.4	22.0	22.2	22.7	24.0	26.2	27.9	28.0	....	25.5
22	24.0	22.9	22.4	22.0	22.2	22.8	24.0	26.3	27.9	28.0	....	25.5
23	24.0	22.9	22.4	22.0	22.2	22.8	24.1	26.3	28.0	28.0	....	25.5
24	23.9	22.9	22.4	22.0	22.2	22.8	24.1	26.4	28.0	28.0	....	25.5
25	23.9	22.8	22.3	22.0	22.2	22.8	24.2	26.5	28.0	28.0	....	25.4

36.13.2.9.1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	23.8	22.8	22.3	22.0	22.2	22.9	24.3	26.5	28.0	28.0	....	25.4
27	23.8	22.8	22.3	22.0	22.2	22.9	24.3	26.6	28.1	27.9	....	25.4
28	23.8	22.8	22.3	22.0	22.2	22.9	24.4	26.7	28.1	27.9	....	25.4
29	23.8		22.3	22.0	22.2	22.9	24.5	26.7	28.1	27.8	....	25.3
30	23.7		22.3	22.0	22.3	23.0	24.5	26.8	28.1	27.8	e26.4	25.2
31	23.7		22.3		22.3		24.6	26.8		27.7		25.2

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 above msl in 1895; lowest 67.5 below msl, Sept. 2, 1951. Records available: 1924-51. This well is 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	43.5	41.1	....	40.0	....	48.4	53.7	62.7	66.5	57.5	50.2	46.3
2	43.6	41.9	....	39.7	44.0	....	55.0	63.3	66.5	57.1	49.7	46.5
3	43.5	41.4	....	39.8	44.2	....	56.0	63.7	65.9	56.8	49.6	46.3
4	43.5	41.0	....	40.2	44.1	....	56.6	62.8	65.0	55.7	50.0	46.1
5	43.7	41.2	....	40.4	44.1	49.7	56.9	....	64.8	55.2	50.1	45.8
6	43.2	41.2	....	40.4	44.8	49.2	56.5	....	64.9	55.4	49.9	45.8
7	42.7	40.6	39.2	40.3	44.9	49.5	56.7	....	....	55.1	48.8	46.0
8	42.8	41.7	39.3	40.2	43.6	49.2	....	....	63.8	55.2	49.5	46.1
9	43.2	41.7	39.4	40.3	....	....	58.9	....	64.0	55.1	49.7	46.0
10	43.1	40.9	....	40.4	....	....	59.0	....	64.2	54.1	49.4	46.1
11	42.8	40.8	....	....	....	49.1	59.2	....	64.0	53.2	49.3	45.6
12	43.1	41.0	39.4	....	46.2	49.4	59.3	....	63.4	53.8	48.9	45.2
13	42.8	41.1	39.2	....	....	49.7	59.5	....	63.4	53.6	48.6	45.5
14	42.4	40.9	....	....	....	49.3	59.9	....	63.1	53.6	48.4	45.4
15	42.3	40.7	39.8	....	....	49.3	60.8	64.4	62.6	53.5	48.3	45.4
16	43.1	40.9	40.0	....	....	....	61.5	....	61.7	53.2	47.9	45.1
17	42.8	40.7	40.1	....	48.5	....	61.7	....	61.4	52.8	48.0	45.8
18	42.3	40.6	40.1	....	47.7	49.9	60.3	....	60.9	52.0	48.2	45.4
19	....	40.6	39.7	....	46.7	50.6	59.7	....	60.7	52.2	48.2	45.6
20	42.5	40.0	40.0	....	46.4	51.4	59.1	....	60.7	52.4	47.9	45.2
21	42.6	39.8	49.9	....	46.0	51.8	59.7	....	60.8	52.6	47.8	44.6
22	42.8	39.6	40.1	....	....	52.1	60.7	....	60.9	52.6	47.9	45.3
23	42.3	39.1	39.8	....	....	51.8	61.1	....	60.9	52.4	47.9	....
24	41.7	39.5	39.9	....	45.9	51.4	61.7	....	59.8	52.3	47.6	45.2
25	41.7	....	40.5	....	....	52.2	61.8	....	59.3	52.3	47.2	44.8
26	41.8	....	40.5	....	47.0	53.3	62.1	....	58.4	52.0	47.1	44.5
27	41.9	....	40.5	....	47.7	53.8	62.6	....	58.1	51.6	47.6	44.7
28	41.8	....	40.6	....	47.7	53.4	....	....	....	51.2	46.8	44.7
29	41.7	....	40.3	....	47.6	53.5	....	....	57.8	51.2	46.4	44.3
30	41.7	....	39.8	....	47.2	53.2	....	....	57.7	51.1	46.2	43.9
31	41.2	....	40.3	....	47.5	....	62.3	66.2	....	50.9	....	44.0

Bergen County

26.3.1.4.3. William Wanke. Formerly Baker well. 77 Rosemont Ave., East Paterson. Drilled unused artesian well in Brunswick formation of Triassic system, 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 21.8 above msl, Jan. 5, 1950. Records available: 1926-51.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.0	34.1	....	....	43.9	41.6	....	....	34.4	33.7	32.7	37.0
2	30.5	....	....	....	43.8	41.6	....	....	....	33.3	32.4	36.9
3	30.6	34.2	....	....	43.4	41.6	....	35.9	....	33.3	32.6	36.7
4	31.2	34.5	....	....	43.0	41.4	....	36.0	....	33.6	32.5	37.0
5	31.6	34.8	....	....	42.7	41.4	....	35.8	....	33.5	32.5	37.1
6	31.9	34.8	....	....	42.5	41.0	....	35.9	....	32.4	32.5	37.1
7	31.9	34.9	....	....	42.5	40.1	....	35.9	....	32.3	33.0	37.0
8	32.6	35.1	....	....	42.7	40.1	....	36.2	....	33.0	33.4	37.2
9	32.6	35.1	....	....	43.3	40.8	....	36.2	35.9	33.6	33.2	37.1
10	32.7	....	....	....	43.0	41.0	....	35.4	35.9	34.0	33.8	37.0

26.3.1.4.3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	....	....	....	43.0	41.2	....	35.8	35.9	34.1	34.1	36.9
12	....	....	....	45.1	42.9	41.3	....	35.8	35.9	34.3	....	37.1
13	....	....	....	45.1	42.8	41.1	....	36.3	35.7	34.3	35.1	37.1
14	32.6	36.0	....	45.0	42.6	....	....	36.6	35.0	34.5	35.3	37.0
15	33.1	36.0	....	45.0	42.5	....	....	37.2	34.7	34.3	35.4	36.9
16	33.1	36.3	....	45.1	....	41.6	....	37.4	35.6	33.6	35.6	36.5
17	33.1	36.4	....	45.0	....	41.6	....	37.7	35.1	33.6	35.7	36.4
18	33.1	36.5	....	45.0	41.3	41.0	....	37.6	35.1	33.8	35.6	36.3
19	33.1	36.6	....	45.0	41.3	40.5	....	37.8	34.2	33.6	35.7	36.9
20	33.1	....	....	44.7	....	40.0	....	38.3	34.0	32.8	35.6	36.7
21	33.2	....	....	44.6	....	40.0	....	38.5	34.1	32.7	36.1	37.5
22	33.3	....	....	44.6	....	39.3	....	38.1	33.2	33.2	36.0	37.4
23	33.5	....	....	44.5	....	39.3	....	38.0	33.1	33.1	36.7	37.4
24	33.7	....	....	44.3	....	39.2	....	38.1	32.7	33.2	37.0	37.9
25	33.8	....	....	44.3	....	38.7	....	37.7	32.7	33.1	37.0	38.1
26	33.8	38.2	....	44.0	....	38.3	34.2	38.0	33.4	32.5	36.9	39.1
27	33.8	38.1	....	44.0	....	38.2	34.0	37.8	33.6	32.1	36.8	39.4
28	33.8	....	....	44.0	....	38.0	34.3	37.2	33.6	32.0	37.0	39.5
29	34.2	....	....	44.0	....	38.0	37.1	36.8	33.6	32.6	37.0	39.8
30	34.2	....	....	44.0	....	....	36.2	35.6	....	32.3	37.1	39.9
31	34.2	....	....	....	41.6	....	....	34.5	....	32.8	....	40.0

26.3.1.7.3. City of Garfield. East Paterson. Drilled unused artesian well in Brunswick formation, 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 8.9 below msl, Sept. 26, 1949. Records available: 1926-51.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.9	18.3	24.2	26.0	27.9	24.3	21.1	....	17.3	15.2	....	20.5
2	18.2	17.9	24.5	28.8	27.5	24.3	21.4	....	17.4	14.7	....	20.5
3	17.9	17.9	24.6	29.0	26.9	24.7	21.2	....	22.9	14.4	....	20.5
4	17.4	18.3	25.3	29.2	26.8	24.6	21.3	....	20.6	14.3	....	20.5
5	17.1	18.7	25.1	29.7	26.3	24.1	21.6	....	19.0	14.0	....	20.6
6	17.1	18.7	25.1	29.9	26.4	24.0	21.6	....	18.8	13.4	....	20.5
7	17.2	18.9	25.2	30.2	26.2	23.5	21.1	....	18.1	13.4	....	20.7
8	6.7	18.8	24.9	31.3	25.7	23.3	21.1	....	17.8	14.5	....	22.2
9	3.1	18.8	24.8	31.5	25.5	23.3	20.6	....	17.6	....	....	24.0
10	2.0	18.8	24.8	31.0	25.3	23.5	20.3	....	17.2	....	....	23.7
11	9.9	19.2	25.4	30.6	25.3	24.0	20.0	....	16.7	....	....	22.5
12	13.6	20.2	25.2	30.6	25.4	23.6	19.9	19.8	16.6	....	....	22.3
13	14.9	20.2	25.0	30.8	25.5	23.6	19.9	20.1	16.1	....	15.4	21.6
14	15.7	20.2	24.9	30.6	25.6	24.0	19.6	19.3	16.1	....	16.2	21.6
15	17.3	20.3	24.6	30.5	25.5	23.7	19.5	19.3	15.9	....	16.9	21.6
16	17.0	20.6	24.4	30.2	25.3	23.6	19.1	19.1	15.9	....	16.9	21.5
17	17.0	20.7	24.2	29.9	25.9	23.7	18.7	19.1	15.8	12.8	17.5	21.7
18	17.1	21.4	24.3	29.7	26.0	23.7	18.7	19.2	15.6	12.6	17.8	21.8
19	17.0	21.7	24.7	29.6	25.5	23.3	18.8	19.8	15.5	12.4	18.1	21.6
20	17.0	21.7	24.2	29.2	25.7	22.7	19.1	21.3	15.0	12.3	18.3	21.6
21	17.3	21.7	24.2	29.2	25.6	22.5	20.2	20.5	14.9	12.3	18.3	21.6
22	17.3	21.6	24.0	29.3	25.2	22.1	20.3	19.9	14.8	13.0	18.8	21.6
23	17.3	21.6	24.0	30.0	24.6	22.1	19.4	19.3	14.6	12.8	19.1	21.8
24	17.6	22.1	24.3	29.4	24.4	22.0	19.3	....	14.5	12.7	19.1	22.9
25	17.5	25.4	24.7	29.1	24.0	21.5	18.9	....	14.6	12.4	19.1	23.4
26	17.4	24.5	25.7	28.5	24.2	21.3	....	....	14.4	....	19.9	25.1
27	17.3	24.2	25.3	28.1	24.5	21.3	....	....	14.4	....	19.9	25.1
28	17.3	24.2	25.2	28.1	24.4	21.1	....	18.8	14.4	....	19.8	25.4
29	18.1	....	25.3	29.2	24.0	21.0	....	18.2	....	....	19.9	25.8
30	18.0	....	25.4	28.3	24.1	20.9	....	17.9	14.6	....	19.9	26.2
31	18.0	....	25.6	....	25.0	....	....	17.5	....	....	....	26.5

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: 1936-51.

32. 23. 6. 6. 8--Continued.

Water level at end of day, above msl, 1936

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 14	e77.77	Dec. 19	e77.85	Dec. 24	e77.82	Dec. 28	e77.60
15	e77.63	20	e78.20	25	e77.75	29	e77.56
16	e77.60	21	e78.10	26	e77.70	30	e77.50
17	e78.00	22	e77.95	27	e77.65	31	e77.42
18	e77.87	23	e77.93				

Water level at end of day, above msl, 1937

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e77.39	e78.20	e77.67	e77.44	e77.83	e77.37	e77.40	e75.79	e76.80	e75.90	e77.56	e78.08
2	e77.44	e77.95	e77.65	e77.40	e77.81	e77.35	e77.35	e75.77	e76.78	e75.88	e77.54	e78.05
3	e78.49	e77.97	e77.63	e77.30	e77.79	e77.33	e77.30	e75.75	e76.65	e75.86	e77.52	e78.00
4	e78.44	e77.92	e77.60	e77.35	e77.76	e77.31	e77.25	e75.73	e76.53	e75.83	e77.50	e77.90
5	e78.39	e77.91	e77.58	e77.42	e77.74	e77.29	e77.20	e75.70	e76.42	e76.53	e77.48	e77.85
6	e78.34	e77.90	e77.55	e77.85	e77.70	e77.27	e77.15	e75.68	e76.32	e76.42	e77.46	e78.00
7	e77.89	e77.89	e77.53	e77.99	e77.68	e77.25	e77.10	e75.66	e76.90	e76.40	e77.44	e77.95
8	e77.74	e77.88	e77.50	e77.70	e77.63	e77.23	e77.00	e75.64	e76.18	e76.35	e77.42	e77.90
9	e77.79	e77.87	e77.89	e77.75	e77.60	e77.21	e76.95	e75.62	e76.06	e76.30	e77.40	e77.85
10	e77.79	e77.89	e77.80	e77.73	e77.57	e77.70	e76.85	e76.60	e75.84	e77.30	e77.38	e77.80
11	e77.84	e77.90	e77.76	e77.72	e77.51	e77.19	e76.75	e75.58	e75.82	e77.28	e77.36	e77.75
12	e77.89	e77.93	e77.73	e77.70	e77.50	e77.60	e76.70	e75.56	e75.80	e77.26	e77.64	e77.70
13	e77.84	e77.92	e77.71	e77.67	e77.49	e77.70	e76.65	e75.54	e75.78	e77.25	e77.54	e77.65
14	e77.84	e77.91	e77.89	e77.63	e77.50	77.90	e76.55	e75.52	e76.18	e77.35	e77.94	e77.60
15	e77.99	e77.90	e78.18	e77.58	e77.75	77.72	e76.50	e75.50	e76.16	e77.33	e77.90	e77.55
16	e78.04	e78.19	e77.95	e77.55	e77.73	77.53	e76.42	e75.48	e76.14	e77.32	e77.82	e77.50
17	e78.09	e78.08	e77.93	e77.51	e77.70	77.58	e76.38	e75.46	e76.12	e77.31	e77.78	e77.45
18	e78.10	e77.87	e77.71	e77.49	e77.68	77.55	e76.30	e75.44	e76.14	e77.30	e77.72	e77.40
19	e78.14	e77.86	e77.87	e77.46	e77.68	e77.53	e76.22	e75.40	e76.10	e77.79	77.68	e77.40
20	e78.20	e77.85	e77.84	e77.42	e77.85	e77.52	e76.18	e75.38	e76.09	e77.69	77.59	e77.35
21	e78.18	e77.84	e77.80	e77.90	e77.80	e77.51	e76.09	e75.30	e76.08	e77.80	77.46	e77.30
22	e78.17	e78.03	e77.73	e77.89	e77.73	e77.50	e76.00	e75.48	e76.07	e77.60	77.40	e77.25
23	e78.16	e77.92	e77.70	e77.87	e77.70	e77.49	75.92	e75.48	76.06	e77.50	77.37	e77.20
24	e78.15	e77.80	e77.67	e77.80	e77.80	e77.48	75.87	e76.78	76.02	77.46	77.35	e77.15
25	e78.14	e77.76	e77.65	e77.73	e77.70	e77.47	75.85	e76.50	76.00	77.46	77.34	e77.70
26	e78.13	e77.73	e77.63	e77.69	e77.60	e77.46	75.84	e76.88	75.94	77.44	e77.32	e77.65
27	e78.12	e77.91	e77.60	e77.98	e77.50	e77.45	75.84	e76.89	75.89	78.31	e77.30	e77.58
28	e78.11	e77.69	e77.57	e77.92	77.67	e77.44	e75.83	e76.88	75.91	78.31	e78.20	e77.42
29	e78.10		e77.52	e77.90	77.53	e77.43	e75.82	e76.87	75.93	77.92	e78.15	e77.38
30	e78.09		e77.50	e77.87	77.40	e77.42	e75.81	e76.85	e75.92	77.71	e78.10	e77.30
31	e78.08	e77.49			77.39		e75.80	e76.82		77.58		e77.20

e Estimated.

Water level at end of day, above msl, 1938

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.54	e77.70	e77.73	e77.50	e76.80	e76.80	e76.85	77.68	76.84	78.06	77.81	77.96
2	77.67	e77.68	e77.70	e77.45	e76.77	e76.72	e76.80	77.61	76.74	77.96	77.75	77.83
3	77.53	e77.63	e77.68	e77.55	e76.75	e76.60	e76.75	77.53	76.66	77.92	77.71	78.23
4	77.47	e77.60	e77.88	e77.50	e76.73	e77.28	e76.70	77.64	76.91	77.86	77.70	78.00
5	77.43	e77.57	e77.80	e77.45	e76.69	76.99	e76.65	77.76	76.75	77.81	77.66	78.32
6	77.40	e77.53	e77.90	e77.40	e76.65	76.84	76.63	77.55	76.62	78.52	77.62	78.06
7	e78.20	e77.58	e77.87	e77.35	e76.60	76.73	76.51	77.97	76.54	78.06	77.60	77.90
8	e78.10	e77.53	e77.83	e77.80	e76.55	76.64	76.41	77.97	76.46	77.96	77.84	77.86
9	e78.05	e77.49	e77.80	e77.80	e76.50	76.55	76.33	77.86	76.39	77.87	77.68	78.11
10	e78.00	e77.43	e77.76	e77.65	e76.45	76.47	76.25	77.84	76.33	77.81	77.58	77.88
11	e77.95	e77.40	e78.00	e77.53	e76.40	76.43	77.41	77.68	76.29	77.77	77.55	77.82
12	e77.90	e77.60	e77.90	e77.44	e76.35	76.73	77.31	77.56	76.25	77.75	77.53	77.77
13	e77.87	e77.58	e77.83	77.32	e76.30	77.13	77.11	77.46	76.23	77.72	77.55	77.72
14	e77.83	e77.56	e77.80	77.27	e76.80	77.16	77.31	77.39	76.19	77.71	77.48	77.69
15	e77.80	e77.54	e77.85	77.19	e76.85	77.04	77.16	77.33	76.16	77.68	77.45	77.63
16	e77.77	e77.52	e78.10	77.13	e76.80	76.94	76.96	77.28	76.14	77.65	77.41	77.61
17	e77.73	e77.50	e78.00	77.12	e76.75	76.84	76.86	77.26	76.15	77.61	77.61	77.64
18	e77.71	e77.48	e77.93	77.11	e76.70	76.74	78.04	77.23	76.31	77.57	77.55	77.62
19	e77.68	e77.50	e77.90	77.06	e76.65	76.66	77.89	77.15	76.91	77.56	78.22	77.58
20	e77.65	e77.90	e77.86	e77.05	e76.60	76.59	78.16	77.07	78.21	77.95	77.86	77.56
21	e77.60	e77.80	e77.85	e77.04	e76.55	76.51	77.96	77.01	78.46	77.70	77.73	77.54
22	e77.57	e77.85	e77.82	e77.03	e76.50	76.44	78.11	76.96	78.17	77.56	77.68	77.51
23	e77.54	e77.92	e77.80	e77.00	e76.60	76.39	78.13	76.89	78.06	77.55	78.12	77.49
24	e77.50	e77.85	e77.76	e76.95	e76.55	76.34	78.11	76.82	77.97	78.11	77.91	77.51
25	e77.55	e77.83	e77.73	e76.93	76.52	76.27	78.00	76.76	77.89	77.81	77.83	77.46

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	e77.85	e77.82	e77.70	e76.90	76.62	76.21	77.98	76.70	77.8 ^a	77.73	77.94	77.76
27	e77.83	e77.80	e77.67	e76.88	77.28	e76.31	77.97	76.65	78.21	77.66	e78.24	77.98
28	e77.82	e77.77	e77.64	e76.85	77.20	e76.61	77.88	76.59	77.89	78.31	e78.14	77.76
29	e77.80		e77.60	e76.83	77.11	e76.95	77.95	76.53	78.61	78.18	e78.12	77.70
30	e77.78		e77.58	e76.81	76.99	e76.90	77.92	76.46	78.27	77.96	e78.06	77.68
31	e77.74		e77.55		76.89		77.78	76.41		77.86		77.66

e Estimated.

Water level at end of day, above msl, 1939

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.65	e78.14	e78.30	78.48	77.93	e77.30	e76.80	76.35	77.95	77.76	77.71	77.04
2	77.72	e78.56	e78.22	78.30	77.86	e77.22	e76.75	76.22	77.91	78.02	77.57	77.25
3	77.63	e78.67	e78.40	78.13	77.96	e77.18	e76.70	76.13	77.86	77.93	77.48	77.24
4	77.56	e78.27	e78.45	78.05	77.85	e77.11	e76.53	76.06	77.81	77.74	77.44	77.14
5	77.55	e78.18	e78.33	78.01	e77.83	e77.06	e76.46	75.98	77.76	77.64	78.29	77.08
6	78.01	e78.22	e78.28	78.66	e77.81	e77.03	e76.40	75.91	77.69	77.56	77.93	e77.05
7	77.84	e78.24	e78.20	78.33	e77.80	e77.00	e76.32	75.85	77.68	77.46	77.79	e77.03
8	77.73	e78.12	e78.14	78.18	e77.76	e76.97	e76.28	76.24	77.66	77.41	77.68	e77.00
9	77.68	e78.05	e78.08	78.15	e77.74	e76.93	e76.50	76.26	77.62	77.36	77.59	e76.97
10	77.83	e78.52	e78.06	78.18	e77.85	e76.90	e76.49	76.14	77.62	77.31	77.57	e76.94
11	77.66	e78.43	e78.38	78.09	e77.83	e76.89	e76.47	76.01	77.52	77.24	77.49	e76.91
12	77.58	e78.26	e78.44	78.06	e77.79	e76.92	e76.46	75.91	77.52	77.21	77.46	e76.89
13	77.56	e78.19	e78.46	77.96	e77.85	e77.42	e76.45	75.84	77.49	77.16	77.41	e77.01
14	77.58	e78.15	e78.38	77.93	e77.87	e77.40	e76.22	75.78	77.46	77.09	77.37	e77.04
15	77.54	e78.56	e78.30	77.93	e77.80	e77.30	e76.10	75.73	77.42	77.04	77.35	e76.95
16	77.51	e78.19	e78.28	78.15	e77.73	e77.23	e76.05	75.69	77.40	77.04	77.34	e76.94
17	77.49	e78.15	78.24	78.21	e77.70	e77.18	e76.00	75.65	77.34	76.99	77.30	e76.86
18	77.50	e78.10	78.13	78.39	e77.67	e77.12	e75.95	75.60	77.28	76.96	77.28	e76.85
19	77.51	e78.06	78.08	78.26	e77.60	e77.04	e75.90	78.46	77.26	76.96	77.25	e76.84
20	77.47	e78.05	78.07	78.10	e77.55	e77.00	e75.85	78.14	77.24	76.94	77.22	e76.83
21	77.46	e78.04	78.02	78.00	e77.50	e76.93	e75.80	78.01	77.24	77.06	77.21	e76.85
22	77.91	e78.11	78.11	77.95	e77.45	e76.90	e75.75	77.89	77.17	77.37	77.21	e76.83
23	77.66	e78.00	78.02	77.88	e77.60	e76.82	76.22	77.80	77.14	77.21	77.21	e76.80
24	78.03	e77.92	78.00	77.86	e77.57	e76.71	76.16	77.76	77.11	77.10	77.17	e76.75
25	77.81	e77.87	78.18	77.83	e77.52	e76.65	76.11	78.25	77.09	77.07	77.14	e76.70
26	77.67	e77.88	78.06	78.41	e77.50	e76.50	76.06	78.15	77.05	77.03	77.13	e76.65
27	77.56	e78.12	78.16	78.16	e77.48	e76.40	76.04	77.96	77.41	77.01	77.11	e76.90
28	77.50	e78.22	78.38	78.24	e77.46	e76.30	76.04	77.91	77.28	77.11	77.09	e76.85
29	78.40		78.17	78.07	e77.42	e76.20	76.01	78.34	77.22	77.01	77.07	e76.80
30	78.55		78.63	77.99	e77.40	e76.90	76.37	78.30	77.16	77.44	77.06	e76.75
31	78.25		78.31		e77.38		76.47	78.07		78.07		e76.70

e Estimated.

Water level at end of day, above msl, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e76.75	76.76	e77.50	77.65	e77.66	78.37	e77.03	75.81	77.74	76.23	76.28	77.06
2	e76.70	76.77	e77.55	77.54	e77.61	77.95	e77.11	75.75	77.44	76.43	76.58	77.01
3	e76.69	76.76	e77.90	77.55	e77.57	77.81	e77.61	75.70	77.25	76.48	76.58	76.94
4	e76.68	76.75	e77.82	77.86	e77.53	77.70	e77.51	75.65	77.13	76.39	76.51	76.91
5	e76.67	76.77	e77.75	77.66	e77.48	77.64	e77.46	75.61	77.02	76.31	76.46	76.90
6	e76.65	76.94	e77.70	77.54	77.42	77.55	e77.41	75.72	76.95	76.25	76.39	76.88
7	e76.70	77.07	e77.65	77.46	77.35	77.45	e77.46	76.43	76.88	76.19	76.34	76.96
8	e76.70	77.07	e77.60	78.16	77.32	77.39	e77.41	76.45	76.84	76.23	76.29	76.95
9	e76.65	77.06	e77.58	78.02	77.44	78.16	e77.31	76.34	76.80	76.32	76.23	76.87
10	e76.60	77.41	e77.56	77.81	77.31	77.88	e77.21	76.22	76.75	76.27	76.19	76.85
11	e76.59	77.51	77.54	77.71	77.27	77.74	e77.11	76.12	76.84	76.21	76.16	76.81
12	e76.58	77.41	77.49	78.38	77.22	77.63	e77.01	76.04	76.78	76.16	76.66	76.78
13	e76.57	77.33	77.46	78.31	77.21	77.94	76.91	75.98	76.69	76.12	77.11	76.77
14	e77.50	77.79	78.45	78.04	77.17	77.61	76.83	75.93	76.64	76.08	77.41	76.76
15	e77.45	77.56	78.25	77.92	77.13	77.49	76.69	75.86	76.60	76.05	77.46	76.74
16	e77.40	77.49	78.07	77.84	77.92	77.36	76.64	75.81	76.54	76.02	77.31	77.37
17	77.38	77.54	77.97	77.80	77.78	77.29	76.73	76.52	76.48	75.99	77.17	77.33
18	77.32	77.83	77.90	77.79	77.60	77.27	76.62	76.88	76.42	75.96	77.06	77.18
19	77.26	78.13	77.83	77.74	77.48	77.19	76.55	76.85	76.36	75.94	76.98	77.10
20	77.20	77.97	77.77	78.51	77.41	77.09	76.48	76.76	76.33	75.97	76.95	77.07
21	77.15	77.79	77.71	78.41	77.36	77.03	76.41	76.61	76.29	75.98	76.90	77.01
22	77.09	77.67	77.88	78.24	78.05	76.97	76.35	76.49	76.23	75.97	76.86	76.97
23	77.06	77.59	77.70	78.06	77.93	e76.95	76.31	76.41	76.17	75.95	76.82	76.90
24	77.04	77.59	77.64	77.98	77.76	e76.93	76.27	76.32	76.14	75.93	76.86	76.86
25	77.01	77.51	77.61	77.95	77.70	e76.91	76.24	76.31	76.53	75.90	76.83	76.85

172 WATER LEVELS AND ARTESIAN PRESSURES, 1951, NORTHEASTERN STATES

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	76.97	77.44	77.56	77.91	77.68	e76.89	76.18	77.04	76.52	75.88	77.06	76.95
27	76.94	77.41	77.55	e77.87	77.63	e76.87	76.12	77.04	76.44	75.85	77.49	76.96
28	76.89	77.66	77.51	e77.81	77.58	e76.83	76.06	77.83	76.34	75.84	77.31	77.44
29	76.87		77.51	e77.76	77.48	e76.89	76.00	77.70	76.27	75.83	77.21	77.47
30	76.83		77.82	e77.71	77.79	e76.93	75.94	77.54	76.24	76.24	77.14	77.28
31	76.79		77.81		78.15		75.87	77.37		76.28		77.16

e Estimated.

Water level at end of day, above msl, 1941

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.08	77.47	77.16	e77.20	e77.75	76.21	e76.70	e77.30	75.97	e74.61	e74.51	74.80
2	77.37	77.46	e77.06	e77.40	e77.70	76.23	e76.60	e77.10	75.88	e74.57	e74.42	74.78
3	77.39	77.39	e77.00	e77.32	e77.60	76.19	e76.70	e76.80	75.81	e74.57	e74.43	74.76
4	77.44	77.35	e76.92	e77.25	e77.50	77.05	e76.90	e76.50	75.76	e74.57	e74.24	74.75
5	77.26	77.29	e76.87	e78.30	e77.30	77.19	e76.95	e76.25	75.71	e74.56	e74.26	74.96
6	77.14	77.26	e76.83	e78.20	e77.20	77.16	e76.90	76.12	75.64	e74.53	e74.31	75.13
7	77.07	78.21	e76.90	e78.10	e77.00	77.01	e76.95	76.04	75.57	e74.51	e74.36	75.18
8	77.02	77.88	e77.45	e78.05	e77.30	76.88	e77.00	75.96	75.48	e74.48	e74.41	75.21
9	76.99	77.71	e77.40	e78.00	e77.15	76.75	e78.25	75.91	75.82	e74.46	e74.42	75.21
10	76.99	77.60	e77.30	e77.98	e77.00	76.64	e78.20	75.86	75.37	e74.45	e74.44	75.20
11	76.95	77.54	e77.20	e79.96	e76.85	76.54	e78.10	75.80	75.31	e74.45	e74.46	75.18
12	76.92	77.51	e77.10	e77.94	e76.75	76.46	e78.00	75.74	75.26	e74.45	e74.48	75.16
13	76.88	77.50	e77.00	e77.93	76.68	77.78	e77.95	75.67	75.22	e74.45	e74.49	75.55
14	76.84	77.64	e76.85	e77.92	76.64	77.75	e77.90	75.62	75.17	e74.43	e74.50	76.13
15	76.81	77.60	e76.80	e77.90	76.61	78.46	e77.80	75.58	e75.16	e74.41	e74.51	76.14
16	77.64	77.47	e76.70	e77.85	76.61	78.03	e77.75	75.55	e75.12	e74.40	e74.52	76.13
17	77.62	77.48	e76.60	e77.80	76.61	77.84	e78.20	75.53	e75.08	e74.37	e74.53	76.06
18	77.50	77.41	e76.50	e77.85	76.58	77.69	e78.25	75.48	e75.05	e74.36	74.54	76.02
19	77.36	77.34	e76.45	e77.60	76.54	77.56	e78.30	75.49	e75.00	e74.34	74.51	75.98
20	77.24	77.29	e76.42	e78.00	76.50	77.44	e78.40	75.62	e74.96	e74.32	74.49	75.98
21	77.16	77.27	e76.40	e77.95	76.46	77.35	e78.30	75.62	e74.92	e74.30	74.45	e75.97
22	77.13	77.27	e76.39	e77.90	76.44	77.26	e78.20	75.56	e74.90	e74.27	74.42	e75.96
23	77.17	77.28	e76.38	e77.85	76.44	77.20	e78.15	75.51	e74.86	e74.26	74.56	e75.95
24	77.95	77.25	e76.45	e77.80	76.46	77.15	e78.05	75.46	e74.82	e74.25	74.72	e75.94
25	77.76	77.23	e76.66	e77.75	76.41	77.07	e78.00	76.68	e74.80	e74.24	74.79	e75.93
26	77.63	77.19	e76.65	e77.70	76.37	76.99	e77.95	76.65	e74.76	e74.23	74.82	e75.92
27	78.04	77.18	e76.64	e77.65	76.33	76.92	e77.90	76.49	e74.73	e74.22	74.82	e75.91
28	77.83	77.18	e76.60	e77.60	76.30	76.85	e78.25	76.36	e74.70	e74.41	74.82	e75.90
29	77.72		e76.58	e77.55	76.25	76.79	e78.00	76.24	e74.66	e74.40	74.82	e75.89
30	77.61		e76.62	e77.50	76.21	e76.75	e77.75	76.15	e74.64	e74.79	74.82	e75.88
31	77.55		e76.60		76.17		e77.50	76.06		e74.78		e75.87

e Estimated.

Water level at end of day, above msl, 1942

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e77.83	e77.44	e76.75	e77.21	76.86	e76.30	e76.82	75.92	76.92	e76.07	77.03	77.14
2	e77.76	e77.28	e76.60	e77.05	76.83	e76.46	e77.30	75.87	76.83	e76.01	76.91	77.21
3	e77.71	e77.16	e77.50	e76.91	76.81	e76.38	e76.85	75.77	76.75	e76.06	76.86	77.06
4	e77.70	e77.07	e77.38	e76.62	76.78	e76.33	e76.60	75.66	e76.73	e76.11	76.78	76.97
5	e77.80	e77.05	e77.20	e76.61	76.74	e76.32	e76.50	75.56	e76.71	e76.16	76.71	e76.90
6	e77.76	e77.15	e77.20	e77.36	76.71	e76.30	e76.40	75.48	e76.69	e76.21	76.67	76.89
7	e77.73	e77.35	e77.25	e77.10	76.85	e76.27	e76.28	75.42	e76.67	e76.26	76.62	76.87
8	e77.70	e77.40	e77.18	e76.91	76.96	e76.24	e76.20	75.41	e76.63	e76.31	76.60	76.84
9	e77.68	e77.16	e77.40	e76.77	77.06	e76.22	e76.17	75.84	e76.69	e76.36	76.55	77.16
10	e77.63	e77.08	e77.30	e76.70	77.01	e76.19	e76.11	76.03	e76.65	e76.41	76.72	77.14
11	e77.57	e77.00	e77.12	e76.62	76.89	e76.17	e76.52	76.04	e76.73	e76.46	76.76	77.08
12	e77.55	76.98	e76.90	e76.59	76.81	e77.06	e76.50	76.18	e76.79	e76.51	76.69	77.02
13	e77.51	76.90	e76.62	e76.53	e76.73	e77.00	e76.40	76.57	e76.75	e76.56	76.62	77.24
14	e77.47	76.86	e76.40	e77.41	e76.67	e76.95	e66.30	77.01	e76.73	e76.56	76.54	e77.22
15	e77.42	76.83	e76.20	e77.14	e76.64	e76.90	e76.20	76.90	e76.71	e76.55	76.49	e77.20
16	e77.40	77.33	e76.01	e77.16	e76.61	e76.85	e76.10	76.75	e76.69	e76.87	76.46	e77.16
17	e77.38	77.47	e76.31	e77.17	e76.93	e76.80	e76.00	77.81	e76.65	e76.81	76.43	e77.14
18	e77.36	77.33	e76.13	e77.18	e76.84	e76.75	e76.90	77.59	e76.83	e76.63	76.41	e77.11
19	e77.65	77.21	e76.83	e77.19	e76.76	e76.70	e75.85	77.35	e76.71	e76.67	76.37	e77.08
20	e77.55	77.11	e76.63	77.20	e76.69	e76.65	75.78	77.19	e76.77	e76.69	76.35	e77.05
21	e77.50	77.04	e76.95	77.17	e76.67	e76.60	75.76	77.09	e76.65	e76.71	76.31	e77.02
22	e77.42	77.00	e76.87	77.14	e76.65	e76.55	75.69	76.98	e76.51	e76.72	76.28	e77.00
23	e77.38	76.97	e76.70	77.10	e76.63	e76.50	75.62	77.36	e76.49	e76.73	76.28	e77.45
24	e77.31	76.96	e76.61	77.07	e76.62	e76.45	75.57	77.31	e76.47	e76.74	77.04	e77.40
25	e77.24	76.92	e76.55	77.05	e76.59	e76.40	75.51	77.06	e76.43	e76.75	77.24	e77.28

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	e77. 19	76. 90	e76. 83	77. 00	e76. 57	e76. 35	75. 47	76. 92	e76. 39	e76. 86	77. 05	e77. 18
27	e77. 11	76. 86	e76. 75	76. 96	e76. 52	e76. 57	75. 46	76. 83	e76. 31	e76. 87	76. 93	e77. 80
28	e77. 31	e76. 84	e76. 63	76. 94	e76. 49	e76. 57	75. 58	76. 76	e76. 25	76. 78	76. 83	e77. 80
29	e77. 22		e76. 97	76. 93	e76. 44	e76. 50	75. 55	77. 44	e76. 21	76. 68	77. 03	e78. 20
30	e77. 16		e76. 95	76. 90	e76. 42	e76. 42	75. 51	77. 22	e76. 19	76. 63	77. 16	e78. 16
31	e77. 45		e76. 86		e76. 38		75. 76	77. 04		76. 59		e78. 10

e Estimated.

Water level at end of day, above msl, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e78. 05	78. 12	e77. 40	e77. 52	e77. 38	e77. 62	e77. 18	76. 02	e74. 85	74. 04	e77. 78	e76. 81
2	e78. 03	77. 86	e77. 40	e77. 47	e77. 36	e77. 53	e77. 07	75. 95	e74. 65	73. 89	e77. 70	e76. 80
3	e78. 00	77. 74	e77. 33	e77. 45	e77. 50	e77. 45	e76. 95	e75. 93	e74. 55	73. 83	e77. 63	e76. 78
4	e77. 97	78. 19	e77. 35	e77. 42	e77. 36	e77. 38	e76. 90	e75. 82	74. 45	73. 81	77. 56	e76. 74
5	e77. 96	77. 95	e77. 50	e77. 40	e77. 29	e77. 27	e76. 87	e75. 73	74. 43	73. 81	77. 46	e76. 72
6	e77. 93	78. 14	e78. 06	e77. 37	e77. 26	e77. 20	e76. 75	e75. 65	74. 40	73. 81	77. 43	e76. 70
7	e77. 91	77. 92	e77. 80	e77. 34	e77. 20	e77. 17	e77. 20	e75. 56	74. 36	73. 84	77. 34	e76. 70
8	e77. 87	77. 77	e77. 67	e77. 31	e77. 18	e77. 12	e77. 10	e75. 55	74. 34	73. 87	77. 61	e76. 90
9	e77. 84	77. 69	e77. 66	e77. 29	e77. 12	e77. 34	e76. 99	e75. 49	74. 31	73. 91	77. 68	e76. 87
10	e77. 83	77. 66	e77. 66	e77. 27	e77. 08	e77. 31	e76. 80	e75. 43	74. 28	73. 96	77. 48	e76. 85
11	e77. 77	78. 24	e77. 73	e77. 25	e77. 05	e77. 29	e76. 75	e75. 41	74. 25	74. 00	77. 48	e76. 83
12	e77. 74	77. 96	e77. 63	77. 66	e77. 35	e77. 22	76. 94	e75. 37	74. 22	74. 03	77. 50	e76. 81
13	e77. 72	78. 12	e77. 81	77. 61	e77. 32	e77. 18	77. 03	e75. 32	74. 18	74. 07	77. 27	e76. 80
14	e77. 67	77. 85	e77. 90	77. 58	e77. 45	e77. 30	77. 45	e75. 70	74. 16	74. 06	77. 21	e76. 77
15	e77. 65	e77. 57	e78. 29	77. 45	e77. 42	e77. 26	77. 26	e75. 65	74. 14	74. 08	77. 19	e76. 75
16	e77. 60	e77. 54	e78. 02	77. 36	e77. 40	e77. 22	77. 04	e75. 60	74. 17	74. 35	77. 13	e76. 73
17	e77. 56	e77. 49	e78. 02	77. 31	e77. 37	e77. 18	76. 90	e75. 55	74. 19	74. 47	77. 08	e76. 71
18	e78. 06	e77. 49	e77. 95	77. 26	e77. 34	e77. 40	e76. 75	e75. 50	74. 23	74. 54	77. 06	e76. 70
19	e78. 16	e77. 49	e78. 25	78. 36	e77. 26	e77. 45	e76. 65	e75. 45	74. 25	74. 56	77. 05	e76. 67
20	e78. 08	e77. 58	e78. 18	78. 01	e77. 66	e77. 43	76. 57	e75. 40	74. 27	74. 57	77. 02	e76. 65
21	e77. 99	e77. 60	e78. 09	78. 19	e77. 92	e77. 40	76. 50	e75. 35	74. 29	e74. 52	77. 01	e76. 63
22	e77. 93	e77. 55	e78. 20	77. 98	e77. 84	e77. 35	76. 58	e75. 30	74. 30	e74. 50	77. 04	e76. 61
23	e77. 85	e77. 52	e78. 00	77. 83	e77. 74	e77. 28	76. 48	e75. 25	74. 32	e74. 47	e77. 02	e76. 59
24	e77. 83	e77. 75	e77. 90	77. 73	e77. 63	e77. 22	76. 38	e75. 20	74. 35	e74. 45	e77. 00	e76. 57
25	e77. 76	e77. 61	e77. 77	e77. 70	e77. 58	e77. 19	76. 31	e75. 15	74. 36	e74. 43	e76. 98	e76. 56
26	e77. 67	e77. 56	e77. 68	e77. 65	e77. 88	e77. 17	76. 51	e75. 10	74. 38	e75. 73	e76. 96	e76. 56
27	e77. 87	e77. 51	e77. 78	e77. 57	e77. 83	e77. 12	76. 48	e75. 05	74. 41	e76. 50	e76. 94	e77. 87
28	e78. 25	e77. 45	e77. 67	e77. 50	e77. 72	e77. 08	76. 35	e75. 50	74. 42	e77. 60	e76. 90	e77. 85
29	e78. 00		e77. 65	e77. 47	e77. 64	e77. 27	76. 26	e75. 35	74. 45	e78. 00	e76. 88	e77. 83
30	77. 94		e77. 58	e77. 42	e77. 59	e77. 27	76. 18	e75. 20	74. 46	e77. 93	e76. 83	e77. 81
31	78. 01		e77. 54		e77. 70		76. 10	e75. 00		e77. 90		e77. 80

e Estimated.

Water level at end of day, above msl, 1944

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e77. 80	e77. 20	e77. 75	e78. 30	e77. 90	e77. 35	e77. 45	e76. 30	74. 88	76. 59	76. 71	e77. 32
2	e77. 80	e77. 19	e77. 70	e78. 20	e77. 80	e77. 30	e77. 40	e76. 20	75. 04	76. 51	76. 68	e77. 30
3	e77. 85	e77. 18	e77. 80	e78. 25	e77. 70	e77. 25	e77. 35	e77. 40	75. 07	76. 62	76. 67	e77. 28
4	e77. 80	e77. 15	e77. 75	e78. 20	e77. 60	e77. 20	e77. 30	e77. 20	75. 05	76. 61	76. 66	e79. 25
5	e77. 60	e77. 14	e77. 90	e78. 25	e77. 50	e77. 15	e77. 25	e76. 80	74. 96	76. 54	76. 64	e77. 23
6	e77. 70	e77. 11	e77. 80	e78. 20	e77. 40	e77. 10	e77. 20	e76. 60	74. 90	76. 51	76. 58	e77. 21
7	e77. 64	e77. 09	e78. 10	e78. 15	e77. 60	e77. 05	e77. 15	e76. 40	74. 85	76. 46	76. 56	e77. 20
8	e77. 62	e77. 05	e78. 10	e78. 10	e77. 55	e77. 00	e77. 10	e76. 30	74. 79	76. 44	76. 53	e77. 10
9	e77. 60	e77. 00	e78. 00	e78. 05	e77. 50	e76. 95	e77. 05	e76. 20	74. 76	76. 39	76. 51	e77. 07
10	e77. 58	e76. 95	e77. 90	e78. 00	e77. 45	e77. 15	e77. 00	e76. 00	74. 73	76. 35	76. 61	e77. 05
11	e77. 56	e77. 45	e77. 80	e77. 95	e77. 40	e77. 10	e76. 95	e75. 95	74. 68	76. 30	e76. 60	e77. 00
12	77. 54	e77. 55	e77. 70	e78. 00	e77. 35	e77. 05	e76. 90	e75. 92	74. 74	76. 26	e76. 55	e77. 70
13	77. 49	e77. 50	e78. 20	e77. 95	e77. 45	e77. 00	e76. 85	e75. 87	74. 99	76. 26	e76. 50	e77. 68
14	77. 47	e77. 80	e78. 10	e77. 90	e77. 40	e76. 95	e77. 05	e75. 85	77. 84	76. 23	e76. 45	e77. 65
15	77. 46	e77. 75	e78. 05	78. 41	e77. 35	e77. 35	e76. 95	75. 83	77. 51	76. 17	e76. 40	e77. 63
16	77. 41	e77. 73	e78. 00	78. 37	e77. 55	e77. 30	e76. 90	75. 75	77. 31	76. 16	76. 35	e77. 60
17	77. 41	e77. 72	e78. 10	78. 07	e77. 50	e77. 25	e76. 85	75. 67	77. 17	76. 12	76. 42	e77. 59
18	77. 54	e77. 71	e78. 05	77. 93	e77. 45	e77. 20	e76. 80	75. 58	77. 10	76. 10	76. 39	e77. 57
19	77. 67	e77. 69	e78. 00	e77. 85	e77. 40	e77. 50	e76. 75	75. 51	77. 25	76. 06	76. 37	e77. 50
20	77. 62	e77. 67	e78. 25	e77. 78	e77. 50	e77. 60	e76. 70	75. 44	77. 10	77. 34	76. 71	e77. 51
21	77. 56	e77. 65	e78. 20	e77. 78	e77. 45	e77. 55	e76. 65	75. 37	77. 03	77. 54	77. 99	e77. 49
22	77. 49	e77. 63	e78. 10	e77. 79	e77. 40	e77. 50	e76. 60	75. 34	76. 92	77. 33	77. 68	e77. 55
23	77. 55	e77. 60	e78. 30	e77. 95	e77. 35	e77. 45	e76. 55	75. 30	76. 82	77. 19	e77. 48	e77. 56
24	e77. 45	e77. 55	e78. 40	e78. 15	e77. 75	e77. 40	e76. 50	75. 23	76. 75	77. 10	e77. 40	e77. 54
25	e77. 40	e77. 50	e78. 35	e78. 26	e77. 70	e77. 60	e76. 45	75. 17	76. 68	77. 03	e77. 32	e77. 52

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	e77.39	e77.75	e78.30	e78.09	e77.65	e77.70	e76.40	75.11	76.82	76.96	e77.25	e77.50
27	e77.41	e77.70	e78.35	e78.51	e77.60	e77.65	e76.35	75.07	76.58	76.94	e77.45	e77.45
28	e77.45	e77.65	e78.30	e78.20	e77.55	e77.60	e76.65	75.04	76.61	76.90	e77.50	e78.45
29	e77.38	e77.80	e78.20	e78.05	e77.50	e77.55	e76.60	75.00	76.67	76.83	e77.40	e78.51
30	e77.31		e78.40	e78.00	e77.45	e77.50	e76.55	74.95	76.64	76.77	e77.34	e78.40
31	e77.21		e78.35		e77.40		e76.40	74.91		76.74		e78.44

e Estimated.

Water level at end of day, above msl, 1945

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e78.20	77.35	77.92	77.36	77.45	76.77	76.01	77.07	76.29	75.56	e75.30	77.34
2	e77.95	77.33	77.86	77.38	77.38	76.89	76.00	77.01	76.29	75.54	e75.28	77.23
3	e77.85	77.28	77.83	77.33	78.03	76.89	76.28	76.95	76.25	75.49	e75.27	77.16
4	e77.65	77.27	77.71	77.31	77.85	76.87	76.20	76.88	76.17	75.46	e75.25	77.09
5	77.64	77.28	77.68	77.36	77.84	76.99	76.11	76.79	76.11	75.44	e75.23	77.26
6	77.58	77.27	78.14	77.26	77.68	76.95	76.24	78.01	76.06	75.43	e75.21	77.84
7	78.27	77.26	77.97	77.24	77.56	76.84	76.37	77.86	76.01	75.42	e75.19	77.61
8	77.98	77.78	77.81	77.22	e77.61	76.77	76.25	77.66	75.96	75.39	75.17	77.44
9	77.84	e77.69	77.73	77.18	e77.98	76.73	76.13	77.49	75.91	75.39	75.16	77.36
10	77.68	77.60	77.69	77.17	e77.88	76.74	76.40	77.36	75.88	75.39	75.15	77.53
11	77.60	77.56	77.63	77.16	e77.85	76.77	e76.42	77.24	75.86	75.37	75.14	77.37
12	77.58	77.52	77.60	77.14	e77.83	76.69	e76.40	77.12	75.96	75.36	75.14	e77.32
13	77.87	77.86	77.58	77.13	e77.80	76.63	e76.38	77.05	75.88	75.32	75.14	e77.52
14	77.85	77.77	77.55	77.09	e77.78	76.55	e76.35	76.98	75.84	e75.31	75.28	e77.50
15	77.75	77.81	77.97	77.06	e77.75	76.51	e76.30	76.93	75.81	e75.30	75.61	e77.47
16	78.14	77.72	77.81	77.05	e77.73	76.48	e77.80	76.85	75.77	e75.29	75.66	e77.45
17	77.87	77.64	77.68	77.26	e77.70	76.36	e77.70	76.76	75.76	e75.28	75.66	e77.42
18	77.73	77.59	77.57	77.57	e77.65	76.31	e77.80	76.68	75.91	e75.27	75.66	e77.40
19	77.68	77.52	77.56	77.38	e77.60	76.37	e77.70	76.61	76.04	e75.25	75.76	e77.70
20	77.63	77.50	77.51	77.32	e77.70	76.40	e77.60	76.54	76.04	e75.23	76.02	e77.60
21	77.58	77.71	77.89	77.46	e77.60	76.35	e77.50	76.47	75.93	e75.22	76.05	e77.50
22	77.88	78.22	78.29	77.35	e77.55	76.63	e77.90	76.41	75.84	e75.21	76.81	e77.40
23	77.85	78.06	77.99	77.26	e77.50	76.53	e77.70	76.35	75.79	e75.60	76.81	e77.30
24	77.81	77.86	77.78	77.21	e77.45	76.37	e77.60	76.74	75.77	e75.57	76.74	e77.20
25	77.53	77.77	77.68	77.66	e77.35	76.28	77.48	76.91	75.75	e75.55	76.64	e77.10
26	77.46	78.24	77.64	77.81	e77.25	76.26	77.35	76.94	75.70	e75.60	76.56	e77.60
27	77.43	78.12	77.58	77.66	e77.15	76.18	77.26	76.79	75.68	e75.55	76.51	e77.55
28	77.41	78.16	77.51	77.50	e77.00	76.12	77.21	76.66	75.64	e75.50	77.41	e77.48
29	77.43		77.46	77.41	e76.93	76.15	77.21	76.54	75.60	e75.45	77.64	e78.00
30	77.39		77.40	77.34	76.87	76.08	77.21	76.44	75.60	e75.40	77.49	e77.95
31	77.38		77.40		76.81		77.08	76.34		e75.35		e77.90

e Estimated.

Water level at end of day, above msl, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e77.87	77.83	77.68	77.64	77.18	77.83	76.94	e77.20	e76.72	76.53	75.69	75.69
2	e77.83	77.73	77.65	77.81	77.15	78.11	77.88	e77.16	e76.65	76.43	75.67	e75.64
3	77.79	77.62	77.55	77.61	77.08	77.81	77.60	e77.35	e76.60	76.34	75.66	e75.60
4	77.78	77.55	77.50	77.60	77.08	77.83	77.44	e77.35	e76.57	76.26	75.66	75.57
5	77.81	77.51	77.44	77.50	77.18	77.67	77.33	e77.32	e76.52	76.19	75.65	75.56
6	77.79	77.81	77.42	77.46	77.12	77.58	77.31	e77.30	e76.46	76.14	75.63	75.55
7	77.89	77.80	77.41	77.41	77.09	77.51	77.21	e77.98	e76.40	76.09	e75.60	75.54
8	77.75	77.65	77.59	77.78	77.10	77.44	e77.20	e77.92	e76.37	76.04	e75.55	75.52
9	78.18	77.79	77.57	77.63	77.04	77.34	e77.18	e77.84	e76.33	76.01	e75.70	75.51
10	77.88	77.61	77.44	77.48	77.01	77.26	e77.17	e77.73	e76.30	76.26	e75.65	75.50
11	77.77	77.58	77.36	77.41	77.00	77.46	e77.14	e77.64	e76.26	76.31	e75.82	75.47
12	77.96	77.51	77.33	77.38	77.59	77.92	e77.11	e77.57	e76.22	76.31	e75.77	75.46
13	77.75	77.49	77.33	77.34	77.51	77.68	e77.07	e77.52	e76.19	76.31	e75.72	75.46
14	77.69	77.85	77.31	77.31	78.04	78.39	e77.01	e77.80	e76.15	76.26	75.66	75.46
15	77.66	77.61	78.08	77.29	77.81	77.94	e76.96	e77.78	e76.05	76.20	75.62	75.46
16	77.51	77.50	77.79	77.23	77.68	77.76	e76.92	e77.69	e76.00	76.14	75.58	75.43
17	77.51	77.50	77.69	77.20	77.86	77.68	e76.90	e77.65	e75.95	76.09	75.57	75.42
18	77.58	77.44	78.38	77.18	77.76	77.61	e76.89	e77.72	e75.93	76.06	75.75	75.42
19	77.53	78.11	77.99	77.15	77.58	77.52	e76.88	e77.58	e75.90	76.01	75.76	75.42
20	77.51	77.93	77.83	77.09	77.49	77.68	e76.87	77.42	e75.87	75.98	75.76	75.50
21	77.93	77.76	77.74	77.08	77.72	77.61	e76.92	77.24	e76.10	75.95	75.75	76.86
22	77.68	77.74	77.70	77.08	77.48	77.48	e76.99	77.12	e76.05	75.91	75.78	76.89
23	77.59	77.68	77.62	77.08	77.41	77.40	78.14	77.31	e76.03	75.90	75.81	76.83
24	77.87	77.67	78.02	77.06	77.36	77.33	77.83	77.13	e76.60	75.86	75.81	76.76
25	77.86	77.60	77.84	77.39	77.31	77.26	77.73	77.02	e76.55	75.85	75.81	76.67

32.23.6.6.8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	77.75	77.58	77.98	77.58	77.27	77.18	77.57	76.96	76.48	75.83	75.79	76.59
27	77.63	77.75	77.84	77.42	e77.25	77.11	77.45	76.91	76.38	75.81	75.79	76.53
28	77.57	77.78	77.68	77.31	e77.55	77.06	77.35	e76.90	76.31	75.80	75.77	76.53
29	77.52		77.64	77.26	e77.53	77.04	77.26	e76.87	76.27	75.78	75.74	76.55
30	77.93		77.95	77.21	e77.48	77.01	e77.24	e76.84	76.55	75.76	75.71	76.55
31	78.11		77.71		77.44		e77.22	e76.80		75.72		76.47

e Estimated.

Water level at end of day, above msl, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.53	77.11	77.18	77.04	78.16	77.64	e77.18	e75.75	74.78	74.33	74.42	76.61
2	77.07	77.07	e77.14	77.30	77.91	77.57	e77.12	e75.60	74.76	74.31	74.48	76.56
3	77.23	77.03	e77.92	77.36	77.95	77.51	e77.04	e75.48	74.71	74.27	74.53	76.55
4	77.08	77.66	e77.90	77.23	78.22	77.41	e76.95	e75.30	74.68	74.26	75.54	76.50
5	77.01	e77.60	e77.85	77.29	78.21	77.37	e76.87	e75.22	74.82	74.23	75.74	76.51
6	77.01	e77.50	e77.80	77.28	77.97	77.33	e76.76	e75.12	74.84	74.21	76.01	76.46
7	77.04	e77.40	e77.75	77.19	77.85	77.66	e76.65	e75.00	74.83	74.16	76.01	76.44
8	77.09	e77.30	e77.70	77.11	77.73	77.75	e77.20	e75.47	74.78	74.16	76.71	76.49
9	77.01	e77.50	e77.65	77.45	77.66	77.70	e77.15	e75.45	74.76	74.16	76.77	76.43
10	76.92	e77.42	e77.60	77.36	77.60	77.65	e77.07	e75.35	74.70	74.16	76.61	76.36
11	76.87	e77.35	e77.55	77.27	77.55	77.55	e76.93	e75.29	74.77	74.25	76.63	76.51
12	76.81	77.26	e77.50	77.80	77.51	77.43	e76.86	75.21	74.88	74.11	77.06	76.50
13	e76.80	77.26	e77.45	77.55	77.43	77.35	e76.82	75.16	74.87	74.05	76.93	76.45
14	e76.79	77.31	e77.40	77.61	78.31	77.54	e76.73	75.13	74.81	74.02	76.82	76.38
15	77.29	77.36	e77.50	77.56	77.92	77.48	e76.65	75.08	74.76	74.01	76.78	76.36
16	77.31	77.32	e77.40	77.93	77.78	77.31	e76.58	75.04	74.68	73.98	76.76	77.18
17	77.22	77.22	e77.35	77.72	77.68	e77.29	e77.20	75.11	74.62	73.96	76.66	77.06
18	77.13	77.16	e77.30	77.56	77.69	e77.27	e77.00	75.13	74.60	73.98	76.61	76.96
19	77.07	77.11	77.28	77.43	77.59	e77.18	e77.10	75.12	74.56	74.06	76.55	76.87
20	77.64	77.07	77.28	77.35	78.09	e77.15	e77.00	75.11	74.54	74.07	76.50	76.81
21	77.44	77.07	77.27	77.29	77.93	e77.12	e76.90	75.11	74.51	74.06	76.46	76.75
22	77.26	77.07	77.34	77.31	78.41	e77.07	e76.85	75.06	74.48	74.04	76.45	76.61
23	77.15	77.06	77.31	77.25	78.02	e77.02	e77.00	75.02	74.46	74.01	76.92	76.61
24	77.12	77.05	77.37	77.21	77.89	e76.96	e76.85	74.98	74.45	73.99	77.15	76.68
25	77.11	77.06	77.36	77.17	77.87	e76.94	e76.60	74.95	74.44	73.97	77.07	76.63
26	77.37	77.16	77.23	77.44	78.03	e77.48	e76.52	74.91	74.44	73.95	76.96	76.63
27	77.44	77.17	77.18	77.19	77.86	e77.45	e76.40	74.91	74.42	73.93	76.85	76.61
28	77.31	77.16	77.16	77.16	77.78	e77.43	e76.30	74.91	74.40	73.91	76.78	76.60
29	77.23		77.12	77.11	77.73	e77.40	e76.19	74.88	74.37	74.03	76.72	76.56
30	77.20		77.10	77.06	77.91	e77.36	e76.12	74.86	74.34	74.15	76.66	76.54
31	77.20		77.06		77.73		e75.97	74.81		74.31		76.55

e Estimated.

Water level at end of day, above msl, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.44	e77.35	e78.15	78.48	e78.00	e78.10	e77.75	77.48	77.18	76.32	76.48	77.67
2	77.26	e77.30	e78.10	78.18	e77.92	77.94	e77.60	77.40	77.11	76.27	76.44	77.59
3	77.57	e77.25	78.06	77.96	e77.85	78.16	e77.52	77.82	77.06	76.21	76.41	77.86
4	77.56	e77.20	78.06	77.86	e77.79	78.01	e77.37	78.13	77.01	76.17	76.45	78.07
5	77.63	e77.15	77.91	77.81	e77.70	77.89	e77.31	78.14	76.96	76.18	76.44	77.85
6	77.49	e77.75	77.98	77.77	e77.61	77.77	e77.27	77.78	76.91	76.58	76.43	77.73
7	77.41	e77.70	78.32	77.75	e77.54	78.27	77.21	77.61	76.86	76.54	76.60	77.66
8	77.33	e77.65	78.00	77.72	e77.50	77.92	77.13	77.51	76.82	76.53	76.57	77.57
9	77.35	e77.60	78.36	77.64	e77.95	77.80	77.06	77.41	76.78	76.52	76.54	77.53
10	77.24	e77.55	78.24	77.56	e77.93	77.71	77.00	77.30	76.93	76.44	77.04	77.48
11	77.16	e77.50	78.07	77.84	e77.90	77.66	76.95	77.24	76.93	76.39	77.03	77.45
12	77.16	e77.45	77.93	e77.80	e77.82	77.61	76.89	77.53	76.81	76.39	76.97	77.44
13	78.17	e77.40	77.86	e77.95	e77.80	77.60	76.84	77.41	76.73	76.36	77.05	77.44
14	77.86	e77.35	77.82	e77.93	e78.40	77.51	76.93	77.23	76.66	76.34	76.98	77.37
15	77.61	e77.95	77.81	e77.90	e78.45	77.51	76.85	77.13	76.61	76.31	76.90	78.01
16	77.53	e77.90	77.91	e78.25	e78.30	e77.92	76.77	77.05	76.54	76.27	76.85	78.10
17	77.51	e77.85	77.78	e78.20	e78.20	e77.80	76.75	77.02	76.50	76.26	76.86	77.81
18	77.50	e77.80	77.69	e78.16	e78.25	e77.70	76.71	76.96	76.61	76.24	76.81	77.69
19	e77.44	e77.75	77.75	e78.12	e78.23	e77.65	76.65	76.88	76.72	76.25	76.80	78.12
20	77.39	e77.70	77.67	e78.09	e78.21	e78.00	76.61	78.27	76.65	76.21	77.40	77.94
21	78.25	e77.65	77.66	e78.06	e78.19	e77.95	76.55	78.13	76.56	76.19	77.27	78.10
22	78.00	e77.60	77.60	e78.04	e78.14	e77.90	76.56	78.37	76.48	76.18	77.23	78.02
23	e77.90	e77.85	78.01	e78.00	e78.08	e77.85	77.06	77.98	76.42	76.17	77.16	77.87
24	e77.85	e77.80	77.83	e77.95	e78.00	e77.70	77.03	77.87	76.37	76.73	77.13	77.74
25	e77.80	e77.75	77.66	e77.93	e77.93	e77.55	76.87	77.77	76.33	76.83	77.25	77.64

176 WATER LEVELS AND ARTESIAN PRESSURES, 1951, NORTHEASTERN STATES

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	e77.75	e77.70	77.61	e78.22	e77.84	e77.70	76.73	77.67	76.28	76.78	77.16	77.53
27	e77.70	e77.65	78.16	e78.18	e77.82	e77.75	76.70	77.58	76.26	76.71	77.54	77.49
28	e77.65	e77.60	77.84	e78.16	e77.80	e77.67	76.76	77.49	76.21	76.66	77.77	77.46
29	e77.60	e78.20	77.71	e78.12	e77.78	e77.50	76.64	77.42	76.18	76.61	78.04	77.83
30	e77.55		77.63	e78.09	e77.72	e77.42	76.55	77.33	76.24	76.56	77.80	78.57
31	e77.50		77.57		e78.30		76.49	77.56		76.52		78.22

e Estimated.

Water level at end of day, above msl, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.05	e78.58	78.43	78.37	77.44	77.16	75.78	74.78	76.93	75.88	76.84	76.56
2	77.91	e78.48	78.27	78.03	77.96	77.11	75.73	74.77	76.78	75.81	77.15	76.54
3	77.83	e78.42	78.14	77.95	77.83	77.06	75.68	75.63	76.64	75.76	77.04	76.52
4	77.80	e78.33	78.09	77.84	77.66	77.02	75.63	76.34	e76.60	75.70	76.92	76.50
5	78.21	e78.40	78.05	78.14	77.56	76.99	75.57	76.50	e76.56	75.65	76.71	76.50
6	78.21	e78.30	78.00	78.24	e77.53	76.94	75.53	76.44	e76.52	75.61	76.72	76.46
7	78.03	e78.20	77.90	78.07	e77.42	76.86	75.50	76.29	e76.47	75.59	76.67	76.48
8	77.92	e78.40	77.89	77.96	e77.36	76.79	75.45	76.26	e76.41	75.56	76.60	76.45
9	77.87	e78.30	77.84	77.87	e77.30	76.74	75.40	76.03	e76.70	75.53	76.54	76.38
10	77.83	e78.20	77.91	77.82	e77.32	76.70	75.37	75.93	e76.68	75.48	76.50	76.35
11	e77.80	e78.45	78.34	77.79	e77.45	76.71	75.32	75.82	e76.60	75.44	76.46	76.59
12	e77.69	e78.40	78.07	77.76	e77.43	76.65	75.31	75.73	e76.50	75.41	76.62	76.66
13	e77.60	e78.37	77.95	78.14	e77.38	76.60	75.67	76.10	e76.42	75.38	76.43	76.83
14	e77.53	e78.35	77.90	77.90	e77.37	76.55	75.67	76.22	e76.35	75.36	76.73	76.82
15	e77.50	e78.33	77.85	77.79	e77.35	76.49	75.59	76.11	e76.45	75.35	76.66	76.75
16	e77.42	78.32	77.82	77.70	e77.33	76.45	75.52	75.99	e76.40	75.31	76.57	76.67
17	e77.38	78.04	77.80	77.65	e77.30	76.41	75.49	75.89	e76.33	75.28	76.52	76.61
18	e77.30	77.97	78.34	77.92	e77.27	76.37	75.41	75.85	e76.26	75.44	76.47	76.60
19	e77.27	78.20	78.05	77.78	77.25	76.35	75.34	75.76	e76.20	75.51	76.43	77.02
20	e77.22	78.30	77.97	77.66	77.30	76.31	75.28	75.67	e76.14	75.49	76.39	76.99
21	e77.18	78.08	77.93	77.61	77.23	76.22	75.24	75.59	e76.07	75.45	76.36	76.93
22	e77.11	78.55	77.89	78.02	78.05	76.16	75.19	75.53	e76.00	75.40	76.32	76.88
23	e78.14	78.24	78.25	77.84	77.84	76.09	75.14	75.47	e75.90	75.35	76.31	76.85
24	e78.06	78.10	78.03	77.82	77.86	76.02	75.08	75.44	e75.82	75.30	76.29	76.82
25	e78.00	78.05	78.07	77.67	77.72	75.97	75.04	75.37	e75.71	75.28	76.65	76.76
26	e77.90	77.96	78.00	77.63	77.61	75.95	74.99	75.31	e75.63	75.31	76.62	76.76
27	e77.85	77.94	77.98	77.57	77.51	75.92	74.95	75.26	e75.60	75.32	76.57	77.09
28	e78.12	78.64	77.87	77.50	77.44	75.90	74.91	75.20	e75.50	75.32	76.51	77.04
29	e78.42		77.80	77.46	77.36	75.85	74.88	75.71	e75.48	75.82	76.64	76.94
30	e78.38		77.77	77.43	77.29	75.81	74.85	75.79	e76.00	75.95	76.64	76.85
31	e78.54		78.29		77.23		74.82	75.78		76.67		76.79

e Estimated.

Water level at end of day, above msl, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.76	77.35	77.21	77.49	77.41	76.94	75.64	74.59	76.46	76.26	76.15	77.06
2	76.74	77.51	77.15	77.44	77.34	76.86	75.57	74.56	76.64	76.21	76.10	77.01
3	76.78	77.41	77.08	77.41	77.60	76.78	75.51	74.60	76.88	76.17	76.06	77.01
4	76.77	77.31	77.05	77.39	77.46	77.05	75.47	74.66	76.84	76.14	76.17	77.51
5	76.71	77.21	77.06	77.42	77.37	76.98	75.48	74.64	76.65	76.08	76.48	77.31
6	76.71	77.19	77.05	77.38	77.33	76.81	75.66	74.61	76.51	76.04	76.44	77.21
7	76.66	77.11	77.01	77.33	77.23	76.70	75.69	74.56	76.41	76.03	76.37	77.46
8	76.60	77.04	77.13	77.30	77.14	76.65	75.60	74.51	76.32	e76.02	76.32	77.81
9	76.58	77.20	77.23	77.24	77.02	76.60	75.51	74.47	76.25	e76.00	76.28	77.61
10	76.58	e77.19	77.13	77.21	77.00	76.55	75.50	74.45	76.20	e76.25	76.21	77.66
11	76.55	e77.16	e77.08	77.21	76.96	76.61	75.48	74.41	76.26	e76.20	76.16	77.66
12	76.52	77.14	e77.02	77.17	76.93	76.51	75.42	74.36	76.34	e76.40	76.12	77.51
13	76.89	77.31	e77.74	77.19	76.88	76.43	75.40	74.32	76.92	e76.30	76.08	77.41
14	76.86	77.67	e77.64	77.17	76.83	76.42	75.41	74.28	76.92	e76.26	76.05	77.36
15	76.78	77.85	e77.55	77.14	76.89	76.45	75.40	74.25	75.91	e76.24	76.02	77.31
16	76.73	77.67	e77.50	77.11	77.00	76.45	75.39	74.21	76.85	e76.21	76.01	77.41
17	76.69	77.55	77.44	77.08	76.95	76.37	75.36	74.17	76.71	e76.18	75.98	77.31
18	76.76	77.44	77.35	77.06	76.89	76.30	75.30	74.13	76.61	e76.15	75.95	77.26
19	76.72	77.39	77.26	77.04	77.26	76.28	75.24	74.12	76.57	e76.11	75.92	77.21
20	76.67	77.29	77.21	77.15	77.17	76.25	75.20	74.36	76.54	e76.09	75.93	77.06
21	76.66	77.24	77.97	77.11	77.05	76.21	75.14	74.63	76.63	e76.05	76.31	77.11
22	76.72	77.31	77.80	77.05	76.96	76.15	75.08	74.71	76.86	e76.01	76.32	77.11
23	76.71	78.00	78.08	77.05	76.89	76.09	75.02	74.71	76.76	e77.09	76.31	77.09
24	76.68	77.89	77.85	77.04	76.89	76.03	74.98	74.69	76.60	e76.80	76.27	77.11
25	76.64	77.27	77.74	77.10	76.91	75.98	74.93	74.64	76.51	e76.61	77.21	77.06

32. 23. 6. 6. 8--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	76.61	77.22	77.66	77.09	76.84	75.91	74.88	74.57	76.46	76.45	77.21	77.01
27	76.56	77.16	77.66	77.05	76.79	75.84	74.83	74.52	76.41	76.42	77.21	76.97
28	76.55	77.13	77.92	77.69	76.75	75.76	74.78	74.46	76.37	76.35	77.26	76.95
29	76.69		77.73	77.52	77.05	75.71	74.73	74.37	76.35	76.31	77.16	77.48
30	76.76		77.58	77.42	77.03	75.68	74.68	76.54	76.31	76.26	77.11	77.49
31	77.22		77.53		76.97		74.63	76.60		76.20		77.58

e Estimated.

Water level at end of day, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.43	77.90	77.81	78.07	77.36	77.15	76.53	75.22	74.01	73.29	75.04	76.59
2	77.35	77.67	77.72	78.42	77.35	77.07	76.46	75.17	73.99	73.27	75.47	76.54
3	77.34	77.56	77.68	78.33	77.31	77.00	76.38	75.14	73.97	73.25	76.35	76.51
4	77.38	77.50	78.11	78.13	77.27	76.93	76.34	75.08	73.95	73.23	76.43	76.51
5	77.30	77.45	77.87	78.01	77.23	76.87	76.58	75.03	73.91	73.22	76.36	76.66
6	77.26	77.39	77.79	77.95	77.20	76.84	76.43	74.97	73.89	73.20	76.31	76.69
7	77.63	78.01	77.76	77.91	77.16	76.77	76.31	74.96	73.86	73.18	76.90	76.62
8	77.53	77.75	77.67	77.87	77.12	76.95	76.22	74.93	73.84	73.45	76.86	76.57
9	77.40	77.57	77.60	77.83	77.09	77.29	76.15	74.89	73.81	73.64	76.77	76.55
10	77.29	77.48	77.57	77.91	77.06	77.42	76.06	74.85	73.77	73.77	76.69	76.48
11	77.27	77.47	77.55	77.81	77.42	77.37	76.00	74.82	73.74	74.13	76.59	76.47
12	77.21	77.56	77.53	77.79	77.62	77.18	75.93	74.80	73.71	74.51	76.52	76.43
13	77.14	77.52	77.53	77.74	77.44	77.14	75.87	74.77	73.69	74.70	76.48	76.36
14	77.38	77.42	78.09	77.68	77.32	77.38	75.84	74.75	73.66	74.77	76.47	76.40
15	77.68	77.36	77.89	77.63	77.25	77.23	75.77	74.71	73.64	74.79	76.52	77.16
16	77.50	77.32	77.82	77.94	77.17	77.07	75.71	74.68	73.61	74.79	76.63	77.07
17	77.41	77.90	77.68	77.80	77.10	76.96	75.74	74.64	73.59	74.78	76.61	76.97
18	77.33	77.76	77.62	77.69	77.07	76.88	75.80	74.60	73.56	74.76	76.52	77.38
19	77.26	77.77	78.03	77.63	77.06	76.80	75.78	74.54	73.55	74.75	76.44	77.39
20	77.23	77.76	78.13	77.55	77.06	76.72	75.74	74.51	73.52	74.71	76.38	77.51
21	77.16	78.46	77.91	77.51	77.08	76.66	75.65	74.47	73.50	74.66	76.34	78.07
22	77.09	78.17	77.86	77.50	77.05	76.63	75.60	74.43	73.47	74.63	76.33	77.81
23	77.08	78.00	77.81	77.90	77.38	76.81	75.56	74.38	73.45	74.62	76.31	77.70
24	77.72	77.92	77.80	77.71	77.82	76.71	75.49	74.35	73.43	74.60	76.28	77.61
25	77.59	77.86	77.70	77.64	77.59	76.62	75.42	74.32	73.41	74.71	76.26	77.85
26	77.44	77.82	77.63	77.54	77.45	76.54	75.36	74.29	73.39	74.76	76.90	77.80
27	77.35	77.77	77.59	77.46	77.38	76.54	75.30	74.23	73.37	74.76	76.84	77.62
28	77.34	77.70	77.56	77.45	77.30	76.50	75.35	74.19	73.35	74.76	76.77	77.54
29	77.40		77.65	77.52	77.55	76.46	75.40	74.13	73.33	74.72	76.70	77.53
30	77.35		78.57	77.41	77.41	76.47	75.36	74.11	73.31	74.71	76.64	77.56
31	77.79		78.20		77.25		75.33	74.06		74.67		77.49

Camden County

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, 1945-51. This well is affected by pumping in nearby well field.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.8	5.1	...	3.9	...	6.4	...	5.9	5.3
2	3.7	5.3	...	4.6	...	6.4	...	5.9	4.5
3	4.4	4.3	...	4.7	...	5.4	...	5.6	5.1
4	4.6	4.2	...	4.0	...	5.8	...	4.7	5.1
5	4.8	4.8	...	4.4	...	6.2	...	5.4	5.1
6	5.1	4.8	4.7	4.8	...	6.3	...	5.7	5.0
7	5.2	...	4.8	4.8	4.7	6.2	...	5.0	...
8	4.8	5.3	4.7	4.1	4.8	6.3	...	5.4	...
9	5.1	5.4	4.6	4.3	4.9	5.8	...	5.7	...
10	5.2	4.5	3.9	4.4	5.1	...	6.2	5.1	...
11	5.1	...	4.2	4.6	5.1	...	6.0	4.6	...
12	5.1	...	4.4	...	4.3	...	6.2	...	...
13	5.3	...	4.5	...	5.1	...	6.1	...	...
14	4.9	...	4.5	...	5.4	...	...	...	5.5
15	4.3	...	4.7	...	5.4	...	5.9	...	5.2

31. 2. 2. 5. 2--Continued.

Day	Jan.	Feb.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	4.8	...	4.1	...	5.6	...	5.8	...	5.3
17	5.4	...	3.8	...	5.7	...	5.9	...	5.7
18	5.3	...	4.6	...	5.5	...	5.9	...	5.7
19	5.3	...	4.7	...	4.9	...	5.8	...	5.9
20	5.3	...	4.7	4.5	5.2	...	5.7	...	5.9
21	4.8	...	4.6	4.3	5.3	...	5.1	4.8	4.8
22	4.3	...	4.5	3.9	5.9	...	5.8	4.7	4.7
23	4.9	...	3.7	...	6.1	...	5.9	4.8	4.4
24	5.3	...	3.7	...	6.2	...	5.9	4.6	4.9
25	5.0	...	4.5	...	6.2	...	6.3	4.4	4.6
26	5.0	...	4.7	4.7	6.1	...	6.1	4.5	4.9
27	4.2	...	4.7	5.1	6.0	...	...	5.2	...
28	4.6	...	4.9	4.6	6.3	...	...	4.9	...
29	5.0	...	4.4	4.1	6.5	...	...	5.2	4.4
30	5.2	...	4.1	...	6.5	...	...	5.3	4.4
31	5.1	...	...	...	6.3	...	6.0	...	...

* No record for March, April, and May.

31. 2. 4. 5. 1. New Jersey Water Co. well 10. 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. Highest water level 1.26 above msl, Mar. 19, 1933; lowest 35.1 below msl, July 2, 1951. Records available: 1932-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.8	....	....	19.6	23.1	29.5	23.3	30.3	30.4	26.1	22.8	25.4
2	22.4	....	21.6	20.0	23.9	24.3	35.1	30.0	25.0	26.2	22.7	24.7
3	22.2	....	21.6	20.3	25.1	24.2	....	25.3	....	26.3	22.0	25.9
4	22.3	....	20.7	20.9	25.1	29.0	19.4	29.0	29.3	26.3	24.1	22.9
5	23.8	....	20.9	23.8	20.8	21.2	20.5	27.0	....	....	25.5	22.8
6	22.9	....	22.5	20.8	23.3	25.6	28.3	29.9	....	29.3	26.1	22.9
7	21.3	....	21.1	19.6	24.5	24.6	....	22.9	....	20.4	25.6	23.2
8	21.9	....	21.2	19.2	....	21.3	....	29.7	....	24.7	....	22.7
9	....	....	21.2	20.4	25.2	24.2	28.9	30.4	....	25.5	....	22.4
10	....	....	21.0	20.6	25.6	19.9	28.2	30.4	....	26.1	25.8	22.7
11	....	....	21.0	20.8	20.3	24.1	30.9	29.0	....	22.9	21.5	22.8
12	....	....	20.4	21.8	24.3	24.5	29.0	....	....	25.7	....	22.8
13	....	....	20.7	20.6	19.6	19.4	....	....	....	....	25.3	22.9
14	....	....	20.7	20.2	....	20.7	29.5	....	....	25.4	....	23.8
15	....	....	21.0	19.5	25.5	24.2	28.3	30.7	....	25.8	25.4	23.0
16	....	....	21.0	20.4	26.0	24.1	29.3	31.0	....	25.9	23.3	22.9
17	....	....	21.0	19.6	26.1	21.6	....	....	....	25.1	24.2	....
18	....	....	20.9	20.6	25.2	29.1	24.3	31.2	....	26.0	21.9	23.1
19	....	21.2	20.6	19.4	20.6	29.7	28.6	....	....	23.6	24.8	23.4
20	....	21.5	20.7	20.9	19.9	29.6	28.0	29.9	....	....	25.9	23.5
21	....	21.6	21.1	20.4	27.9	29.7	24.4	....	....	21.3	23.1	....
22	....	21.8	21.0	19.4	....	29.6	23.2	29.7	....	....	22.1	....
23	....	21.5	21.8	....	....	28.9	....	....	....	22.7	22.7	....
24	....	21.4	20.7	20.7	22.2	20.1	29.1	....	....	....	21.8	....
25	....	20.7	19.6	20.7	23.7	....	29.5	....	....	....	24.6	....
26	....	20.9	20.8	20.8	23.9	....	29.8	24.9	26.3	....	25.6	....
27	....	21.4	20.9	20.8	20.1	24.8	30.2	30.0	25.4	....	25.9	25.5
28	....	21.6	20.9	20.4	23.5	29.3	28.9	....	23.9	21.3	25.7	26.4
29	....	....	20.9	19.7	21.2	25.1	23.0	....	25.6	27.5	25.9	24.9
30	....	....	20.8	23.7	20.2	23.9	29.5	31.2	24.8	26.2	22.9	24.0
31	....	....	20.7	....	24.9	....	30.2	....	....	23.3	....	....

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 72.1 below msl, Aug. 19, 1951. Records available: 1936-51.

36. 22. 6. 8. 2--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.7	41.3	40.7	39.1	39.3	48.7	58.4	62.6	65.5	50.2	43.6	40.6
2	44.7	42.3	41.1	38.9	40.0	48.8	59.4	63.2	65.6	51.7	42.7	40.5
3	44.8	42.0	39.8	37.8	39.8	49.9	60.0	63.6	....	49.3	43.5	40.5
4	44.9	41.2	39.5	36.8	39.5	49.8	60.0	63.6	....	48.5	43.8	40.4
5	44.3	41.9	39.9	36.7	39.9	50.9	59.1	64.4	....	47.8	43.9	40.2
6	44.3	41.8	40.1	36.7	40.9	49.7	60.0	65.0	....	47.9	43.2	40.3
7	43.3	41.2	39.8	36.6	41.0	49.3	61.1	60.9	....	47.9	41.7	40.2
8	43.8	43.0	39.4	36.5	41.7	47.8	61.9	63.8	....	48.2	42.6	40.1
9	44.3	42.8	40.1	36.6	45.4	46.2	62.3	63.7	....	48.0	43.4	....
10	44.1	42.2	40.2	36.4	46.5	45.7	61.6	64.2	....	47.8	43.4	....
11	44.1	42.1	39.8	36.6	44.0	47.3	61.7	66.5	64.2	46.6	43.5	....
12	44.5	42.2	39.0	36.4	42.6	47.4	62.2	65.3	64.0	47.2	42.4	....
13	43.9	42.0	38.6	36.3	42.5	46.1	62.8	64.9	64.0	47.3	42.3	....
14	43.0	41.9	38.6	36.5	42.0	46.3	64.1	64.3	64.1	47.2	42.5	....
15	43.6	41.1	39.4	36.7	41.9	47.2	63.3	65.4	60.3	46.8	42.2	....
16	44.2	41.4	39.7	36.4	41.6	50.3	63.2	66.1	59.5	46.6	41.7	40.2
17	43.7	41.4	39.4	36.7	41.4	51.7	62.5	68.7	58.6	45.9	42.0	39.9
18	43.7	41.9	....	40.1	43.0	51.2	61.1	69.7	56.4	45.0	42.0	39.5
19	42.8	41.0	....	41.7	45.9	53.0	61.0	72.1	57.7	45.2	42.0	40.2
20	42.6	40.5	....	42.6	46.2	51.4	59.6	....	56.8	45.3	41.8	39.2
21	....	39.9	....	41.5	47.0	53.0	62.5	....	56.9	43.9	42.0	39.4
22	....	40.3	....	38.6	49.9	53.0	63.3	....	57.3	....	42.0	40.1
23	....	40.8	....	42.5	50.6	54.5	63.3	....	57.0	....	41.9	39.8
24	....	41.3	....	40.9	48.4	55.2	62.8	....	55.2	....	41.7	39.4
25	....	40.9	40.2	40.1	50.7	55.5	63.3	67.7	54.4	....	40.9	38.7
26	....	40.9	40.1	37.9	47.9	55.3	63.6	66.0	54.0	....	41.3	38.5
27	....	41.0	39.3	39.7	48.0	57.1	65.7	66.0	53.7	....	41.5	39.1
28	....	41.0	39.9	39.5	48.4	55.8	66.6	64.8	52.3	....	41.0	39.1
29	....	....	39.3	40.1	47.9	56.3	65.5	65.4	53.2	44.3	40.7	39.1
30	....	....	38.6	39.1	48.2	57.0	62.7	65.7	53.6	44.4	41.0	38.4
31	41.7	....	39.5	....	48.1	....	61.8	65.6	....	44.1	....	38.6

36. 22. 6. 9. 1. Mr. Schwartz. Formerly Normandie Hotel. 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 63.0 below msl, Aug. 31, 1950. Records available: 1928-51. This well is affected by tides and nearby pumping up to 7½ feet with seasonal fluctuations owing 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	36.0	33.4	....	32.2	33.7	41.2	52.6	56.2	....	47.8	40.4	37.3
2	36.1	34.4	....	32.3	....	41.7	52.2	58.0	....	47.9	39.4	37.5
3	36.4	34.2	....	31.1	....	42.9	52.9	59.6	....	46.2	40.3	37.3
4	36.5	33.0	....	31.3	....	42.8	52.7	57.4	....	45.3	40.6	37.2
5	35.9	33.5	32.4	31.2	....	43.5	52.1	58.1	60.9	44.5	40.6	37.0
6	35.8	33.4	32.8	30.8	35.6	42.2	52.6	59.2	....	44.7	39.9	37.1
7	34.9	32.8	32.6	31.0	35.9	41.7	53.0	55.8	60.6	44.7	38.6	37.0
8	35.4	34.8	32.3	30.8	36.6	40.3	54.8	57.7	....	45.0	....	36.9
9	35.7	34.4	33.0	31.2	37.8	39.3	55.3	58.0	....	44.7	....	36.4
10	35.6	33.8	33.0	30.6	38.7	38.7	54.4	58.6	58.9	44.0	....	36.6
11	35.4	33.5	32.4	31.1	38.5	40.2	54.6	59.7	57.5	43.4	39.6	36.2
12	36.0	33.6	31.7	30.3	38.3	40.0	55.3	60.5	....	44.1	39.1	36.1
13	35.4	33.5	31.4	30.7	37.9	39.0	55.5	....	....	43.9	....	36.6
14	34.3	33.5	31.5	30.9	38.9	39.0	56.5	61.4	57.8	43.9	....	36.4
15	35.1	32.8	32.3	31.3	39.4	40.5	....	....	56.3	43.6	38.9	36.7
16	35.9	33.1	32.6	30.7	39.7	42.3	....	62.1	55.9	43.4	....	37.0
17	35.1	33.0	32.4	31.0	39.4	43.9	....	61.2	55.0	42.7	38.7	36.7
18	34.3	32.4	32.4	33.8	38.9	43.8	....	....	....	41.7	....	36.4
19	34.4	32.5	31.9	35.3	38.3	45.5	....	....	53.9	41.9	38.7	36.7
20	34.2	32.1	32.3	36.2	38.5	44.7	....	....	53.1	42.0	38.5	36.0
21	34.8	31.5	32.6	35.4	39.2	46.1	....	....	53.2	42.1	38.6	36.1
22	34.8	31.6	32.8	33.0	41.8	46.0	57.1	....	....	42.0	38.7	37.0
23	34.2	30.4	32.3	36.6	42.4	47.0	....	....	53.6	42.0	38.7	36.5
24	33.8	....	32.7	35.0	....	47.7	....	....	....	41.9	38.5	36.3
25	34.1	....	33.3	34.0	43.0	47.6	....	61.4	....	41.9	37.6	35.5

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	34.0	....	33.1	32.8	39.4	....	60.0	60.6	....	41.7	38.2	35.3
27	34.6	....	32.3	34.3	40.5	49.3	60.4	61.7	....	41.5	38.4	35.9
28	34.8	....	33.1	34.3	41.0	49.0	60.1	61.5	....	40.8	37.7	36.0
29	34.9	....	32.5	34.8	40.8	48.6	....	59.4	....	41.1	37.5	36.0
30	34.7	....	31.8	33.1	40.7	49.8	....	59.9	48.3	41.2	37.6	35.4
31	33.7	....	32.7	....	40.8	....	....	60.4	....	40.9	....	35.5

Essex County

25. 15. 7. 5. 4. Commonwealth Water Co. Well 30 on Canoe Brook. Drilled unused artesian well in Wisconsin drift, diameter 10 inches, depth about 130 feet. Land-surface datum is 170 feet above msl. Highest water level 162.8 above msl, Aug. 25, 1931; lowest 109.0 above msl, Sept. 23, 1949. Records available: 1925-51.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	124.0	119.1	120.7	125.0	123.5	123.5	126.6	122.4	123.2	123.1	122.7	122.7
2	124.5	118.7	121.7	126.9	122.6	122.2	124.4	123.6	124.3	123.2	118.9	122.7
3	124.6	118.8	120.2	127.0	121.9	122.0	123.6	123.3	128.4	122.8	114.4	118.1
4	124.3	118.8	120.7	126.9	121.7	123.9	124.1	....	125.9	123.2	114.2	117.8
5	117.7	118.8	121.8	126.6	121.7	123.0	125.2	125.2	123.7	123.3	119.9	122.8
6	116.7	119.3	122.3	126.4	121.6	122.9	125.1	125.8	123.3	123.2	121.6	125.8
7	....	116.3	122.9	126.3	121.6	122.8	124.1	124.8	123.4	123.1	122.1	119.0
8	....	119.3	114.3	126.3	122.4	122.3	123.8	124.8	123.8	123.9	122.6	116.8
9	....	117.0	113.7	126.6	122.2	122.3	124.2	123.7	123.8	123.5	122.4	116.8
10	119.9	120.3	118.6	126.7	122.0	122.3	123.2	123.2	124.6	118.1	122.4	117.5
11	120.9	119.6	120.0	126.6	121.8	123.5	122.9	122.8	122.4	117.8	122.5	117.3
12	119.2	119.6	121.4	126.4	123.3	e123.1	123.3	122.8	121.8	116.9	120.9	....
13	....	119.5	120.7	122.3	123.8	e124.2	123.2	123.1	121.6	116.6	115.2	124.5
14	....	119.0	120.8	121.9	....	125.7	123.9	122.8	121.6	116.9	114.7	123.5
15	....	118.5	121.6	121.8	123.2	126.7	123.9	122.5	121.8	117.7	122.2	121.1
16	....	120.2	120.8	117.5	121.9	125.5	123.8	122.4	121.7	117.7	122.2	120.1
17	....	119.5	120.6	118.7	121.4	125.3	122.5	123.0	122.5	116.6	122.2	118.7
18	....	119.9	120.6	121.2	121.4	128.2	123.1	122.6	122.5	116.6	122.7	118.5
19	....	120.7	121.6	121.3	121.2	123.5	123.1	122.9	122.3	116.7	123.4	122.2
20	118.6	124.8	121.7	121.2	123.2	124.6	124.5	124.7	123.1	117.0	122.8	118.5
21	118.6	125.6	121.7	121.2	....	121.9	125.0	123.8	122.7	116.9	122.5	118.3
22	118.6	126.2	122.4	121.3	123.1	121.5	126.6	123.4	122.6	117.5	122.6	124.0
23	119.0	125.8	124.2	122.3	122.5	121.5	124.8	122.6	122.6	118.0	122.5	117.9
24	....	124.6	123.2	122.3	122.3	121.5	123.2	122.5	122.6	120.7	122.8	117.4
25	119.1	125.9	124.5	123.0	....	122.1	123.1	122.6	122.5	121.0	122.6	117.4
26	119.0	123.0	123.2	123.9	122.7	121.7	123.3	122.6	122.9	120.8	123.5	119.3
27	119.0	121.7	123.2	123.5	122.5	121.7	124.5	....	122.6	121.2	123.8	118.7
28	119.2	120.9	124.2	122.6	123.7	124.8	123.6	123.2	122.5	121.6	123.4	117.4
29	120.0	....	125.3	122.6	123.4	125.9	127.1	122.8	122.3	123.3	123.2	119.2
30	119.2	....	126.1	123.7	123.9	126.0	125.1	122.5	122.3	123.2	123.0	117.1
31	119.1	....	125.0	....	124.4	....	123.1	122.3	....	122.8	....	117.7

e Estimated.

26. 21. 1. 5. 6. (Well 10) Commonwealth Water Co. Short Hills. Drilled unused water-table well in Wisconsin terminal moraine, diameter 3 inches, depth 50 feet. Land-surface datum is 93 feet above msl. Highest water level 91.78 above msl, Jan. 12, 1934; lowest 64.14 above msl, Nov. 2, 1950. Records available: 1930-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+66.32	Apr. 5	+71.13	July 12	+70.21	Oct. 2	+66.09
Feb. 13	+67.29	May 2	+72.46	Aug. 8	+69.81	Nov. 13	+65.33
Mar. 7	+68.65	June 6	+74.83	Sept. 12	+67.48	Dec. 3	+65.72

25. 15. 7. 5. 9. East Orange Water Dept. Canoe Brook and Parsonage Hill Rd. Drilled unused artesian well in glacial drift, 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 139.55 above msl, Aug. 10, 1936. Records available: 1925-51.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	150.95	151.70	....	155.00	153.80	160.25	151.85	152.60	152.65	154.85	151.40
2	152.35	150.80	153.45	....	154.25	152.75	155.95	151.90	154.85	152.05	151.05	151.40
3	152.60	150.80	153.15	....	153.55	152.55	155.10	151.90	155.30	151.85	....	152.40

25. 15. 7. 5. 9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	152.45	150.90	154.85	158.80	153.40	154.60	155.85	152.35	154.45	151.85	.....	152.15
5	.....	150.95	154.30	157.60	153.25	154.10	156.85	158.05	152.75	151.85	.....	152.10
6	.....	151.35	154.20	157.45	153.20	154.10	156.20	154.85	152.25	151.55	151.60	153.15
7	.....	150.85	153.80	157.30	153.40	154.15	155.10	153.95	152.40	151.45	151.95	153.75
8	152.75	150.65	149.45	157.70	153.15	153.75	154.95	155.00	152.55	152.85	152.45	151.90
9	.....	151.00	148.90	158.00	152.80	153.80	154.55	152.45	154.90	152.55	152.20	152.25
10	.....	152.35	150.35	158.00	152.15	153.80	152.65	152.45	153.70	151.65	152.15	152.15
11	.....	151.90	151.10	159.00	152.05	154.60	152.35	152.95	152.50	151.55	152.40	152.00
12	.....	.....	152.25	158.60	154.45	153.80	153.35	152.95	151.75	150.60	152.50	153.70
13	.....	151.70	150.85	154.55	155.60	154.35	153.10	153.70	151.50	150.50	.....	153.65
14	.....	151.25	151.55	153.55	154.75	157.30	154.35	153.25	152.05	151.50	.....	153.60
15	.....	151.05	151.95	153.50	154.55	156.05	154.10	152.70	151.60	151.25	151.15	152.85
16	.....	153.00	151.55	152.90	153.40	154.55	154.80	152.65	151.60	151.05	151.35	152.75
17	.....	152.15	151.45	152.65	152.60	154.45	153.90	153.35	152.05	.....	151.35	152.70
18	.....	152.15	151.45	152.55	152.25	156.75	154.20	153.05	151.50	150.25	152.15	153.95
19	150.55	153.25	152.10	152.55	153.05	154.60	155.60	155.55	151.50	.....	153.25	152.70
20	150.55	152.95	152.00	152.50	158.45	154.05	154.85	154.20	149.60	.....	152.75	152.80
21	150.65	152.95	150.65	152.60	154.95	153.55	154.05	153.25	151.00	.....	151.45	152.82
22	150.65	153.25	152.40	152.65	153.75	153.20	154.95	152.65	151.65	151.60	151.15	153.90
23	150.90	153.40	153.40	152.90	151.90	152.95	152.30	152.15	151.75	151.50	152.25	151.90
24	151.00	154.55	152.25	152.75	155.15	152.65	152.30	152.10	151.90	151.50	152.90	151.10
25	150.95	155.55	152.55	153.20	154.70	152.95	151.35	152.10	152.20	151.30	152.90	151.70
26	150.95	153.65	150.40	154.74	154.00	151.80	152.05	152.15	152.30	151.30	153.50	151.40
27	150.95	152.50	150.85	153.15	153.95	152.05	151.45	154.05	152.30	151.70	153.05	150.75
28	150.95	151.80	152.80	152.85	150.25	156.80	151.15	153.25	151.95	151.70	151.95	151.85
29	151.80	.....	.....	153.25	150.00	157.25	158.65	153.05	151.95	153.00	151.85	151.85
30	151.15	.....	.....	155.05	150.70	158.10	154.25	152.65	151.95	152.45	151.95	154.05
31	150.95	.....	.....	.....	154.60	.....	152.65	152.40	.....	152.40	.....	.....

25. 15. 7. 6. 7. East Orange Water Dept. Canoe Brook and 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: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+178.35	May 2	+178.50	July 24	+176.55	Oct. 2	+175.49
Feb. 13	+178.35	June 6	+178.31	Aug. 8	+176.68	Nov. 9	+176.82
Mar. 7	+178.61	July 12	+177.22	Sept. 12	+176.10	Dec. 3	+177.69
Apr. 4	+178.70						

Gloucester County

31. 11. 2. 7. 2. (Well 3) The Texas Co. 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 39.0 below msl, Mar. 10, 1950, and Aug. 17, 1951. Records available: 1949-51. Recording gage installed Nov. 14, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 14	28.8	Nov. 26	28.7	Dec. 8	31.1	Dec. 20	36.2
15	28.4	27	27.8	9	31.6	21	35.9
16	27.5	28	27.5	10	31.5	22	36.2
17	28.7	29	28.1	11	31.1	23	36.3
18	28.7	30	28.3	12	31.9	24	36.3
19	29.6	Dec. 1	28.1	13	32.9	25	36.2
20	27.1	2	27.7	14	34.0	26	35.2
21	28.9	3	28.2	15	33.0	27	33.6
22	31.4	4	27.9	16	32.8	28	35.8
23	30.7	5	30.0	17	33.3	29	35.7
24	31.0	6	29.5	18	32.4	30	35.8
25	31.0	7	30.0	19	34.2	31	36.8

31. 11. 2. 7. 2--Continued.

Daily lowest water level from recorder graph, 1950												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.6	35.8	35.0	34.8	34.3	32.1	34.2	33.4	31.4	28.6	31.7	23.7
2	33.7	36.2	35.8	32.4	34.6	32.9	33.0	33.3	31.0	30.9	32.5	25.8
3	34.3	36.6	37.6	33.7	34.3	32.4	32.2	32.9	29.9	31.2	32.5	25.0
4	36.8	36.9	37.9	34.0	34.8	31.5	31.8	33.0	29.5	32.7	31.2	23.8
5	38.2	34.3	38.1	34.0	37.4	32.0	32.0	33.0	29.5	33.0	29.3	26.3
6	37.2	34.8	36.7	33.8	33.2	33.4	31.1	32.2	28.3	33.2	28.1	26.2
7	37.5	35.5	37.8	33.4	32.2	35.0	33.3	30.3	29.3	31.8	28.4	26.8
8	36.2	35.3	38.7	32.6	31.8	36.0	33.5	33.1	30.7	29.4	26.1	28.5
9	36.0	35.3	39.0	31.2	32.4	35.0	31.6	34.1	29.3	26.5	23.9	27.7
10	36.8	35.6	39.0	30.0	33.0	34.4	32.7	33.6	28.5	27.2	22.8	26.2
11	37.7	36.0	38.5	33.0	33.7	32.5	33.2	34.4	29.3	27.2	21.9	27.6
12	37.4	35.8	36.3	33.9	34.1	31.9	34.1	33.4	31.6	27.2	19.7	29.3
13	37.5	34.4	34.8	33.6	32.6	33.3	33.6	31.6	31.5	27.5	20.3	29.7
14	37.0	34.0	37.6	33.7	31.5	33.3	32.4	31.4	31.2	26.6	21.4	31.0
15	36.1	35.5	37.5	33.4	30.3	34.7	30.7	32.4	31.5	....	21.6	31.0
16	35.3	35.2	38.0	32.7	32.2	34.8	29.4	32.1	32.4	24.3	21.8	31.2
17	35.5	34.5	37.8	34.9	33.0	33.6	31.7	32.6	30.8	25.2	21.7	28.9
18	34.9	34.3	38.1	35.6	33.8	32.5	34.1	32.7	31.1	25.4	23.0	28.8
19	34.3	32.8	37.4	35.9	32.5	31.7	33.9	32.3	31.9	24.8	23.1	29.0
20	35.3	32.8	35.1	36.2	31.9	31.6	33.6	30.2	32.0	25.1	20.9	30.8
21	35.0	32.9	35.9	36.0	30.6	32.2	33.2	30.0	32.2	24.9	23.0	31.0
22	33.5	32.6	36.1	35.4	31.0	33.0	33.0	30.9	31.5	23.8	21.5	30.7
23	34.3	32.3	38.1	33.0	32.0	33.8	29.8	30.9	31.5	28.7	20.8	30.1
24	34.3	33.7	39.4	32.3	32.1	32.5	28.7	30.7	30.2	29.5	19.3	27.8
25	34.1	34.2	38.3	34.9	32.5	31.9	31.5	....	29.5	29.6	18.6	27.0
26	35.0	34.1	36.3	35.1	33.5	32.3	32.3	....	28.3	29.2	17.4	27.7
27	36.1	34.9	34.0	35.0	32.7	34.0	33.0	....	29.0	29.3	20.0	29.5
28	36.9	35.1	36.7	36.3	30.0	35.1	32.4	....	29.4	29.3	22.1	29.4
29	34.5	....	35.7	37.3	30.2	34.0	30.7	....	29.0	28.4	22.4	29.2
30	35.1	....	35.4	35.3	29.6	34.5	29.7	32.1	29.2	29.4	23.0	29.0
31	35.1	....	35.2	....	30.3	....	31.9	32.3	....	30.8	....	27.0

Daily lowest water level from recorder graph, 1951												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.2	29.4	32.1	29.2	32.6	36.9	32.2	37.3	37.3	33.7	32.5	....
2	26.7	30.3	32.6	31.3	33.2	36.7	33.2	38.0	35.5	34.8	32.9	....
3	27.4	29.5	32.5	30.7	33.1	34.4	34.7	36.9	32.4	35.2	32.0	....
4	28.7	....	29.7	31.9	32.2	34.8	33.4	36.2	34.0	35.3	29.7	....
5	28.8	28.5	31.1	32.1	31.1	36.1	34.9	34.0	35.3	....	30.4	....
6	27.7	29.4	32.6	32.3	29.5	38.0	36.0	34.9	35.3	....	30.5	....
7	26.8	28.9	33.3	31.7	30.4	38.3	35.2	35.5	35.4	33.9	27.8	....
8	27.1	....	33.7	29.2	29.6	38.0	33.5	35.5	35.0	30.6	27.8	....
9	30.7	....	34.2	29.1	30.0	37.2	33.1	36.6	33.5	31.0	28.3	....
10	31.2	....	32.9	29.4	30.2	35.0	34.5	36.8	32.0	30.2	27.4	....
11	29.3	....	31.6	29.9	29.6	33.2	35.0	36.7	34.1	28.8	25.0	....
12	29.3	31.2	29.7	29.8	28.8	34.2	35.1	35.5	34.3	29.4	24.0	....
13	29.1	31.6	30.3	30.2	29.4	35.1	35.6	36.0	34.9	29.1	26.2	....
14	27.5	31.6	31.4	29.5	33.0	36.1	35.3	35.9	34.8	27.4	27.3	....
15	26.6	32.6	34.1	27.5	36.6	36.0	33.6	37.0	34.1	27.5	28.2	....
16	27.6	32.1	34.2	26.2	37.9	34.5	33.5	37.6	32.3	28.8	27.7	....
17	28.0	32.1	31.4	28.1	37.5	32.1	34.6	39.0	33.0	29.4	27.2	30.9
18	28.4	30.4	30.3	27.7	36.7	32.9	36.0	38.7	34.7	29.1	26.2	33.7
19	28.8	30.1	29.7	29.4	34.5	34.1	35.1	35.1	36.2	28.5	25.2	34.9
20	28.5	32.0	31.5	31.0	32.0	35.4	35.6	35.3	37.0	27.7	26.4	34.9
21	27.2	32.7	32.1	30.9	32.8	36.6	34.8	35.7	37.0	26.1	27.3	34.0
22	27.5	33.6	32.6	28.5	34.3	36.3	33.5	35.9	36.5	26.0	27.3	34.1
23	28.6	32.6	32.4	31.5	34.3	....	35.9	36.1	33.5	26.9	25.6	....
24	28.7	33.2	30.5	31.9	34.2	....	36.1	35.5	31.9	28.3	25.6	30.9
25	28.8	32.8	....	32.6	34.8	34.1	35.5	35.3	35.0	30.3	....	30.0
26	28.6	31.2	29.5	34.1	34.4	35.9	35.6	33.1	36.5	32.0	....	29.1
27	28.2	32.3	30.4	33.5	32.9	35.4	35.3	32.3	36.1	31.5	....	30.3
28	27.5	32.3	30.9	32.2	31.6	36.2	35.0	33.6	37.6	30.2	....	....
29	27.4	....	31.4	30.2	34.1	35.3	34.1	34.4	36.2	31.0	....	....
30	29.0	....	31.5	31.0	34.0	33.9	34.0	35.4	33.3	32.1	....	....
31	29.0	....	30.8	....	33.9	....	36.6	35.8	....	32.8	....	31.1

Middlesex County

29. 1. 4. 6. 9. Clyde Bowne. 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: 1932-51. Water level affected by pumping at Perth Amboy Water Works.

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	23.85	24.26	25.08	25.63	25.80	25.67	25.47	24.82	24.16	23.47	23.09	23.92
2	23.85	.....	25.08	25.68	25.80	25.67	25.46	24.80	24.13	23.45	23.09	23.93
3	23.85	.....	25.08	25.82	25.80	25.67	25.45	24.77	24.10	23.43	23.08	23.93
4	23.88	24.35	25.08	25.86	25.79	25.67	25.43	24.75	24.08	23.42	23.08	23.93
5	23.88	24.35	25.09	25.86	25.79	25.67	25.42	24.72	24.06	23.40	23.08	23.94
6	23.88	24.35	25.10	25.86	25.79	25.67	25.41	24.69	24.04	23.38	23.10	23.95
7	23.93	24.48	25.15	25.86	25.79	25.67	25.39	24.67	e24.02	23.36	23.38	23.95
8	23.95	24.52	25.16	25.86	25.78	25.66	25.37	24.65	.....	23.35	23.54	23.95
9	23.95	.....	25.16	25.86	25.77	25.66	25.36	24.63	.....	23.33	23.56	23.95
10	23.95	.....	25.16	25.86	25.77	.....	25.34	24.61	.....	23.32	23.58	23.95
11	23.95	.....	25.16	25.86	25.76	25.65	25.32	24.58	.....	23.30	23.61	23.95
12	23.95	24.54	25.16	25.86	25.76	25.65	25.30	24.58	23.91	23.29	23.62	23.96
13	24.00	24.54	25.16	25.86	25.75	25.65	25.28	24.55	23.88	23.28	23.64	23.96
14	24.03	24.54	25.17	25.86	25.74	25.64	25.24	24.54	23.86	23.27	23.69	23.99
15	24.02	24.54	25.18	25.85	25.73	25.64	25.24	24.51	23.84	23.26	23.71	23.99
16	24.03	24.54	25.19	25.85	25.73	25.63	25.22	24.49	23.83	23.25	23.78	24.60
17	24.03	24.54	25.19	25.85	25.72	25.62	25.20	24.48	23.80	23.24	.....	.....
18	24.04	24.54	25.19	25.85	25.71	25.62	25.18	24.46	e23.78	23.23	23.84	.....
19	24.05	24.57	25.17	25.85	25.70	25.62	25.16	24.44	.....	23.22	23.85	.....
20	24.05	24.59	25.18	25.84	25.69	25.61	25.13	24.42	.....	23.22	23.85	.....
21	24.07	24.72	25.25	25.84	25.69	25.60	25.09	24.40	.....	23.21	23.84	24.60
22	24.08	24.87	25.27	25.84	25.69	25.60	25.08	24.38	23.70	23.20	23.84	24.60
23	24.08	24.90	25.29	25.84	25.68	25.59	25.06	24.36	23.68	23.19	23.84	24.60
24	24.10	24.95	25.31	25.83	25.68	25.56	25.03	24.34	23.65	23.18	23.84	24.62
25	24.14	24.97	25.31	25.83	25.68	25.56	25.00	24.32	23.62	23.18	23.83	24.63
26	24.17	25.06	25.31	25.83	25.68	25.54	24.97	24.30	23.60	23.17	23.90	24.72
27	24.17	25.08	.....	25.83	25.67	25.53	24.94	24.27	23.57	23.14	23.91	24.72
28	24.17	25.08	.....	.....	25.67	25.52	24.91	24.25	23.55	23.14	23.92	24.72
29	24.18	.....	.....	25.82	25.67	25.51	24.89	24.23	23.51	23.12	23.92	24.74
30	24.18	.....	.....	25.82	25.67	25.49	24.86	e24.21	23.49	23.11	23.92	24.77
31	24.18	.....	.....	.....	25.67	.....	24.84	24.19	.....	23.10	.....	24.77

e Estimated.

28. 5. 4. 8. 1. Duhernal 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 3.74 above msl, Dec. 31, 1949. Records available: 1938-51.

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	.....	5.07	5.79	.....	6.05	.....	5.37	4.77	4.39	3.94	4.06	4.95
2	5.16	5.05	5.84	.....	6.04	.....	5.35	4.77	4.41	3.94	4.16	4.95
3	5.16	5.08	5.93	6.15	6.04	.....	5.34	4.75	4.40	3.95	4.23	4.95
4	5.11	5.14	5.97	6.17	6.05	.....	5.32	4.73	.....	4.00	4.26	4.97
5	5.09	5.16	5.99	6.21	6.04	5.62	5.27	4.71	.....	4.01	4.27	4.97
6	5.11	5.21	6.00	6.22	6.01	5.62	5.23	4.69	.....	3.99	4.30	4.96
7	5.18	5.26	6.03	.....	5.98	5.60	5.20	4.69	.....	4.07	4.39	4.94
8	5.14	5.22	6.04	.....	5.92	5.60	5.16	4.68	.....	4.09	4.44	4.91
9	5.09	5.22	6.01	.....	5.88	5.61	5.13	4.66	.....	4.08	4.48	4.89
10	5.08	5.25	6.00	6.53	5.85	.....	5.09	4.63	.....	4.10	4.53	4.84
11	5.07	5.28	6.01	6.52	5.84	.....	5.07	4.62	.....	4.15	4.58	4.86
12	5.03	5.29	6.04	6.56	5.80	5.61	5.06	4.61	.....	4.13	4.63	.....
13	5.00	5.31	6.08	6.56	5.75	5.61	5.05	4.61	.....	4.14	4.70	.....
14	5.04	5.31	.....	6.53	5.72	5.61	5.03	4.61	.....	4.13	4.75	.....
15	5.02	5.33	.....	6.49	5.70	5.58	5.02	4.62	.....	4.12	4.79	.....
16	4.98	5.34	.....	6.46	5.68	5.57	5.00	4.63	.....	.....	4.83	.....
17	4.97	5.36	.....	6.41	5.67	5.57	5.01	4.64	.....	.....	4.86	.....
18	4.96	5.37	.....	6.38	5.71	5.58	5.04	4.64	4.24	.....	4.87	.....
19	4.96	5.39	.....	6.36	5.72	5.58	5.05	4.63	4.21	.....	4.87	.....
20	4.98	5.43	5.90	6.30	5.72	5.59	5.05	4.61	4.19	.....	4.86	.....

28. 5. 4. 8. 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	4.95	5.49	5.92	6.29	5.73	5.58	5.03	4.58	4.17	....	4.86	....
22	4.92	5.52	5.85	6.32	5.73	5.58	5.01	4.55	4.15	....	4.86	....
23	4.96	5.55	5.91	6.26	5.75	5.56	4.98	4.52	4.12	4.05	4.85	....
24	5.01	5.57	5.86	6.23	5.79	5.53	....	4.50	4.10	4.01	4.83	....
25	5.04	5.59	5.81	6.23	5.77	5.49	....	4.48	4.05	3.97	4.85	....
26	5.04	5.63	5.77	6.16	5.77	5.46	....	4.46	4.03	3.94	4.86	5.10
27	5.02	5.67	....	6.12	5.76	5.44	....	4.44	4.02	3.93	4.83	5.16
28	5.03	5.73	....	6.10	5.76	5.42	....	4.43	3.98	3.94	4.88	5.24
29	5.01	....	....	6.08	....	5.40	....	4.42	3.96	3.93	4.91	5.30
30	4.98	....	....	6.04	....	5.39	....	4.40	3.95	3.94	4.93	5.37
31	5.05	....	....	....	....	....	4.80	4.39	....	3.97	....	5.42

28. 5. 4. 8. 7. Duhernal Water System well 2. Old Bridge to Moerl's Corner. 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 8.09 above msl, Oct. 30, 1951. Records available: 1938-42, 1944, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	+10.39	Apr. 3	+12.50	July 3	+10.94	Oct. 2	+8.35
9	10.36	10	12.74	10	10.67	9	8.27
16	10.34	17	12.61	17	10.42	16	8.26
23	10.29	24	11.72	24	10.29	23	8.20
30	10.41	May 1	12.21	31	10.04	30	8.09
Feb. 6	10.69	8	12.06	Aug. 7	9.75	Nov. 6	8.51
13	10.88	15	11.95	14	9.62	13	9.24
20	10.99	22	11.68	21	9.52	20	9.49
27	11.50	29	11.79	28	9.28	27	9.64
Mar. 6	11.71	June 5	11.66	Sept. 4	8.99	Dec. 4	9.82
13	11.69	12	11.48	11	8.85	11	9.89
20	11.68	19	11.39	18	8.69	18	9.82
27	11.75	26	11.19	25	8.58	25	10.53

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 4.90 below msl, Oct. 9, 1951. Records available: 1938-51.

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	....	-3.20	+1.50	+3.85	+2.90	+0.85	+1.95	-2.45	-1.50	-4.10	-4.30	-3.10
2	+1.20	3.40	1.45	3.45	1.75	1.00	....	2.75	.70	4.25	3.95	2.80
3	-1.10	2.00	2.00	4.00	1.35	.80	+1.50	2.65	.20	4.45	3.45	3.20
4	+3.30	2.00	2.30	4.20	1.20	.85	+1.65	1.60	.25	4.60	3.35	3.45
5	-85	2.30	2.30	4.55	3.25	.20	-0.05	.90	1.20	4.75	3.35	3.55
6	1.10	2.70	2.60	4.70	3.80	+1.10	.50	-2.05	1.40	4.75	3.50	3.60
7	.45	2.35	2.35	5.15	1.70	-1.10	.70	....	1.55	4.80	3.45	3.45
8	.45	1.25	2.20	5.45	1.40	.20	.95	....	.75	4.85	3.65	3.55
9	.15	2.00	2.05	5.15	2.15	.35	1.00	....	2.00	4.90	-3.70	3.10
10	1.30	1.25	2.65	3.00	.65	.15	1.35	....	2.05	4.65	....	3.35
11	1.10	.20	.70	4.30	1.45	.40	1.30	....	2.05	4.55	....	3.45
12	.95	1.65	.20	2.85	2.80	.50	1.40	....	2.35	4.55	....	3.25
13	.80	2.30	.15	4.35	3.45	.15	.55	....	2.40	4.25	-3.60	3.15
14	.20	2.05	2.35	4.55	1.80	.50	1.20	-1.85	2.45	4.05	3.50	3.00
15	1.40	2.50	1.10	5.10	.85	.25	1.50	2.20	2.65	4.20	3.35	2.85
16	1.80	2.25	1.25	5.25	+35	.55	1.60	-2.25	2.65	4.45	-3.55	-2.50
17	1.85	1.25	2.00	4.90	.00	.30	1.60	....	2.80	4.35	....	....
18	2.45	.75	2.60	5.15	-.25	.40	1.75	....	2.90	4.35	....	....
19	2.65	1.70	1.10	3.00	+25	.45	1.80	....	3.10	3.70	....	-3.05
20	1.60	2.20	1.60	2.60	+40	.75	1.10	....	3.45	3.90	-3.40	2.65
21	.95	2.35	1.90	4.10	-.10	1.00	1.25	-2.80	3.65	3.30	3.50	2.80
22	2.10	1.65	.40	4.80	.25	1.15	1.90	2.75	3.05	3.55	3.05	2.35
23	2.75	1.80	.25	4.85	.40	-1.25	2.05	2.30	3.40	3.90	3.35	1.70
24	3.10	.75	1.95	2.80	.45	+20	2.10	2.40	3.50	4.00	3.35	1.45
25	3.35	-.05	2.30	4.55	-.25	-.70	2.35	2.60	3.80	4.05	2.80	.85

28. 4. 9. 3. 5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	-3.45	+0.50	+2.35	+3.85	+2.10	-1.00	-2.45	-2.75	-4.00	-4.10	-3.05	-1.20
27	2.85	1.00	2.20	3.55	3.10	1.00	2.60	e2.75	4.00	3.90	3.15	1.30
28	1.50	1.30	.70	3.95	1.10	.80	2.45	2.60	4.15	3.10	...	1.35
29	2.80		.35	4.70	1.30	-.50	2.40	2.85	4.10	3.65	3.50	1.05
30	3.10		1.60	3.65	3.45	+1.25	2.65	2.25	4.05	4.05	3.25	.55
31	2.55		3.00		+1.35		2.30	2.50		4.15		+0.05

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 0.74 above msl, Dec. 14, 1949 and Oct. 7, 1951. Records available: 1939-51.

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	4.11	4.08	5.64	7.42	7.34	7.31	5.54	3.59	2.70	1.07	1.08	4.40
2	4.15	4.09	5.62	7.62	7.36	7.28	5.49	3.60	2.64	.99	1.11	4.51
3	4.15	4.23	5.74	7.85	7.28	7.25	5.44	3.55	2.60	1.00	1.28	4.65
4	4.02	4.25	5.80	8.09	7.23	7.20	5.45	3.44	....	.93	1.45	4.74
5	3.98	4.24	5.85	8.11	7.16	7.11	5.33	3.37	....	.86	1.57	4.67
6	4.03	4.32	5.97	8.17	7.21	7.09	5.20	3.33	....	.79	1.73	4.57
7	4.10	4.36	6.01	8.18	7.16	7.00	5.14	3.33	....	.74	1.90	4.73
8	4.00	4.45	6.04	8.28	7.08	6.97	5.09	....	....	.77	2.16	4.90
9	3.98	4.49	6.06	8.26	7.02	6.97	5.02	....	....	.81	2.30	4.85
10	3.98	4.54	6.02	8.20	6.96	6.90	4.98	....	....	.86	2.53	4.70
11	3.91	4.56	6.04	8.23	7.01	6.83	4.94	....	2.45	.88	2.63	4.70
12	3.84	4.56	5.98	8.11	6.97	6.72	4.90	....	2.42	.90	2.77	4.58
13	3.78	4.56	6.10	8.13	6.96	6.80	4.83	....	2.37	.95	2.91	4.42
14	3.92	4.54	6.14	8.20	7.02	6.68	4.78	3.27	2.29	1.02	3.08	4.71
15	3.89	4.57	6.17	7.91	7.04	6.65	4.71	3.27	2.21	1.07	3.25	4.62
16	3.83	4.61	6.13	7.85	7.03	6.59	4.65	3.28	2.17	1.08	3.32	4.64
17	3.88	4.67	6.12	7.78	7.12	6.60	4.57	3.23	2.10	1.08	3.63	4.69
18	3.86	4.71	6.11	7.84	7.14	6.52	4.55	3.18	2.03	1.09	3.86	4.77
19	3.82	4.74	6.31	7.58	7.10	6.46	4.52	3.23	1.98	1.08	3.78	5.00
20	3.89	4.78	6.32	7.50	7.03	6.41	4.44	3.19	1.91	1.07	3.86	5.34
21	3.76	4.92	6.48	7.48	7.01	6.25	4.40	3.16	1.84	1.09	3.94	5.60
22	3.74	5.13	6.33	7.41	7.05	6.16	4.31	3.12	1.76	1.11	3.95	5.96
23	3.80	5.32	6.50	7.37	7.01	6.07	4.25	3.06	1.68	1.07	3.96	6.36
24	3.83	5.42	6.34	7.40	7.07	6.02	4.22	3.03	1.61	1.04	4.04	6.58
25	3.91	5.46	6.39	7.44	7.10	5.95	4.11	3.00	1.53	1.04	4.18	6.92
26	3.88	5.55	6.38	7.24	7.16	5.81	4.00	3.00	1.45	1.06	4.20	6.89
27	3.86	5.52	6.37	7.22	7.28	5.77	3.91	3.00	1.36	1.06	4.15	6.92
28	3.89	5.55	6.37	7.32	7.35	5.65	3.88	2.90	1.27	1.09	4.18	7.02
29	3.84		6.36	7.35	7.32	5.60	3.82	2.86	1.20	1.12	4.19	7.05
30	3.82		6.59	7.22	7.34	5.62	3.76	2.83	1.16	1.11	4.40	7.05
31	4.13		7.01		7.30		3.68	2.79		1.11		7.36

28. 4. 9. 5. 1. Duhernal Water System well 9. In 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, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	+10.81	Apr. 3	+12.33	July 3	+10.33	Oct. 2	+9.74
9	11.26	10	12.29	10	10.00	9	10.63
16	11.18	17	12.10	17	9.97	16	10.52
23	10.78	24	11.77	24	9.96	23	10.31
30	11.07	May 1	11.55	31	9.93	30	10.24
Feb. 6	10.90	8	11.57	Aug. 7	9.71	Nov. 6	11.38
13	10.93	15	11.42	14	10.31	13	11.50
20	10.97	22	11.42	21	10.23	20	11.73
27	11.60	29	11.29	28	10.16	27	11.79
Mar. 6	11.79	June 5	11.05	Sept. 4	10.00	Dec. 4	11.69
13	11.95	12	10.88	11	10.02	11	11.55
20	11.99	19	11.35	18	9.91	18	12.29
27	11.29	26	10.89	25	9.85	25	12.69

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	58.15	58.69	59.36	60.06	59.81	59.67	59.20	58.58	57.96	57.45	58.02	58.56
27	58.14	58.74	59.38	60.05	59.81	59.67	59.18	58.57	57.94	57.44	58.03	58.59
28	58.14	58.78	59.40	60.07	59.81	59.66	59.22	58.55	57.91	57.42	58.04	58.62
29	58.14		59.42	60.08	59.80	59.65	59.17	58.53	57.89	57.40	58.06	58.66
30	58.13		59.48	60.04	59.79	59.65	59.14	58.51	57.87	57.39	58.07	58.69
31	58.16		59.49		59.78		59.12	58.49		57.37		58.71

29. 11. 1. 2. 3. Joseph Morrell. Dug observation water-table well in Englishtown sand, diameter 17 inches, depth 9 feet, cased with pre-cast concrete rings. Land-surface datum is 76.00 feet above msl. Highest water level 75.08 above msl, Mar. 28, 1932; lowest 68.05 above msl, Oct. 6, 1932. Records available: 1923-51.

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	e73.95	e74.00	73.87	74.11	73.68	73.28	73.43	71.75	71.43	70.53	74.04	e73.89
2	73.92	74.19	73.81	74.18	73.59	73.22	73.14	71.64	71.49	70.48	74.63	73.81
3	e73.93	74.08	73.89	74.31	73.52	73.10	72.91	71.62	71.56	70.45	74.41	73.81
4	e73.94	74.00	74.20	74.13	73.47	73.12	72.87	71.53	71.46	70.42	74.22	73.81
5	e73.95	73.92	74.07	74.01	73.42	73.25	72.89	71.46	71.36	70.39	74.11	74.16
6	e73.96	73.87	73.99	73.93	73.38	73.12	72.67	71.39	71.34	70.36	74.06	74.06
7	e73.98	74.45	73.93	73.86	73.33	72.94	72.47	71.41	71.29	70.40	74.38	74.00
8	e74.05	74.15	73.85	73.79	73.28	72.98	72.29	71.51	71.22	71.68	74.18	73.95
9	e74.00	74.01	73.77	73.73	73.23	72.92	72.13	71.48	e71.16	71.98	74.08	73.91
10	e73.90	73.91	73.72	73.86	73.19	73.19	71.99	71.41	e71.10	72.05	74.04	73.84
11	e73.85	73.85	73.68	73.78	73.96	73.15	71.86	71.45	e71.10	73.20	73.98	73.83
12	73.76	73.82	73.66	73.84	73.83	72.97	71.83	e72.10	e71.06	73.22	73.94	73.76
13	e73.74	73.85	73.66	73.82	73.63	73.09	72.18	e72.00	e71.06	73.05	73.92	73.69
14	e73.72	73.84	74.09	73.72	73.49	73.36	72.04	e72.15	e71.10	72.97	74.20	73.86
15	e73.76	73.80	73.99	73.65	73.36	73.59	71.87	e72.00	e71.20	72.89	74.10	74.25
16	e73.78	73.77	73.90	73.82	73.23	73.41	72.03	e71.85	e71.15	72.83	74.26	74.09
17	e73.80	74.27	73.82	73.74	73.15	73.20	72.37	e71.75	e71.10	72.79	74.12	74.01
18	e73.82	74.13	73.74	73.67	73.11	73.06	72.41	e71.50	e71.05	72.76	74.04	74.45
19	e73.84	74.08	73.82	73.64	73.16	72.88	72.95	e71.45	e71.00	72.74	73.96	74.21
20	e73.86	74.05	74.24	73.58	73.23	72.79	73.01	e71.40	e71.10	72.71	73.89	74.70
21	e73.90	74.62	74.12	73.54	73.21	72.72	72.79	e71.35	e71.00	72.68	73.84	74.39
22	e73.94	74.29	74.02	73.53	73.10	72.65	e72.70	e71.88	e70.92	72.67	73.82	74.20
23	e73.98	74.15	73.96	73.99	73.71	72.82	e72.65	e71.80	e70.87	72.67	73.80	74.11
24	e74.00	74.11	73.96	73.87	74.20	72.64	e72.85	e71.65	e70.80	72.76	73.80	74.05
25	e74.05	73.98	73.86	73.78	73.97	72.47	e72.50	e71.55	e71.00	73.32	73.78	74.43
26	e74.10	73.93	73.78	73.68	73.78	72.36	e72.20	e71.90	e70.90	73.28	e74.11	74.18
27	e74.05	73.87	73.73	73.61	74.04	72.97	e71.83	e71.80	e70.80	73.22	e74.10	74.07
28	e74.00	73.78	73.68	73.57	73.84	73.09	e72.00	e71.75	e70.70	73.21	e74.05	74.00
29	e73.90		73.82	73.90	73.87	73.32	e72.50	71.68	e70.60	73.13	e73.99	73.97
30	e73.82		74.50	73.79	73.68	73.36	e72.30	71.57	e70.49	73.12	e73.94	73.96
31	e73.75		74.23		73.46		e71.90	71.47		73.09		73.93

e Estimated.

28. 5. 4. 3. 9. Perth Amboy Water Dept. At 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 and Mar. 26, 1944; lowest 54.9 below msl, Sept. 26-27, 1947. Records available: 1930-51. This well is 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	....	....	....	-18.5	-15.0	-14.7	-33.6	....	-34.7	-34.0	-35.7	+2.9
2	-17.3	....	-15.7	24.8	15.0	14.8	33.6	....	34.7	34.6	35.8	2.3
3	17.3	....	16.5	23.4	15.2	14.8	33.3	....	34.5	35.2	35.6	2.0
4	17.3	....	17.1	22.7	15.2	24.2	33.2	....	34.6	35.3	35.0	2.3
5	17.4	....	17.8	22.2	15.2	29.4	33.2	-30.4	35.3	35.4	32.4	2.9
6	17.4	....	18.2	16.3	14.6	30.2	33.2	19.4	35.7	35.6	34.2	3.6
7	17.4	....	18.5	16.3	14.7	32.0	33.2	19.9	36.0	35.6	34.2	4.2
8	33.3	....	18.8	15.3	14.7	32.8	33.1	19.8	36.2	35.1	20.5	4.5
9	18.7	....	19.3	15.9	30.6	32.9	32.7	19.5	36.1	35.2	9.1	4.5
10	18.4	....	19.6	15.9	32.0	32.8	33.1	19.4	35.8	35.2	5.6	4.3
11	18.1	....	22.8	16.0	32.4	32.7	33.4	19.2	36.1	35.2	2.8	4.3
12	18.0	-17.4	22.6	16.0	33.0	33.0	34.1	18.9	36.5	35.4	2.1	4.6
13	17.9	17.4	22.1	15.7	33.3	33.2	34.5	18.4	36.8	35.4	1.3	5.6
14	17.9	17.5	22.1	15.8	33.7	33.5	33.7	14.0	37.1	35.3	1.0	6.1
15	28.9	17.5	22.3	14.5	34.0	33.5	33.6	14.8	37.1	35.2	-6	5.7

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 and Oct. 7, 1951. Records available: 1939-51.

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	+6.5	+5.8	+6.2	+7.4	...	+2.2	+1.8	-1.0	+0.1	-1.4	-1.5	-0.6
2	6.2	5.8	6.0	7.3	+6.6	2.3	4.9	1.1	.3	1.6	1.3	.6
3	6.1	5.9	6.2	7.4	3.7	2.3	5.4	1.2	.4	1.6	1.2	.7
4	6.0	6.0	6.2	7.4	3.3	2.2	1.9	1.1	.3	1.7	1.0	.8
5	5.9	5.9	6.3	7.4	3.2	2.1	...	.9	.3	1.8	1.0	...
6	5.8	5.9	6.4	7.3	3.1	2.0	...	.9	.5	1.9	1.1	...
7	5.8	6.0	6.8	7.5	...	1.9	...	1.1	.2	1.9	1.0	...
8	5.7	6.1	6.5	7.5	2.7	1.9	...	1.0	.3	1.8	1.7	...
9	5.6	6.1	6.5	7.4	2.5	1.9	...	1.1	.2	1.8	1.6	...
10	5.5	6.2	6.5	7.2	2.4	1.9	+2	-1.4	.2	1.9	1.6	...
11	5.5	6.3	6.3	7.2	2.3	4.8	0	+3.0	.2	1.9	1.6	...
12	5.4	6.2	6.3	7.2	2.4	5.1	-2	-.6	+.1	1.7	1.6	.3
13	5.4	6.2	6.3	7.3	2.4	5.3	-.2	-.8	-.2	1.5	1.3	.3
14	5.5	6.2	6.6	7.3	2.2	5.3	.2	1.0	-.6	1.5	1.1	.2
15	5.5	6.2	6.6	7.3	2.0	5.6	.4	1.2	.8	1.7	1.0	.2
16	5.4	6.3	6.6	7.4	1.8	5.7	.4	1.2	.8	1.6	.9	.1
17	5.4	6.3	6.8	7.2	1.7	5.7	.5	1.3	1.0	1.6	.8	.0
18	5.3	6.5	6.8	7.3	1.9	5.8	.6	1.3	1.1	1.6	.8	-.1
19	5.2	6.5	6.9	7.2	2.1	5.8	.4	1.3	1.2	1.6	.8	.0
20	5.3	6.4	7.0	7.1	2.1	5.8	.6	-1.4	1.3	1.5	...	+.1
21	5.3	6.5	7.0	7.2	2.0	5.8	.5	+1.8	1.4	1.4	1.1	.0
22	5.2	6.7	7.0	7.2	2.0	5.9	.4	-1.0	1.1	1.4	1.1	.1
23	5.1	6.7	7.0	7.2	2.0	5.9	.5	1.2	.9	1.5	1.2	.2
24	5.1	6.7	7.1	7.0	2.2	6.0	.5	1.3	1.1	1.5	.5	.2
25	5.1	6.8	7.2	...	2.3	5.5	.7	1.2	1.4	1.5	.3	5.0
26	5.4	6.9	7.1	...	2.4	2.4	.8	1.3	-1.6	1.4	.2	.8
27	5.4	6.4	7.0	...	2.6	2.1	.8	.7	+2.1	1.4	.3	.6
28	5.7	6.2	7.0	...	2.4	1.7	.4	.2	-1.0	1.2	.4	.5
29	5.6	...	7.0	...	2.4	1.7	.2	0	1.2	1.6	.5	.5
30	5.7	...	7.1	...	2.5	1.8	.6	.1	1.3	1.6	.5	.5
31	5.8	...	7.4	...	2.4	...	.9	.0	...	1.6	...	...

28. 4. 4. 2. 1. Robert D. Fischer. Dug observation water-table well in Farrington sand member of Raritan formation, diameter 4 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: 1936-51.

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	58.10	58.18	58.82	59.50	60.04	59.77	59.63	59.10	58.46	57.86	57.44	58.08
2	58.11	58.16	58.85	59.52	60.08	59.78	59.61	59.07	...	57.84	57.38	58.09
3	58.12	58.18	58.88	59.58	60.07	59.77	59.60	59.06	...	57.82	57.48	58.10
4	58.12	58.18	58.93	59.61	60.06	59.78	59.60	59.03	58.41	57.80	57.43	58.12
5	58.11	58.19	58.98	59.64	60.04	59.79	59.58	59.00	58.40	57.78	57.43	58.13
6	58.13	58.20	59.00	59.68	60.03	59.78	59.56	58.98	58.38	57.76	57.48	58.14
7	58.14	58.25	59.04	59.73	60.01	59.77	59.54	58.98	58.36	57.77	57.58	58.14
8	58.13	58.24	59.06	59.77	59.99	59.77	59.52	58.95	58.33	57.75	57.59	58.15
9	58.11	58.23	59.07	59.81	59.98	59.77	59.51	58.92	58.31	57.73	57.60	58.16
10	58.12	58.25	59.10	59.84	59.95	59.78	59.49	58.90	58.29	57.70	57.63	58.16
11	58.13	58.27	59.13	59.86	59.99	59.76	59.47	58.88	58.27	57.72	57.66	58.17
12	58.11	58.29	59.16	59.91	59.95	59.74	59.46	58.86	58.25	57.68	57.70	58.18
13	58.10	58.31	59.19	59.93	59.90	59.76	59.44	58.86	58.23	57.65	57.74	58.16
14	58.13	58.32	59.22	59.95	59.88	59.78	59.42	58.84	58.21	57.63	57.77	58.18
15	58.19	58.33	59.23	59.97	59.89	59.77	59.41	58.82	58.20	57.62	57.80	58.18
16	58.14	58.35	59.24	59.99	59.89	59.75	59.39	58.80	58.17	57.60	57.83	58.16
17	58.14	58.39	59.25	60.00	59.86	59.74	59.37	58.77	58.15	57.58	57.85	58.16
18	58.13	58.42	59.25	60.02	59.84	59.73	59.36	58.75	58.13	57.56	57.86	58.22
19	58.12	58.43	59.28	60.04	59.84	59.73	59.36	58.72	58.10	57.55	57.88	58.20
20	58.13	58.45	59.31	60.03	59.84	59.73	59.32	58.71	58.08	57.53	57.89	58.25
21	58.11	58.50	59.32	60.04	59.84	59.72	59.30	58.70	58.06	57.51	57.91	58.37
22	58.09	58.53	59.31	60.06	59.84	59.71	59.28	58.67	58.04	57.49	57.93	58.35
23	58.12	58.54	59.33	60.06	59.84	59.71	59.26	58.64	58.02	57.48	57.95	58.41
24	58.14	58.58	59.34	60.06	59.85	59.69	59.24	58.62	58.00	57.47	57.96	58.46
25	58.15	58.63	59.35	60.08	59.82	59.68	59.22	58.60	57.98	57.46	57.98	58.52

28.5.4.3.9--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	-27.9	-17.5	-22.3	-14.7	-34.2	-19.2	-33.7	-15.6	-39.1	-35.2	+0.2	+5.9
17	26.0	17.4	21.8	14.9	34.5	19.7	33.5	16.2	38.9	35.2	1.7	6.4
18	28.8	17.2	21.3	15.0	34.5	19.2	33.6	16.3	37.6	34.9	2.8	6.5
19	29.4	17.2	20.8	15.0	19.1	17.6	33.6	16.2	37.5	34.5	3.6	7.1
20	29.7	17.2	20.3	15.1	17.5	17.4	-33.7	15.8	37.5	34.4	3.9	7.3
21	29.8	17.3	20.2	15.2	-16.5	17.0	....	15.6	37.1	34.4	4.3	....
22	20.0	6.6	20.0	15.2	....	16.7	-31.2	16.4	36.8	34.5	3.9	....
23	19.2	3.9	19.9	14.8	....	16.4	31.8	16.8	36.4	35.0	3.9	....
24	18.7	2.7	19.7	14.8	....	16.2	32.2	17.1	36.0	35.1	+3.9	....
25	18.3	1.7	19.5	14.8	....	31.7	32.6	17.0	35.8	35.1	-6.6	....
26	18.1	1.0	19.0	14.9	....	32.8	32.7	-16.6	35.5	35.1	10.2	....
27	18.1	.4	19.2	14.9	-15.0	32.8	....	....	35.5	34.9	11.1	....
28	17.9	10.7	19.2	14.9	15.1	33.2	....	....	35.4	34.5	-1.0	....
29	17.8	....	19.1	14.9	15.1	33.5	....	-32.6	35.6	33.8	+1.9	....
30	17.8	....	18.8	15.0	15.0	33.5	....	33.5	35.7	34.9	2.5	....
31	32.1	....	18.6	....	14.2	....	....	34.1	....	35.4	....	....

29.1.4.1.1. Perth Amboy Water Dept. 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: 1929-51. This well is affected by pumping in nearby wells and by regional pumping from the Farrington sand member.

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	-16.9	-19.7	-12.9	-17.8	-14.3	-14.0	-22.1	-23.3	-23.6	-24.7	-24.8	....
2	16.6	18.1	14.4	16.2	14.4	14.2	22.2	23.6	23.6	24.0	25.0	-0.1
3	16.6	17.7	15.2	10.8	14.5	14.2	22.3	23.7	23.6	24.5	-24.8	+3
4	16.6	17.4	15.8	10.1	14.5	13.8	22.3	23.9	23.8	24.7	....	1.7
5	16.7	17.2	16.5	15.1	14.5	17.4	22.3	12.0	24.3	24.7	....	2.4
6	16.7	16.4	16.9	15.4	13.9	18.7	22.3	11.2	-24.6	24.9	....	3.1
7	16.7	16.3	17.2	15.4	14.0	19.7	22.3	10.1	....	24.9	....	3.5
8	20.1	16.0	17.5	14.5	14.0	20.7	22.3	9.3	....	24.5	....	4.2
9	17.8	16.0	18.0	15.1	17.8	21.0	21.6	8.9	....	24.5	....	4.2
10	17.6	16.0	18.3	15.1	19.6	....	22.0	8.6	....	24.5	....	4.1
11	17.3	15.9	22.8	15.1	20.0	21.0	22.3	8.5	....	24.4	....	4.1
12	17.0	15.8	22.1	15.1	20.6	21.4	22.3	8.1	-25.5	24.5	....	4.4
13	17.0	15.8	21.3	14.9	21.0	21.5	22.7	7.8	25.8	24.5	....	5.1
14	17.0	16.0	21.3	14.9	21.4	21.7	22.9	13.3	26.1	24.5	....	5.6
15	16.9	16.0	21.1	14.0	21.7	21.7	22.9	14.2	26.1	24.3	....	4.7
16	17.0	16.0	21.1	14.1	21.9	18.4	23.0	14.8	29.8	24.4	....	5.1
17	18.5	15.8	20.8	14.2	22.2	20.4	23.0	15.5	28.6	24.4	....	5.9
18	20.0	15.7	20.3	14.3	22.3	20.0	22.9	15.6	27.7	24.2	....	6.0
19	20.7	15.8	19.8	14.3	-18.5	17.7	22.9	15.7	-27.4	23.8	+3.2	6.5
20	20.9	15.8	19.4	14.4	....	17.5	22.9	15.3	....	23.6	3.6	6.7
21	21.1	15.8	19.3	14.7	-16.0	16.8	18.4	15.1	....	23.6	4.0	7.3
22	18.9	6.6	19.2	14.7	15.7	16.4	....	15.8	-26.1	23.7	4.0	7.8
23	18.1	3.6	19.2	14.4	15.7	16.1	21.2	16.3	26.0	24.2	4.0	7.8
24	17.6	2.5	19.0	14.4	15.2	15.8	21.6	16.4	25.5	24.2	+4.0	+7.9
25	17.2	1.4	18.7	14.3	15.1	19.6	22.0	16.4	25.3	24.3	....	-2.2
26	17.0	.7	18.4	14.4	15.1	20.8	22.3	16.2	24.9	24.3	....	4.9
27	17.0	e.6	18.4	14.4	14.8	21.0	23.0	19.3	24.9	24.2	....	-5.6
28	16.8	8.9	18.4	....	14.4	21.5	23.5	20.5	24.7	23.8	....	+3.8
29	16.7	....	18.4	14.2	14.4	21.8	23.0	21.5	24.9	22.9	....	5.7
30	16.7	....	18.2	14.3	14.3	21.9	23.0	....	25.0	24.0	....	6.7
31	19.7	....	18.0	....	14.1	....	23.0	23.0	....	24.6	....	7.4

29.1.4.4.2. (Runyon 50) Perth Amboy Water Dept. 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: 1923-51.

Daily lowest water level, above msl, from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.0	7.4	9.2	9.6	9.3	9.9	....	4.3	2.6	2.2	2.7	7.6
2	4.8	7.5	9.2	9.6	9.3	9.8	....	3.9	2.7	2.1	2.8	7.4
3	4.7	8.1	9.2	9.8	9.1	9.7	....	4.2	2.7	2.1	2.9	7.3
4	4.7	8.3	9.3	10.2	8.9	9.3	....	3.8	2.7	2.0	3.5	7.2
5	4.6	8.4	9.4	10.3	8.8	9.3	....	3.7	2.7	2.0	5.6	7.1

29. 1. 4. 4. 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	4.6	8.4	9.4	10.3	8.5	9.2	...	3.5	2.7	2.0	6.9	7.1
7	4.6	8.4	9.4	10.3	8.3	8.9	...	3.4	2.7	1.9	7.4	7.2
8	4.5	8.9	9.4	10.3	8.1	8.9	...	3.2	2.7	2.0	8.0	7.2
9	4.4	9.1	9.4	10.3	8.0	8.7	...	3.1	2.7	2.1	8.2	7.1
10	4.3	9.1	9.6	10.2	7.9	8.6	...	2.9	2.7	2.2	8.3	7.2
11	4.2	9.2	9.6	10.2	7.8	8.4	...	2.8	2.7	2.2	8.3	7.0
12	4.2	9.2	9.6	10.2	7.9	8.3	...	2.7	2.7	2.3	8.2	6.7
13	4.2	9.2	9.6	10.2	8.2	8.2	...	2.6	2.7	2.4	8.1	6.4
14	4.3	9.2	9.6	10.2	8.2	8.2	...	2.6	2.7	2.4	8.0	6.3
15	4.4	9.2	9.8	10.3	8.1	8.1	...	2.6	2.7	2.5	8.0	6.3
16	4.4	8.9	9.8	10.2	8.0	8.1	...	2.5	2.6	2.6	8.0	6.5
17	4.6	8.8	9.8	10.1	7.9	8.0	...	2.5	2.6	2.6	8.2	...
18	4.5	8.9	9.8	10.1	7.8	7.9	...	2.5	2.5	2.6	8.5	...
19	4.5	9.0	9.7	10.1	7.9	7.7	...	2.5	2.5	2.6	8.6	...
20	4.5	9.0	9.8	10.0	7.8	7.5	...	2.4	2.5	2.7	8.4	...
21	4.7	9.0	10.0	9.9	7.8	7.3	...	2.4	2.4	2.7	8.3	...
22	4.8	9.2	10.0	9.9	7.7	7.1	...	2.3	2.4	2.7	8.1	...
23	4.8	9.2	10.0	9.9	7.5	7.0	...	2.3	2.4	2.7	7.9	...
24	4.9	9.2	10.0	9.9	7.5	6.8	...	2.2	2.4	2.6	7.6	...
25	5.1	9.1	10.0	10.0	8.9	6.7	...	2.2	2.3	2.6	7.4	...
26	5.9	9.0	10.0	9.7	9.3	6.6	...	2.2	2.3	2.7	7.9	...
27	6.4	8.9	9.7	9.6	9.5	...	...	2.2	2.2	2.7	8.2	...
28	6.7	8.9	9.6	9.5	9.6	...	...	2.5	2.2	2.7	8.1	...
29	6.9	...	9.6	9.5	9.7	...	...	2.5	2.2	2.8	8.0	...
30	7.1	...	9.6	9.4	9.7	...	...	2.5	1.9	2.8	7.8	...
31	7.3	...	9.8	...	9.9	...	...	2.6	...	2.7	...	...

28. 5. 4. 7. 3. (Runyon 123) Perth Amboy Water Dept. 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. Daily tidal fluctuation about 3 feet. Highest water level 6.14 (flooded) above msl, Sept. 22, 1938; lowest 0.53 above msl, Jan. 23, 1940. Records available: 1938-47, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	+1.69	May 1	+2.12	Aug. 1	+2.52	Oct. 1	+2.65
Feb. 28	+2.16	June 1	+2.22	Sept. 4	+3.41	Dec. 3	+3.26
Apr. 2	+2.48	July 2	+2.56				

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 feet above msl. Highest water level 11.55 above msl, Mar. 27, 1944; lowest 32.9 below msl, Oct. 25, 1935. Records available: 1931-51. 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	-6.30	-10.30	-3.60	-7.68	-4.06	-4.29	-7.96	-9.90	-10.11	....	-13.00	+0.78
2	6.80	8.22	4.90	6.90	4.14	4.26	8.49	10.13	....	....	13.34	-3.60
3	6.86	7.83	5.61	5.57	4.38	3.93	8.58	10.08	....	-11.76	12.36	-1.52
4	6.72	7.45	5.96	5.15	4.40	3.47	8.56	10.40	....	12.10	10.18	+2.23
5	6.91	7.34	6.78	4.94	4.41	3.81	8.43	-8.18	-10.84	11.97	8.85	-.90
6	6.83	7.28	7.12	5.33	3.70	5.22	8.50	....	11.24	12.04	11.07	+1.59
7	6.70	6.84	7.48	5.25	3.77	6.08	8.67	....	11.54	11.81	10.84	....
8	7.44	6.75	7.48	5.10	3.74	7.08	8.21	....	11.87	11.81	10.00	....
9	7.80	6.78	8.20	4.90	4.74	7.25	7.76	-4.37	11.72	11.81	8.60	....
10	7.59	6.90	8.57	4.87	6.15	6.97	8.25	4.11	11.36	11.59	6.00	....
11	6.97	6.62	....	4.87	6.31	7.18	8.55	4.03	11.80	11.55	3.17	+2.31
12	7.30	6.62	12.28	4.56	7.06	7.63	8.46	3.63	12.10	11.71	-2.90	+2.47
13	7.23	6.67	11.07	4.44	7.15	7.76	9.06	3.34	12.39	-11.75	....	....
14	6.75	6.77	11.05	4.76	7.83	7.92	9.24	3.70	12.69	....	-1.92	....
15	6.89	6.79	11.12	3.65	8.32	8.00	9.28	4.20	12.69	-11.49	1.90	+3.89
16	7.15	6.70	10.81	3.61	8.57	7.55	9.69	4.71	....	11.66	-1.10	....
17	6.78	6.40	10.40	3.77	8.84	11.60	9.69	5.13	....	11.56	+1.83	....
18	8.00	6.22	9.79	4.05	8.67	9.28	9.53	5.36	....	....	....	....
19	8.48	6.39	9.37	4.05	7.95	-6.99	9.55	5.34	-13.50	....	....	+6.29
20	8.74	6.26	9.55	4.21	6.32	....	-9.38	5.02	13.08	....	+4.04	+6.83

28. 5. 1. 8. 4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	-8.86	-6.22	-9.44	-4.25	-5.24	-6.52	....	-5.00	-12.79	....	+3.11	....
22	8.37	5.15	9.28	4.24	5.66	6.29	....	5.41	12.27	....	2.14	....
23	7.90	-3.00	9.17	3.83	5.50	6.03	-7.65	5.93	11.92	-11.94	+2.03	....
24	7.38	....	8.98	3.92	4.79	5.08	8.11	6.14	-11.65	11.61	....	....
25	7.13	....	8.60	3.86	4.98	6.20	8.40	6.00	....	12.03	....	....
26	7.30	....	8.34	3.90	4.78	7.46	9.00	5.68	....	11.53	....	+4.40
27	7.07	....	8.61	3.98	4.34	7.60	9.74	6.23	-11.05	....	-1.61	2.89
28	6.76	-.85	8.64	3.98	4.50	7.89	10.24	7.11	11.13	....	-1.03	3.18
29	6.90	....	8.10	3.85	4.25	8.15	9.52	8.20	12.04	....	+1.17	5.35
30	6.97	....	7.99	4.07	3.96	8.15	9.49	8.98	12.04	-12.13	.47	6.54
31	10.39	....	7.91	....	3.60	....	9.49	9.66	....	12.81	....	+7.22

Monmouth County

29. 24. 7. 1. 6. (Well 1) Borough of Avon by the Sea. 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 132.00 below msl, pumping, Aug. 4, 1925. Records available: 1924-51. Jan. 9, 114.27; Apr. 19, 35.73; Oct. 24, 35.73.

29. 11. 1. 2. 9. Rulif Hulsart. Dug observation water-table well in Englishtown sand, diameter 4 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: 1936-51.

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	96.79	97.10	98.01	98.60	99.06	98.65	98.18	97.58	96.95	96.41	96.24	96.90
2	96.80	97.11	98.04	98.67	99.09	98.62	98.17	97.57	96.92	96.40	96.30	96.88
3	96.81	97.16	98.10	98.69	99.03	98.61	98.14	97.53	96.90	96.36	96.32	96.84
4	96.82	97.20	98.11	98.73	99.00	98.60	98.15	97.50	96.94	96.34	96.48	96.84
5	96.83	97.22	98.14	98.78	98.98	98.58	98.10	97.49	96.92	96.33	96.57	96.85
6	96.85	97.26	98.20	98.81	98.95	98.57	98.09	97.47	96.90	96.31	96.63	96.83
7	96.88	97.30	98.21	98.88	98.90	98.53	98.07	97.45	96.87	96.34	96.71	96.82
8	96.89	97.30	98.22	98.89	98.88	98.52	98.04	97.41	96.86	96.32	96.78	96.81
9	96.89	97.31	98.23	98.93	98.84	98.51	98.01	97.40	96.83	96.33	96.81	96.81
10	96.89	97.37	98.28	98.98	98.80	98.50	98.00	97.38	96.83	96.34	96.88	96.80
11	96.90	97.40	98.29	98.99	98.86	98.48	97.98	97.34	96.80	96.36	96.90	96.80
12	96.90	97.41	98.30	99.04	98.80	98.46	97.98	97.33	96.78	96.37	96.91	96.80
13	96.89	97.42	98.31	99.08	98.73	98.48	97.92	97.33	96.76	96.38	96.93	96.76
14	96.91	97.43	98.33	99.09	98.72	98.46	97.90	97.33	96.73	96.41	96.96	96.80
15	96.92	97.47	98.35	99.10	98.72	98.43	97.89	97.31	96.73	96.42	96.96	96.80
16	96.92	97.49	98.33	99.11	98.71	98.41	97.88	97.30	96.72	96.41	96.98	96.80
17	96.96	97.52	98.33	99.12	98.69	98.40	97.86	97.29	96.68	96.38	96.99	96.82
18	96.98	97.54	98.32	99.13	98.68	98.39	97.85	97.27	96.66	96.37	96.99	96.90
19	96.99	97.59	98.40	99.14	98.66	98.38	97.84	97.24	96.64	96.35	96.99	96.92
20	97.00	97.60	98.39	99.11	98.65	98.37	97.82	97.22	96.62	96.34	96.98	97.02
21	96.99	97.65	98.41	99.12	98.63	98.33	97.81	97.20	96.61	96.33	96.97	97.07
22	96.99	97.69	98.40	99.17	98.62	98.31	97.80	97.19	96.59	96.33	96.97	97.10
23	97.01	97.73	98.46	99.13	98.62	98.30	97.79	97.17	96.56	96.32	96.95	97.17
24	97.02	97.80	98.42	99.16	98.70	98.29	97.77	97.14	96.55	96.33	96.92	97.21
25	97.03	97.83	98.44	99.18	98.72	98.27	97.73	97.11	96.53	96.29	96.91	97.30
26	97.03	97.90	98.43	99.13	98.73	98.23	97.71	97.10	96.51	96.28	96.93	97.30
27	97.04	97.94	98.45	99.11	98.73	98.22	97.70	97.09	96.50	96.27	96.91	97.36
28	97.06	97.99	98.46	99.13	98.74	98.20	97.68	97.08	96.48	96.26	96.92	97.40
29	97.07	....	98.48	99.12	98.70	98.20	97.67	97.01	96.46	96.25	96.91	97.41
30	97.08	....	98.50	99.07	98.70	98.20	97.63	e96.99	96.44	96.25	96.90	97.48
31	97.09	....	98.54	....	98.67	....	97.61	e96.97	....	96.24	....	97.50

e Estimated.

Salem County

30. 23. 1. 8. 5. Penns Grove well 6. Main and Broad Sts. Driven observation water-table well in Cape May formation, diameter 1½ 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: 1940-51.

30. 23. 1. 8. 5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+1.93	Apr. 20	+1.91	July 26	+1.34	Oct. 25	+1.27
Feb. 13	+2.23	May 22	+1.68	Aug. 28	+1.05	Nov. 29	+1.80
Mar. 20	+2.44	June 22	+1.69	Sept. 27	+ .91	Dec. 22	+2.93

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: 1940-51.

Jan. 5	+9.83	Apr. 20	+9.93	July 26	+9.05	Oct. 25	+7.32
Feb. 13	+10.07	May 22	+9.63	Aug. 28	+8.16	Nov. 29	+9.69
Mar. 20	+10.24	June 22	+9.58	Sept. 27	+7.55	Dec. 22	+10.67

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 24.04 above msl, Mar. 25, 1944; lowest 19.80 above msl, Sept. 25, 1943. Records available: 1940-51.

Jan. 5	+22.93	Apr. 20	+22.97	July 26	+21.48	Oct. 25	+20.49
Feb. 13	+23.42	May 22	+22.21	Aug. 28	+20.68	Nov. 29	+22.62
Mar. 20	+23.68	June 22	+22.14	Sept. 27	+20.11	Dec. 22	+23.71

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: 1940-51. Jan. 5, +23.02; Feb. 13, +23.26; Mar. 20, +24.06; Apr. 20, +22.91; Nov. 29, +22.83; Dec. 22, +24.30.

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: 1940-51.

Jan. 5	+23.10	Apr. 20	+23.55	July 26	+22.08	Oct. 25	+19.64
Feb. 13	+25.10	May 22	+23.15	Aug. 28	+21.24	Nov. 29	+19.32
Mar. 20	+23.43	June 22	+22.70	Sept. 27	+20.40	Dec. 22	+19.58

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 4.52 above msl, Feb. 8, 1949; lowest 1.22 above msl, Oct. 11, 1941. Records available: 1940-51.

Jan. 5	+3.26	Apr. 20	+3.42	July 26	+2.25	Oct. 25	+2.09
Feb. 13	+3.80	May 22	+2.81	Aug. 28	+2.08	Nov. 29	+2.99
Mar. 20	+3.77	June 22	+2.72	Sept. 27	+1.97	Dec. 22	+3.98

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 21.32 above msl, Mar. 20, 1951; lowest 15.01 above msl, Oct. 24, 1943. Records available: 1940-51.

Jan. 5	+20.06	Apr. 20	+19.75	July 26	+17.52	Oct. 25	+15.40
Feb. 13	+20.53	May 22	+18.44	Aug. 28	+16.48	Nov. 29	+18.72
Mar. 20	+21.32	June 22	+18.37	Sept. 27	+15.75	Dec. 22	+21.25

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 23.03 above msl, Dec. 22, 1951; lowest 16.55 above msl, Oct. 24, 1943. Records available: 1940-51.

Jan. 5	+20.88	Apr. 20	+20.96	July 26	+19.02	Oct. 25	+17.15
Feb. 13	+21.48	May 22	+19.96	Aug. 28	+18.07	Nov. 29	+20.04
Mar. 20	+22.37	June 22	+19.76	Sept. 27	+17.32	Dec. 22	+23.03

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: 1941-51.

30.22.9.5.8--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+5.57	Apr. 20	+8.02	July 26	+5.30	Oct. 25	+2.75
Feb. 13	+6.23	May 22	+7.16	Aug. 28	+4.38	Nov. 29	+2.62
Mar. 20	+7.38	June 22	+6.22	Sept. 27	+3.49	Dec. 22	+2.71

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 various dates 1942-45, 1949, 1951. Records available: 1939-49, 1951.

Feb. 13	+1.95	May 22	+1.37	Aug. 28	(f)	Nov. 29	(f)
Mar. 20	+1.55	June 22	+.91	Sept. 27	(f)	Dec. 22	(f)
Apr. 20	+2.33	July 26	(f)	Oct. 25	(f)		

f Dry.

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, screen 46-51. Land-surface datum 18 feet above msl. Highest water level 7.83 above msl, June 14, 1947; lowest 6.48 below msl, Feb. 18, 1950. Records available: 1941-51.

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	-1.05	-0.83	....	+1.46	+1.84	+1.04	+0.17	-0.64	-1.72	-2.60	-3.42	-3.72
2	.99	....	....	1.50	1.95	1.02	.12	.64	1.77	2.61	3.38	3.74
3	.95	....	....	1.47	1.89	1.00	.09	.64	.82	2.64	3.47	3.73
4	1.04	-.77	+0.73	1.49	1.87	.97	.10	.65	.86	2.65	3.52	3.69
5	1.03	.77	.75	1.50	1.81	.93	+0.04	.75	1.89	2.68	3.56	3.69
6	.96	.71	.85	1.55	1.78	.92	-.00	.75	1.92	2.72	3.51	3.74
7	.79	.67	.92	1.60	1.75	.88	-.02	.75	1.97	2.73	3.52	3.73
8	.88	-.70	.93	1.65	1.71	.87	.11	.78	2.00	2.78	3.57	3.75
9	.86	....	.91	1.68	1.69	.85	.12	.82	2.04	2.81	3.56	3.74
10	.84	....	.96	1.71	1.63	.83	.15	.88	2.08	2.82	3.54	3.75
11	.82	-.41	1.03	1.73	1.69	.80	.18	.91	2.11	2.85	3.57	3.70
12	.82	.36	1.07	1.78	1.59	.76	.19	.99	2.13	2.90	3.57	3.74
13	.82	.32	1.14	1.83	1.51	.79	.22	1.03	2.16	2.93	3.55	3.80
14	.74	-.31	1.18	1.82	1.48	.75	.25	1.05	2.19	2.94	3.56	3.68
15	.73	....	1.17	1.86	1.50	.72	.27	1.06	2.21	2.96	3.57	3.80
16	.76	....	1.15	1.89	1.50	.67	.27	1.07	2.25	2.98	3.59	3.83
17	.74	....	1.12	1.89	1.44	.64	.32	1.11	2.27	3.01	3.60	3.80
18	.74	-.16	1.07	1.93	1.40	.61	.34	1.15	2.30	3.04	3.62	3.74
19	.74	....	1.23	1.95	1.38	.58	.33	1.29	2.33	3.06	3.64	3.83
20	.68	....	1.14	1.86	1.38	.56	.39	1.31	2.35	3.09	3.66	3.67
21	.79	....	1.25	1.89	1.36	.53	.40	1.33	2.37	3.11	3.68	3.66
22	.79	....	1.20	1.98	1.36	.49	.41	1.38	2.38	3.14	3.66	3.59
23	.77	....	1.31	1.91	1.33	.45	.41	1.42	2.43	3.16	3.64	3.41
24	.74	....	1.26	1.92	1.28	.42	.44	1.45	2.45	3.17	3.69	3.23
25	.74	+27	1.24	2.00	1.26	.38	.46	1.49	2.47	3.21	3.64	3.02
26	.82	.37	1.23	1.91	1.25	.35	.48	1.48	2.49	3.23	3.66	2.88
27	.84	.42	1.28	1.87	1.23	.33	.51	1.52	2.49	3.25	3.73	2.74
28	.83	....	1.33	1.97	1.21	.28	.55	1.56	2.55	3.28	3.71	2.57
29	.87	....	1.38	1.98	1.15	.24	.58	1.60	2.58	3.33	3.73	2.43
30	.90	....	1.40	1.84	1.09	.22	.60	1.64	2.59	3.36	3.72	2.30
31	.78	....	1.38	1.06	....	....	.61	1.67	....	3.38	....	2.20

30.32.2.2.3. Penns Grove well 31. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 22 feet. Land-surface datum is 5 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: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	-0.72	Apr. 20	+1.23	July 26	-0.32	Oct. 25	-2.38
Feb. 13	+.38	May 22	+.44	Aug. 28	-1.93	Nov. 29	-.67
Mar. 20	+7.75	June 22	-.39	Sept. 27	-2.57	Dec. 22	+1.83

30.22.8.9.5. Penns Grove well 32. Driven observation water-table well in Cape May formation, diameter 1½ inches, depth 12 feet. Land-surface datum is 4 feet above msl. Highest water level 2.47 above msl, Dec. 22, 1951; lowest 1.06 below msl, Nov. 22, 1941. Records available: 1940-51.

30. 22. 8. 9. 5--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+0.51	Apr. 20	+1.17	July 26	+0.32	Oct. 25	-0.18
Feb. 13	+1.12	May 22	+ .69	Aug. 28	- .02	Nov. 29	+ .47
Mar. 20	+1.91	June 22	+ .56	Sept. 27	- .22	Dec. 22	+2.47

30. 22. 9. 8. 6. Penns Grove 35. Driven observation water-table well in Magothy and Raritan formations, diameter 1½ 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: 1940-51.

Jan. 5	+4.74	Apr. 20	+6.20	July 26	+4.89	Oct. 25	+2.34
Feb. 13	+5.44	May 22	+5.74	Aug. 28	+3.91	Nov. 29	+3.27
Mar. 20	+6.11	June 22	+5.29	Sept. 27	+2.93	Dec. 22	+4.24

30. 22. 9. 8. 4. Penns Grove well 36. Driven observation water-table well in Magothy and Raritan formations, diameter 1½ 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: 1940-51.

Jan. 5	2.52	Apr. 20	0.25	Aug. 28	3.15	Nov. 29	4.63
Feb. 13	1.93	May 22	.85	Sept. 27	3.69	Dec. 22	4.77
Mar. 20	.87	June 22	1.44	Oct. 25	4.71		

30. 22. 2. 3. 3. Penns Grove 41. Drilled observation water-table well in Cape May formation, diameter 6 inches, depth 25 feet, screen 20-25. Land-surface datum is 10 feet above msl. Highest water level 11.55 above msl, Feb. 8, 1949; lowest 4.66 above msl, Oct. 15, 1943. Records available: 1941-51.

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	.....	.....	.....	.....	9.99	9.84	9.44	8.48	7.37	6.43	7.10	9.50
2	.....	.....	.....	.....	9.91	9.99	9.30	8.40	7.33	6.40	7.45	9.48
3	.....	.....	.....	.....	9.87	9.90	9.19	8.35	7.30	6.39	7.98	9.44
4	10.20	10.77	.....	.....	9.90	9.80	9.40	8.27	7.25	6.39	8.07	9.44
5	10.19	10.74	.....	.....	9.80	9.71	9.77	8.20	7.20	6.31	8.09	9.80
6	10.19	10.66	.....	.....	9.76	9.63	9.70	8.15	7.20	6.29	8.13	9.80
7	10.21	.....	.....	.....	9.68	9.53	9.60	8.18	7.14	6.50	8.94	9.80
8	10.21	.....	.....	.....	9.60	9.57	9.48	8.17	7.10	6.68	9.10	9.80
9	10.20	.....	.....	.....	9.52	9.50	9.31	8.10	7.09	6.69	9.12	9.82
10	10.20	.....	.....	.....	9.47	9.80	9.20	8.03	7.03	6.66	9.17	9.79
11	10.20	.....	.....	.....	9.77	9.78	9.09	8.01	6.99	6.80	9.16	9.79
12	10.06	.....	.....	.....	9.85	9.67	9.01	8.01	6.94	6.86	9.13	9.71
13	10.04	.....	.....	.....	9.72	9.82	8.92	7.98	6.90	6.83	9.13	9.60
14	10.08	.....	.....	.....	9.64	9.92	8.86	7.90	6.88	6.81	9.29	9.69
15	10.49	.....	10.83	.....	9.60	9.82	8.80	7.89	7.00	6.80	9.33	10.01
16	10.49	.....	.....	.....	9.52	9.70	8.72	7.82	6.99	6.77	9.50	9.95
17	10.48	.....	.....	.....	9.40	9.59	8.68	7.77	6.92	6.70	9.48	9.88
18	10.48	.....	.....	.....	9.32	9.48	9.01	7.70	6.89	6.69	9.42	10.29
19	10.48	.....	.....	.....	9.28	9.38	9.36	7.65	6.81	6.63	9.37	10.28
20	10.48	.....	.....	.....	9.31	9.30	9.37	7.93	6.78	6.60	9.31	10.61
21	10.41	.....	.....	.....	9.28	9.21	9.28	8.00	6.76	6.55	9.27	11.12
22	10.37	.....	.....	.....	9.22	9.17	9.19	7.98	6.71	6.50	9.26	11.09
23	10.26	.....	.....	.....	9.79	9.73	9.10	7.88	6.70	6.50	9.25	11.01
24	10.47	.....	.....	.....	10.15	9.72	8.99	7.80	6.67	6.50	9.20	10.96
25	10.48	.....	.....	.....	10.12	9.61	8.88	7.72	6.63	6.50	9.20	11.08
26	10.47	.....	.....	10.22	10.08	9.50	8.78	7.68	6.60	6.50	9.60	11.09
27	10.47	.....	.....	10.16	10.04	9.41	8.68	7.63	6.59	6.49	9.58	10.98
28	10.47	.....	.....	10.15	9.99	9.28	8.68	7.58	6.52	6.48	9.53	10.90
29	10.47	.....	.....	10.14	10.15	9.48	8.70	7.50	6.49	6.43	9.53	10.90
30	10.47	.....	.....	10.02	10.10	9.50	8.62	7.47	6.47	6.41	9.51	10.90
31	10.65	.....	.....	.....	9.98	.....	8.56	7.41	.....	6.40	.....	10.89

30. 22. 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 11.16 above msl, Dec. 22, 1951; lowest 3.94 above msl, Oct. 24, 1943. Records available: 1940-51.

30. 32. 2. 3. 9--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+10.22	Apr. 20	+10.30	July 26	+8.54	Oct. 25	+5.64
Feb. 13	+10.46	May 22	+9.08	Aug. 28	+6.85	Nov. 29	+9.83
Mar. 20	+10.96	June 22	+8.87	Sept. 27	+5.82	Dec. 22	+11.16

30. 32. 2. 5. 1. Penns Grove 52. Near bridge over Salem Canal at Deepwater. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 31 feet. Land-surface datum is 7 feet above msl. Highest water level 2.82 above msl, Feb. 8, 1949; lowest 13.65 below msl, Feb. 12, 1942. Records available: 1940-51. Jan. 5, -1.21; Feb. 13, +.54; Mar. 20, +.84; Apr. 20, +.29. Measurement discontinued.

30. 32. 2. 6. 5. Penns Grove 54. Near bridge over Salem Canal at Deepwater. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 12.5 feet above msl. Highest water level flowing, Mar. 13, 1941; lowest 5.63 above msl, Oct. 24, 1943. Records available: 1940-51.

Jan. 5	+10.45	Apr. 20	+10.83	July 26	+9.44	Oct. 25	+7.04
Feb. 13	+11.10	May 22	+9.75	Aug. 28	+8.15	Nov. 29	+9.73
Mar. 20	+11.10	June 22	+9.61	Sept. 27	+7.19	Dec. 22	+11.34

30. 32. 3. 5. 5. Penns Grove 55. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 12 feet. Land-surface datum is 8 feet above msl. Highest water level 7.28 above msl, Feb. 8, 1949; lowest 1.93 above msl, Oct. 20, 24, 1943. Records available: 1940-51.

Jan. 5	+5.76	Apr. 20	+5.78	July 26	+5.02	Oct. 25	+3.21
Feb. 13	+6.31	May 22	+4.97	Aug. 28	+3.68	Nov. 29	+5.85
Mar. 20	+6.66	June 22	+4.88	Sept. 27	+2.88	Dec. 22	+7.25

30. 32. 2. 5. 8. Penns Grove 62. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ 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: 1940-51.

Jan. 5	+0.88	Apr. 20	+1.25	July 26	-2.36	Oct. 25	-5.19
Feb. 13	+1.87	May 22	+7.5	Aug. 28	-3.95	Nov. 29	-4.81
Mar. 20	+1.78	June 22	-.85	Sept. 27	-4.85	Dec. 22	-2.68

30. 32. 2. 9. 1. Penns Grove 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 15.73 above msl, Apr. 15, 1947; lowest 8.09 above msl, Oct. 24, 1943. Records available: 1941-51.

Jan. 5	+13.97	Apr. 20	+13.96	July 26	+12.16	Oct. 25	+9.43
Feb. 13	+14.56	May 22	+12.60	Aug. 28	+10.77	Nov. 29	+12.48
Mar. 20	+14.97	June 22	+12.39	Sept. 27	+9.81	Dec. 22	+15.08

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: 1940-51.

Jan. 5	+1.37	Apr. 20	+1.38	July 26	+1.05	Oct. 25	+0.85
Feb. 13	+1.71	May 22	+1.17	Aug. 28	+70	Nov. 29	+1.49
Mar. 20	+1.54	June 22	+1.17	Sept. 27	+56	Dec. 22	+2.89

30. 32. 6. 1. 6. Penns Grove 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: 1940-51.

Jan. 5	+7.48	Apr. 20	+8.19	July 26	+6.36	Oct. 25	+3.30
Feb. 13	+7.80	May 22	+7.69	Aug. 28	+4.49	Nov. 29	+4.52
Mar. 20	+8.17	June 22	+6.99	Sept. 27	+3.51	Dec. 22	+6.66

30. 32. 1. 9. 5. Penns Grove 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 8.93 above msl, Feb. 8, 1949; lowest 1.33 above msl, Dec. 6, 1941. Records available: 1940-51.

Jan. 5	+6.17	Apr. 20	+7.27	July 26	+5.71	Oct. 25	+3.23
Feb. 13	+7.21	May 22	+6.38	Aug. 28	+4.78	Nov. 29	+5.26
Mar. 20	+7.35	June 22	+6.15	Sept. 27	+3.81	Dec. 22	+6.93

30.32.5.1.3. Penns Grove 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 6.27 above msl, Dec. 22, 1951; lowest 0.70 below msl, Oct. 24, 1943. Records available: 1940-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+4.27	Apr. 20	+4.59	July 26	+3.15	Oct. 25	+1.21
Feb. 13	+5.08	May 22	+3.40	Aug. 28	+2.11	Nov. 29	+3.94
Mar. 20	+5.50	June 22	+3.43	Sept. 27	+1.38	Dec. 22	+6.27

30.32.4.6.4. Penns Grove 73. Near Broadway and Pittsfield Sts. in Pennsville. 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; lowest 2.01 below msl, Sept. 25, 1943. Records available: 1940-51.

Jan. 5	+1.96	Apr. 20	+2.05	July 26	+1.05	Oct. 25	+0.68
Feb. 13	+2.25	May 22	+1.47	Aug. 28	+0.60	Nov. 29	+1.99
Mar. 20	+2.65	June 22	+1.46	Sept. 27	-.04	Dec. 22	+2.82

30.32.5.4.6. Penns Grove 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: 1940-51.

Jan. 5	+2.44	Apr. 20	+2.80	July 26	+1.79	Oct. 25	+1.12
Feb. 13	+3.22	May 22	+1.99	Aug. 28	+1.20	Nov. 29	+2.68
Mar. 20	+3.16	June 22	+1.98	Sept. 27	+0.74	Dec. 22	+4.47

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 11.56 above msl, Mar. 20, 1951; lowest 4.74 above msl, Oct. 24, 1943. Records available: 1940-51.

Jan. 5	+10.85	Apr. 20	+10.36	July 26	+8.48	Oct. 25	+5.96
Feb. 13	+10.77	May 22	+9.06	Aug. 28	+7.34	Nov. 29	+10.76
Mar. 20	+11.56	June 22	+9.18	Sept. 27	+6.30	Dec. 22	+11.48

30.31.9.6.6. Penns Grove well 91. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 16 feet. Land-surface datum is 9.5 feet above msl. Highest water level 7.03 above msl, Feb. 8, 1949; lowest 2.19 above msl, Oct. 11, 1941. Records available: 1940-51. Jan. 5, +5.90; Feb. 13, +6.29; Mar. 20, +6.89; Apr. 20, +5.87. Measurement discontinued.

30.32.7.6.9. Penns Grove well 92. Driven observation water-table well in Cape May formation, diameter $1\frac{1}{4}$ inches, depth 16 feet. Land-surface datum is 17.2 feet above msl. Highest water level 15.31 above msl, Feb. 8, 1949; lowest 5.33 above msl, Dec. 6, 1941. Records available: 1940-51.

Jan. 5	+10.75	Apr. 20	+11.63	July 26	+8.41	Oct. 25	+6.11
Feb. 13	+13.03	May 22	+9.26	Aug. 28	+7.20	Nov. 29	+7.75
Mar. 20	+13.06	June 22	+8.64	Sept. 27	+6.45	Dec. 22	+12.59

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 9.05 above msl, Dec. 22, 1949. Records available: 1940-51.

Jan. 5	+13.31	Apr. 20	+14.63	July 26	+11.66	Oct. 25	+9.49
Feb. 13	+14.68	May 22	+13.27	Aug. 28	+10.66	Nov. 29	+10.59
Mar. 20	+15.16	June 22	+12.59	Sept. 27	+9.88	Dec. 22	+12.71

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: 1940-51.

Jan. 5	+8.74	Apr. 20	+10.37	July 26	+7.69	Oct. 25	+5.35
Feb. 13	+9.66	May 22	+9.33	Aug. 28	+6.79	Nov. 29	+5.71
Mar. 20	+10.22	June 22	+8.55	Sept. 27	+5.99	Dec. 22	+6.83

30.32.2.6.4. Penns Grove well E-16. Seven Bros. Dug unused water-table well in Cape May formation, diameter 24 inches, depth 6 feet, well 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: 1940-51.

30.32.2.6.4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	+13.98	May 22	+12.69	Aug. 28	+11.61	Nov. 29	+13.41
Mar. 20	+14.65	June 22	+12.77	Sept. 27	+10.87	Dec. 22	+14.65
Apr. 20	+13.95	July 26	+12.75	Oct. 25	+10.65		

30.32.9.9.8. Penns Grove well R-5. Swaverly Cabins. Drilled unused water-table well in Merchantville (?) clay, diameter 3 inches, depth 50 feet. Land-surface datum is 10 feet above msl. Highest water level 10.30 above msl, Apr. 24, 1940; lowest 4.10 above msl, Oct. 24, 1943. Records available: 1940-51.

Jan. 5	+8.24	Apr. 20	+8.63	July 26	+7.53	Oct. 25	+5.54
Feb. 13	+8.67	May 22	+8.04	Aug. 28	+6.51	Nov. 29	+7.49
Mar. 20	+8.92	June 22	+7.77	Sept. 27	+5.64	Dec. 22	+8.65

30.23.7.1.4. Penns Grove Water Supply Co. well R-7. Drilled unused water-table well in Magothy and Raritan formations, diameter 2 inches, depth 50 feet. Highest water level 24.05 above msl, Feb. 24, 1945; lowest 18.82 above msl, Oct. 20, 1943. Records available: 1940-51.

Jan. 5	+22.78	Apr. 20	+23.01	July 26	+21.57	Oct. 25	+19.48
Feb. 13	+23.28	May 22	+22.32	Aug. 28	+20.49	Nov. 29	+21.97
Mar. 20	+23.33	June 22	+22.19	Sept. 27	+19.73	Dec. 22	+23.89

30.32.3.6.5. Penns Grove Water Supply Co. well 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 8.93 above msl, Mar. 20, 1951; lowest 2.09 above msl, Oct. 10, 1943. Records available: 1940-51.

Jan. 5	+5.19	Apr. 20	+7.40	July 26	+7.37	Oct. 25	+3.66
Feb. 13	+7.52	May 22	+6.67	Aug. 28	+4.60	Nov. 29	+6.73
Mar. 20	+8.93	June 22	+5.42	Sept. 27	+3.72	Dec. 22	+8.86

30.44.3.6.2. (Thorntonwaite well) Seabrook Farms. At Shirley. Dug unused water-table well in Cohansy sand, diameter 48 to 36 inches, depth about 24 feet. Land-surface datum is 144 feet above msl. Highest water level 131.85 above msl, Apr. 15, 1951; lowest 127.35 above msl, Sept. 12, 1950. Records available: 1949-51.

Water level at end of day, above msl, 1949*

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1	128.54	17	128.01	128.78	128.19
2	128.51	18	127.99	128.76	128.19
3	128.90	128.48	19	127.98	128.78	.....
4	128.91	128.48	20	.....	128.74	128.16
5	128.91	128.46	21	.....	128.73	128.15
6	128.88	128.44	22	127.94	128.70	128.14
7	128.90	128.43	23	.....	128.69	128.11
8	128.90	128.39	24	.....	128.71	128.07
9	128.88	128.36	25	.....	128.67	128.07
10	128.89	128.34	26	.....	128.64	128.09
11	128.87	128.32	27	.....	128.62	128.07
12	128.83	.....	28	.....	128.61	128.07
13	128.88	.....	29	.....	128.60	128.05
14	128.83	128.26	30	.....	128.57	128.06
15	128.80	128.24	31	.....	.....	128.08
16	128.02	128.79	128.21				

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

Water level at end of day, above msl, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	128.09	127.84	128.78	129.34	129.22	128.76	128.46	128.00	127.50	128.26	127.87	128.22
2	128.12	.....	128.76	129.36	129.21	128.76	128.44	127.98	127.48	128.27	127.86	128.31
3	128.14	127.80	128.73	129.40	129.19	128.79	128.42	127.96	.....	128.29	127.85	128.40
4	128.12	127.82	128.74	129.44	129.18	128.77	128.40	127.95	127.44	128.28	127.87	128.46
5	128.11	127.86	.....	129.45	129.17	128.76	128.39	127.93	127.42	128.26	127.81	128.46
6	128.12	127.92	128.78	129.45	129.15	128.74	128.36	127.91	127.40	128.24	127.79	128.50
7	128.05	127.92	128.78	129.47	129.12	128.72	128.34	127.89	127.39	128.23	127.78	128.72
8	128.07	127.97	128.80	129.49	129.08	128.73	128.32	127.87	127.37	128.24	127.77	128.60
9	128.06	128.00	128.73	129.45	129.10	128.73	128.30	127.86	.....	128.22	127.76	128.65
10	128.07	128.04	128.72	129.49	129.10	128.74	128.27	127.85	.....	128.20	127.75	128.74

30. 44. 3. 6. 2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	128.00	128.05	128.75	129.50	129.07	128.70	128.26	127.83	127.36	.....	127.72	128.79
12	128.02	128.07	128.75	129.50	129.07	128.69	128.25	127.81	127.37	128.19	127.71	128.83
13	127.99	128.10	128.78	129.49	129.05	128.69	128.24	127.79	.....	128.14	127.69	128.88
14	128.01	128.18	128.71	129.47	129.05	128.68	128.22	127.78	.....	128.12	127.67	128.94
15	.....	128.15	128.74	129.44	129.02	128.67	128.21	127.76	.....	128.09	127.66	129.01
16	127.85	128.16	128.79	129.45	128.99	128.66	128.20	127.75	127.74	128.06	127.67	129.02
17	.....	128.20	128.84	129.45	128.98	128.65	128.19	127.73	127.78	128.05	127.65	129.06
18	127.99	128.27	128.77	129.42	128.97	128.65	128.18	127.72	127.85	.....	.....	129.09
19	127.96	.....	128.76	129.42	128.94	128.63	128.17	127.71	127.92	128.05	.....	129.10
20	127.96	128.41	128.80	129.42	128.92	128.62	128.16	127.69	127.97	128.02	.....	129.11
21	127.97	128.48	128.82	129.37	128.91	128.60	128.14	127.68	.....	128.01	.....	129.12
22	.....	128.57	128.94	129.37	128.88	128.59	128.12	127.66	128.09	128.00	127.58	129.15
23	127.94	128.60	128.90	129.38	128.88	128.57	128.11	127.65	128.11	127.97	127.56	129.17
24	127.92	128.65	128.92	129.35	128.86	128.57	128.09	127.63	128.13	127.96	.....	129.18
25	127.89	128.67	128.95	129.34	128.85	128.56	128.08	127.61	128.16	127.95	.....	129.15
26	127.88	128.71	129.01	129.30	128.83	128.55	128.07	127.59	128.18	127.93	.....	129.12
27	127.86	128.71	129.10	129.29	128.82	128.53	128.05	127.58	128.20	127.91	.....	129.08
28	127.87	128.75	129.16	129.26	128.81	128.51	128.05	127.56	128.22	127.90	127.97	129.10
29	127.86	.....	129.21	129.24	128.79	128.50	128.04	127.54	128.24	127.90	128.08	129.12
30	127.84	.....	129.24	129.25	128.78	128.48	128.02	127.53	.....	127.89	.....	129.12
31	127.82	.....	129.28	.....	128.78	.....	128.01	127.51	.....	127.88	.....	129.05

e Estimated.

Water level at end of day, above msl, from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	129.03	129.05	130.68	130.90	131.21	130.45	129.78	129.43	128.78	128.11	127.50	127.73
2	129.09	128.97	130.73	131.66	131.32	130.44	129.76	129.41	128.76	128.09	127.90	127.72
3	129.12	129.04	130.79	131.11	131.25	130.42	129.74	129.39	128.73	128.08	127.50	127.71
4	129.06	.....	130.78	131.24	131.18	130.39	.....	129.36	128.70	128.06	127.50	127.74
5	129.03	.....	130.76	131.33	131.15	130.36	129.76	129.34	128.68	.....	127.50	127.74
6	129.04	128.99	130.80	131.48	131.12	130.34	129.77	129.33	128.67	.....	127.56	127.71
7	129.10	129.15	130.83	131.61	131.07	130.31	129.81	129.32	128.65	128.12	127.63	127.73
8	129.01	129.15	130.81	131.67	131.02	130.30	129.84	129.30	128.62	127.95	127.63	127.74
9	128.99	129.15	130.74	131.71	131.01	130.29	129.85	129.27	128.59	127.92	127.66	127.78
10	129.00	129.06	130.75	131.73	130.98	130.24	129.84	129.25	.....	127.91	127.70	127.79
11	128.99	129.10	130.77	131.72	131.01	130.21	129.83	129.22	.....	127.89	127.72	127.83
12	128.96	129.15	130.77	131.78	130.90	130.17	129.83	129.20	.....	127.85	127.74	127.84
13	128.94	129.16	130.87	131.77	130.83	130.20	129.78	129.18	.....	127.83	127.77	127.80
14	129.05	129.18	130.81	131.79	130.79	130.15	129.75	129.15	.....	127.81	127.78	127.86
15	.....	129.19	130.77	131.82	130.81	130.12	129.74	129.14	.....	127.80	127.80	127.82
16	128.94	129.22	130.71	131.72	130.80	130.09	129.73	129.13	.....	127.78	127.81	127.78
17	128.99	129.31	130.65	131.66	130.75	130.06	129.72	129.10	128.43	127.77	127.81	.....
18	129.00	129.29	130.60	131.63	130.75	130.04	129.70	129.07	128.40	127.75	127.81	.....
19	128.99	129.34	131.00	131.59	130.72	130.02	129.70	129.06	128.37	127.73	127.79	.....
20	129.04	129.42	.....	131.49	130.71	130.00	129.66	129.04	128.35	127.72	127.77	.....
21	128.97	129.60	130.78	131.47	130.69	129.98	129.64	129.03	128.32	127.69	127.75	.....
22	128.94	129.66	130.75	131.53	130.70	129.96	129.62	129.00	128.31	127.67	127.75	128.13
23	129.02	129.87	130.85	131.40	130.77	129.93	129.61	128.96	128.28	127.66	127.76	128.21
24	129.03	130.11	130.86	131.40	130.63	129.92	.....	128.94	128.27	127.67	127.71	128.30
25	129.04	130.31	130.82	131.40	130.61	129.90	.....	128.93	128.25	127.62	127.73	128.42
26	129.02	130.47	130.78	131.36	130.61	129.88	.....	128.92	128.22	127.61	127.76	.....
27	129.01	130.55	130.79	131.29	130.59	129.87	.....	128.88	128.21	127.60	127.71	.....
28	129.01	130.56	130.81	131.35	130.59	129.84	.....	128.86	128.17	127.58	127.72	.....
29	.....	.....	130.83	131.35	130.54	129.82	129.49	128.84	128.15	127.55	127.72	128.73
30	128.96	.....	131.05	131.23	130.50	129.82	129.47	128.82	128.14	127.53	127.72	128.79
31	129.04	.....	130.83	.....	130.47	.....	129.45	128.80	.....	127.51	.....	128.84

e Estimated.

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 feet above msl. Highest water level 65.02 above msl, Dec. 31, 1945; lowest 61.18 above msl, Dec. 9, 1949. Records available: 1943-51.

Water level at end of day, above msl, 1943*

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	63.61	63.07	62.66	62.53	63.24	63.24
2	63.57	63.06	62.59	62.54	63.27	63.20
3	63.56	63.00	62.58	62.54	63.33	63.18
4	63.60	62.97	62.59	62.51	63.30	63.19
5	63.73	62.95	62.62	62.46	63.28	63.19

26.21.5.4.6--Continued.

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	63.69	62.90	62.63	62.45	63.22	63.25
7	.....	63.68	62.89	62.76	62.44	63.22	63.17
8	.....	63.62	62.89	62.78	62.43	63.38	63.13
9	.....	63.64	62.89	62.74	62.41	63.54	63.09
10	.....	63.61	62.96	62.70	62.36	63.54	63.13
11	.....	63.60	62.94	62.65	62.38	63.50	63.07
12	.....	63.60	62.91	62.66	62.36	63.60	63.13
13	.....	63.55	62.96	62.65	62.34	63.44	63.04
14	.....	63.51	62.99	62.70	62.33	63.45	e63.02
15	.....	63.44	62.99	62.76	62.48	63.49	63.00
16	.....	63.38	62.97	62.72	62.57	63.43	62.99
17	.....	63.35	62.89	62.66	62.58	63.40	62.99
18	.....	63.33	62.83	62.66	62.60	63.38	62.99
19	.....	63.29	62.80	62.68	62.55	63.38	63.04
20	.....	63.26	62.77	62.68	62.53	63.34	63.05
21	.....	63.23	62.76	62.65	62.51	63.38	63.01
22	.....	62.24	62.76	62.61	62.50	63.40	62.93
23	62.89	63.20	62.76	62.58	62.47	63.37	62.88
24	63.86	63.18	62.72	62.56	62.48	63.32	62.86
25	63.80	63.20	62.68	62.55	62.50	63.32	62.93
26	63.77	63.19	62.63	62.54	62.95	63.35	63.09
27	63.78	63.16	62.72	62.53	63.08	63.31	63.13
28	63.78	e63.13	62.74	62.48	63.26	63.29	63.07
29	63.75	e63.11	62.76	62.43	63.27	63.29	63.05
30	63.66	e63.09	62.75	62.45	63.24	63.25	63.01
31		63.06	62.70		63.24		62.99

e Estimated.

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

Water level at end of day, above msl, 1944

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	63.98	63.35	63.46	64.45	64.86	63.74	63.27	62.63	62.10	62.85	62.49	63.85
2	63.00	63.34	63.43	64.45	64.79	63.71	63.26	62.65	62.09	62.83	62.48	63.83
3	63.20	e63.30	63.44	63.43	64.78	63.63	63.27	62.70	62.09	62.79	62.49	63.85
4	63.40	63.27	63.40	64.41	64.74	63.64	63.28	62.66	62.13	62.76	62.51	63.84
5	63.49	63.31	63.38	64.34	64.68	63.66	63.26	62.63	62.10	62.73	62.53	63.83
6	63.83	63.30	63.42	64.31	64.62	63.65	63.19	62.65	62.09	62.72	62.50	63.80
7	63.86	63.29	63.67	64.28	64.66	63.56	63.14	62.69	62.04	62.72	62.47	63.76
8	63.85	63.22	63.64	64.28	64.60	63.50	63.09	62.62	62.02	62.72	62.45	63.84
9	63.84	63.20	63.59	64.33	64.53	63.47	63.08	62.60	62.00	62.70	62.43	63.79
10	63.78	63.18	63.56	64.28	64.48	63.63	63.06	62.58	62.01	62.67	62.48	63.80
11	63.74	63.26	63.54	64.28	64.44	63.67	63.00	62.53	62.03	62.63	62.45	63.95
12	63.67	63.18	63.58	64.27	64.43	63.64	62.98	62.50	62.23	62.58	62.48	64.02
13	63.64	63.18	63.98	64.18	64.43	63.56	62.92	62.50	62.53	62.59	62.49	63.94
14	63.64	63.36	64.08	64.08	64.40	63.52	62.89	62.48	62.93	62.55	62.47	63.89
15	63.64	66.39	64.10	64.26	64.36	63.52	62.89	62.45	63.06	62.54	62.47	63.89
16	e63.60	63.40	64.13	64.47	64.30	63.49	62.98	62.45	63.05	62.59	62.53	63.87
17	e63.57	63.46	64.13	64.47	64.26	63.42	62.95	62.44	63.04	62.56	62.54	63.87
18	e63.54	63.42	64.06	64.45	64.16	63.42	62.89	62.99	63.06	62.53	62.54	63.88
19	63.52	63.43	64.12	64.42	64.13	63.52	62.85	62.33	e63.07	62.48	62.59	63.81
20	63.45	63.49	64.08	64.39	64.11	63.51	62.85	62.35	e63.07	62.57	62.70	63.85
21	63.43	63.45	63.99	64.35	64.10	63.45	62.79	62.37	63.06	62.68	e62.95	63.75
22	63.40	63.51	63.99	64.31	64.07	63.42	62.78	62.33	62.99	62.68	63.20	63.70
23	63.45	63.45	e64.08	64.35	63.99	63.40	62.80	62.31	62.95	62.71	63.22	63.72
24	63.43	63.42	e64.35	64.76	63.96	63.44	62.79	62.25	62.96	62.69	63.20	63.74
25	63.41	63.38	e64.40	64.92	63.92	63.47	62.72	62.21	62.98	62.68	63.17	63.87
26	63.38	63.39	64.41	64.92	63.91	63.43	62.69	62.19	62.95	62.64	63.19	63.79
27	63.43	63.46	64.48	64.98	63.92	63.37	62.70	62.21	62.92	62.60	63.48	63.90
28	63.45	63.51	64.37	64.95	63.92	63.34	62.74	62.24	62.91	62.61	63.51	63.82
29	63.45	63.53	64.43	64.93	63.88	63.31	62.72	62.22	62.85	62.59	63.59	63.79
30	63.41		64.53	64.93	63.85	63.28	62.72	62.16	62.84	62.55	63.82	63.77
31	63.45		64.48		63.81		62.69	62.13		62.51		63.82

e Estimated.

26. 21. 5. 4. 6--Continued.

Water level at end of day, above msl, 1945

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.10	e63.59	64.61	64.22	64.16	64.18	63.78	64.21	63.46	64.08	63.71	64.56
2	64.09	e63.58	64.61	64.26	64.17	64.23	e63.79	64.23	63.56	64.04	63.71	64.57
3	64.09	e63.57	64.64	64.15	64.28	64.27	63.80	64.19	63.55	63.94	63.70	64.57
4	64.08	e63.56	64.62	64.22	64.51	64.27	63.78	64.13	e63.50	63.91	63.70	64.51
5	64.00	63.55	64.64	64.19	64.61	64.24	63.75	64.09	63.46	63.90	63.67	64.49
6	63.95	63.53	64.73	64.10	64.68	64.20	63.75	64.19	63.41	63.99	e63.65	64.55
7	64.03	63.47	64.71	64.10	64.69	64.15	63.71	64.16	63.37	64.11	63.62	64.51
8	63.98	63.52	64.67	64.14	64.70	64.13	63.71	64.08	63.37	64.11	63.61	64.46
9	63.88	63.44	64.62	64.13	64.67	64.09	63.70	64.05	63.38	64.02	63.59	64.47
10	63.83	63.47	64.59	64.10	64.89	64.13	63.69	64.05	63.40	63.99	63.55	64.43
11	63.77	63.50	64.54	64.09	64.95	64.13	63.58	64.02	e63.37	63.97	63.60	64.36
12	63.80	63.57	64.54	64.08	64.98	e64.09	63.54	64.02	63.33	63.97	63.64	64.36
13	63.77	e63.57	e64.50	64.07	65.01	64.04	63.51	64.00	63.29	63.93	63.66	64.32
14	63.78	63.57	64.46	64.05	64.96	64.02	63.50	63.95	63.47	63.93	63.73	64.29
15	63.77	63.60	64.45	64.05	64.89	63.97	63.58	e63.91	63.57	63.93	63.70	64.28
16	e63.75	63.63	64.42	64.10	e64.82	63.93	63.55	e63.86	63.58	63.88	e63.69	64.25
17	63.72	63.67	64.35	64.14	64.77	63.93	e63.70	63.80	63.60	e63.84	63.67	e64.21
18	63.71	63.71	64.31	64.14	64.76	63.90	e63.90	63.74	e63.90	63.78	63.64	64.16
19	63.69	63.73	64.34	64.10	64.66	e63.95	64.11	63.72	64.38	63.78	63.84	64.18
20	e63.69	63.76	64.33	64.10	64.66	64.00	64.15	63.73	64.41	63.76	63.85	64.11
21	e63.68	63.74	64.35	64.11	64.64	64.04	64.13	63.69	64.33	63.76	63.85	e64.04
22	e63.67	63.93	64.38	64.10	64.55	64.12	64.15	63.61	64.29	63.77	64.11	e64.02
23	63.66	64.01	64.43	64.12	64.48	64.13	64.31	63.54	64.29	63.77	64.18	e64.03
24	63.61	64.07	64.35	64.05	64.41	64.12	64.33	63.58	64.25	63.75	64.18	64.05
25	e63.61	64.16	64.36	e64.12	64.36	e64.08	64.30	63.66	e64.20	63.79	64.17	64.37
26	e63.61	64.47	64.40	64.19	64.33	e64.03	64.25	63.70	64.12	63.83	64.12	64.66
27	e63.62	64.62	64.36	64.16	64.35	e63.97	64.20	63.64	64.09	63.79	64.08	64.68
28	e63.62	64.68	64.31	64.12	64.40	63.87	64.21	63.58	64.10	63.79	e64.25	64.67
29	63.62		64.31	64.15	64.36	63.81	64.23	63.55	64.07	63.80	64.51	64.77
30	63.60		64.26	64.14	e64.29	63.76	64.19	63.51	64.05	e63.78	64.56	64.86
31	e63.60		64.26		64.22		64.17	63.47		63.76		65.02

e Estimated.

Water level at end of day, above msl, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e65.00	64.19	63.98	64.18	63.50	64.21	63.99	63.81	63.40	63.15	62.81	62.60
2	65.01	64.16	64.03	64.20	63.48	64.95	64.04	63.78	e63.40	63.12	62.81	62.54
3	64.97	64.12	64.03	64.15	63.43	65.09	64.01	63.75	63.39	63.09	62.81	e62.54
4	64.91	64.09	64.05	64.14	63.42	65.10	63.99	63.74	e63.34	63.06	62.80	62.53
5	64.91	64.09	63.97	64.08	63.44	e65.03	63.97	63.74	e63.30	63.04	62.78	62.52
6	64.91	64.12	63.96	64.05	63.44	65.01	63.97	63.73	63.28	e63.03	62.76	62.49
7	64.89	64.07	63.95	64.03	63.42	64.93	63.96	63.79	63.28	63.02	62.76	62.49
8	64.80	64.03	63.98	e64.00	63.39	64.85	63.83	63.77	63.28	63.00	62.75	62.49
9	64.86	64.05	63.99	63.97	63.35	64.77	63.89	63.73	63.29	62.98	62.73	62.50
10	64.77	64.06	63.98	63.90	63.32	64.71	63.84	63.71	63.27	62.96	62.73	e62.50
11	64.77	64.02	63.96	63.88	63.32	64.72	63.76	63.69	63.24	62.95	62.73	e62.49
12	64.76	63.97	63.94	63.86	63.42	64.71	63.74	63.67	63.19	62.99	62.69	62.49
13	64.71	63.97	63.92	63.84	63.40	64.61	63.69	63.67	63.18	62.98	62.69	62.50
14	64.69	63.98	63.91	63.84	63.54	64.56	63.67	63.66	63.17	62.97	62.67	62.48
15	e64.62	63.90	63.94	63.85	63.62	64.50	63.60	63.61	63.17	62.85	62.67	62.46
16	64.54	63.92	63.94	e63.80	63.62	64.49	63.54	63.60	63.16	62.90	62.67	62.43
17	64.54	e63.91	63.95	63.75	63.76	64.48	63.49	63.66	63.12	62.90	62.67	e62.41
18	64.52	e63.90	63.98	63.74	63.86	64.39	63.44	63.71	63.10	62.91	62.68	62.39
19	64.41	e63.90	e63.96	63.71	63.91	64.33	63.39	63.73	63.08	62.89	62.68	62.36
20	e64.42	e63.89	63.94	63.69	63.91	64.33	63.35	63.67	63.06	62.89	62.66	62.42
21	64.43	63.89	63.92	63.68	e64.00	64.32	63.48	63.63	63.14	62.89	62.62	62.64
22	64.34	e63.86	e63.89	63.68	64.13	64.26	e63.95	63.60	63.15	62.88	62.71	62.65
23	64.31	e63.86	e63.88	63.66	64.13	64.22	e64.17	63.55	63.15	62.88	62.69	e62.64
24	64.33	e63.85	e63.88	63.63	64.11	64.20	64.24	63.53	e63.28	62.86	62.69	e62.62
25	64.28	63.84	63.91	63.62	64.09	64.11	64.19	63.52	63.28	62.85	62.67	e62.60
26	64.21	e63.83	64.07	63.63	64.08	64.05	64.11	63.50	63.23	62.85	e62.66	62.58
27	64.20	63.83	64.17	63.58	e64.25	64.00	64.04	63.47	63.20	63.85	62.65	62.57
28	64.19	63.93	64.18	63.57	64.34	63.98	64.03	63.42	63.17	62.86	62.63	62.55
29	64.13		64.19	63.56	64.33	63.99	63.98	63.40	63.18	62.86	62.60	62.60
30	64.21		64.16	63.53	64.32	64.00	63.91	63.41	63.22	62.86	62.60	62.60
31	64.26		64.16		64.26		63.86	63.40		62.83		62.59

e Estimated.

26. 21. 5. 4. 6--Continued.

Water level at end of day, above msl, 1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e62.63	62.90	62.58	e63.07	e63.46	e63.71	e63.30	e62.96	e62.69	e62.36	e62.05	e63.29
2	62.61	62.91	62.81	e63.08	e63.51	e63.67	e63.30	e62.91	e62.70	e62.32	e62.04	e63.27
3	e62.60	e62.91	62.80	63.10	e63.61	e63.62	e63.28	e62.90	e62.66	e62.30	e62.03	e63.24
4	e62.57	e62.90	62.78	e63.32	e63.70	e63.55	e63.26	e62.87	e62.64	e62.31	e62.15	e63.23
5	e62.56	62.90	62.79	e63.45	e63.77	e63.50	e63.24	e62.85	e62.66	e62.32	e62.62	e63.22
6	e62.55	62.87	e62.83	e63.58	e63.76	e63.47	e63.25	e62.82	e62.70	e62.31	e62.66	e63.17
7	e62.54	62.82	e62.89	e63.67	e63.75	e63.50	e63.22	e62.78	e62.73	e62.29	e62.70	e63.16
8	62.52	62.83	e62.93	e63.64	e63.74	e63.55	e63.24	e62.77	e62.70	e62.25	e63.13	e63.17
9	62.49	e62.82	e63.00	63.63	e63.73	e63.61	e63.27	e62.81	e62.65	e62.23	e63.17	e63.15
10	62.48	e62.80	63.09	e63.59	e63.72	e63.65	e63.26	e62.84	e62.62	e62.22	e63.20	e63.14
11	62.50	62.78	e63.09	e63.58	e63.71	e63.63	e63.27	e62.88	e62.59	e62.23	e63.22	e63.12
12	62.52	62.74	63.08	e63.57	e63.70	e63.59	e63.25	e62.85	e62.56	e62.25	e63.26	e63.08
13	62.56	62.72	e63.12	e63.57	e63.67	e63.57	e63.24	e62.80	e62.55	e62.25	e63.32	e63.07
14	e62.67	62.73	e63.18	63.57	e63.60	e63.60	e63.20	e62.75	e62.57	e62.23	e63.33	e63.07
15	62.71	62.77	e63.24	63.50	e63.56	e63.63	e63.14	e62.73	e62.58	e62.19	e63.32	e63.10
16	62.73	62.79	e63.27	e63.45	e63.51	e63.60	e63.09	e62.75	e62.60	e62.18	e63.30	e63.11
17	e62.76	62.75	e63.27	e63.44	e63.50	e63.54	e63.07	e62.78	e62.58	e62.18	e63.28	e63.12
18	e62.77	62.71	e63.24	e63.40	e63.50	e63.51	e63.07	e62.80	e62.55	e62.18	e63.25	e63.12
19	62.78	62.66	e63.21	e63.39	e63.50	e63.50	e63.08	e62.83	e62.53	e62.21	e63.22	e63.11
20	e62.80	62.66	e63.19	e63.39	e63.50	e63.48	e63.10	e62.86	e62.54	e62.19	e63.17	e63.09
21	e62.81	e62.64	e63.17	63.39	e63.53	e63.50	e63.15	e62.87	e62.55	e62.16	e63.17	e63.06
22	e62.81	e62.63	e63.14	e63.39	e63.56	e63.52	e63.25	e62.83	e62.54	e62.14	e63.18	e63.05
23	e62.81	e62.63	e63.14	63.39	e63.60	e63.44	e63.27	e62.82	e62.53	e62.13	e63.19	e63.05
24	e62.81	62.64	e63.13	e63.33	e63.61	e63.40	e63.26	e62.81	e62.51	e62.12	e63.21	e63.06
25	e62.81	62.58	e63.12	e63.31	e63.63	e63.35	e63.22	e62.76	e62.48	e62.13	e63.23	e63.07
26	e62.81	62.56	63.11	e63.30	e63.67	e63.34	e63.21	e62.72	e62.46	e62.15	e63.27	e63.09
27	63.00	62.52	e63.11	e63.30	e63.67	e63.29	e63.19	e62.70	e62.46	e62.13	e63.28	e63.10
28	e62.96	62.50	e63.07	e63.30	e63.66	e63.29	e63.15	e62.67	e62.46	e62.15	e63.28	e63.05
29	62.93		e63.06	63.34	e63.67	e63.29	e63.10	e62.65	e62.44	e62.16	e63.29	e63.01
30	62.87		e63.06	e63.40	e63.69	e63.30	e63.07	e62.65	e62.42	e62.15	e63.30	e63.00
31	62.85		e63.06		e63.70		e63.00	e62.67		e62.13		e63.00

e Estimated.

Water level at end of day, above msl, 1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e63.03	e62.98	e64.20	e64.18	e63.87	e64.93	e64.67	e63.97	e63.41	62.94	62.57	62.45
2	e63.10	e62.98	e64.25	e64.32	e63.86	e64.86	e64.64	e64.05	e63.43	62.95	62.57	62.43
3	e63.18	e62.97	e64.30	e64.40	e63.86	e64.83	e64.60	e64.20	e63.40	63.00	62.58	62.43
4	e63.22	e62.93	e64.32	e64.45	e63.82	e64.82	e64.56	e64.27	e63.35	62.96	62.56	62.47
5	e63.24	e62.88	e64.35	e64.46	e63.77	e64.83	e64.56	e64.27	e63.32	62.89	62.53	62.51
6	e63.25	e62.86	e64.38	e64.45	e63.74	e64.84	e64.61	e64.11	e63.27	62.75	62.55	62.53
7	e63.24	e62.86	e64.46	e64.40	e63.77	e64.80	e64.64	e64.01	e63.24	62.74	62.62	62.50
8	e63.23	e62.87	e64.47	e64.33	e63.80	e64.76	e64.56	e63.94	e63.20	62.77	62.61	62.46
9	e63.21	e62.87	e64.45	e64.28	e63.83	e64.73	e64.49	e63.86	e63.22	62.82	e62.59	62.44
10	e63.22	e62.84	e64.44	e64.24	e63.80	e64.63	e64.46	e63.81	e63.25	62.86	e62.56	62.38
11	e63.22	e62.82	e64.44	e64.22	e63.75	e64.56	e64.42	e63.87	e63.31	62.86	e62.54	62.40
12	e63.22	e62.80	e64.44	e64.25	e63.75	e64.57	e64.38	e63.80	e63.34	62.79	e62.52	62.48
13	e63.21	e62.77	e64.43	e64.21	e63.95	e64.62	e64.34	e63.74	e63.32	62.72	e62.50	62.47
14	e63.20	e62.86	e64.41	e64.21	e64.10	e64.55	e64.37	e63.64	e63.27	62.67	e62.49	62.38
15	e63.19	e62.94	e64.40	e64.25	e64.19	e64.50	e64.45	e63.58	e63.17	62.63	e62.47	62.38
16	e63.16	e63.02	e64.39	e64.26	e64.25	e64.50	e64.20	e63.53	63.15	62.66	e62.45	62.41
17	e63.15	e63.06	e64.35	e64.26	e64.35	e64.50	e64.03	e63.52	63.13	62.73	62.44	62.48
18	e63.14	e63.16	e64.30	e64.25	e64.36	e64.55	e63.95	e63.51	63.17	62.68	62.40	62.54
19	e63.14	e63.43	e64.25	e64.25	e64.35	e64.50	e63.87	e63.52	63.21	62.64	62.41	62.62
20	e63.13	e63.60	e64.25	e64.23	e64.33	e64.40	e63.91	e63.54	63.19	62.60	62.51	62.62
21	e63.12	e63.80	e64.25	e64.17	e64.32	e64.32	e63.95	e63.61	63.09	62.57	62.53	62.57
22	e63.11	e63.95	e64.25	e64.12	e64.31	e64.27	e64.01	e63.67	63.04	62.57	62.52	62.48
23	e63.10	e64.01	e64.20	e64.06	e64.30	e64.25	e64.05	e63.74	63.06	62.60	62.47	62.45
24	e63.09	e64.00	e64.14	e64.06	e64.32	e64.30	e64.07	e63.72	63.03	62.73	62.42	62.48
25	e63.09	e63.95	e64.09	e64.08	e64.40	e64.31	e64.12	e63.66	62.99	62.76	62.47	62.55
26	e63.09	e63.95	e64.09	e64.03	e64.60	e64.32	e64.17	e63.61	63.03	62.68	62.50	62.57
27	e63.06	e63.95	e64.11	e63.98	e64.63	e64.34	e64.18	e63.56	63.02	62.60	62.52	62.63
28	e63.05	e64.03	e64.14	e63.95	e64.64	e64.37	e64.12	e63.48	62.95	62.57	62.55	62.53
29	e63.02	e64.17	e64.15	e63.93	e64.65	e64.21	e64.10	e63.45	62.95	62.56	62.57	62.58
30	e62.99		e64.11	e63.89	e64.82	e64.20	e64.04	e63.42	62.95	62.58	62.51	e62.56
31	e62.98		e64.10		e64.96		e63.98	e63.40		62.63		e62.57

e Estimated.

26. 21. 5. 4. 6--Continued.

Water level at end of day, above msl, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e63.56	64.35	64.43	e64.16	64.52	63.99	61.98	62.30	61.66	61.52	61.55	61.25
2	e63.58	64.27	64.37	e64.18	64.41	63.68	e62.20	62.19	61.62	61.54	61.49	61.26
3	63.58	64.38	64.36	e64.19	64.37	63.58	e62.30	62.16	61.80	61.55	61.51	61.35
4	63.50	64.34	64.38	e64.21	64.28	e63.56	e62.45	62.15	61.97	61.54	61.48	61.50
5	63.72	64.39	64.56	e64.20	64.20	e63.55	e62.60	62.10	62.12	61.65	61.54	61.49
6	63.97	64.49	64.63	64.18	64.16	e63.55	62.76	62.22	62.00	61.65	61.68	61.35
7	63.97	64.50	64.54	64.16	64.31	63.59	62.71	62.37	61.85	61.57	61.59	e61.30
8	63.97	64.38	64.49	64.12	64.43	63.38	62.68	62.34	61.77	61.65	61.52	61.25
9	63.98	64.33	64.42	64.17	64.34	e63.19	62.87	61.96	61.67	61.80	61.46	61.18
10	63.97	64.35	64.37	64.20	64.23	63.00	63.12	61.66	61.77	61.83	61.45	61.33
11	63.89	64.18	64.35	64.28	64.14	63.23	63.15	61.54	61.89	61.66	61.42	61.47
12	63.87	64.31	64.46	64.20	64.08	63.46	62.92	61.43	61.89	e61.57	61.49	61.40
13	63.81	64.45	64.52	64.21	63.95	63.18	62.98	61.49	61.85	61.49	61.67	61.43
14	63.64	64.42	64.44	64.18	64.00	62.86	62.79	61.49	61.82	61.48	61.62	61.40
15	63.70	64.37	64.31	64.17	e63.95	62.66	62.79	61.98	61.78	61.55	61.45	61.35
16	63.81	64.35	64.24	e64.24	e63.90	62.50	62.90	61.82	61.71	61.71	61.37	61.29
17	63.70	64.23	64.20	e64.30	e63.85	62.56	63.19	61.86	61.77	61.67	61.37	61.37
18	63.61	64.19	64.20	e64.40	63.81	e62.70	63.09	61.86	61.86	61.58	61.34	61.43
19	63.67	64.35	64.18	e64.35	63.76	e62.83	62.87	61.82	61.86	61.48	61.41	61.44
20	63.54	e64.39	64.29	64.23	e63.82	62.94	62.60	61.93	61.73	61.43	61.59	61.40
21	63.74	64.42	64.27	64.17	e63.90	62.62	62.46	62.02	61.70	61.38	61.49	61.39
22	63.99	64.62	64.21	64.26	e63.99	62.38	62.35	62.00	61.67	61.51	61.37	61.38
23	64.15	e64.70	64.26	64.54	64.08	62.29	62.50	61.66	61.61	61.51	61.33	61.42
24	64.18	e64.80	64.18	64.54	63.92	62.21	62.63	61.45	61.64	61.46	61.40	61.47
25	64.00	e64.76	64.18	64.55	63.91	62.53	62.50	61.34	61.74	61.45	61.42	61.64
26	63.95	e64.72	64.34	64.49	e63.92	62.53	62.05	61.32	61.74	61.44	61.42	61.81
27	63.97	e64.69	64.48	64.40	e63.93	62.60	61.96	61.38	61.66	61.37	61.66	61.87
28	64.31	64.64	64.34	64.24	e63.95	62.28	61.78	61.65	61.64	61.37	61.60	61.77
29	64.42		64.26	64.16	e63.96	62.13	61.70	61.80	61.63	61.44	61.52	61.71
30	64.47		64.18	64.36	e63.97	62.03	62.00	61.72	61.63	61.61	61.31	61.71
31	64.49		64.16		e63.98		62.13	61.75		61.63		61.86

e Estimated.

Water level at end of day, above msl, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.99	e61.70	62.35	63.17	62.91	62.73	62.47	62.07	62.25	e62.35	61.84	62.65
2	62.11	e61.80	62.24	63.29	62.77	62.60	62.63	61.88	62.37	62.34	61.75	62.89
3	61.99	e61.85	62.21	e63.21	62.73	62.78	62.77	62.12	e62.47	62.27	61.70	e62.96
4	61.81	e61.90	62.34	e63.12	62.67	e62.78	62.84	62.21	e62.57	62.17	62.11	63.03
5	61.71	e61.99	62.62	62.99	62.74	62.79	62.70	62.45	62.67	62.06	62.31	62.88
6	61.71	e61.93	62.33	62.88	62.96	62.73	62.73	e62.53	62.52	62.05	62.26	62.82
7	61.74	e61.85	62.29	62.86	63.10	62.67	62.70	62.61	62.43	e62.12	62.19	62.91
8	61.80	e61.80	62.33	63.10	e62.97	62.61	62.72	62.47	62.35	e62.17	62.18	62.97
9	61.73	61.78	62.18	63.24	62.84	62.64	62.71	62.27	62.49	62.22	62.13	63.22
10	61.72	61.78	62.12	e63.20	62.78	62.73	e62.82	62.22	62.67	62.15	62.04	e63.28
11	61.59	61.89	62.40	e62.99	62.71	e62.67	62.93	62.09	62.49	62.06	62.18	63.33
12	61.54	62.08	62.51	62.88	62.73	62.61	63.17	62.31	62.31	62.07	e62.23	63.08
13	61.60	62.04	62.45	62.85	62.86	62.54	63.23	e62.37	62.27	62.01	62.28	63.06
14	61.68	62.11	62.27	62.73	62.93	62.52	62.42	62.33	62.09	62.17	63.09	
15	61.86	62.28	62.27	62.96	e62.79	62.51	63.13	62.02	62.33	e62.13	62.18	63.18
16	61.73	62.32	62.20	63.14	e62.66	62.48	e63.18	61.75	62.42	62.17	62.15	63.43
17	61.63	62.38	62.24	e63.01	62.54	e62.52	63.24	61.69	e62.49	62.10	62.08	e63.47
18	61.61	62.54	62.32	e67.84	62.52	e62.60	63.01	61.78	62.56	62.02	62.24	63.51
19	61.54	62.68	62.46	e62.68	62.51	62.67	62.83	62.17	62.47	62.01	e62.34	63.34
20	61.51	62.59	62.43	e62.63	62.62	62.50	62.73	62.54	62.37	61.91	62.41	63.24
21	61.68	62.48	62.38	e62.70	62.77	62.46	62.63	62.49	62.32	e62.00	62.23	63.22
22	61.83	e62.41	62.47	e63.79	62.65	62.31	62.68	62.41	62.34	e62.10	62.17	63.28
23	61.74	62.36	62.78	e62.91	62.57	62.31	e62.74	62.39	62.42	62.02	62.37	e63.33
24	61.59	62.35	62.77	62.84	62.48	62.43	62.80	62.34	e62.39	61.92	62.45	e63.40
25	61.55	62.49	62.92	62.78	e62.52	62.56	62.65	62.31	62.37	61.87	e63.00	e63.47
26	61.51	62.64	63.10	62.68	e62.60	62.51	62.56	62.48	62.26	61.78	e63.10	63.53
27	61.41	62.50	63.05	62.60	e62.68	62.35	62.46	e62.46	62.20	61.76	e62.95	63.34
28	61.65	62.43	62.92	62.63	e62.76	62.25	62.39	62.44	62.17	61.97	62.87	63.28
29	61.82		62.95	62.81	62.82	62.22	62.44	62.32	62.15	e62.00	62.80	63.35
30	61.73		62.93	63.04	62.96	62.27	e62.35	62.25	62.33	e61.95	62.73	63.59
31	61.63		62.93		62.86		62.26	62.29		61.90		63.70

e Estimated.

26. 21. 5. 4. 6--Continued.

Water level at end of day, above msl, from recorder graph, 1951												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e63.75	63.79	64.14	e65.00	e64.20	63.93	e63.55	63.13	62.42	62.07	62.24	63.22
2	63.73	63.61	64.06	e64.96	64.04	64.02	63.57	62.82	62.64	62.03	62.40	e63.18
3	63.51	e64.08	64.26	64.92	64.00	e64.10	63.58	62.61	e62.75	61.97	62.68	63.18
4	63.37	e63.90	64.52	64.86	63.92	64.03	63.82	62.88	62.93	62.00	e62.74	63.11
5	63.27	63.75	64.37	64.68	64.08	63.81	63.79	e63.10	62.76	62.04	62.80	63.11
6	63.52	63.69	64.30	64.60	64.22	63.68	63.67	63.13	62.74	62.19	62.81	63.02
7	63.78	63.86	64.32	64.73	64.05	63.59	63.63	63.01	62.66	62.59	63.17	62.96
8	63.53	63.76	64.22	64.83	63.87	63.50	63.64	62.92	62.83	62.51	63.02	63.11
9	63.38	63.66	64.11	64.59	63.78	63.72	63.59	62.84	62.97	62.33	62.99	e63.08
10	63.32	e63.60	64.27	64.40	63.63	63.89	63.29	62.90	62.75	62.32	63.23	63.05
11	63.24	e63.56	64.45	64.18	63.83	63.14	63.17	63.16	62.39	62.35	e63.20	63.08
12	63.19	e63.84	64.33	64.24	63.97	63.58	63.17	63.40	62.13	62.26	e63.17	63.01
13	e63.16	63.80	64.17	64.14	e63.93	63.55	63.09	63.30	62.18	62.36	63.14	62.83
14	e63.13	63.64	64.25	64.32	e63.89	63.61	63.23	63.12	62.30	62.54	63.07	63.01
15	e63.34	63.55	64.10	e64.33	e63.84	63.56	63.40	63.00	62.52	62.43	62.96	63.22
16	e63.49	63.56	63.95	64.33	e63.81	63.68	62.85	62.97	62.80	62.27	63.03	e63.20
17	e63.57	63.89	64.05	64.10	e63.78	e63.70	62.57	62.92	62.64	62.15	63.21	63.22
18	e63.54	63.89	64.19	64.05	e63.76	63.65	62.55	63.13	62.55	62.11	63.37	63.37
19	e63.52	63.89	64.15	64.10	e63.70	63.45	62.71	63.32	62.38	62.12	63.17	63.28
20	e63.50	63.83	64.25	e64.04	e63.65	63.32	62.49	63.27	62.31	62.30	63.00	63.48
21	e63.50	64.00	64.27	e64.00	63.62	63.19	62.83	63.16	62.00	62.48	62.97	63.82
22	e63.52	64.17	64.13	e64.10	63.44	63.13	63.18	62.99	62.35	62.32	63.33	64.02
23	63.55	64.18	64.28	e64.20	63.42	63.21	63.09	62.85	e62.36	62.24	63.42	e64.18
24	63.63	64.45	64.40	e64.40	63.49	e63.18	62.91	62.81	62.38	62.23	63.48	64.26
25	63.60	e64.47	64.58	e64.35	63.57	e63.15	62.80	63.12	62.30	62.19	e63.45	64.50
26	63.60	e64.62	e64.40	e64.27	63.87	e63.10	62.45	e63.08	62.20	62.21	63.42	64.17
27	e63.70	64.32	64.28	e64.22	e63.91	e63.15	62.13	e63.06	62.23	62.40	63.12	63.98
28	e63.85	64.12	64.14	e64.15	63.96	e63.25	62.96	63.05	62.11	e62.37	63.01	63.92
29	63.79		64.05	e64.40	63.92	e63.40	63.43	62.82	62.26	62.34	62.97	64.14
30	63.62		64.50	e64.45	64.15	e63.50	63.37	62.77	62.46	62.21	62.99	e64.13
31	63.75		e64.75		64.11		63.21	62.68		62.12		e64.32

e Estimated.

NEW YORK

Long Island

By J. F. Hoffman and J. J. Geraghty

Scope of Water-Level Program

The observation-well program in Long Island was continued in 1951 in cooperation with the Nassau County Department of Public Works, the Suffolk County Board of Supervisors, and the New York State Water Power and Control Commission. Water-level measurements were made in about 650 observation wells, 37 of which were equipped with recording gages. Measurements for 182 wells, including 28 equipped with recording gages, are included in this report.

The following reports have been issued:

- Lusczyński, N. J., Water levels at industrial wells in Jamaica, N. Y. (Typed report released to files of the U. S. Geological Survey.)
- Lusczyński, N. J. and Johnson, A. H., The water table in Long Island, N. Y., January 1951: New York State Water Power and Control Commission Bulletin GW-27.
- Lusczyński, N. J. and Hoffman, J. F., The water table in Southold Township, Suffolk County, N. Y., April 1950. (Duplicated report released to files of the U. S. Geological Survey.)
- Lusczyński, N. J., Preliminary report on the recovery of water levels in Brooklyn, N. Y., from June 1947 to December 1950. (Typed report released to files of the U. S. Geological Survey.)

The above, together with other published and unpublished water-level data, can be inspected at the office of the U. S. Geological Survey in Long Island and also at the offices of the cooperating agencies.

Precipitation

Precipitation on Long Island in 1951 averaged about 48 inches, approximately 4 inches above normal, at about 25 stations operated by the U. S. Weather Bureau and other agencies. Thus, part of the 10-inch deficiency of the previous two years was counteracted. The 1951 totals ranged from 43.86 inches at Orient at the eastern tip of the north fork in Suffolk County to 51.62 inches at Hempstead in central Nassau County. At the Battery station in New York City (longest continuous record near the western end of Long Island) 45.24 inches of precipitation, 2.25 inches above normal, was measured during the year; at the Setauket station (longest continuous record in eastern Long Island) 44.08 inches of precipitation, 1.01 inches below normal, was recorded. At the Riverhead Research station in eastern Suffolk County, 49.09 inches of precipitation, 6.74 inches above normal, was noted. In general, precipitation was normal to above normal from January through May and also from October through December, and below normal from June to September.

Pumpage

According to information furnished by the New York State Water Power and Control Commissioner, the Nassau County Department of Public Works, and other sources, the gross withdrawal of ground water from the water-bearing formations in Long Island averaged about 215 million gallons daily in 1951. Of this amount, about 120 million gallons daily was pumped for public supply, and about 68 million gallons daily for industrial uses; the remainder was for agricultural and miscellaneous uses. Pumpage in Long Island in 1951 was appreciably less than in the preceding 2 years. This was principally because the City of New York reduced withdrawals from its pumping installations in Nassau and Queens Counties from about 55 million gallons daily in 1949 and about 50 million gallons daily in 1950 to only about 4 million gallons daily in 1951. In addition, according to Water Power and Control Commission estimates, daily withdrawals for agricultural uses, mainly in Suffolk and Queens Counties, were about 9 million gallons less in 1951 than in 1949. By counties, the greatest withdrawal, amounting to about 41 percent of the total, was made in Nassau. Of the remainder, about 25 percent was made in Queens, about 21 percent in Suffolk, and about 13 percent in Kings. By aquifers, about 55 percent of the withdrawals were made from deposits of late Pleistocene age, about 5 percent from the Jameco gravel, about 30 percent from the sands of the Magothy (?) formation, and about 10 percent from

the Lloyd sand member of the Raritan formation. Recharge of used water to underground formations in 1951 averaged about 105 million gallons daily (about 70 million gallons daily of water returned by cesspools, septic tanks, leaching basins, etc., and about 35 million gallons daily of water pumped for cooling and similar purposes). As a result the net withdrawals were about 110 million gallons daily in 1951 in Long Island.

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, is found chiefly in the western part of the island and usually is covered by the Gardiners clay, an interglacial deposit. The third aquifer, the Magothy (?) formation of Late Cretaceous age, consists of widespread beds of sand, gravel, and clay. Over most of the island, this formation is in direct contact with the overlying beds of outwash of Pleistocene age, but in the western part, is covered by either the Gardiners clay or the Jameco gravel. Except for a persistent coarse zone in the lower part of the formation, there are no other well-delineated water-bearing zones recognized, and producing wells may be screened at various depths throughout the remainder of the formation. The fourth and lowermost aquifer, the Lloyd sand member of the Raritan formation, also of Late Cretaceous age, lies just above the bedrock floor of the island and almost everywhere is covered by the thick clay member of the Raritan formation. The Lloyd sand member consists of beds of sand and gravel and underlies most of Long Island. The shallow-lying outwash of upper Pleistocene age constitutes a vast reservoir into which water derived from precipitation can readily sink and from which water can be readily and economically withdrawn. The fluctuation of the water table in these deposits chiefly reflects changes in the rate of precipitation. However, in localities where the safe yield has been exceeded, water levels respond more to changes in the rate of pumping than to changes in the rate of precipitation. In contrast, the water in the deeper sands that lie beneath clay beds is under artesian pressure and is recharged at a more or less constant rate (through relatively small intake areas) by water percolating down from the overlying formations. Fluctuations of water levels in wells that penetrate the deeper sand, 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 average rate of precipitation, whereas the safe yield of the deeper beds is limited by the capacity of the beds to receive and transmit water from the area of recharge to points of withdrawal. Fluctuations of water levels in the water-table and artesian formations on Long Island express changes in storage in the aquifers resulting from variations in the difference between replenishment and discharge. Storage increases and water levels rise when recharge exceeds discharge. Conversely, when discharge exceeds recharge, water levels decline as storage decreases.

The configuration of the water table in Long Island may be divided into two main hydrologic provinces, namely, (1) western Long Island and (2) central and eastern Long Island. In western Long Island, excessive pumping during years prior to 1947 lowered the water table below sea level in a large area of Kings County and adjacent parts of Queens County. In the overdeveloped area in western Long Island, the water table responds more or less rapidly to changes in the pumpage distribution and pattern as well as to the over-all rate of withdrawal, whereas in other parts of the island, the major fluctuations are chiefly the result of variations in precipitation, evaporation, and transpiration. In Kings County (Brooklyn) in western Long Island, the water table and artesian levels recovered in 1951 at faster rates than in the previous 2 years. Rises of as much as 3 feet were measured during the year in some sections. This is a continuance of the upward trend of water levels in Brooklyn since 1947 when a private company shut down permanently its entire plant from which about 27 million gallons daily had been previously pumped. At well K30 (fig. 19) in the heart of the industrialized northwestern section of Brooklyn, the recovery of water levels totaled 3.4 feet in 1951 and 12.2 feet since June 1947 from which date water levels have been rising almost uninterruptedly. Before 1947 ground-water levels were above sea level only in the extreme southern sections. The recovery during the past 4½ years ranged from 8 to 13 feet in the northern sections and average more than 17 feet in central Brooklyn. Thus the water table in December 1951 was above sea level, by as much as 4 feet, in more than the entire southern half of Brooklyn.

The water table in central and eastern Long Island was slightly above normal stages in December 1951 and about 1 foot above the previous year's levels. Ground-water levels in these sections were at practically the same stages as in 1946 and 1947, indicating a very small net change in storage during the intervening five years. Perennial recharge exceeds withdrawals substantially, and consequently, the water table continues to remain above sea level at all but a few places along the shore line where only very local overdevelopment has occurred. The water table is as high as 80 feet above sea level in central Nassau County. The general trend of ground-water levels in central Long Island is expressed satisfactorily by the average water level of 14-selected wells in Nassau and Suffolk Counties (fig. 19). These wells are N1255, N1256, N1259, N1263, N1614, N1615, N1616, S1803, S1805, S1806, S1807, S1808, S1809, and S1810. During 1951 the average water level in these wells rose 0.65 foot to a stage of 46.38 feet above mean sea level, which is slightly above normal for December. The net drop in the average level since December 1946 was only 0.07 foot for the 14-selected wells. Appreciable improvement in ground-water conditions was noted in the north and south forks of eastern Suffolk County.

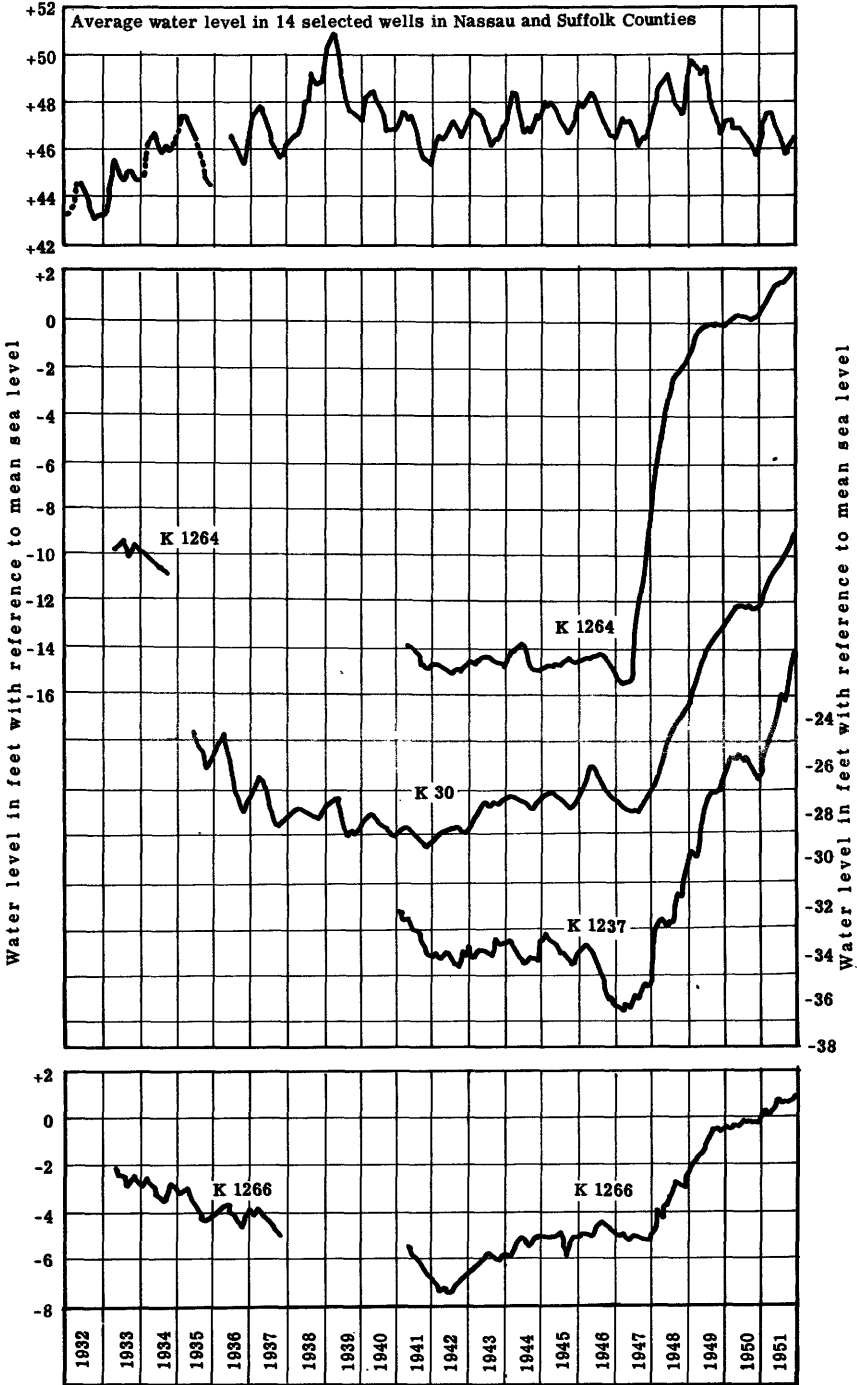


Figure 19. --Water levels in selected water-table wells, Long Island, New York.

There are approximately 100 artesian observation wells on Long Island. Most of these are public-water supply, industrial, and agricultural wells in which measurements are made when the wells are not in use; at these wells, systematic readings cannot be obtained conveniently. In general, water levels rose during 1951 in the Jameco gravel and in the sands of the Magothy (?) formation, the two uppermost artesian formations. But in the Lloyd sand member, the deepest aquifer on Long Island, water levels show a net decline at many observation wells. Readings have been taken at the following artesian wells which were either unused or constructed primarily for observational purposes:

Jameco gravel	Sands of the Magothy (?) formation			Lloyd sand member of the 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	N2071	Q1222
Q1152	N1244	*N2635	S4828	*Q64	S202
*Q1237				*Q273	*S6409

* Equipped with recording gage.

Acknowledgments

Acknowledgment is hereby made to the Superintendent of the Riverhead Water Supply for maintaining weekly recording gages at wells S4134 at Riverhead and S4271 at Baiting Hollow; and to the Superintendent of the Village of Greenport Water Supply for water-level readings at several wells in the vicinity of Greenport.

Well-Numbering System

Observation wells on Long Island are numbered by the New York State Water Power and Control Commission. The letter prefixing the number is the initial letter of the county in which the well is situated; the number has no geographical significance in that Long Island wells are numbered more or less with respect to the order of drilling since about 1935.

The tables presented below include a summary of data pertaining to ground-water levels for Long Island and the net change in water levels during 1951.

Summary of data on ground-water levels on Long Island
(in feet, with reference to mean sea level)

Well No.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level on last date of record in 1951.
K19	Sept. 10, 1940	-9.77	Dec. 30, 1951	-26.80	Sept. 26, 1941	-9.80
K30	June 14, 1935	-15.70	Dec. 31, 1951	-29.75	Nov. 8, 1941	-15.70
K65	Nov. 8, 1937	-15.96	Dec. 20, 1951	-28.34	Aug. 25, 1939	-15.96
K67	Nov. 8, 1937	-13.14	Dec. 20, 1951	-20.91	Sept. 15, 1947	-13.14
K92	Dec. 11, 1937	-11.99	Dec. 20, 1951	-29.69	Dec. 11, 1937	-11.99
K97	Apr. 5, 1944	-12.15	Dec. 20, 1951	-26.58	Oct. 27, 1944	-12.15
K196	Sept. 12, 1942	+4.89	Dec. 19, 1951	-4.76	Mar. 5, 1944	+4.89
K501	June 30, 1947	+3.93	Dec. 19, 1951	-4.80	June 30, 1947	+3.93
K519	June 24, 1947	-8.83	Dec. 30, 1951	-18.78	June 30, 1947	-8.83
K523	Mar. 6, 1944	+3.80	May 28, 1951	-1.91	Feb. 6, 1945	+3.80
			Dec. 19, 1951			
K525	Dec. 13, 1945	+5.35	June 6, 1949	+4.6	Mar. 10-13, 1947	+5.19
K539	May 3, 1932	+2.24	Dec. 20, 1951	-8.28	Feb. 21, 1942	+2.24
K889	June 4, 1945	-16.98	Dec. 20, 1951	-39.01	Jan. 25, 1947	-16.98
K1194	Nov. 2, 1940	-6.1	Dec. 20, 1951	-8.36	Feb. 28, 1942	-6.1
					Mar. 7, 1942	
K1198	Nov. 2, 1940	+2.0	Dec. 20, 1951	-8.45	May 14, 1942	+2.0
K1199	Nov. 16, 1940	-4.92	Dec. 20, 1951	-17.17	Jan. 1, 1944	-4.92
K1235	Jan. 25, 1941	-1.67	Dec. 20, 1951	-10.65	June 27, 1942	-1.67
K1236	Jan. 25, 1941	-7.69	Nov. 28, 1951	-19.42	Oct. 4, 1941	-7.75
K1237	Jan. 18, 1941	-21.08	Dec. 20, 1951	-36.53	Jan. 24, 1947	-21.08
K1263	Apr. 21, 1933	+3.27	Dec. 19, 1951	-11.97	July 21, 1936	+3.27
K1264	Apr. 21, 1933	+2.06	Nov. 28, 1951	-15.56	Apr. 3, 1947	+1.71
					May 7, 1947	

Summary of data on ground-water levels on Long Island--Cont'd.

Well No.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level on last date of record in 1951
K1265	Apr. 21, 1933	-0.93	Dec. 27, 1949	-11.55	Aug. 22, 1942	.....
K1266	Apr. 21, 1933	+1.00	Dec. 20, 1951	-7.49	June 27, 1942	-1.00
K1296	Sept. 6, 1941	+2.10	Dec. 26, 1951	-8.27	Mar. 7, 1942	+2.10
K1347	Oct. 15, 1942	-13.71	Dec. 20, 1951	-24.16	Sept. 10, 1945	-13.71
K1495	Nov. 5, 1936	+4.09	May 28, 1951	+1.80	Aug. 13, 1947 Dec. 17, 1947	+3.87
K1516	June 30, 1947	-.68	Dec. 19, 1951	-21.56	June 30, 1947	-.68
K1591	June 27, 1947	+1.52	Dec. 20, 1951	-2.10	Oct. 27, 28, 1947	+1.52
N7	July 24, 1936	+12.75	Mar. 9, 1941	+1.07	Aug. 6, 7, 1951	+6.03
N9	July 3, 1936	+23.57	Sept. 23, 1938	+20.99	Sept. 11, 1936	+22.08
N53	Jan. 21, 1934	+16.49	Apr. 15, 1939	+12.05	Feb. 17, 1940	+14.06
N87	Mar. 16, 1932	+15.51	Dec. 5, 1946	+10.42	Aug. 2, 1949	.....
N157	Sept. 22, 1932	+88.84	Oct. 31, 1939	+75.71	May 5, 1933	+82.08
N180	Oct. 30, 1945	+21.04	Mar. 11, 1949	+17.28	Dec. 25, 1949 Jan. 20, 1950	+19.87
N511	Jan. 9, 1947	+21.52	Dec. 31, 1948	+18.23	Aug. 1, 1950	+19.68
N575	Nov. 30, 1946	+60.22	Apr. 26, 1949	+52.44	Aug. 1, 1950	+55.07
N657	Feb. 12, 1945	+15.51	Nov. 25, 1950	+12.95	Jan. 29, 1946	+14.55
N844	Oct. 3, 1939	+85.48	Aug. 5, 1939	+78.87	Apr. 16, 1942	+80.12
N1102	Apr. 21, 1939	+58.94	May 31, 1949	+53.81	July 31, 1942	+55.14
N1104	Apr. 21, 1939	+61.88	May 31, 1949	+55.27	May 1, 1942	+58.30
N1108	Apr. 21, 1939	+43.62	Apr. 28, 1939	+36.94	Jan. 30, 1942	+37.57
N1109	Apr. 21, 1939	+30.04	Apr. 21, 1939	+24.42	Sept. 26, 1951	+27.23
N1110	Apr. 21, 1939	+21.05	Apr. 21, 1939 June 6, 1946	+18.68	Dec. 1, 1941	+20.18
N1111	Apr. 21, 1939	+14.79	June 6, 1946	+11.62	Oct. 25, 1947	+13.70
N1113	Apr. 21, 1939	+7.99	Jan. 6, 1949	+3.65	Sept. 26, 1951	+5.84
N1121	May 28, 1943	+64.68	Oct. 31, 1949	+59.13	Dec. 20, 1951	+59.13
N1132	Apr. 2, 1938	+9.77	Sept. 23, 1938	+6.06	Feb. 24, 1940	+8.00
N1147	Jan. 6, 1939	+19.72	Apr. 8, 1939	+16.48	Nov. 1, 1950	+18.33
N1167	Mar. 12, 1938	+12.12	Mar. 25, 1948	+9.34	Dec. 27, 1949	+11.14
N1185	Apr. 2, 1938	+15.39	Apr. 8, 1939	+10.01	Dec. 28, 1949	+12.86
N1204	Jan. 6, 1939	+12.26	Apr. 8, 1939	+5.07	Jan. 26, 1950	+12.24
N1212	Jan. 1, 1943	+88.94	Sept. 28, 1949	+83.72	Jan. 20, 1943	+84.17
N1222	Jan. 6, 1939	+9.67	Apr. 8, 1939	+1.27	Jan. 31, 1942	+9.38
N1240	Jan. 6, 1939	+11.29	Apr. 8, 1939	-1.08	Jan. 24, 1942	+10.70
N1244	May 31, 1940	+76.50	May 31, 1940	+71.07	June 4, 1951	+71.66
N1245	Feb. 2, 1940	+82.88	Feb. 2, 1940	+75.63	June 4, 1951	+76.21
N1246	May 31, 1940	+82.18	Aug. 29, 1949	+76.85	Apr. 24, 1951	+77.35
N1247	Apr. 21, 1939	+76.98	July 28, 1939	+70.52	July 31, 1942	+70.71
N1249	Apr. 21, 1939	+58.18	Apr. 21, 1939	+50.34	Jan. 30, 1942	+52.24
N1250	Apr. 21, 1939	+49.64	Apr. 21, 1939	+43.20	Jan. 30, 1942	+45.00
N1251	Apr. 21, 1939	+40.54	Apr. 29, 1944	+35.57	Jan. 30, 1942	+37.35
N1252	Apr. 21, 1939	+26.29	June 5, 1946 May 30, 1948	+22.48	Jan. 30, 1942	+24.93
N1253	Jan. 6, 1939	+16.89	Apr. 8, 1939	+11.31	Jan. 31, 1942	+15.41
N1254	Apr. 21, 1939	+4.68	July 20, 1948	+2.35	Dec. 29, 1949	+4.03
N1255	May 12, 1913	+65.59	Apr. 15, 1939	+58.39	Oct. 30, 1951	+59.11
N1256	May 12, 1913	+80.97	May 20, 1939	+70.30	Feb. 27, 1933	+75.71
N1259	Feb. 5, 1909	+56.43	Apr. 29, 1939	+47.83	Jan. 24, 1933	+52.09
N1263	Nov. 3, 1911	+54.98	Apr. 22, 1939	+46.22	Oct. 31, 1932	+50.79
N1264	Mar. 7, 1932	+9.41	Apr. 8, 1939	+2.70	Feb. 17, 1940	+8.85
N1461	Apr. 27, 1943	+79.97	June 6, 1949	+74.34	Oct. 10, 1943	+75.44
N1462	May 6, 1943	+66.66	May 24, 25, 1949	+61.26	Nov. 1, 1947	+63.22
N1463	May 6, 1943	+41.68	Mar. 11, 12, 1949	+36.61	Oct. 28, 1947 Nov. 3, 1947	+39.09
N1464	May 13, 1943	+17.59	Apr. 29, 1944	+12.22	Jan. 26, 1950	+16.53
N1613	June 8, 1940	+24.56	July 28, 1948	+20.83	Sept. 28, 1951	+22.83
N1614	Apr. 2, 1913	+72.48	May 31, 1949	+61.90	Feb. 27, 1933	+65.92
N1615	Mar. 17, 1913	+47.17	Mar. 28, 1939	+41.49	Oct. 27, 1932	+43.97
N1616	Mar. 17, 1913	+85.42	June 1, 1939	+74.05	Feb. 27, 1933	+79.85
N1828	Jan. 7, 1939	+63.29	May 31, 1949	+57.80	Dec. 19, 1950	+58.50
N1829	Mar. 5, 1938	+69.39	Sept. 15, 1944	+66.00	Jan. 29, 1951	+66.97
N1830	Jan. 6, 1939	+54.23	May 31, 1949	+49.05	June 7, 1942	+50.15
N2052	Mar. 14, 1946	+33.71	Oct. 31, 1951	+29.71	Mar. 14, 1946	+32.86
N2071	Feb. 12, 1946	+14.62	Mar. 15, 1946	+5.37	June 28, 1949	+9.90

Summary of data on ground-water levels on Long Island--Cont'd.

Well No.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level on last date of record in 1951
N2400	July 7, 1947	+74.10	Sept. 30, 1949	+70.04	Feb. 28, 1951	+70.10
N2528	Dec. 4, 1947	+72.16	June 5, 6, 1949	+68.03	Jan. 22, 30, 1951	+68.90
N2635	July 16, 1948	+27.30	May 23, 1949	+23.77	Jan. 22, 23, 1951	+25.32
N2790	Feb. 11, 1950	+5.95	Mar. 14, 1951	+3.00	July 4, 1950	+4.85
Q64	Mar. 26, 1947	-1.68	Dec. 21, 1951	-68.90	Nov. 2, 1947	-1.89
Q273	Mar. 15, 1935	+8.47	Apr. 20, 1939	+1.12	Mar. 21, 1942	+3.58
Q278	June 4, 1946	+5.11	Nov. 29, 1946	-6.86	July 25, 1951	-6.45
Q283	June 10, 1946	-2.73	Feb. 28, 1951	-10.26	Sept. 3, 1947 Sept. 27, 1951	-8.00
Q350	Mar. 17, 1937	+3.51	Apr. 29, 1939	- .74	Feb. 7, 10, 11, 1948	+1.97
Q470	Sept. 21, 1933	+6.78	Jan. 8, 1938	-12.75	July 15, 1937	- .75
Q471	Mar. 31, 1939	+17.45	Sept. 30, 1946	+13.69	Mar. 31, 1939	+15.16
Q1027	Jan. 1, 1942	+8.30	May 7, 1949	+4.08	Mar. 20, 1942	+7.40
Q1089	Oct. 10, 1911	+4.04	Sept. 23, 1938	- .42	Oct. 17, 1932	+2.46
Q1152	June 27, 1947	+2.22	May 31, 1951	-6.12	Mar. 28, 1950	- .49
Q1222	Apr. 1, 1940	+4.35	Dec. 1, 1945	-9.19	Feb. 28, 1942	+ .85
Q1225	Apr. 20, 1933	+32.19	Apr. 4, 1939	+23.91	Feb. 26, 1951	+24.77
Q1237	Feb. 10, 1939	+5.03	Apr. 30, 1939 May 4, 1939	-6.92	Mar. 26, 1950	- .14
Q1248	Oct. 12, 1940	+38.16	May 31, 1949	+33.10	Oct. 30, 1951	+33.14
Q1249	Oct. 19, 1940	+33.41	Sept. 26, 1946	+26.07	Oct. 30, 1951	+26.29
Q1250	Oct. 19, 1940	+22.52	Aug. 31, 1948	+17.33	Dec. 19, 1950	+18.99
Q1251	Oct. 19, 1940	+14.25	Feb. 24, 1949	+8.71	Nov. 28, 1950	+10.53
Q1252	Oct. 26, 1940	+13.92	Nov. 2, 1948	+9.66	Nov. 28, 1950	+10.36
Q1253	Nov. 2, 1940	+4.58	Apr. 26, 1941	+ .53	Feb. 26, 1951	+1.23
Q1254	Oct. 26, 1940	+ .29	Apr. 12, 1941	-5.34	Jan. 31, 1951	-4.35
Q1255	Oct. 12, 1911	+12.03	May 12, 1914	-6.30	Nov. 3, 1947	-2.97
Q1256	Oct. 26, 1940	-1.70	Apr. 26, 1950	-6.98	Mar. 14, 1942	-1.77
Q1281	Oct. 11, 1911	+8.59	June 4, 1913	-3.62	Mar. 7, 1942	- .33
Q1283	Oct. 12, 1911	+13.33	Nov. 10, 1911	+1.75	Dec. 30, 1948	+3.90
S58	Aug. 14, 1944	+24.94	Jan. 10, 1949	+22.32	Oct. 6, 1951	+24.15
S202	Nov. 25, 1936	+47.17	Apr. 10, 1937	+36.93	Feb. 1, 1939	+40.11
S203	Nov. 13, 1936	+77.13	Oct. 31, 1939	+69.92	Dec. 17, 1951	+69.92
S929	Sept. 29, 1949	+2.59	Apr. 26, 1951	+ .98	June 27, 1950	+1.57
S1803	Oct. 18, 1912	+18.19	Apr. 22, 1913	+14.93	Oct. 25, 1941	+16.53
S1805	Oct. 16, 1912	+47.01	Apr. 8, 1939	+37.90	Oct. 27, 1932	+40.78
S1806	Oct. 18, 1912	+61.69	Apr. 22, 1939	+50.61	Jan. 5, 1933	+53.84
S1807	Oct. 19, 1912	+23.48	Oct. 14, 1938	+20.59	Sept. 12, 1932	+21.79
S1808	Oct. 21, 1912	+12.94	Sept. 23, 1938	+9.45	Sept. 12, 1932	+11.45
S1809	Oct. 21, 1912	+32.56	Apr. 15, 1939	+25.00	Nov. 2, 1932	+27.80
S1810	Oct. 21, 1912	+56.19	Apr. 29, 1939	+45.24	Feb. 23, 1933	+49.64
S1811	Feb. 28, 1937	+55.56	Apr. 20, 1940	+51.41	Aug. 28, 1941	+52.50
S1814	Nov. 4, 1939	+38.96	July 29, 1948	+34.50	Jan. 25, 1951	+35.47
S1817	Dec. 2, 1939	+53.95	June 1, 1940	+49.66	Oct. 30, 1951	+50.63
S2146	Aug. 31, 1950	+3.33	Mar. 15, 1951	+2.50	Jan. 11, 1951	+2.95
S2314	Mar. 27, 1943	+61.68	May 25, 1949	+57.63	Dec. 17, 1951	+57.63
S2455	June 23, 1933	+24.85	Sept. 23, 1938	+19.98	Nov. 6, 1937	+22.05
S3496	Nov. 2, 1942	+50.76	July 7, 1949	+45.79	Feb. 21, 1951 Mar. 27, 1951	+46.99
S3513	Apr. 24, 1942	+64.19	July 4, 5, 1949	+59.86	Feb. 15, 21, 23, 1948	+60.73
S3514	May 15, 1942	+68.26	Sept. 28, 1949	+64.23	Mar. 18, 26, 1951	+65.75
S3516	Mar. 5, 1907	+40.26	June 29, 1948	+35.29	Dec. 21, 1950	+36.16
S3517	Apr. 2, 1907	+14.02	Mar. 28, 1949	+11.60	Dec. 4, 1909	+12.50
S3526	Jan. 30, 1943	+30.52	Dec. 30, 1948	+25.73	Jan. 25, 1951	+26.52
S3532	Apr. 21, 1907	+51.95	June 8, 1908	+45.23	Feb. 23, 1951	+45.68
S3535	Aug. 13, 1907	+21.84	May 11, 1949	+17.51	Feb. 23, 1951	+18.12
S3537	Jan. 11, 1908	+16.72	Mar. 28, 1949	+14.09	Jan. 23, 1951	+14.69
S3539	Apr. 12, 1907	+26.72	June 5, 1908	+21.33	Mar. 28, 1951	+21.88
S3543	Mar. 18, 1907	+19.65	May 23, 1949	+15.18	Feb. 27, 1951	+16.08
S3545	Mar. 12, 1907	+38.41	Apr. 27, 1949	+33.51	Jan. 25, 1951	+34.29
S3728	May 28, 1943	+23.67	Mar. 30, 1949	+19.41	Dec. 21, 1951	+19.41
S3729	Sept. 10, 1943	+31.40	Apr. 27, 1949	+27.34	Apr. 4, 1947	+27.37
S3730	Sept. 21, 1943	+37.67	May 24, 1949	+33.04	Feb. 26, 1951	+33.64
S3737	Aug. 17, 1943	+58.82	July 28, 1949	+54.33	Feb. 20, 1951	+55.42
S3739	July 20, 1943	+30.04	Mar. 28, 1949	+26.33	Dec. 29, 1950	+27.44

Summary of data on ground-water levels on Long Island--Cont'd.

Well No.	Date of first measurement	Highest water level	Date	Lowest water level	Date	Water level on last date of record in 1951
S3868	June 26, 1944	+40.13	Dec. 4, 1949	+36.21	Jan. 22, 1951	+37.53
S3869	June 22, 1944	+57.24	July 5, 1949	+52.97	Jan. 22, 1951	+53.65
S3870	June 16, 1944	+56.85	July 6, 1949	+52.84	Feb. 20, 1951	+53.34
S3871	June 15, 1944	+50.19	July 26, 1949	+45.84	Feb. 26, 1951	+47.37
S3955	May 31, 1944	+55.78	Aug. 25, 1949	+51.40	Mar. 28, 1951	+53.36
S3956	May 31, 1944	+33.64	Aug. 25, 1949	+30.29	Mar. 28, 1951	+31.90
S3978	Sept. 29, 1949	+1.23	Feb. 21, 1951	- 30	Dec. 29, 1949	+ .48
S4134	Mar. 10, 1945	+13.83	Apr. 7, 1949	+11.33	Nov. 23, 1950	+12.77
S4268	Aug. 2, 1945	+50.57	Oct. 5, 1949	+46.65	Mar. 27, 1951	+47.96
S4270	Aug. 1, 1945	+55.41	May 25, 1949	+49.86	Feb. 19, 1951	+50.87
S4271	Aug. 2, 1945	+11.41	June 2-6, 1949	+9.12	Sept. 10-12, 1950	+10.08
S4524	Aug. 2, 1945	+8.61	Mar. 31, 1949	+5.52	Nov. 2, 1950	+6.67
S4526	Aug. 2, 1945	+10.55	May 24, 1949	+7.47	Dec. 28, 1950	+8.63
S4530	Aug. 2, 1945	+18.38	Apr. 26, 1949	+13.91	Dec. 28, 1950	+15.65
S4827	Dec. 4, 1946	+58.16	Nov. 29, 1949	+54.23	May 28, 1951	+54.69
S4828	Dec. 4, 1946	+69.45	Jan. 30, 1950	+65.22	Dec. 17, 1951	+65.22
S4829	Sept. 30, 1946	+40.60	Aug. 24, 1949	+36.74	Apr. 4, 1951	+37.54
S5517	Apr. 28, 1948	+45.27	May 23, 27, 28, 1949 June 6, 1949	+39.60	Feb. 4-6, 8, 9, 1951	+40.26
S6400	July 28, 1948	+47.00	May 12, 1949	+40.97	Jan. 26, 1951	+41.68
S6409	Feb. 2, 1949	+34.68	June 22, 1949	+31.46	Feb. 15, 1951	+32.41
S6410	Nov. 4, 1948	+47.38	July 14, 1949	+42.59	Feb. 25, 26, 28, 1951 Mar. 1-7, 1951	+43.23
S6411	Nov. 5, 1948	+31.51	Sept. 22, 1949	+28.39	Apr. 4, 1951	+29.12
S6435	Jan. 24, 1949	+22.11	June 8, 1949	+19.05	Feb. 26, 1951	+19.60
S6441	Jan. 26, 1949	+38.46	Mar. 16, 1949	+34.42	Nov. 24, 1950	+36.59
S6524	July 13, 1949	+2.41	Apr. 26, 1951	+ .66	Feb. 1, 1950	+1.75
S6532	Aug. 15, 1949	+4.22	July 3, 1951	+1.95	Feb. 27, 1950	+2.76
S6542	July 14, 1949	+5.30	July 14, 1949	+3.22	Nov. 2, 1950	+4.25
S6558	July 14, 1949	+4.79	Apr. 27, 1951	+2.78	June 27, 1950	+3.82
S6780	Sept. 6, 1949	+4.19	June 5, 1951	+2.77	June 26, 1950	+3.70
S7267	July 14, 1949	+6.06	July 14, 1949	+3.58	Aug. 30, 1950	+4.72
S7283	Jan. 11, 1949	+3.42	Apr. 1, 1949	+1.28	Jan. 28-31, 1950 Feb. 1, 2, 1950	+2.37
S8831	Aug. 15, 1950	+7.36	May 31, 1951	+6.23	Oct. 31, 1950	+7.23
S8834	Aug. 16, 1950	+11.03	May 31, 1951	+9.58	Dec. 26, 1950	+10.33
S8835	Aug. 31, 1950	+8.70	June 29, 1951	+6.95	Jan. 23, 1951	+7.57
S8836	July 31, 1950	+6.90	May 31, 1951	+5.61	Jan. 23, 1951	+6.27
S8837	Aug. 1, 1950	+7.89	May 31, 1951	+6.92	Dec. 26, 1950	+7.66
S8839	Aug. 16, 1950	+7.38	May 31, 1951	+6.29	Jan. 23, 1951	+7.14
S8912	Oct. 30, 1947	+35.61	Mar. 30, 1949	+32.90	Jan. 27, 1948	+33.84

Net change in water level in wells on Long Island, 1951

Well No.	Net change (feet)	Well No.	Net change (feet)	Well No.	Net change (feet)	Well No.	Net change (feet)				
K19	J	+3.17	K1198	+1.49	N9	M	+0.72	N1113	+0.26		
K30		+3.46	K1199	+1.22	N53		+1.62	N1121	-1.72		
K65		+3.00	K1235	+ .54	N67	L	....	N1132	+1.03	
K67		+2.17	K1236	+ .81	N157	M	-1.55	N1147	+1.62		
K92		+1.41	K1237	+5.30	N180	M	+ .68	N1167	+ .69		
K97		+2.77	K1263	+1.16	N511	L	- .60	N1185	+ .92		
K196		+ .99	K1264	+1.43	N575	M	+ .49	N1204	+ .97		
K501		+ .89	K1265	N657	L	+ .20	N1212	M	- .61	
K519	J	+2.04	K1266	+ .78	N844	M	- .24	N1222	+ .55		
K523	J	+ .68	K1296	+1.07	N1102		- .63	N1240	+ .50		
K525	J	+ .50	K1347	+3.36	N1104		+ .91	N1244	M	- .55	
K539		+1.09	K1495	+ .71	N1108		+ .50	N1245	M	-1.07	
K889		+7.03	K1516	+1.82	N1109		+2.24	N1246		- .28	
K1057	L	- .70	K1591	J	+ .90	N1110		+ .78	N1247		- .34
K1194		+1.04	N7	L	-1.93	N1111		+ .90	N1249		+1.11

Net change in water level in wells on Long Island, 1951--Cont'd.

Well No.	Net change (feet)	Well No.	Net change (feet)	Well No.	Net change (feet)	Well No.	Net change (feet)
N1250	+1.23	Q350 J	+0.96	S1810	+1.83	S4134 M	+1.11
N1251	+1.33	Q470 L	-1.54	S1811	+ .24	S4268	+ .90
N1252	+1.26	Q471 M	+ .58	S1814	+ .89	S4270	+ .18
N1253	+1.02	Q543 L	- .87	S1817	+ .30	S4271	+ .76
N1254	+ .40	Q1027 L	+ .60	S2146	+ .25	S4524	+1.04
N1255	+ .50	Q1089	+ .35	S2314 M	- .17	S4526	+1.16
N1256	+ .07	Q1152 J	- .51	S2455	+1.21	S4530	+1.74
N1259	+1.29	Q1222 L	- .76	S3496	+ .65	S4827	- .31
N1263	+1.33	Q1225	+ .77	S3513	+ .30	S4828	M - .89
N1264	+ .71	Q1237 J	- .31	S3514	+1.22	S4829	+ .40
N1461 M	+ .10	Q1248	- .74	S3516	+ .87	S5517	+ .41
N1462	+1.36	Q1249	-2.45	S3517	+ .25	S6400	+ .49
N1463	+2.07	Q1250	+1.66	S3526	+ .39	S6409	L + .45
N1464	+ .88	Q1251	+1.73	S3532	+ .05	S6410	+ .09
N1613 M	+ .83	Q1252	+ .69	S3535	+ .30	S6411	+ .32
N1614	- .36	Q1253	+ .64	S3537	+ .51	S6435	+ .30
N1615	+ .99	Q1254	- .74	S3539	- .11	S6441	+1.63
N1616	- .16	Q1255	+1.27	S3543	+ .56	S6524	+ .12
N1828	+ .70	Q1256	+1.06	S3545	+ .69	S6532	+ .40
N1829	+ .93	Q1281	+ .60	S3728	- .66	S6542	+ .91
N1830	+ .67	Q1283	+ .96	S3729	- .64	S6558	+ .51
N2052 M	+ .01	S58 M	+1.06	S3730	+ .15	S6780	+ .55
N2071 L	- .66	S202 L	+ .61	S3737	+ .72	S7267	+1.06
N2400 M	- .80	S203 M	-1.20	S3739	+1.11	S7283	+ .56
N2528 M	+ .79	S929	+ .17	S3868	+ .81	S8831	+ .67
N2635 M	+1.46	S1803	+ .23	S3869	- .54	S8834	+ .75
N2790 M	+ .36	S1805	+1.35	S3870	+ .05	S8835	+ .57
Q64 L	+4.35	S1806	- .31	S3871	+1.12	S8836	+ .64
Q273 L	+ .37	S1807	+ .55	S3955	+1.23	S8837	+ .74
Q278 L	-6.64	S1808	+ .48	S3956	+1.23	S8839	+ .75
Q283 L	-1.27	S1809	+1.28	S3978	+ .26	S8912	+ .60

J Jameco L Lloyd M Magothy

Well Descriptions and Water-Level Measurements

Water levels are in feet with reference to mean sea level (Sandy Hook datum) as indicated. When some measurements in a table are above and others below the plane of reference a plus (+) or minus (-) sign is placed immediately preceding the first entry in each column. Readings between minus (-) signs are below the plane of reference and those between plus (+) signs are above the plane of reference.

Kings County

K19. Comtone Co. Formerly Kew Pacific Garage. 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. Land-surface datum is 45.3 feet above msl. Highest water level 9.77 below msl, Dec. 30, 1951; lowest 26.80 below msl, Sept. 26, 1941. Records available: 1940-51.

Daily mean water level below msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.95	12.59	12.29	11.89	11.75	11.42	11.29	11.49	11.52	11.18	10.82	10.32
2	12.93	12.70	12.26	11.84	11.66	11.37	11.35	11.56	11.46	11.21	10.83	10.29
3	12.95	12.66	12.26	11.85	11.65	11.31	11.40	11.50	11.36	11.24	10.74	10.28
4	12.97	12.48	12.12	11.92	11.64	11.30	11.31	11.54	11.41	11.22	10.77	10.26
5	13.09	12.45	12.12	11.91	11.62	11.38	11.26	11.50	11.45	11.20	10.77	10.24
6	13.01	12.48	12.15	11.92	11.56	11.39	11.38	11.46	11.41	11.23	10.80	10.26
7	12.86	12.38	12.11	.....	11.55	11.39	11.39	11.46	11.40	11.19	10.63	10.28
8	12.83	12.53	12.15	.....	11.60	11.37	11.33	11.44	11.45	11.11	10.67	10.24
9	12.95	12.62	12.17	.....	11.60	11.33	11.33	11.49	11.37	11.15	10.74	.....
10	12.92	12.59	12.17	.....	11.61	11.23	11.40	11.53	11.36	11.15	10.71	.....
11	12.88	12.37	12.06	.....	11.56	11.22	11.44	11.54	11.40	11.07	10.65	.....
12	12.92	12.33	12.01	.....	11.55	11.28	11.44	11.47	11.44	11.11	10.63	10.12
13	12.94	12.41	12.04	11.84	11.58	11.25	11.47	11.47	11.44	11.17	10.60	10.17
14	12.79	12.50	11.98	11.85	11.61	11.20	11.49	11.54	11.43	11.10	10.55	10.21
15	12.69	12.50	11.99	11.79	11.58	11.20	11.39	11.54	11.38	11.02	10.57	10.08

K19--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	12.86	12.44	12.00	11.78	11.55	11.21	11.37	11.52	11.31	11.04	10.53	10.19
17	12.87	12.36	12.04	11.83	11.57	11.16	11.45	11.54	11.31	11.03	10.52	10.16
18	12.84	12.28	12.00	11.85	11.58	11.17	11.50	.....	11.36	11.04	10.49	10.02
19	12.84	12.27	11.96	11.78	11.55	11.24	11.45	.....	11.40	11.02	10.46	10.12
20	12.81	12.29	11.96	11.84	11.45	11.25	11.48	.....	11.43	11.02	10.50	10.10
21	12.72	12.27	11.97	11.86	11.44	11.26	11.50	.....	11.45	11.00	10.53	9.96
22	12.82	12.32	11.99	11.75	11.47	11.29	11.40	.....	11.41	10.97	10.46	10.04
23	12.79	12.32	11.98	11.72	11.44	11.27	11.40	.....	11.33	10.96	10.37	10.06
24	12.69	12.27	11.93	11.79	11.48	11.24	11.51	.....	11.36	10.92	10.40	9.97
25	12.71	12.21	11.92	11.73	11.52	11.23	11.53	.....	11.33	10.95	10.42	9.92
26	12.72	12.18	11.91	11.73	11.52	11.31	11.51	.....	11.37	10.93	10.27	9.87
27	12.74	12.19	11.95	11.80	11.42	11.30	11.52	.....	11.32	10.86	10.40	9.95
28	12.69	12.30	11.94	11.75	11.41	11.35	11.50	.....	11.34	10.78	10.41	9.92
29	12.64		11.94	11.63	11.41	11.38	11.44	.....	11.37	10.83	10.37	9.84
30	12.72		11.90	11.71	11.40	11.37	11.43	.....	11.29	10.85	10.35	9.77
31	12.69		11.93		11.40		11.46	11.51		10.83		9.80

K30. Detecto Scales, Inc. Formerly Tagliabue Manufacturing Co. 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. Land-surface datum is 17.8 feet above msl. Highest water level 15.70 below msl, Dec. 31, 1951; lowest 29.75 below msl, Nov. 8, 1941. Records available: 1935-51.

Daily mean water level below msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.16	18.89	18.61	18.26	17.97	17.63	17.43	17.19	17.15	16.96	16.66	16.13
2	19.15	18.89	18.61	18.24	17.95	17.62	17.42	17.19	17.16	16.94	16.65	16.13
3	19.12	18.95	18.62	18.16	17.93	17.61	17.41	17.19	17.16	16.96	16.63	16.12
4	19.09	18.93	18.60	18.17	17.92	17.60	17.41	17.19	17.16	16.95	16.62	16.08
5	19.10	18.89	18.58	18.17	17.91	17.59	17.39	17.19	17.15	16.93	16.62	16.05
6	19.11	18.88	18.57	18.19	17.90	17.58	17.38	17.19	17.15	16.96	16.62	16.07
7	19.09	18.78	18.54	.....	17.89	17.58	17.38	17.17	17.15	16.96	16.55	16.10
8	19.04	18.78	18.52	.....	17.87	17.57	17.38	17.15	17.16	16.90	16.49	16.07
9	19.05	18.89	18.51	.....	17.87	17.57	17.37	17.15	17.17	16.92	16.54	16.04
10	19.06	18.89	18.51	.....	17.87	17.56	17.35	17.15	17.17	16.93	16.55	16.02
11	19.05	18.91	18.50	.....	17.87	17.55	17.34	17.16	17.17	16.89	16.53	15.99
12	19.04	18.84	18.48	.....	17.86	17.54	17.33	17.16	17.17	16.90	16.51	15.94
13	19.06	18.81	18.46	18.11	17.86	17.54	17.32	17.15	17.17	16.96	16.48	15.96
14	19.05	18.81	18.43	18.10	17.87	17.53	17.32	17.14	17.18	16.96	16.45	16.05
15	18.95	18.83	18.40	18.09	17.86	17.53	17.31	17.14	17.18	16.90	16.44	15.96
16	18.95	18.83	18.39	18.08	17.84	17.53	17.30	17.13	17.18	16.86	16.42	16.01
17	18.90	18.81	18.39	18.07	17.83	17.53	17.28	17.12	17.17	16.84	16.41	16.01
18	18.90	18.78	18.40	18.06	17.82	17.52	17.27	17.12	17.15	16.83	16.40	15.92
19	19.01	18.75	18.39	18.06	17.82	17.51	17.27	17.12	17.14	16.82	16.39	15.91
20	19.01	18.72	18.28	18.06	17.80	17.50	17.26	17.12	17.14	16.81	16.38	15.96
21	19.00	18.69	18.29	18.07	17.77	17.48	17.27	17.11	17.14	16.80	16.38	15.84
22	19.00	18.67	18.29	18.08	17.75	17.48	17.27	17.10	17.10	16.80	16.38	15.85
23	19.00	18.77	18.30	18.06	17.72	17.48	17.26	17.11	17.07	16.79	16.36	15.93
24	18.96	18.66	18.30	18.05	17.69	17.47	17.25	17.14	17.06	16.75	16.34	15.89
25	18.93	18.64	18.30	18.04	17.69	17.46	17.24	17.15	17.02	16.74	16.33	15.86
26	18.93	18.62	18.30	18.03	17.69	17.45	17.24	17.15	17.08	16.74	16.24	15.77
27	18.93	18.60	18.30	18.03	17.68	17.44	17.23	17.15	17.01	16.73	16.21	15.77
28	18.94	18.60	18.29	18.03	17.66	17.43	17.23	17.14	17.04	16.70	16.24	15.77
29	18.93		18.28	18.01	17.64	17.43	17.23	17.13	17.09	16.68	16.19	15.75
30	18.92		18.27	17.98	17.64	17.43	17.22	17.14	17.04	16.68	16.16	15.72
31	18.92		18.26		17.63		17.20	17.14		16.67		15.70

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. Land-surface datum is 17.3 feet above msl. Highest water level 15.96 below msl, Dec. 20, 1951; lowest 28.34 below msl, Aug. 25, 1939. Records available: 1937-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	18.55	May 2	17.80	July 26	17.23	Nov. 2	16.49
Feb. 26	18.21	29	17.51	Aug. 28	17.20	28	16.21
Mar. 27	18.22	June 28	17.32	Sept. 26	17.06	Dec. 20	15.96

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, depth 70 feet. Land-surface datum is 47.0 feet above msl. Highest water level 13.14 below msl, Dec. 20, 1951; lowest 20.91 below msl, Sept. 15, 1947. Records available: 1937-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	15.10	May 2	14.49	July 26	14.38	Nov. 2	13.69
Feb. 26	14.94	29	14.38	Aug. 28	14.33	28	13.42
Mar. 27	14.80	June 28	14.42	Sept. 26	14.15	Dec. 20	13.14

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 60 to 6 inches, reported depth 110 feet. Land-surface datum is 69.1 feet above msl. Highest water level 11.99 below msl, Dec. 20, 1951; lowest 29.69 below msl, Dec. 11, 1937. Records available: 1937-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	13.05	May 2	12.13	July 26	12.54	Nov. 1	12.27
Feb. 26	12.75	29	12.34	Aug. 28	12.59	28	12.18
Mar. 27	12.56	June 28	12.60	Sept. 26	12.46	Dec. 20	11.99

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. Land-surface datum is 64.2 feet above msl. Highest water level 12.15 below msl, Dec. 20, 1951; lowest 26.58 below msl, Oct. 27, 1944. Records available: 1944-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	14.53	June 28	13.0	Sept. 26	12.82	Nov. 28	12.38
Mar. 27	13.91	Aug. 28	12.83	Nov. 2	12.57	Dec. 20	12.15
May 2	13.3						

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, depth 128 feet. Land-surface datum is 79.7 feet above msl. Highest water level 4.89 above msl, Dec. 19, 1951; lowest 4.76 below msl, Mar. 5, 1944. Records available: 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.98	Apr. 27	4.35	July 24	4.66	Nov. 2	4.77
Feb. 23	4.05	May 28	4.60	Aug. 27	4.70	28	4.83
Mar. 26	4.16	June 27	4.66	Sept. 25	4.69	Dec. 19	4.89

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, depth 103 feet, screen 63-103. Land-surface datum is 46.0 feet above msl. Highest water level 3.93 above msl, Dec. 19, 1951; lowest 4.80 below msl, June 30, 1947. Records available: 1947-51.

Water level above and below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 30, 1947	-4.80	May 22, 1948	+1.11	June 2, 1949	+3.58	June 1, 1950	+3.00
July 7	-4.11	June 10	+1.34	16	+3.58	13	+2.95
14	-3.86	29	+1.58	30	+3.58	28	+2.90
22	-3.63	July 14	+1.80	July 14	+3.54	July 12	+2.87
31	-3.43	27	+2.08	28	+3.48	26	+2.83
Aug. 13	-3.16	Aug. 10	+2.22	Aug. 19	+3.48	Aug. 28	+2.79
28	-2.92	23	+2.34	Sept. 1	+3.40	Sept. 26	+2.77
Sept. 15	-2.66	Sept. 7	+2.43	20	+3.34	Oct. 30	+2.89
29	-2.36	23	+2.49	29	+3.35	Nov. 27	+2.95
Oct. 7	-2.22	Oct. 5	+2.55	Oct. 17	+3.19	Dec. 18	+3.04
13	-2.17	21	+2.48	Nov. 1	+3.19	Jan. 29, 1951	+3.13
21	-2.08	Nov. 3	+2.58	17	+3.15	Feb. 23	+3.20
30	-1.95	24	+2.62	30	+3.12	Mar. 26	+3.34
Nov. 18	-1.63	Dec. 13	+2.63	Dec. 15	+3.01	Apr. 27	+3.58
28	-1.44	29	+2.63	27	+3.07	May 28	+3.77
Dec. 16	-1.16	Jan. 14, 1949	+2.80	Jan. 12, 1950	+2.85	June 27	+3.74
Jan. 6, 1948	-0.88	28	+2.96	25	+2.84	July 24	+3.67
30	-0.63	Feb. 15	+3.12	Feb. 9	+2.92	Aug. 27	+3.70
Feb. 28	-0.22	Mar. 2	+3.18	28	+2.91	Sept. 13	+3.64
Mar. 13	-0.02	21	+3.31	Mar. 16	+2.95	25	+3.63
20	+0.08	Apr. 4	+3.43	30	+2.91	Nov. 2	+3.73
Apr. 3	+0.31	18	+3.46	Apr. 17	+3.03	29	+3.86
17	+0.54	29	+3.45	May 4	+3.01	Dec. 19	+3.93
May 8	+0.88	May 12	+3.55	18	+2.97		

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 0.83 below msl, Dec. 30, 1951; lowest 18.78 below msl, June 30, 1947. Records available: 1947-51.

Daily mean water level below msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.00	2.71	2.64	2.33	2.19	1.97	1.77	1.76	1.65	1.46	1.34	1.15
2	2.97	2.88	2.61	2.28	2.07	1.92	1.83	1.82	1.63	1.46	1.39	1.13
3	2.93	2.91	2.61	2.27	2.07	1.90	1.86	1.75	1.57	1.50	1.25	1.16
4	2.94	2.75	2.49	2.35	2.06	1.87	1.77	1.79	1.62	1.49	1.38	1.10
5	3.10	2.75	2.53	2.34	2.04	1.92	1.73	1.80	1.64	1.46	1.43	1.08
6	3.02	2.80	2.54	2.34	2.01	1.91	1.83	1.75	1.60	1.51	1.47	1.12
7	2.88	2.64	2.45	....	2.00	1.90	1.87	1.73	....	1.50	1.23	1.14
8	2.90	2.82	2.50	....	2.05	1.90	1.84	....	....	1.44	1.30	1.11
9	3.04	2.93	2.56	....	2.04	1.87	1.81	1.72	....	1.51	1.41	1.05
10	3.00	2.91	2.56	....	2.07	1.82	1.85	1.74	1.59	1.51	1.37	1.09
11	2.93	2.73	2.48	....	1.99	1.83	1.87	1.75	1.59	1.41	1.31	1.05
12	2.99	2.66	2.44	....	2.00	1.89	1.85	1.71	1.62	1.50	1.33	1.00
13	3.03	2.72	2.46	2.21	2.07	1.87	1.88	1.70	1.59	1.58	1.28	1.11
14	2.89	2.79	2.39	2.23	2.13	1.79	1.89	1.74	1.57	1.53	1.21	1.18
15	2.75	2.84	2.42	2.20	2.06	1.82	1.83	1.72	1.54	1.44	1.25	.98
16	2.96	2.78	2.45	2.20	2.00	1.85	1.80	1.69	1.51	1.44	1.20	1.18
17	2.98	2.68	2.49	2.24	2.02	1.83	1.84	1.69	1.50	1.45	1.22	1.18
18	2.95	2.63	2.51	2.27	2.06	1.83	1.87	1.71	1.52	1.45	1.22	.99
19	2.95	2.63	2.49	2.18	2.03	1.84	1.79	1.68	1.55	1.41	1.21	1.13
20	2.92	2.62	2.42	2.26	1.94	1.83	1.83	1.65	1.59	1.42	1.27	1.11
21	2.85	2.57	2.45	2.29	1.92	1.81	1.89	1.65	1.59	1.44	1.31	.90
22	2.99	2.65	2.45	2.20	1.93	1.84	1.81	1.68	1.54	1.43	1.25	1.03
23	2.96	2.67	2.45	2.16	1.90	1.81	1.80	1.73	1.50	1.41	1.15	1.10
24	2.81	2.61	2.38	2.23	1.94	1.81	1.86	1.72	1.56	1.35	1.16	1.02
25	2.82	2.56	2.44	2.16	1.98	1.78	1.87	1.69	1.51	1.41	1.25	1.01
26	2.82	2.54	2.45	2.14	1.97	1.84	1.82	1.63	1.56	1.41	1.06	.90
27	2.85	2.53	2.48	2.22	1.88	1.79	1.81	1.61	1.54	1.32	1.23	1.00
28	2.85	2.66	2.43	2.15	1.88	1.82	1.81	1.65	1.54	1.27	1.26	1.00
29	2.79	....	2.39	2.05	1.91	1.82	1.78	1.66	1.60	1.37	1.21	.90
30	2.88	....	2.32	2.14	1.93	1.81	1.76	1.65	1.56	1.41	1.18	.83
31	2.86	....	2.35	....	1.96	....	1.76	1.68	....	1.36	....	.90

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 3.80 above msl, May 28, Dec. 19, 1951; lowest 1.91 below msl, Feb. 6, 1945. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.21	Apr. 27	3.73	July 24	3.58	Nov. 2	3.54
Feb. 23	3.20	May 28	3.80	Aug. 27	3.57	28	3.76
Mar. 26	3.51	June 27	3.74	Sept. 25	3.49	Dec. 19	3.80

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 5.35 above msl, June 6, 1949; lowest 0.46 above msl, Mar. 10-13, 1947. Records available: 1945-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.66	4.75	4.77	5.01	5.17	5.22	5.20	....	....	....	....	....
2	4.68	4.69	4.78	5.02	5.22	5.23	5.17	....	....	....	h4.99	....
3	4.70	4.68	4.78	5.03	5.23	5.23	5.16	....	....	....	....	....
4	4.71	4.72	4.81	5.01	5.24	5.24	5.19	....	....	....	....	....
5	4.66	4.72	4.80	5.02	5.24	5.24	5.21	....	....	....	....	....
6	4.69	4.70	4.81	5.02	5.24	5.24	5.17	....	....	....	....	....
7	4.73	4.78	4.84	....	5.24	5.24	5.15	....	....	....	....	....
8	4.72	4.71	4.84	....	5.24	5.23	5.14	....	....	....	....	....
9	4.68	4.66	4.83	....	5.24	5.25	5.14	....	....	....	....	....
10	4.69	4.66	4.84	....	5.22	5.25	5.14	....	....	....	....	....
11	4.72	4.73	4.86	....	5.24	5.24	5.13	....	....	....	....	....
12	4.70	4.74	4.87	....	5.23	5.22	5.14	....	....	....	....	....
13	4.68	4.73	4.88	5.10	5.18	5.22	5.13	....	h4.94	....	....	....
14	4.72	4.70	4.91	5.11	5.15	5.26	....	....	....	....	....	....
15	4.76	4.68	4.91	5.11	5.18	5.25	....	....	....	....	....	....

K525--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	4.70	4.69	4.91	5.11	5.22	5.23	....	....	....	....	....	....
17	4.69	4.74	4.90	5.12	5.21	5.21	....	....	....	....	....	....
18	4.70	4.75	4.89	5.12	5.18	5.21	....	....	....	....	....	....
19	4.69	4.75	4.90	5.14	5.19	5.21	....	....	....	....	....	h5.19
20	4.70	4.76	4.92	5.11	5.22	5.22	....	....	....	....	....	....
21	4.70	4.79	4.93	5.11	5.23	5.22	....	....	....	....	....	....
22	4.63	4.77	4.93	5.14	5.24	5.21	....	....	....	....	....	....
23	4.65	4.76	4.94	5.14	5.25	5.22	....	....	....	....	....	....
24	4.72	4.78	4.96	5.13	5.24	5.21	h5.07	....	....	....	....	....
25	4.72	4.79	4.93	5.16	5.23	5.21	....	....	h4.96	....	....	....
26	4.72	4.79	....	5.17	5.22	5.19	....	....	....	....	....	....
27	4.70	4.80	....	5.15	5.25	5.21	....	h5.13	....	....	....	....
28	4.69	4.76	....	5.18	5.25	5.20	....	....	....	....	....	....
29	4.70	....	....	5.21	5.24	5.19	....	....	....	....	h5.15	....
30	4.67	....	5.00	5.18	5.23	5.20	....	....	....	....	....	....
31	4.68	....	5.00	....	5.22	....	....	....	....	....	....	....

h Tape measurement.

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. Land-surface datum is 32.9 feet above msl. Highest water level 0.24 above msl, Dec. 20, 1951; lowest 8.28 below msl, Feb. 21, 1942. Records available: 1932-51.

Water level above and below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	-0.82	Apr. 26	-0.25	July 25	-0.15	Nov. 1	-0.03
Feb. 23	-.71	May 31	-.12	Aug. 28	-.04	29	+.18
Mar. 27	-.54	June 26	-.06	Sept. 26	-1.16	Dec. 20	+.24

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 16.98 feet above msl, Dec. 20, 1951; lowest 39.01 below msl, Jan. 25, 1947. Records available: 1945-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	22.36	May 2	20.22	July 26	18.97	Nov. 2	17.86
Feb. 26	21.64	29	19.79	Aug. 28	18.53	28	17.37
Mar. 27	20.97	June 28	19.39	Sept. 26	18.29	Dec. 20	16.98

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. Land-surface datum is 8.1 feet above msl. Water levels affected by tidal fluctuation; extremes not determined as water levels were computed on different bases for period of record. Records available: 1939-42, 1944-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.25	9.69	9.97	10.10	9.74	9.50	8.90	7.71	....	7.30	8.30	8.77
2	9.13	8.89	9.67	10.25	9.85	9.45	8.73	7.68	....	7.48	8.35	8.80
3	9.22	8.88	10.00	10.35	10.13	9.45	8.60	7.76	....	7.50	8.51	8.67
4	9.28	9.55	10.10	10.11	10.30	9.57	8.74	7.68	....	7.82	8.12	8.75
5	8.77	9.35	9.93	10.05	10.23	9.46	8.83	7.67	....	7.83	7.86	8.95
6	9.09	9.22	9.78	....	10.12	9.46	8.56	7.66	....	7.68	7.79	....
7	9.51	9.91	9.90	....	10.17	9.42	8.59	7.75	....	7.92	8.72	....
8	9.45	8.84	9.89	....	10.03	9.36	8.57	7.90	7.10	7.80	8.17	....
9	9.00	8.50	9.69	....	9.95	9.46	8.57	7.76	7.14	7.35	7.66	....
10	9.05	8.87	9.57	....	9.81	9.78	8.44	7.66	7.19	7.59	7.85	....
11	9.23	9.35	9.82	....	9.97	9.88	8.35	7.51	7.19	8.00	7.95	....
12	9.06	9.39	....	....	10.07	9.57	8.40	7.48	7.15	7.46	8.13	9.10
13	8.97	9.36	....	....	9.69	9.40	8.31	7.43	7.13	7.35	8.29	8.70
14	9.43	9.25	....	10.25	9.44	9.60	8.20	7.34	7.21	7.30	8.48	8.60
15	9.78	9.25	....	10.14	9.40	9.44	8.18	7.36	7.26	7.44	8.43	8.71
16	8.90	9.17	10.07	10.06	9.48	9.34	8.19	7.40	7.26	7.52	8.67	8.07
17	9.03	9.22	9.83	9.94	9.64	9.23	8.20	7.53	7.32	7.64	8.50	8.06
18	9.36	9.47	9.82	9.77	9.91	9.18	8.22	7.45	7.30	7.88	8.34	8.69
19	9.38	9.50	9.87	9.86	....	9.13	8.29	7.43	7.20	7.87	8.27	8.37
20	9.34	9.72	10.27	9.70	....	9.08	8.12	7.36	7.10	7.85	8.30	8.55

K1237. City of New York, Department of Water Supply, Gas and Electricity. Delmonico Place and Hopkins St. Lat. 40°42'00", long. 73°56'45". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 63 feet, screen 61-63. Land-surface datum is 18.0 feet above msl. Highest water level 21.08 below msl, Dec. 20, 1951; lowest 36.53 below msl, Jan. 24, 1947. Records available: 1941-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	25.57	May 2	24.12	July 26	23.39	Nov. 1	22.33
Feb. 26	25.18	29	23.62	Aug. 28	23.62	28	21.42
Mar. 27	24.82	June 28	23.32	Sept. 26	23.38	Dec. 20	21.08

K1263. City of New York, Department of Water Supply, Gas and Electricity. E. 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 3.27 above msl, Dec. 19, 1951; lowest 11.97 below msl, July 21, 1936. Records available: 1933-36, 1941-51.

Water level above msl

Jan. 29	2.24	Apr. 27	2.82	July 24	3.00	Nov. 2	3.02
Feb. 23	2.35	May 28	3.04	Aug. 27	3.03	28	3.22
Mar. 26	2.52	June 27	3.07	Sept. 25	3.02	Dec. 19	3.27

K1264. City of New York, Department of Water Supply, Gas and Electricity. E. 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 2.06 above msl, Nov. 28, 1951; lowest 15.56 below msl, Apr. 3, May 7, 1947. Records available: 1933-35, 1941-51.

Water level above msl

Jan. 29	0.34	May 1	1.16	July 24	1.36	Nov. 2	1.85
Feb. 23	.61	28	1.46	Aug. 27	1.48	28	2.06
Mar. 26	.86	June 27	1.47	Sept. 25	1.49	Dec. 19	1.71

K1265. Measurements made in 1951 withheld for later publication.

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 1.00 above msl, Dec. 20, 1951; lowest 7.49 below msl, June 27, 1942. Records available: 1933-37, 1941-51.

Water level above and below msl

Jan. 30	+0.16	May 1	+0.54	July 24	+0.52	Oct. 3	+0.40
Feb. 23	-.12	29	+.69	Aug. 28	+.62	Nov. 29	+.84
Mar. 26	+.28	June 26	+.60	Sept. 26	-.59	Dec. 20	+1.00

K1296. City of New York, Department of Water Supply, Gas and Electricity. Blake Ave. and Crystal St. Lat. 40°40'20", long. 73°52'20". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 33 feet, screen 31-33. Land-surface datum is 7.3 feet above msl. Highest water level 2.10 above msl, Dec. 26, 1951; lowest 8.27 below msl, Mar. 7, 1942. Records available: 1941-51.

Water level above msl

Jan. 30	0.90	May 29	1.72	Aug. 31	1.70	Nov. 1	1.24
Feb. 23	1.24	June 26	1.45	Sept. 25	1.20	29	1.83
Mar. 26	1.28	July 24	1.24	Oct. 2	1.13	Dec. 26	2.10
Apr. 27	1.50						

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, depth 72 feet. Land-surface datum is 40.3 feet above msl. Highest water level 13.71 below msl, Dec. 20, 1951; lowest 24.16 below msl, Sept. 10, 1945. Records available: 1942-51.

Water level below msl

Jan. 30	16.70	May 2	14.47	July 26	16.27	Nov. 2	14.24
Feb. 27	16.08	29	15.55	Aug. 28	17.51	28	13.76
Mar. 27	15.39	June 28	16.09	Sept. 27	16.72	Dec. 20	13.71

K1495. City of New York, Department of Water Supply, Gas and Electricity. Avenue S and E. 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 4.09 above msl, May 28, 1951; lowest 1.80 above msl, Aug. 13, Dec. 17, 1947. Records available: 1936-43 (as K535), 1945-51.

K1495--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.96	Apr. 27	4.08	July 25	3.74	Oct. 31	3.56
Feb. 23	3.93	May 28	4.09	Aug. 27	3.65	Nov. 28	3.86
Mar. 26	4.03	June 27	3.95	Sept. 25	3.52	Dec. 19	3.87

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, depth about 180 feet. Land-surface datum is 76.5 feet above msl. Highest water level 0.68 below msl, Dec. 19, 1951; lowest 21.56 below msl, June 30, 1947. Records available: 1947-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 30, 1947	21.56	Apr. 17, 1948	11.75	Apr. 29, 1949	4.89	May 18, 1950	2.53
July 1	21.04	May 8	11.04	May 12	4.72	June 1	2.54
2	20.83	22	10.49	June 2	4.45	13	2.52
3	20.68	June 10	8.86	30	4.15	28	2.52
7	20.28	30	8.10	July 28	3.90	July 13	2.54
14	19.79	July 14	7.38	Aug. 19	3.76	26	2.56
21	19.47	27	7.62	Sept. 1	3.68	Aug. 28	2.60
31	18.99	Aug. 10	7.80	20	3.55	Sept. 26	2.64
Aug. 14	18.41	23	8.02	29	3.50	Oct. 30	2.60
28	17.89	Sept. 2	8.12	Oct. 17	3.40	Nov. 27	2.54
Sept. 16	17.47	23	8.02	Nov. 1	3.30	Dec. 18	2.50
30	16.66	Oct. 21	7.64	17	3.19	Jan. 29, 1951	2.41
Oct. 6	16.46	Nov. 3	7.45	30	3.13	Feb. 23	2.34
13	16.21	24	8.22	Dec. 15	3.09	Mar. 26	2.21
21	15.96	Dec. 13	6.76	27	3.05	Apr. 27	2.04
30	15.66	29	6.54	Jan. 12, 1950	3.00	May 28	1.81
Nov. 18	15.08	Jan. 14, 1949	6.32	25	2.95	June 27	1.65
Jan. 6, 1948	11.97	28	6.11	Feb. 9	2.91	July 24	1.54
30	12.94	Feb. 15	5.90	28	2.85	Aug. 27	1.38
Feb. 14	13.02	Mar. 2	5.72	Mar. 16	2.81	Sept. 25	1.24
Mar. 6	12.82	21	5.47	30	2.28	Nov. 2	.99
20	12.45	Apr. 4	5.25	Apr. 17	2.46	29	.82
Apr. 3	11.92	18	5.03	May 4	2.51	Dec. 19	.68

K1591. City of New York, Department of Water Supply, Gas and Electricity. Blake Ave. and Crystal St. Lat. 40°40'20", long. 73°52'20". Drilled unused artesian well in Jameco gravel, diameter 6 inches, depth about 150 feet. Land-surface datum is 9.2 feet above msl. Recording gage removed July 19, 1951. Highest water level 1.52 above msl, Dec. 20, 1951; lowest 2.10 below msl, Oct. 27, 28, 1947. Records available: 1947-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.56	0.67	0.88	1.18	....	1.32	1.21	....	....	....	h1.10	....
2	.58	.63	.90	1.23	....	1.33	1.17	....	....	h0.93	....	....
3	.62	.60	.89	1.45	....	1.32	1.15	....	....	....	....	....
4	.65	.67	.94	1.50	1.21	1.33	1.18	....	....	....	....	....
5	.55	.67	.94	1.51	1.22	1.31	1.22	....	....	....	....	....
6	.58	.65	.94	1.50	1.20	1.30	1.15	....	....	....	....	....
7	.64	.76	.99	....	1.20	1.29	1.12	....	....	....	....	....
8	.64	.68	.99	....	1.17	1.27	1.11	....	....	....	....	....
9	.56	.60	.95	....	1.15	1.28	1.11	....	....	....	....	....
10	.56	.59	.95	....	1.12	1.29	1.10	....	....	....	....	....
11	.61	.67	.97	....	1.15	1.27	1.08	....	....	....	....	....
12	.57	.72	.98	....	1.19	1.23	1.09	....	....	....	....	....
13	.52	.70	1.00	1.46	1.12	1.22	1.06	....	....	....	....	....
14	.57	.65	1.05	1.45	1.07	1.28	1.05	....	....	....	....	....
15	.70	.60	1.05	1.40	1.08	1.28	1.04	....	....	....	....	....
16	.62	.61	1.03	1.34	1.12	1.25	1.04	....	....	....	....	....
17	.58	.66	.99	1.29	1.12	1.22	1.05	....	....	....	....	....
18	.60	.70	.94	1.24	1.07	1.22	1.04	....	....	....	....	....
19	.59	.70	.94	1.26	1.08	1.22	1.08	....	....	....	....	....
20	.60	.71	1.02	1.21	1.12	1.22	....	....	....	....	....	h1.52

K1591--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	0.61	0.78	1.02	1.16	1.16	1.24	....	....	....	....	....	....
22	.51	.81	1.02	1.17	1.17	1.22	....	....	....	....	....	....
23	.52	.82	1.02	1.21	1.21	1.24	....	....	....	....	....	....
24	.63	.86	1.05	1.17	1.26	1.22	h1.38	....	....	....	....	....
25	.65	.88	1.00	1.19	1.28	1.24	....	....	h0.99	....	....	....
26	.65	.89	.96	1.23	1.28	1.20	....	....	....	....	....	....
27	.62	.92	.95	1.15	1.32	1.23	....	h1.17	....	....	....	....
28	.59	.87	.96	1.16	1.33	1.21	....	....	....	....	....	....
29	.60	.98	1.22	1.34	1.20	1.20	....	....	....	....	h1.50	....
30	.55	1.05	....	1.34	1.21	....	....	....	....	....	....	....
31	.56	1.14	....	1.32	....	....	....	....	....	....	....	....

h Tape measurement.

Nassau County

N7. Long Island State Park Commission. Formerly Citizens Water Supply Co. 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 1.07 above msl, Aug. 6, 7, 1951. Records available: 1936-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.84	7.96	8.89	8.87	8.19	5.74	3.76	1.33	1.38	2.20	....	4.84
2	7.81	8.04	8.97	8.91	8.25	5.70	3.70	1.26	1.28	2.38	....	4.90
3	7.90	7.83	8.89	9.09	8.35	5.57	3.64	1.26	1.27	2.44	....	4.86
4	8.03	7.95	9.01	9.06	8.32	5.42	3.65	1.24	1.27	2.49	4.40	4.94
5	7.89	8.04	9.03	9.01	8.29	5.28	3.72	1.13	1.25	2.61	4.27	5.10
6	7.81	8.03	8.97	8.94	8.16	5.13	3.58	1.07	1.29	2.66	4.15	5.18
7	7.94	8.30	9.12	....	7.99	5.07	3.39	1.07	1.41	2.62	4.43	5.16
8	8.09	8.53	9.19	....	7.76	4.98	3.25	1.14	1.38	2.78	4.68	5.20
9	7.94	8.22	9.08	....	7.51	4.93	3.14	1.15	1.37	2.81	4.55	5.28
10	7.88	....	8.96	....	7.27	4.90	3.00	1.14	1.40	2.79	4.47	5.32
11	7.96	....	8.95	....	7.07	4.86	2.82	1.15	1.42	2.94	4.51	5.35
12	7.96	....	8.97	....	7.02	4.80	2.68	1.17	1.41	3.03	4.46	5.55
13	7.85	....	9.02	....	6.81	4.75	2.52	1.21	1.43	2.93	4.51	5.59
14	7.87	....	9.21	....	6.55	4.81	2.34	1.21	1.48	2.91	4.70	5.45
15	8.30	....	9.30	8.97	6.43	4.83	2.22	1.24	1.52	3.04	4.79	5.81
16	8.29	....	9.28	8.90	6.42	4.77	2.11	1.30	1.53	3.15	4.87	5.68
17	8.08	....	9.15	8.87	6.36	4.68	1.97	1.34	1.57	3.20	4.94	5.51
18	8.07	8.65	8.97	8.77	6.13	4.63	1.80	1.32	1.62	3.24	4.90	5.72
19	8.06	8.64	8.82	8.76	6.02	4.57	1.74	1.29	1.63	3.35	4.84	5.84
20	8.04	8.70	9.00	8.70	5.99	4.50	1.73	1.27	1.61	3.45	4.76	5.63
21	8.12	8.85	8.97	8.51	6.04	4.44	1.61	1.30	1.59	3.45	4.64	5.96
22	7.88	9.01	9.00	8.43	6.12	4.33	1.60	1.33	1.61	3.44	4.63	5.96
23	7.75	8.92	8.88	8.50	6.26	4.24	1.61	1.24	1.67	3.51	4.74	5.77
24	7.98	8.93	8.98	8.38	6.35	4.16	1.55	1.18	1.59	3.63	4.82	5.72
25	8.10	8.98	8.91	8.32	6.27	4.12	1.47	1.20	1.68	3.73	4.69	5.67
26	8.12	8.95	8.76	8.38	6.16	4.03	1.43	1.27	1.78	3.69	4.90	5.84
27	8.04	8.97	8.63	8.24	6.11	3.97	1.39	1.36	1.90	....	4.93	5.81
28	7.93	8.91	8.60	8.19	6.08	3.91	1.34	1.41	2.08	....	4.74	5.77
29	7.93	8.62	8.32	6.01	3.77	1.31	1.42	2.05	....	....	4.73	5.86
30	7.82	8.74	8.34	5.93	3.73	1.28	1.42	2.06	....	....	4.77	6.01
31	7.72	8.90	....	5.83	....	1.29	1.41	....	....	....	....	6.03

N9. Long Island State Park Commission. Formerly Citizens Water Supply Co. 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. Land-surface datum is 23.2 feet above msl. Highest water level 23.57 above msl, Sept. 23, 1938; lowest 20.99 above msl, Sept. 11, 1936. Records available: 1936-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	21.48	Apr. 26	22.01	Aug. 3	21.82	Oct. 30	21.41
Feb. 27	22.04	May 29	22.13	28	21.53	Nov. 26	21.95
Mar. 30	22.03	June 26	21.68	Sept. 26	21.11	Dec. 19	22.08

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. 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: 1934-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	12.92	Apr. 27	14.52	Aug. 2	14.02	Oct. 29	12.98
Feb. 27	13.76	May 29	14.62	28	13.58	Nov. 26	13.92
Mar. 30	14.21	June 26	14.29	Sept. 26	13.09	Dec. 19	14.06

N67. Village of Freeport. Sunrise Highway and Long Beach Ave. Records available: 1932-44, 1946-50. No measurement made in 1951.

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. 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: 1932-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	83.27	Apr. 25	82.51	July 26	82.12	Oct. 29	82.25
26	82.75	June 4	82.51	Aug. 28	82.53	Nov. 28	82.11
Apr. 4	82.57	28	82.62	Sept. 25	82.14	Dec. 20	82.08

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. Land-surface datum is 15.3 feet above msl. Highest water level 21.04 above msl, Mar. 11, 1949; lowest 17.28 above msl, Dec. 25, 1949, Jan. 20, 1950. Records available: 1945-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.10	19.52	20.00	20.08	19.72	19.67	19.54	19.27	18.87	18.67	19.09	19.62
2	19.14	19.38	20.05	20.15	19.82	19.68	19.46	19.20	18.90	18.70	19.15	19.60
3	19.21	19.31	19.95	20.30	19.77	19.56	19.42	19.26	18.95	18.68	.....	19.54
4	19.25	19.43	20.16	20.23	19.79	19.61	19.46	19.19	18.91	18.75	19.42	19.61
5	19.05	19.44	20.12	20.23	19.80	19.63	19.49	19.13	18.89	18.85	19.37	19.67
6	19.10	19.41	20.11	20.25	19.74	19.63	19.36	19.13	18.93	18.92	19.37	19.66
7	19.23	19.67	20.19	.....	19.72	19.62	19.32	19.16	18.97	18.83	19.72	19.62
8	19.27	.....	20.12	.....	19.60	19.57	19.29	19.22	18.86	19.05	19.74	19.57
9	19.10	.....	20.01	.....	19.55	19.62	19.25	19.18	18.83	18.95	19.57	19.55
10	19.10	.....	19.94	.....	19.52	19.68	19.21	19.15	18.82	18.93	19.54	19.43
11	19.20	19.67	19.94	.....	19.62	19.66	19.18	19.13	18.82	19.06	19.58	19.42
12	19.15	19.63	19.98	.....	19.73	19.61	19.25	19.11	18.82	19.00	19.56	19.51
13	19.06	19.58	20.07	.....	19.58	19.60	19.17	19.14	18.83	18.89	19.63	19.39
14	19.19	19.51	20.26	.....	19.49	19.73	19.14	19.13	18.83	18.92	19.72	19.30
15	19.46	19.45	20.19	20.07	19.54	19.67	19.11	19.14	18.84	18.97	19.70	19.57
16	19.25	19.51	20.07	20.08	19.58	19.58	19.10	19.16	18.84	18.95	19.77	.....
17	19.14	19.61	19.93	20.05	19.50	19.52	19.10	19.13	18.83	18.93	19.76	.....
18	19.20	19.67	19.84	19.95	19.49	19.49	19.12	19.10	18.82	18.94	19.67	.....
19	19.22	19.65	19.83	20.01	19.57	19.48	19.24	19.07	18.81	19.02	19.60	19.48
20	19.24	19.71	20.04	19.91	19.62	19.42	19.25	19.06	18.73	18.98	19.52	19.53
21	19.28	19.85	20.00	19.84	19.65	19.46	19.17	19.09	18.69	18.89	19.47	19.85
22	19.09	19.93	19.97	19.90	19.67	19.51	19.16	19.08	18.71	18.88	19.51	19.77
23	19.15	19.90	19.92	20.00	19.70	19.56	19.13	18.98	18.71	18.92	19.57	19.65
24	19.39	19.95	20.03	19.89	19.77	19.55	19.07	18.95	18.65	19.04	19.56	19.70
25	19.41	19.95	19.91	19.91	19.84	19.55	19.05	18.95	18.72	18.92	19.46	19.73
26	19.40	19.98	19.84	19.92	19.81	19.42	19.07	18.99	18.67	18.84	19.71	19.88
27	19.31	20.08	19.79	19.78	19.86	19.47	19.04	19.00	18.72	18.90	19.54	19.79
28	19.29	19.95	19.82	19.81	19.86	19.47	19.14	18.96	18.71	18.95	19.48	.....
29	19.32	.....	19.85	19.89	19.82	19.47	19.25	18.92	18.60	18.86	19.54	19.87
30	19.25	.....	19.98	19.80	19.79	19.55	19.26	18.91	18.60	18.83	19.59	19.94
31	19.29	.....	20.08	.....	19.72	.....	19.27	18.91	.....	18.90	.....	19.87

N511. Irving Cox Estate. Clefths 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. Readings taken at or near high tide during day. Highest water level 21.52 above msl, Dec. 31, 1948; lowest 18.23 above msl, Aug. 1, 1950. Records available: 1947-51.

220 WATER LEVELS AND ARTESIAN PRESSURES, 1951, NORTHEASTERN STATES

N511--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	20.23	Apr. 25	20.28	Aug. 1	19.48	Oct. 31	21.03
Feb. 26	20.78	June 4	19.38	28	19.23	Nov. 28	20.38
Apr. 4	21.08	25	19.88	Sept. 26	19.68	Dec. 20	19.68

N575. Abraham and Strauss Store. Formerly Frederick Loeser and Co. 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, section 498-514, 534-539. Land-surface datum is 91.2 feet above msl. Water levels affected by nearby pumping. Highest water level 60.22 above msl, Apr. 26, 1949; lowest 52.44 above msl, Aug. 1, 1950. Records available: 1946-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	54.50	Apr. 24	56.83	July 25	53.82	Oct. 30	55.71
Feb. 27	55.04	May 28	56.45	Aug. 27	54.45	Nov. 28	53.00
Apr. 5	56.25	June 22	55.27	Sept. 25	55.89	Dec. 17	55.07

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. Land-surface datum is 9.0 feet above msl. Water level affected by tidal fluctuations. Highest water level 15.51 above msl, Nov. 25, 1950; lowest 12.95 above msl, Jan. 29, 1946. Records available: 1945-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.26	14.44	14.55	14.51	14.24	14.40	14.49	14.13	14.29	13.94	14.50	14.67
2	14.11	13.83	14.26	14.66	14.32	14.37	14.35	14.13	14.41	13.99	14.47	14.58
3	14.24	14.00	14.63	14.65	14.55	14.43	14.26	14.16	14.29	14.00	14.81	14.60
4	14.08	14.25	14.75	14.53	14.50	14.43	14.35	14.17	14.25	14.14	14.34	14.52
5	13.89	14.10	14.50	14.55	14.43	14.40	14.45	14.15	14.25	14.11	14.33	14.68
6	14.16	14.04	14.47	14.59	14.45	14.43	14.25	14.15	14.36	14.05	14.24	14.64
7	14.57	14.37	14.54	.....	14.44	14.37	14.28	14.17	14.25	14.21	14.47	14.48
8	14.37	13.67	14.50	.....	14.30	14.36	14.30	14.37	14.05	14.27	13.99	14.37
9	13.98	13.60	14.42	.....	14.25	14.40	14.22	14.20	14.09	13.81	14.07	14.54
10	.....	13.85	14.35	.....	14.10	14.75	14.14	14.17	14.03	14.11	14.26	14.27
11	14.35	13.95	14.50	.....	14.25	14.68	14.10	14.06	14.00	14.36	14.40	14.49
12	14.00	13.99	14.82	.....	14.13	14.55	14.10	14.07	14.00	13.85	14.52	14.63
13	14.22	14.03	14.74	.....	14.00	14.44	14.05	14.06	13.93	14.03	14.58	14.45
14	14.38	13.97	14.92	.....	13.90	14.70	13.96	14.02	13.96	14.00	14.55	14.28
15	14.47	14.02	14.50	14.45	13.89	14.60	13.92	14.06	14.09	14.04	14.53	14.45
16	13.75	13.95	14.35	14.50	13.90	14.55	13.88	14.18	14.10	14.05	14.63	13.92
17	14.03	14.07	14.23	14.40	13.93	14.51	13.87	14.25	14.08	14.12	14.56	14.18
18	14.21	14.26	14.28	14.30	.....	14.55	13.95	14.31	14.05	14.25	14.35	14.52
19	14.23	14.23	14.42	14.42	.....	14.54	14.05	14.24	13.95	14.14	14.35	14.04
20	14.22	14.35	14.50	14.31	.....	14.56	14.01	14.25	13.85	14.20	14.35	14.46
21	13.95	14.65	14.35	14.24	.....	14.56	14.04	14.25	13.78	14.18	14.30	14.74
22	13.77	14.50	14.40	14.37	.....	14.54	13.99	14.15	13.64	14.13	14.27	14.14
23	14.25	14.28	14.35	14.42	.....	14.51	14.00	14.06	13.68	14.08	14.31	14.16
24	14.54	14.15	14.50	14.25	.....	14.42	14.04	14.03	.....	14.10	14.36	14.35
25	14.38	14.36	14.20	14.36	.....	14.43	14.04	14.03	.....	13.98	14.41	14.50
26	14.38	14.40	14.20	14.39	14.13	14.42	14.02	14.12	.....	13.95	14.52	14.67
27	13.94	14.43	14.20	14.29	14.21	14.43	13.92	14.08	.....	14.15	14.10	14.40
28	14.15	14.30	14.20	14.26	.....	14.44	14.00	14.03	13.75	14.43	14.43	.....
29	14.22	.....	14.40	14.31	14.39	14.45	14.07	14.00	13.66	14.13	14.63	14.57
30	14.08	.....	14.62	14.32	.....	14.45	14.03	13.97	13.83	14.12	14.57	14.70
31	14.45	.....	14.55	.....	.....	.....	14.00	14.05	.....	14.27	.....	14.55

N844. Long Island Railroad. 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. Land-surface datum is 149.2 feet above msl. Highest water level 85.48 above msl, Aug. 5, 1939; lowest 78.87 above msl, Apr. 16, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	80.08	Apr. 25	80.59	July 26	81.22	Oct. 29	80.29
Feb. 28	79.99	May 31	81.27	Aug. 28	80.98	Nov. 27	80.16
Apr. 4	80.42	June 28	81.41	Sept. 25	81.01	Dec. 20	80.12

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 58.94 above msl, May 31, 1949; lowest 53.81 above msl, July 31, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	55.48	Apr. 25	55.65	July 26	55.47	Oct. 30	55.35
Mar. 1	55.42	June 4	55.69	Aug. 28	55.35	Nov. 26	55.72
Apr. 4	55.48	22	55.64	Sept. 26	55.19	Dec. 19	55.14

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 61.88 above msl, May 31, 1949; lowest 55.27 above msl, May 1, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	56.94	Apr. 26	57.77	Aug. 1	58.44	Oct. 30	58.15
Mar. 1	57.10	May 29	58.12	28	58.44	Nov. 26	58.34
30	57.34	June 26	58.32	Sept. 26	58.28	Dec. 19	58.30

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 36.94 above msl, Jan. 30, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	36.95	Apr. 26	38.88	Aug. 2	38.20	Oct. 30	37.13
Mar. 1	37.47	May 29	38.84	28	37.99	Nov. 26	37.39
30	38.22	June 26	38.52	Sept. 26	37.49	Dec. 19	37.57

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 24.42 above msl, Sept. 26, 1951. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	24.68	Apr. 26	25.78	Aug. 2	25.63	Oct. 30	24.88
Feb. 27	25.02	May 29	26.15	28	25.22	Nov. 26	26.76
Mar. 30	25.34	June 26	25.88	Sept. 26	24.42	Dec. 19	27.23

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 18.68 above msl, Dec. 1, 1941. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	19.58	Apr. 26	20.27	Aug. 2	19.84	Oct. 30	19.21
Feb. 27	20.32	May 29	20.35	28	19.46	Nov. 26	20.02
Mar. 30	20.21	June 26	19.85	Sept. 26	18.90	Dec. 19	20.18

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 11.62 above msl, Oct. 25, 1947. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	12.61	Apr. 26	13.41	Aug. 3	13.46	Oct. 30	12.99
Feb. 27	13.23	May 29	13.56	28	13.12	Nov. 26	13.44
Mar. 30	13.01	June 26	13.24	Sept. 26	12.82	Dec. 19	13.70

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 3.65 above msl, Sept. 26, 1951. Records available: 1939-51.

N1113--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 10, 1943	5.36	Jan. 6, 1949	7.99	May 23, 1950	5.06	Mar. 30, 1951	6.20
Jan. 19, 1944	6.23	June 15	5.08	June 28	4.78	Apr. 26	5.96
May 16	6.35	Nov. 1	4.08	July 31	4.27	May 14	5.49
Mar. 2, 1945	6.94	29	4.12	Aug. 30	4.94	29	6.04
July 5	5.54	Dec. 27	4.68	Sept. 1	5.09	June 26	5.19
Feb. 5, 1946	6.38	Jan. 24, 1950	4.86	26	4.90	Aug. 2	4.97
June 21	6.19	Feb. 28	5.60	Nov. 1	4.52	28	4.40
Sept. 24	4.77	Apr. 4	5.53	28	5.06	Sept. 26	3.65
Apr. 8, 1947	6.96	7	5.24	Dec. 20	5.58	Oct. 29	4.44
Oct. 27	4.16	13	5.14	Jan. 31, 1951	5.81	Nov. 23	5.69
Apr. 2, 1948	7.47	27	5.03	Feb. 27	6.83	26	5.84
July 14	6.85						

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 64.68 above msl, Oct. 31, 1949; lowest 59.13 above msl, Dec. 20, 1951. Records available: 1943-51.

Water level above msl

May 28, 1943	61.35	Dec. 8, 1948	61.82	Nov. 28, 1949	62.53	Jan. 30, 1951	60.57
Jan. 20, 1944	61.73	31	62.27	Dec. 29	62.86	Feb. 28	60.36
May 15	61.77	Jan. 7, 1949	61.85	Jan. 26, 1950	62.76	Apr. 4	60.31
Mar. 5, 1945	62.29	24	62.15	Feb. 28	62.82	26	60.38
July 7	63.00	Mar. 4	61.90	Apr. 3	62.51	May 15	61.23
Feb. 6, 1946	63.73	Apr. 1	62.23	14	62.61	June 4	61.99
Sept. 25	63.65	29	62.61	26	62.49	25	60.38
Apr. 10, 1947	62.60	May 27	62.68	June 2	63.90	July 26	61.95
Oct. 27	62.55	June 16	64.25	30	64.15	Aug. 28	61.95
Apr. 3, 1948	60.63	July 1	64.54	Aug. 1	63.23	Sept. 26	61.55
May 25	61.29	Aug. 8	63.29	30	62.97	Oct. 31	59.45
July 15	62.53	Sept. 6	64.20	Sept. 27	61.10	Nov. 23	59.57
Sept. 1	62.76	30	63.34	Oct. 31	61.89	28	59.18
Oct. 5	61.90	Oct. 31	64.68	Nov. 29	61.17	Dec. 20	59.13
27	61.49	Nov. 2	63.13	Dec. 19	60.85		

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: 1938-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	7.52	Apr. 26	8.32	Aug. 2	7.78	Oct. 29	7.19
Feb. 23	8.21	May 29	8.35	28	7.40	Nov. 26	7.97
Mar. 30	8.27	June 26	7.79	Sept. 25	7.14	Dec. 19	8.00

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 16.48 above msl, Nov. 1, 1950. Records available: 1939-51.

Water level above msl

Jan. 31	17.02	May 29	18.00	Aug. 28	17.71	Nov. 26	18.15
Feb. 27	17.82	June 26	18.20	Sept. 26	17.37	Dec. 19	18.33
Apr. 27	17.95	Aug. 1	18.23	Oct. 29	17.45		

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 9.34 above msl, Dec. 27, 1949. Records available: 1938-51.

N1167--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	10.98	Apr. 27	11.63	Aug. 1	10.91	Oct. 29	10.25
27	11.63	May 29	11.33	28	10.59	Nov. 27	11.00
Apr. 3	11.86	June 27	10.89	Sept. 26	10.13	Dec. 19	11.14

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: 1938-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	12.09	Apr. 27	12.63	Aug. 1	11.49	Oct. 29	11.54
23	12.46	May 31	11.98	27	11.60	Nov. 27	12.23
Apr. 3	12.75	June 27	11.61	Sept. 25	10.93	Dec. 19	12.86

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 12.26 above msl, Apr. 8, 1939; lowest 5.07 above msl, Jan. 26, 1950. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	11.49	Apr. 27	11.47	Aug. 1	11.41	Oct. 29	11.34
23	11.99	May 31	11.42	27	11.12	Nov. 27	11.96
Apr. 3	12.07	June 27	11.30	Sept. 25	11.07	Dec. 19	12.24

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 Magogy (?) formation, diameter 4 inches, depth 185 feet, screen 181-185. Land-surface datum is 228.2 feet above msl. Highest water level 88.94 above msl, Sept. 28, 1949; lowest 83.72 above msl, Jan. 20, 1943. Records available: 1943-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	84.32	84.16	84.03	84.26	84.55	84.76	84.75	84.41	84.64	84.50
2	.....	h84.46	84.34	84.21	84.30	84.32	84.46	84.69	84.72	84.40	84.77	84.42
3	84.95	.....	84.26	84.34	84.25	84.27	84.46	84.81	84.76	84.29	84.76	84.34
4	84.93	.....	84.45	84.10	84.19	84.33	84.58	84.68	84.72	84.38	84.54	84.51
5	84.65	.....	84.25	84.09	84.19	84.30	84.66	84.65	84.71	84.32	84.44	84.55
6	84.87	.....	84.31	84.09	84.15	84.31	84.50	84.67	84.80	84.08	84.47	84.43
7	84.85	.....	84.54	.....	84.16	84.33	84.47	84.74	84.86	84.12	84.98	84.39
8	84.89	.....	84.36	.....	84.13	84.30	84.51	84.82	84.71	84.11	84.67	84.41
9	84.81	.....	84.20	.....	84.13	84.39	84.56	84.72	84.73	84.04	84.47	84.53
10	84.81	h84.41	84.23	.....	84.06	84.41	84.56	84.71	84.77	84.08	84.58	84.37
11	84.68	.....	84.27	.....	84.20	84.36	84.57	84.71	84.78	84.17	84.57	84.50
12	84.74	.....	84.29	.....	84.20	84.30	84.62	84.72	84.76	.....	84.49	84.55
13	84.68	84.50	84.29	.....	83.96	84.33	84.56	84.72	84.78	.....	84.61	84.24
14	84.85	84.37	84.47	h84.18	83.89	84.50	84.59	84.72	84.79	.....	84.70	84.32
15	85.15	84.30	84.34	84.14	84.11	84.43	84.62	84.75	84.80	.....	84.56	84.59
16	84.69	84.44	84.24	84.07	84.21	84.39	84.64	84.82	84.79	84.50	84.69	84.14
17	84.67	84.58	84.14	84.05	84.16	84.38	84.63	84.78	84.80	84.45	84.58	84.21
18	84.71	84.57	84.10	84.02	84.08	84.40	84.61	84.78	.....	84.45	84.51	84.70
19	84.68	84.47	84.17	84.18	84.13	84.40	84.73	84.76	.....	84.45	84.48	84.19
20	84.72	84.51	84.39	83.98	84.23	84.43	84.63	84.77	.....	84.68	84.41	84.36
21	84.71	84.63	84.28	.....	84.27	84.45	84.67	84.84	84.77	84.53	84.38	84.65
22	.....	84.45	84.24	.....	84.29	84.44	84.67	84.82	84.84	84.55	84.53	84.24
23	84.61	84.38	84.24	.....	84.36	84.48	84.70	84.73	84.82	84.61	84.61	84.15
24	84.92	84.52	84.34	.....	84.31	84.45	84.66	h84.75	84.70	84.73	84.55	84.25
25	84.78	84.43	84.11	.....	84.30	84.53	84.67	.....	84.67	84.62	84.38	84.31
26	84.72	84.40	84.07	.....	84.27	84.44	84.72	.....	84.49	84.63	84.81	84.41
27	.....	84.48	84.11	.....	84.38	84.54	84.69	.....	84.65	84.80	84.40	84.19
28	.....	84.22	84.17	h84.16	84.37	84.50	84.66	.....	84.46	84.84	84.39	84.22
29	84.62	.....	84.20	84.28	.....	84.50	84.70	.....	84.24	84.54	84.45	84.35
30	.....	.....	84.35	84.07	.....	84.54	84.70	.....	84.29	84.56	84.47	84.42
31	.....	.....	84.21	.....	.....	84.74	84.80	.....	84.65	.....	.....	84.17

h Tape measurement.

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 9.67 above msl, Apr. 8, 1939; lowest 1.27 above msl, Jan. 31, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	9.06	Apr. 27	9.04	July 26	8.68	Oct. 29	8.71
Feb. 28	9.43	May 31	9.08	Aug. 27	8.68	Nov. 27	9.18
Apr. 3	9.45	June 27	8.96	Sept. 25	8.55	Dec. 19	9.36

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 11.29 above msl, Apr. 8, 1939; lowest 1.08 below msl, Jan. 24, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	10.46	Apr. 27	10.63	July 26	9.95	Oct. 29	10.19
23	10.72	May 31	10.57	Aug. 27	10.01	Nov. 27	10.47
Apr. 3	10.70	June 22	10.27	Sept. 25	9.75	Dec. 19	10.70

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: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	71.88	Apr. 24	71.17	July 25	71.17	Oct. 29	71.44
28	71.66	June 4	71.07	Aug. 27	71.32	Nov. 27	71.57
Apr. 4	71.35	28	71.10	Sept. 27	71.39	Dec. 20	71.66

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: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	76.88	Apr. 24	76.35	July 25	75.78	Oct. 29	76.29
28	76.64	June 4	75.63	Aug. 27	76.01	Nov. 27	76.39
Apr. 4	75.70	28	75.69	Sept. 27	76.16	Dec. 20	76.21

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 82.18 above msl, Aug. 29, 1949; lowest 76.85 above msl, Apr. 24, 1951. Records available: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	77.08	Apr. 24	76.85	July 25	77.45	Oct. 29	77.36
28	76.90	June 4	77.18	Aug. 27	77.58	Nov. 27	77.22
Apr. 4	76.86	28	77.26	Sept. 27	77.65	Dec. 20	77.35

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: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	70.75	Apr. 24	70.94	July 25	71.73	Oct. 29	71.10
26	70.53	June 4	71.55	Aug. 27	71.58	Nov. 27	70.89
Apr. 4	70.83	28	71.74	Sept. 27	71.33	Dec. 17	70.71

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: 1939-51.

N1249--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	51.45	Apr. 24	53.94	July 25	52.86	Oct. 29	51.98
Feb. 26	52.85	May 28	53.74	Aug. 27	52.41	Nov. 27	52.14
Mar. 29	53.27	June 27	53.35	Sept. 27	51.72	Dec. 17	52.24

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 49.64 above msl, Apr. 21, 1939; lowest 43.20 above msl, Jan. 30, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	44.54	Apr. 24	46.96	July 25	45.47	Oct. 29	43.95
26	46.12	May 28	46.56	Aug. 27	44.94	Nov. 27	44.96
Mar. 29	46.27	June 22	46.13	Sept. 27	44.29	Dec. 17	45.00

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 40.54 above msl, Apr. 29, 1944; lowest 35.57 above msl, Jan. 30, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	36.99	Apr. 24	39.11	July 25	37.66	Oct. 29	36.00
23	38.21	May 28	38.94	Aug. 27	37.06	Nov. 27	37.16
Mar. 29	38.75	June 22	38.45	Sept. 25	36.43	Dec. 17	37.35

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 26.29 above msl, June 5, 1946, May 30, 1948; lowest 22.48 above msl, Jan. 30, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	24.52	Apr. 27	25.68	July 26	24.49	Oct. 29	23.51
23	25.41	May 28	25.53	Aug. 27	24.15	Nov. 27	24.61
Mar. 29	25.51	June 22	25.12	Sept. 25	23.71	Dec. 19	24.93

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 16.89 above msl, Apr. 8, 1939; lowest 11.31 above msl, Jan. 31, 1942. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	15.04	Apr. 27	15.76	July 26	14.56	Oct. 29	14.33
23	15.69	May 28	15.49	Aug. 27	14.51	Nov. 27	15.20
Mar. 29	15.64	June 22	15.16	Sept. 25	14.09	Dec. 19	15.41

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 4.68 above msl, July 20, 1948; lowest 2.35 above msl, Dec. 29, 1949. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1, 1944	3.46	June 17, 1949	3.76	June 27, 1950	3.50	Mar. 29, 1951	3.83
May 8	4.06	Nov. 7	3.23	Aug. 1	3.28	Apr. 27	3.75
Mar. 12, 1945	3.73	Dec. 1	2.92	Aug. 29	3.52	May 19	4.08
July 13	3.66	29	2.35	Sept. 5	3.50	31	3.91
Feb. 15, 1946	4.14	Jan. 26, 1950	2.79	28	3.50	June 27	3.72
Sept. 25	3.62	Mar. 1	3.13	Nov. 2	3.50	July 26	3.49
Apr. 14, 1947	3.83	Apr. 4	3.29	30	3.66	Aug. 27	3.46
Oct. 25	3.19	19	3.38	Dec. 19	3.63	Sept. 25	3.33
Apr. 8, 1948	4.38	28	3.04	Feb. 1, 1951	3.72	Oct. 29	3.55
July 20	4.68	May 31	3.40	28	4.13	Nov. 30	4.03
Jan. 12, 1949	4.40						

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 58.39 above msl, Oct. 30, 1951. Records available: 1913-18, 1934-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	58.56	Apr. 24	60.97	July 25	59.87	Oct. 30	58.39
Feb. 27	59.41	May 28	60.84	Aug. 27	59.26	Nov. 28	59.04
Mar. 29	60.08	June 22	60.46	Sept. 25	58.68	Dec. 17	59.11

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, 1932-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	75.37	Apr. 24	76.64	July 25	76.64	Oct. 29	75.66
Feb. 26	75.12	June 4	76.69	Aug. 28	76.38	Nov. 27	75.70
Mar. 29	75.83	28	76.64	Sept. 25	76.12	Dec. 20	75.71

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 56.43 above msl, Apr. 29, 1939; lowest 47.83 above msl, Jan. 24, 1933. Records available: 1909-10, 1912-16, 1930-35, 1937-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	51.13	Apr. 24	53.77	July 25	52.55	Oct. 31	51.31
Feb. 26	52.12	May 28	53.42	Aug. 27	52.17	Nov. 27	52.04
Mar. 29	52.93	June 22	53.05	Sept. 25	51.67	Dec. 17	52.09

N1263. Nassau County Department of Public Works. Wantagh and Farmingdale Rds., 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. Measurements at replacement well (same description) 30 feet away, after Nov. 27, 1951. Highest water level 54.98 above msl, Apr. 22, 1939; lowest 46.22 above msl, Oct. 31, 1932. Records available: 1911-15, 1931-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	52.87	Apr. 24	52.37	July 25	51.02	Oct. 31	49.89
26	51.12	May 28	52.27	Aug. 27	50.86	Nov. 27	50.71
Mar. 29	51.55	June 22	51.56	Sept. 25	50.21	Dec. 17	50.79

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, 1937-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	8.18	Apr. 27	8.12	Aug. 1	7.94	Oct. 29	7.93
23	9.19	May 31	8.16	27	8.03	Nov. 27	8.74
Apr. 3	9.12	June 27	7.81	Sept. 25	7.84	Dec. 19	8.85

N1461. Nassau County Department of Public Works. New South Rd. and Long Island Railroad, Hicksville. Lat. 40°45'25", long. 73°30'20". Drilled observation artesian well in sands of Magothy (?) formation, diameter 6 inches, depth 73 feet, screen 63-73. Land-surface datum is 129.5 feet above msl. Highest water level 79.97 above msl, June 6, 1949; lowest 74.34 above msl, Oct. 10, 1943. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	75.27	Mar. 10	75.35	May 11	76.62	July 13	74.97
12	75.20	17	75.49	18	76.55	20	75.82
19	75.14	24	75.69	25	76.62	27	75.69
26	75.13	31	75.81	June 1	76.56	Aug. 3	75.61
Feb. 2	75.08	Apr. 7	76.00	8	76.45	10	74.52
10	75.04	14	76.16	15	76.47	17	75.38
17	75.06	21	76.33	22	76.36	24	75.28
24	75.23	28	76.46	30	76.25	31	75.16
Mar. 3	75.22	May 4	76.60	July 6	76.15	Sept. 7	75.11

N1461--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 14	75.00	Oct. 12	74.83	Nov. 10	75.04	Dec. 8	75.20
21	74.97	20	74.79	17	75.15	15	75.16
28	74.81	27	74.76	24	75.19	22	75.21
Oct. 5	74.85	Nov. 3	75.71	Dec. 1	75.17	29	75.44

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 66.66 above msl, May 24, 25, 1949; lowest 61.26 above msl, Nov. 1, 1947. Records available: 1943-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.80	61.86	62.58	63.62	63.84	63.80	63.43	62.94	62.59	62.08	62.07	62.64
2	61.78	62.03	62.61	63.56	63.87	63.79	63.40	62.91	62.58	62.07	62.12	62.63
3	61.76	61.96	62.64	63.61	63.86	63.77	63.38	62.89	62.57	62.05	62.29	62.62
4	61.76	61.94	62.69	63.67	63.85	63.74	63.36	62.88	62.56	62.04	62.46	62.62
5	61.74	61.95	62.72	63.66	63.85	63.72	63.35	62.86	62.54	62.02	62.45	62.63
6	61.73	61.96	62.74	63.65	63.84	63.71	63.33	62.84	62.53	62.00	62.43	62.63
7	61.75	62.00	62.77	.....	63.84	63.70	63.31	62.83	62.52	61.99	62.48	62.64
8	61.77	62.21	62.79	.....	63.82	63.67	63.29	62.82	62.51	62.41	62.60	62.64
9	61.72	62.17	62.81	.....	63.80	63.67	63.27	62.81	62.49	62.51	62.60	62.64
10	61.71	62.13	62.82	.....	63.76	63.67	63.24	62.80	62.47	62.40	62.61	62.63
11	61.70	62.12	62.84	.....	63.76	63.65	63.22	62.79	62.46	62.44	62.61	62.63
12	61.69	62.12	62.86	.....	63.83	63.63	63.20	62.78	62.43	62.37	62.61	62.64
13	61.68	62.13	62.87	.....	63.80	63.61	63.19	62.84	62.42	62.34	62.62	62.62
14	61.69	62.13	62.91	63.76	63.74	63.62	63.17	62.84	62.39	62.31	62.63	62.61
15	61.88	62.12	62.93	63.77	63.72	63.62	63.14	62.81	62.37	62.29	62.63	62.64
16	61.83	62.12	62.94	63.78	63.71	63.61	63.12	62.79	62.35	62.26	62.64	62.63
17	61.79	62.13	62.95	63.79	63.69	63.60	63.10	62.77	62.34	62.24	62.65	.....
18	61.77	62.23	62.95	63.80	63.66	63.58	63.08	62.75	62.32	62.21	62.65	.....
19	61.75	62.24	63.06	63.81	63.64	63.57	63.06	62.74	62.30	62.19	62.64	.....
20	61.74	62.24	63.06	63.82	63.64	63.55	63.03	62.72	62.28	62.17	62.64	.....
21	61.74	62.25	63.14	63.81	63.64	63.54	63.01	62.71	62.24	62.15	62.64	.....
22	61.72	62.46	63.12	63.82	63.63	63.52	62.99	62.72	62.22	62.13	62.63	.....
23	61.70	62.52	63.11	63.84	63.63	63.51	62.98	62.71	62.20	62.11	62.63	63.08
24	61.79	62.49	63.12	63.86	63.63	63.50	62.95	62.69	62.19	62.09	62.62	63.08
25	61.84	62.49	63.11	63.87	63.88	63.49	62.93	62.68	62.16	62.09	62.60	63.09
26	61.81	62.50	63.11	63.87	63.85	63.46	62.91	62.67	62.15	62.09	62.64	63.11
27	61.79	62.53	63.11	63.85	63.83	63.45	62.88	62.66	62.13	62.09	62.64	63.12
28	61.77	62.55	63.11	63.86	63.83	63.44	62.91	62.65	62.12	62.08	62.63	63.14
29	61.77	.....	63.11	63.88	63.83	63.44	62.97	62.63	62.10	62.07	62.64	63.18
30	61.75	.....	63.16	63.86	63.83	63.43	62.97	62.62	62.09	62.06	62.64	63.21
31	61.74	.....	63.58	.....	63.82	.....	62.96	62.60	.....	62.05	.....	63.22

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 41.68 above msl, Mar. 11, 12, 1949; lowest 36.61 above msl, Oct. 28, Nov. 3, 1947. Records available: 1943-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.02	37.58	39.13	39.55	39.68	39.12	38.65	38.11	37.47	36.82	37.06	38.17
2	37.03	37.65	39.17	39.57	39.66	39.10	38.63	38.08	37.46	36.79	37.11	38.16
3	37.04	37.65	39.20	39.68	39.63	39.07	38.61	38.05	37.46	36.77	37.34	38.14
4	37.06	37.68	39.25	39.72	39.58	39.05	38.60	38.02	37.45	36.77	37.51	38.14
5	37.07	37.71	39.26	39.79	39.54	39.20	38.58	37.96	37.39	36.78	37.59	38.17
6	37.08	37.73	39.26	39.83	39.51	39.16	38.54	37.91	37.38	36.76	37.64	38.19
7	37.09	37.78	39.30	39.87	39.48	39.14	38.50	37.90	37.38	36.74	37.77	38.17
8	37.12	37.90	39.31	.....	39.44	39.10	.....	37.91	37.33	37.04	37.88	38.16
9	37.12	37.95	39.31	.....	39.38	39.08	.....	37.91	37.29	37.07	37.93	38.17
10	37.12	38.04	39.32	.....	39.34	39.07	.....	37.88	37.26	37.06	37.99	38.15
11	37.13	38.09	39.33	.....	39.36	39.05	.....	37.84	37.26	37.08	38.03	38.15
12	37.15	38.13	39.32	.....	39.40	39.00	.....	37.82	37.23	37.10	38.06	38.15
13	37.16	38.17	39.31	.....	39.34	38.97	38.28	37.91	37.20	37.10	38.09	38.13
14	37.17	38.19	39.34	40.05	39.32	39.00	38.26	37.85	37.19	37.09	38.12	38.11
15	37.24	38.22	39.33	40.04	39.30	38.97	38.21	37.82	37.18	37.10	38.13	38.24

N1463--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	37.24	38.24	39.30	40.01	39.25	38.94	38.18	37.81	37.16	37.10	38.17	38.23
17	37.25	38.27	39.26	40.00	39.22	38.92	38.14	37.80	37.13	37.09	38.20	38.23
18	37.28	38.34	39.23	39.98	39.20	38.90	38.12	37.78	37.12	37.09	38.20	38.29
19	37.31	38.34	39.21	39.97	39.17	38.88	38.15	37.72	37.08	37.07	38.20	38.44
20	37.33	38.37	39.31	39.91	39.15	38.84	38.14	37.71	37.02	37.03	38.20	38.46
21	37.35	38.43	39.29	39.84	39.15	38.83	38.11	37.70	37.01	37.02	38.19	38.68
22	37.36	38.59	39.30	39.81	39.12	38.80	38.10	37.70	37.01	37.01	38.19	38.80
23	37.37	38.75	39.29	39.89	39.11	38.79	38.09	37.69	37.00	36.98	38.19	38.85
24	37.42	38.83	39.31	39.84	39.28	38.78	38.04	37.67	36.98	36.98	38.19	38.90
25	37.44	38.89	39.28	39.83	39.26	38.76	37.99	37.65	36.95	37.07	38.16	38.94
26	37.46	38.96	39.26	39.81	39.25	38.73	37.94	37.62	36.94	37.04	38.22	39.00
27	37.47	39.04	39.25	39.76	39.25	38.70	37.91	37.59	36.92	37.03	38.21	39.02
28	37.48	39.08	39.24	39.74	39.23	38.69	38.11	37.57	36.92	37.04	38.19	39.03
29	37.50		39.24	39.74	39.22	38.69	38.16	37.54	36.88	37.03	38.17	39.06
30	37.51		39.28	39.72	39.19	38.67	38.13	37.51	36.85	37.00	38.17	39.08
31	37.52		39.50		39.15		38.13	37.49		36.99		39.09

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, 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: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	16.03	Apr. 27	16.37	Aug. 1	15.91	Nov. 27	16.37
Feb. 28	16.96	May 31	16.28	Sept. 27	15.23	Dec. 19	16.53
Apr. 3	16.83	June 27	15.93	Oct. 29	15.48		

N1613. Long Island State Park Commission. Formerly Citizens Water Supply Co. North Valley Stream State Park, Valley Stream. Lat. 40°41'00", long. 73°41'20". Drilled unused artesian well in sands of Magothy (?) formation, diameter 6 inches, depth 496 feet. Land-surface datum is 24.4 feet above msl. Highest water level 24.56 above msl, July 28, 1948; lowest 20.83 above msl, Sept. 28, 1951. Records available: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	22.18	Apr. 26	23.30	Aug. 2	22.31	Oct. 30	21.78
27	22.95	May 29	23.06	28	22.02	Nov. 26	22.23
Mar. 30	23.18	June 26	22.28	Sept. 28	20.83	Dec. 19	22.83

N1614. Nassau County Department of Public Works. Formerly City of New York, Department of Water Supply, Gas and Electricity. 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 2 inches, depth 35 feet, screen 33-35. Land-surface datum is 100.7 feet above msl. Measurements taken at replacement well (same description) 13 feet away, after Nov. 28, 1951. Highest water level 72.48 above msl, May 31, 1949; lowest 61.90 above msl, Feb. 27, 1933. Records available: 1913-17, 1932-35, 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	65.99	Apr. 24	67.89	July 25	67.47	Nov. 28	66.13
26	66.18	May 28	67.79	Aug. 27	67.13	Dec. 17	65.92
Apr. 4	67.04	June 22	67.85	Sept. 20	66.72		

N1615. Nassau County Department of Public Works. Formerly City of New York, Department of Water Supply, Gas and Electricity. 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 26 feet, screen 24-26. Land-surface datum is 62.8 feet above msl. Highest water level 47.17 above msl, Mar. 28, 1939; lowest 41.49 above msl, Oct. 27, 1932. Records available: 1913-15, 1932-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	43.55	Apr. 24	45.35	July 25	43.98	Oct. 29	43.08
Feb. 26	44.57	May 28	45.00	Aug. 27	43.65	Nov. 28	43.95
Mar. 29	44.81	June 22	44.56	Sept. 25	43.17	Dec. 17	43.97

N1816. Nassau County Department of Public Works. Formerly City of New York, Department of Water Supply, Gas and Electricity. 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, 1932-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	79.77	Apr. 24	80.63	July 25	80.94	Oct. 29	80.08
Feb. 26	79.53	June 4	81.24	Aug. 28	80.70	Nov. 27	79.87
Mar. 29	80.04	28	81.15	Sept. 25	80.42	Dec. 20	79.85

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 63.29 above msl, May 31, 1949; lowest 57.80 above msl, Dec. 19, 1950. Records available: 1939-42 (as N1248), 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	58.14	Apr. 24	60.39	July 25	59.36	Oct. 29	57.99
Feb. 26	59.19	May 28	60.01	Aug. 27	58.96	Nov. 27	58.64
Mar. 29	59.51	June 27	59.82	Sept. 27	58.40	Dec. 17	58.50

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 69.39 above msl, Sept. 15, 1944; lowest 66.00 above msl, Jan. 29, 1951. Records available: 1938-42 (as N1180), 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	66.00	Apr. 24	67.96	July 25	67.04	Oct. 29	66.09
Feb. 26	66.74	May 28	67.77	Aug. 27	66.72	Nov. 28	66.55
Mar. 29	67.24	June 22	67.45	Sept. 25	66.30	Dec. 20	66.97

N1830. Nassau County Department of Public Works. South Tyson Ave. near Long Island Railroad, 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 49.05 above msl, June 7, 1942. Records available: 1939-42 (as N1106), 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	49.20	Apr. 26	50.30	Aug. 1	50.85	Oct. 30	49.95
Mar. 1	49.42	May 29	50.79	28	50.61	Nov. 26	50.30
30	49.77	June 26	50.86	Sept. 26	50.20	Dec. 19	50.15

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 33.71 above msl, Oct. 31, 1951; lowest 29.71 above msl, Mar. 14, 1946. Records available: 1946-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	32.11	Apr. 25	32.16	Aug. 28	33.55	Nov. 28	33.28
Feb. 28	31.94	June 4	32.72	Sept. 26	33.25	Dec. 20	32.86
Apr. 4	32.23	July 26	32.71	Oct. 31	33.71		

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, depth 266 feet. Land-surface datum is 5.1 feet above msl. Measurements taken at or near high tide. Highest water level 14.62 above msl, Mar. 15, 1946; lowest 5.37 above msl, June 28, 1949. Records available: 1946-51. Jan. 30, +8.54; Feb. 26, +11.40; Apr. 4, +8.93; Apr. 25, +9.55; June 4, +10.49; June 25, +9.90.

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: 1947-51. Jan. 30, +70.44; Feb. 28, +70.04; Nov. 2, +70.10.

N2528. Nassau County Department of Public Works. 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, slots 278-282. Land-surface datum is 92.5 above msl. Highest water level 72.16 above msl, June 5, 6, 1949; lowest 68.03 above msl, Jan. 22, 30, 1951. Records available: 1947-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.09	68.10	68.42	68.71	69.21	69.33	69.33	69.21	69.11	68.91	68.74	68.72
2	68.10	68.07	68.44	68.76	69.25	69.34	69.31	69.19	69.10	68.91	68.74	68.71
3	68.13	68.05	68.45	68.82	69.25	69.34	69.30	69.21	69.10	68.89	68.79	68.69
4	68.13	68.09	68.47	68.85	69.24	69.35	69.32	69.19	69.09	68.89	.....	68.69
5	68.08	68.09	68.47	68.89	69.24	69.35	69.34	69.17	69.08	68.89	.....	68.69
6	68.10	68.08	68.48	68.93	69.23	69.35	69.31	69.17	69.09	68.87	.....	68.68
7	68.12	68.15	68.51	.....	69.23	69.36	69.29	69.19	69.09	68.86	.....	68.66
8	68.11	68.13	68.51	.....	69.22	69.35	69.28	69.21	69.06	68.87	.....	68.65
9	68.07	68.09	68.50	.....	69.21	69.36	69.28	69.19	69.06	68.85	.....	68.67
10	68.07	68.09	68.50	.....	69.20	69.36	69.28	69.17	69.05	68.85	.....	68.64
11	68.09	68.16	68.51	.....	69.22	69.36	69.27	69.16	69.05	68.87	68.91	68.65
12	68.07	68.19	68.52	.....	69.24	69.34	69.27	69.16	69.04	68.85	68.90	68.65
13	68.04	68.19	68.52	.....	69.19	69.34	69.26	69.16	69.03	68.82	68.91	68.61
14	68.09	68.17	68.54	69.18	69.17	69.37	69.24	69.16	69.03	68.83	68.93	68.60
15	68.16	68.15	68.54	69.19	69.21	69.37	69.24	69.17	69.03	68.85	68.91	68.64
16	68.09	68.16	68.53	69.19	69.24	69.36	69.23	69.19	69.02	68.85	68.92	68.57
17	68.07	68.19	68.52	69.20	69.23	69.36	69.22	69.18	69.01	68.84	68.90	68.55
18	68.07	68.22	68.50	69.19	69.21	69.36	69.21	69.17	69.01	68.83	68.87	68.61
19	68.07	68.22	68.51	69.22	69.22	69.36	69.23	69.16	68.99	68.84	68.85	68.60
20	68.07	68.24	68.55	69.20	69.24	69.36	69.20	69.16	68.98	68.84	68.83	68.59
21	68.07	68.26	68.55	69.19	69.26	69.37	69.18	69.17	69.07	68.81	68.80	68.70
22	68.03	68.27	68.56	69.22	69.26	69.35	69.18	69.17	68.96	68.81	68.80	68.71
23	68.05	68.28	68.57	69.22	69.27	69.36	69.19	69.14	68.96	68.81	68.81	68.72
24	68.10	68.32	68.59	69.21	69.28	69.35	69.18	69.14	68.94	68.81	68.80	68.77
25	68.09	68.35	68.58	69.24	69.29	69.36	69.17	69.14	68.95	68.80	68.76	68.81
26	68.08	68.38	68.58	69.24	69.30	69.34	69.17	69.14	68.93	68.78	68.82	68.85
27	68.06	68.41	68.59	69.21	69.32	69.35	69.17	69.14	68.93	68.80	68.77	68.85
28	68.05	68.40	68.61	69.23	69.32	69.34	69.16	69.14	68.93	68.80	68.73	68.86
29	68.05	.....	68.62	69.26	69.33	69.33	69.19	69.13	68.90	68.76	68.73	68.89
30	68.03	.....	68.65	69.22	69.33	69.33	69.19	69.13	68.90	68.75	68.73	68.92
31	68.05	.....	68.67	.....	69.33	.....	69.20	69.13	.....	68.75	.....	68.90

N2635. Nassau County Department of Public Works. 50 feet east of Washington St. and 650 feet south of 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, slots 150-154. Land-surface datum is 40.3 feet above msl. Highest water level 27.30 above msl, May 23, 1949; lowest 23.77 above msl, Jan. 22, 23, 1951. Records available: 1948-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.82	23.97	24.18	24.64	24.98	25.35	25.43	.....	25.23	24.99	25.02	25.13
2	23.82	23.91	24.21	24.67	25.02	25.36	25.41	.....	25.23	25.00	25.03	25.12
3	23.86	23.87	24.21	24.78	25.02	25.35	25.38	.....	25.23	24.99	25.17	25.09
4	23.87	23.91	24.28	24.76	25.03	25.37	25.39	25.41	25.22	24.99	25.14	25.10
5	23.82	23.91	24.27	24.77	25.03	25.38	25.42	25.38	25.20	24.99	25.10	25.14
6	23.82	23.89	24.26	24.77	25.02	25.37	25.39	25.36	25.20	24.96	25.09	25.15
7	23.87	23.98	24.31	.....	25.02	25.37	25.36	25.36	25.22	24.97	25.27	25.13
8	23.89	23.97	24.31	.....	25.02	25.36	25.33	25.39	25.18	25.10	25.28	25.13
9	23.83	23.90	24.29	.....	25.02	25.37	25.32	25.35	25.16	25.08	25.26	25.13
10	23.82	.....	24.27	.....	25.00	25.38	25.31	25.33	25.15	25.08	25.26	25.11
11	23.85	23.93	24.28	.....	25.05	25.38	25.31	25.33	25.14	25.16	25.29	25.10
12	23.82	23.97	24.29	.....	25.11	25.36	25.31	25.33	25.13	25.14	25.27	25.12
13	23.79	23.96	24.30	.....	25.09	25.35	25.30	25.32	25.13	25.09	25.28	25.08
14	23.82	23.94	24.37	.....	25.06	25.41	25.29	25.29	25.13	25.07	25.31	25.04
15	23.94	23.91	24.39	24.88	25.06	25.43	25.29	25.29	25.12	25.09	25.31	25.15
16	23.87	23.90	24.37	24.88	25.08	25.42	25.28	25.32	25.12	25.08	25.33	25.07
17	23.84	23.96	24.34	24.88	25.07	25.40	25.33	.....	25.11	25.06	25.31	25.03
18	23.84	24.01	24.33	24.87	25.07	25.39	25.33	.....	25.10	25.05	25.29	25.13
19	23.83	24.00	24.33	24.89	25.08	25.38	25.38	.....	25.07	25.05	25.25	25.12
20	23.83	24.03	24.45	24.87	25.11	25.36	25.40	.....	25.05	.....	25.21	25.12
21	23.83	24.10	24.43	24.85	25.14	25.36	25.37	.....	25.03	25.04	25.18	25.17
22	23.77	24.15	24.42	24.86	25.16	25.36	25.36	.....	25.04	25.01	25.17	25.24
23	23.82	24.12	24.42	24.93	25.18	25.38	25.36	.....	25.07	25.00	25.19	25.22
24	23.88	24.14	24.47	24.91	25.29	25.40	25.34	.....	25.05	25.02	25.19	25.24
25	23.89	24.16	24.45	24.92	25.28	25.39	25.32	.....	25.07	25.03	25.15	25.25

N2635--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	23.88	24.17	24.43	24.95	.....	25.36	25.30	25.26	25.04	25.01	25.24	25.32
27	23.87	24.20	24.42	24.92	25.32	25.39	.....	25.26	25.05	25.03	25.19	25.29
28	23.86	24.18	24.44	24.92	25.35	25.38	.....	25.27	25.03	25.06	25.15	25.29
29	23.88		24.48	24.99	25.37	25.38	.....	25.25	24.99	25.01	25.14	25.31
30	23.85		24.60	25.00	25.38	25.41	.....	25.25	24.97	24.98	25.14	25.33
31	23.86		24.66		25.36		.....	25.25		24.97		25.32

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 6 to 4 inches, depth 560 feet, screen 538-560. Land-surface datum is 4.1 feet above msl. Highest water level 5.95 above msl, Mar. 14, 1951; lowest 3.00 above msl, July 4, 1950. Records available: 1950-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	5.46	5.48	4.95	....	5.12	5.02	4.36	4.28	4.90	5.00
2	....	....	5.39	5.59	5.06	5.30	5.04	4.88	4.54	4.32	5.02	4.89
3	4.63	....	5.52	5.73	5.07	5.14	4.93	4.92	4.64	4.34	5.26	4.89
4	4.63	....	5.74	5.69	5.13	5.13	4.94	4.85	4.60	4.51	5.15	4.92
5	4.36	....	5.65	5.70	5.10	5.07	4.97	4.79	4.53	4.60	5.03	4.98
6	4.47	....	5.58	5.61	4.96	5.19	4.80	4.78	4.57	4.51	4.99	4.97
7	4.68	5.13	5.67	5.65	4.88	5.14	4.73	4.76	4.63	4.57	5.53	4.88
8	....	....	5.54	....	4.85	5.07	4.62	4.96	4.48	4.78	5.36	4.80
9	....	....	5.37	....	4.76	5.16	4.52	4.99	4.47	4.63	5.05	4.82
10	....	....	5.31	....	4.67	5.30	4.43	4.94	4.44	4.74	5.10	4.65
11	....	....	5.43	....	4.74	5.41	4.32	4.87	4.39	5.00	5.09	4.72
12	4.49	....	5.63	....	5.04	5.34	4.29	4.89	4.40	4.83	5.12	4.81
13	4.41	....	5.71	....	4.91	5.23	4.32	4.89	4.38	4.74	5.20	4.72
14	4.66	4.78	5.95	....	4.80	5.39	4.33	4.89	4.42	4.75	5.27	....
15	4.95	....	5.77	5.54	4.74	5.37	4.28	4.92	4.45	4.79	5.20	....
16	4.47	....	5.56	5.46	4.71	5.33	4.21	4.93	4.50	4.76	5.30	....
17	4.47	....	5.33	5.39	4.62	5.27	4.18	4.90	4.47	4.80	5.24	....
18	4.59	4.92	5.24	5.33	4.78	5.18	4.37	4.84	4.46	4.90	5.07	....
19	4.61	4.94	5.33	5.37	4.93	5.08	4.61	4.74	4.42	4.91	5.01	....
20	4.69	....	5.54	5.23	5.00	5.02	4.70	4.69	4.27	....	4.95	....
21	4.62	....	5.42	5.12	5.13	4.96	4.72	4.74	4.21	4.77	4.92	....
22	....	....	5.37	5.16	5.19	4.83	4.72	4.74	4.22	4.73	4.91	....
23	....	....	5.43	5.17	5.24	4.98	4.67	4.65	4.21	4.69	4.89	....
24	4.82	5.30	5.47	5.06	5.44	5.02	4.61	4.64	4.22	4.73	4.83	4.60
25	4.80	5.33	5.23	5.12	5.52	5.01	4.53	4.63	4.33	4.64	4.75	....
26	4.40	5.39	5.13	5.16	5.51	4.83	4.44	4.69	4.28	4.62	....	4.82
27	....	5.45	5.09	4.93	5.55	4.91	4.34	4.66	4.46	4.68	....	....
28	....	5.29	5.08	4.96	5.59	4.90	4.60	4.61	4.35	4.79	4.86	....
29	....	....	5.15	5.01	5.63	4.86	4.92	4.52	4.17	4.63	4.95	....
30	....	....	5.40	4.96	5.58	5.05	5.03	4.47	4.18	4.60	5.00	4.83
31	....	....	5.50	....	....	....	5.04	4.40	....	....	....	4.85

Queens County

Q64. American Ice Co. 83d St. and 45th Ave., Elmhurst. Lat. 40°44'30", long. 73°52'50". Drilled unused artesian well 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 1.68 below msl, Dec. 21, 1951; lowest 68.90 below msl, Nov. 2, 1947. Records available: 1947-51.

Daily mean water level below msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.46	9.10	5.66	....	....	....	....	2.99	....	2.19
2	11.50	8.87	5.43	....	....	....	....	2.98	....	2.20
3	11.63	8.57	5.34	....	....	....	....	3.01	....	2.27
4	11.57	8.50	5.28	....	....	....	....	2.97	....	2.19
5	11.56	8.38	5.23	....	....	....	....	2.91	....	2.08
6	11.53	8.36	5.20	....	....	....	....	2.93	2.72	2.10
7	11.35	....	5.14	....	....	....	....	3.00	2.37	2.13
8	11.36	....	5.13	....	....	....	....	2.87	2.34	2.11
9	11.50	....	5.10	....	....	....	....	2.93	2.47	2.03
10	11.58	....	5.12	....	....	....	....	2.95	2.46	2.06

Q64--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	11.58	....	4.98	....	....	....	....	2.84	2.42	1.98
12	11.51	....	4.87	h3.89	....	....	....	2.88	2.46	1.85
13	11.45	7.10	4.99	....	....	....	....	3.03	2.37	2.00
14	11.31	6.99	5.09	....	....	....	....	3.07	2.28	2.11
15	11.33	6.92	5.00	h3.76	....	....	....	2.99	2.25	1.82
16	11.54	11.43	6.83	4.85	....	....	....	....	2.95	2.15	2.10
17	11.50	11.57	6.76	4.81	....	....	....	....	2.93	2.14	2.18
18	11.46	11.67	6.72	4.87	....	....	....	....	2.90	2.20	1.85
19	11.42	11.65	6.54	....	....	....	....	....	2.83	2.22	1.95
20	11.36	11.42	6.54	....	....	....	....	....	2.83	2.30	1.97
21	11.26	11.40	6.53	....	....	....	....	h3.34	2.87	2.38	1.68
22	11.30	11.23	6.43	....	....	....	....	....	....	2.34	1.82
23	11.40	11.10	6.26	....	....	....	....	....	....	2.23	1.99
24	11.38	10.77	6.26	....	....	....	h3.29	....	....	2.19	1.98
25	11.40	10.68	6.12	4.29	....	....	....	....	....	2.32	2.00
26	11.34	10.56	5.97	4.25	....	....	....	....	....	2.04	1.83
27	11.22	10.40	6.02	4.16	....	....	....	....	....	2.17	1.97
28	11.38	10.15	5.88	4.14	....	....	....	h3.24	....	2.27	2.00
29	9.88	5.65	4.11	....	....	....	....	....	2.26	1.91
30	9.53	5.64	4.15	....	....	....	....	....	2.23	1.80
31	h10.97	....	9.26	....	4.16	....	....	h3.24	....	....	....	1.89

h Tape measurement.

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 8.47 above msl, Apr. 20, 1939; lowest 1.12 above msl, Mar. 21, 1942. Records available: 1935-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.08	3.25	3.71	3.65	3.54	3.58	3.54	3.28	3.19	3.32	3.39	3.41
2	3.05	3.31	3.70	3.64	3.59	3.60	3.49	3.21	3.13	3.41	3.36	3.43
3	3.15	3.21	3.65	3.75	3.66	3.57	3.44	3.24	3.18	3.39	3.56	3.35
4	3.26	3.34	3.71	3.68	3.63	3.57	3.49	3.22	3.21	3.38	3.44	3.39
5	3.12	3.44	3.71	3.61	3.59	3.57	3.61	3.14	3.21	3.41	3.26	3.51
6	3.07	3.45	3.65	....	3.55	3.54	3.54	3.14	3.25	3.37	3.14	3.54
7	3.19	3.69	3.76	....	3.52	3.55	3.43	3.22	3.32	3.29	3.43	3.47
8	3.29	3.82	3.81	....	3.48	3.54	3.36	3.32	3.23	3.37	3.57	3.47
9	3.13	3.58	3.71	....	3.44	3.56	3.35	3.31	3.19	3.32	3.41	3.52
10	3.05	3.49	3.62	....	3.34	3.61	3.34	3.24	3.19	3.27	3.35	3.51
11	3.12	3.61	3.61	....	3.44	3.63	3.30	3.20	3.20	3.40	3.38	....
12	3.13	3.74	3.64	....	3.56	3.60	3.30	3.18	3.16	3.37	3.34	3.63
13	3.07	3.81	3.69	....	3.45	3.58	3.26	3.21	3.16	3.22	3.38	3.33
14	3.12	3.72	3.79	3.71	3.30	3.71	3.22	3.19	3.17	3.16	3.50	3.35
15	3.48	3.55	3.76	3.68	3.34	3.72	3.21	3.21	3.17	3.25	3.52	3.57
16	3.44	3.46	3.67	3.63	3.49	3.65	3.21	3.28	3.16	3.31	3.54	3.40
17	3.30	3.48	3.55	3.60	3.53	3.60	3.20	3.29	3.19	3.31	3.53	3.25
18	3.30	3.55	3.40	3.57	3.44	3.58	3.17	3.24	3.20	3.29	3.45	3.45
19	3.29	3.45	3.31	3.64	3.42	3.57	3.27	3.18	3.16	3.33	3.38	3.53
20	3.27	3.43	....	3.62	3.51	3.57	3.31	3.18	3.11	3.34	3.31	3.41
21	3.33	3.55	....	3.53	3.64	3.57	3.23	3.23	3.09	3.27	3.25	3.66
22	3.17	3.71	....	3.54	3.71	3.54	3.24	3.25	3.12	3.23	3.28	3.63
23	3.10	3.66	3.49	3.66	3.79	3.54	3.30	3.16	3.19	3.25	3.38	3.42
24	3.36	3.68	3.57	3.60	3.86	3.52	3.29	3.14	3.14	3.34	3.45	3.37
25	3.43	3.79	3.55	3.63	3.72	3.52	3.25	3.19	3.22	3.39	3.34	3.36
26	3.40	3.85	3.43	3.73	3.65	3.47	3.24	3.23	3.21	3.38	3.51	3.53
27	3.28	3.95	3.35	3.63	3.69	3.49	3.24	3.28	3.27	3.41	3.48	3.48
28	3.14	3.86	3.36	3.62	3.72	3.52	3.30	3.30	3.33	3.50	3.32	3.41
29	3.11	....	3.45	3.75	3.73	3.48	3.24	3.27	3.24	3.41	3.32	3.46
30	3.03	....	3.62	3.71	3.68	3.49	3.24	3.25	3.21	3.29	3.35	3.58
31	2.98	....	3.73	....	3.62	....	3.27	3.23	....	3.32	....	3.58

Q278. 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 18 inches, depth 512 feet, screen 380-411, 427-447, and 461-512. Land-surface datum is 16.0 feet above msl. Water levels affected by nearby pumping. Highest water level 5.11 above msl, Nov. 29, 1946; lowest 6.86 below msl, July 25, 1951. Records available: 1946-51.

Q278--Continued.

Water level above and below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	+0.21	Apr. 26	+1.66	June 26	-4.70	Aug. 29	-5.85
Feb. 28	+2.78	June 1	-2.91	July 25	-6.86	Sept. 27	-6.45
Mar. 28	+1.97						

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 feet above msl. Highest water level 2.73 below msl, Feb. 28, 1951; lowest 10.26 below msl, Sept. 3, 1947, Sept. 27, 1951. Records available: 1946-51.

Water level below msl

Jan. 31	6.44	Apr. 26	4.91	July 25	10.17	Nov. 2	9.41
Feb. 28	2.73	June 1	7.44	Aug. 29	9.90	29	9.08
Mar. 28	4.95	26	8.54	Sept. 27	10.26	Dec. 21	8.00

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. 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: 1937-51.

Water level above msl

Mar. 27	1.48	June 27	1.58	Sept. 25	1.24	Nov. 29	1.84
May 1	1.65	July 25	1.32	Oct. 31	1.43	Dec. 21	1.97
31	1.77	Aug. 27	1.52				

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 6.78 above msl, Jan. 8, 1938; lowest 12.75 below msl, July 15, 1937. Records available: 1933-51.

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	+0.79	+0.84	+2.62	+2.21	+1.85	-0.87	-2.43	-4.14	-3.63	-4.10	-3.02	-2.17
2	.79	.84	2.64	2.26	1.81	.93	2.42	4.14	3.68	4.00	2.98	2.12
3	.81	.80	2.68	2.33	1.80	1.02	2.41	4.12	3.73	3.93	2.90	2.09
4	.83	.80	2.71	2.37	1.77	1.11	2.40	4.10	3.75	3.88	2.87	2.05
5	.82	.83	2.74	2.39	1.73	1.23	2.38	4.08	3.75	3.85	2.86	1.97
6	.79	.86	2.75	2.40	1.64	1.34	2.37	4.06	3.74	3.82	2.85	1.90
7	.79	.92	2.77	....	1.50	1.44	2.38	4.02	3.72	3.82	....	1.86
8	.83	1.01	2.79	....	1.32	1.54	2.41	3.98	3.71	3.78	....	1.80
9	.82	1.00	2.78	....	1.13	1.65	2.44	3.94	3.71	3.76	....	1.71
10	.79	1.00	2.75	....	.90	1.72	2.51	3.89	3.71	3.73	....	1.64
11	.78	1.04	2.71	....	.63	1.75	2.62	3.85	3.70	3.68	....	1.57
12	.78	1.13	2.71	....	.40	1.77	2.76	3.79	3.72	3.63	....	1.44
13	.76	1.22	2.71	....	.20	1.80	2.91	3.73	3.78	3.60	....	1.37
14	.75	1.32	2.73	....	+.04	1.82	3.08	3.68	3.83	3.58	....	1.36
15	.82	1.40	2.74	2.46	-.09	1.82	3.25	3.65	3.87	3.53	....	1.26
16	.86	1.52	2.73	2.43	.18	1.81	3.43	3.64	3.92	3.48	....	1.23
17	.85	1.65	2.68	2.42	.28	1.79	3.62	3.63	3.97	3.45	....	1.25
18	.87	1.79	2.60	2.39	.42	1.76	....	3.62	3.98	3.41	....	1.20
19	.90	1.89	2.51	2.37	.58	1.73	....	3.62	4.01	3.38	....	1.12
20	.92	1.99	2.46	2.34	.71	1.74	....	3.63	4.07	3.36	....	1.10
21	.94	2.08	2.40	2.29	.78	1.78	4.07	3.64	4.16	3.34	....	.98
22	.91	2.17	2.35	2.22	.78	1.86	4.09	3.66	4.26	3.33	....	.89
23	.87	2.20	2.30	2.19	.74	1.95	4.10	3.70	4.37	3.31	2.25	.90
24	.89	2.27	2.27	2.13	.68	2.04	4.07	3.73	4.46	3.29	2.25	.90
25	.93	2.32	2.22	2.08	.66	2.10	4.06	3.73	4.47	3.26	2.27	.90
26	.95	2.39	2.17	2.04	.69	2.16	4.07	3.73	4.45	3.25	2.23	.85
27	.95	2.49	2.13	1.99	.72	2.23	4.11	3.69	4.38	3.23	2.21	.85
28	.93	2.57	2.11	1.94	.74	2.30	4.18	3.64	4.29	3.17	2.22	.86
29	.92		2.10	1.90	.74	2.38	4.22	3.61	4.24	3.11	2.20	.85
30	.89		2.13	1.89	.76	2.42	4.22	3.60	4.19	3.09	2.20	.80
31	.84		2.17		.80		4.18	3.60		3.07		.75

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. 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: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 28	15.68	May 29	15.58	Aug. 29	15.20	Nov. 30	15.15
Mar. 28	15.77	June 26	15.34	Sept. 27	15.07	Dec. 21	15.16
Apr. 26	15.92	July 25	15.17	Nov. 2	15.23		

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. Land-surface datum is 7.4 feet above msl. Water levels affected by tidal fluctuation; extremes were not determined as water levels were computed on different bases for period of record. Records available: 1932, 1936-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.71	10.31	10.65	10.67	10.22	9.52	8.63	7.25	6.86	....	....	8.97
2	9.55	9.29	10.29	10.79	10.43	9.57	8.41	7.15	7.09	....	....	8.78
3	9.70	9.61	10.79	10.88	10.65	9.55	8.29	7.16	6.90	....	....	8.85
4	9.56	10.21	10.90	10.62	10.82	9.67	8.40	7.21	6.79	....	....	8.96
5	9.21	9.86	10.58	10.59	10.57	9.54	8.47	6.97	6.72	7.71	....	....
6	9.62	9.84	10.41	....	10.45	9.55	8.16	6.96	6.90	7.59	....	....
7	10.12	10.58	10.59	....	10.48	9.45	8.21	7.06	6.95	7.86	....	8.82
8	9.91	9.22	10.54	....	10.32	9.38	8.14	7.26	6.73	7.63	....	8.62
9	9.46	9.20	10.29	....	10.29	9.53	8.13	7.09	6.79	7.22	....	8.82
10	9.53	9.64	10.13	....	10.12	9.96	7.99	....	6.79	7.51	....	8.49
11	9.83	10.02	10.54	....	10.42	9.80	7.94	6.85	6.73	7.92	....	9.01
12	9.56	10.05	11.10	....	10.33	9.51	7.98	6.83	6.72	7.26	....	9.33
13	9.53	10.05	11.13	....	9.97	9.36	....	6.86	6.71	7.25	....	8.90
14	10.00	9.96	11.37	10.78	9.71	9.57	7.75	6.80	....	7.21	....	8.78
15	10.28	....	10.92	10.65	9.72	9.20	7.62	6.81	....	7.40	....	8.95
16	9.31	....	10.73	10.53	9.86	9.18	7.66	6.86	....	7.48	....	8.02
17	9.57	10.00	10.41	10.27	10.13	9.10	7.65	7.01	7.01	7.66	....	8.29
18	9.88	10.12	10.33	10.24	10.50	9.09	7.66	6.95	6.96	7.92	....	9.06
19	9.95	10.20	10.62	10.39	....	9.05	7.73	6.81	6.86	7.91	....	8.54
20	9.95	10.45	10.66	10.22	....	9.05	7.55	6.80	6.79	7.92	....	8.85
21	9.70	10.88	10.49	10.10	10.03	9.09	7.48	6.92	6.82	7.83	....	9.61
22	9.30	10.72	10.45	10.26	10.09	9.00	7.34	6.68	6.90	7.80	....	8.65
23	9.74	10.27	10.67	10.21	10.23	8.98	7.32	6.60	6.87	7.77	....	8.29
24	10.34	10.02	10.63	10.00	10.36	8.83	7.42	6.69	6.81	8.00	....	8.50
25	10.10	10.40	10.16	10.16	10.27	8.82	7.40	6.69	6.96	7.64	....	8.87
26	10.07	10.52	10.12	10.09	10.13	8.74	7.33	6.88	6.80	7.69	....	8.90
27	9.73	10.55	10.11	10.05	10.23	8.73	7.20	6.79	7.05	7.96	....	8.63
28	9.71	10.27	10.19	10.18	10.23	8.71	7.23	6.74	....	8.41	....	8.79
29	9.81	....	10.39	10.32	10.17	8.68	7.21	6.76	....	8.04	8.80	9.03
30	9.68	....	10.89	10.32	9.93	8.67	7.17	6.77	....	8.00	8.80	9.30
31	9.91	....	10.62	....	9.69	....	7.13	6.85	....	....	....	9.13

Q1027. City of New York, Department of Parks. Rodman Ave. and 58th Ave., 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 8.30 above msl, May 7, 1949; lowest 4.08 above msl, Mar. 20, 1942. Records available: 1942-43, 1946-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	6.79	6.84	....	7.45	7.60	7.58	7.38	7.19	7.09	7.17	7.29
2	....	6.62	6.83	7.27	7.53	7.61	7.53	7.33	7.20	7.14	7.18	7.27
3	....	6.55	6.85	....	7.56	7.60	7.51	7.35	7.21	7.13	7.42	7.24
4	....	6.66	6.98	....	7.53	7.63	7.54	7.30	7.20	7.16	7.25	7.28
5	7.00	6.65	6.95	7.29	7.50	7.63	7.61	7.27	7.18	7.17	7.13	7.33
6	6.66	6.58	6.96	....	7.48	7.62	7.53	7.29	7.22	7.12	7.09	7.26
7	6.77	6.80	7.04	....	7.45	7.61	7.48	7.32	7.24	7.14	7.38	7.22
8	6.81	....	7.01	....	7.40	7.57	7.47	7.39	7.16	7.22	7.35	7.21
9	6.67	....	6.96	....	7.37	7.59	7.48	7.35	7.15	7.13	7.19	7.25
10	6.65	6.60	6.90	....	7.32	7.64	7.46	7.31	7.16	7.13	7.20	7.23

Q1027--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	6.65	6.72	6.94	....	7.42	7.63	7.42	7.27	7.17	7.25	7.25	7.32
12	6.53	6.77	7.00	....	7.49	7.60	7.43	7.28	7.14	7.12	7.26	7.37
13	6.50	6.76	7.02	....	7.36	7.58	7.40	7.33	7.14	7.01	7.32	7.27
14	6.61	6.71	7.17	....	7.31	7.71	7.39	7.31	7.13	7.03	7.38	7.21
15	6.83	6.62	7.11	....	7.37	7.69	7.40	7.31	7.14	7.09	7.35	7.42
16	6.67	6.61	7.07	....	7.43	7.64	7.42	7.35	7.14	7.10	7.39	7.21
17	6.61	6.69	7.00	....	7.45	7.61	7.43	7.33	7.15	7.09	7.38	7.18
18	6.64	6.76	6.92	....	7.45	7.62	7.41	7.30	7.15	7.09	7.34	7.39
19	6.63	6.75	6.95	....	7.44	....	7.42	7.26	7.11	7.09	7.32	7.27
20	6.63	6.79	7.14	....	7.47	....	7.40	7.27	7.06	7.06	7.27	7.28
21	6.60	6.92	7.09	7.30	7.53	....	7.37	7.30	7.05	7.01	7.17	7.49
22	6.48	6.98	7.06	7.37	7.55	....	7.38	7.26	7.06	7.01	7.19	7.28
23	6.52	6.85	7.07	7.46	7.61	7.62	7.39	7.21	7.10	7.02	7.26	7.22
24	6.70	6.82	7.13	7.42	7.74	7.60	7.36	7.19	7.06	7.06	7.26	7.28
25	6.67	6.86	7.02	7.43	7.65	7.61	7.34	7.19	7.12	7.06	7.18	7.31
26	6.68	6.84	6.97	7.44	7.61	7.58	7.32	7.21	7.03	....	7.39	7.39
27	6.61	6.87	6.94	7.32	7.65	7.60	7.29	7.24	7.05	....	7.27	7.29
28	6.59	6.81	6.97	7.34	7.67	7.58	7.36	7.23	7.04	7.13	7.24	7.28
29	6.63		7.03	7.47	7.69	7.56	7.38	7.22	6.99	7.06	7.28	7.37
30	6.57		7.21	7.48	7.65	7.58	7.38	7.22	7.01	7.04	7.29	7.45
31	6.61		....		7.61		7.38	7.20		7.07		7.40

Q1089. City of New York, Department of Water Supply, Gas and Electricity. North Conduit Ave. near L. I. R. R., 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, 1941-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	1.86	May 1	2.39	July 25	2.12	Oct. 31	2.24
Feb. 26	2.01	31	2.60	Aug. 29	2.33	Nov. 29	2.57
Mar. 27	2.38	June 27	2.40	Sept. 25	2.11	Dec. 21	2.46

Q1152. City of New York, Department of Water Supply, Gas and Electricity. Sunrise Highway and 131st St., South Ozone Park. Lat. 40°40'00", long. 73°48'30". Drilled observation artesian well in Jameco gravel, diameter 6 inches, depth 184 feet. Land-surface datum is 9.0 feet above msl. Highest water level 2.22 above msl, May 31, 1951; lowest 6.12 below msl, Mar. 28, 1950. Records available: 1947-51.

Water level above and below msl

Feb. 26	-0.21	May 31	+2.22	Aug. 27	+0.23	Nov. 29	+0.37
Mar. 27	-.79	June 27	-.89	Sept. 25	+.45	Dec. 21	-.49
May 1	-.06	July 25	-1.05	Oct. 31	+.72		

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 4.35 above msl, Dec. 1, 1945; lowest 9.19 below msl, Feb. 28, 1942. Records available: 1940-51.

Water level above msl

Feb. 1	1.62	Apr. 26	2.14	July 25	0.59	Nov. 1	0.51
28	2.30	May 29	1.90	Aug. 29	.46	29	.64
Mar. 28	2.17	June 26	1.36	Sept. 27	.18	Dec. 21	.85

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 23.91 above msl, Feb. 26, 1951. Records available: 1933-51.

Water level above msl

Jan. 31	23.93	Apr. 26	24.78	July 25	24.64	Oct. 20	24.12
Feb. 26	23.91	May 31	25.15	Aug. 29	24.50	Nov. 30	24.62
Mar. 27	24.34	June 26	24.94	Sept. 27	24.20	Dec. 21	24.77

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. 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: 1939-40 as Q337, 1940-51.

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	+0.05	-0.17	+0.38	+0.98	+0.18	+1.45	+0.66	+0.04	-1.16	+1.33	+0.93	+0.30
2	+ .00	.21	.55	1.32	.45	.93	.88	-.04	-.18	1.21	1.19	.23
3	-.02	.41	.43	1.27	.13	.57	.61	-.07	+ .47	1.13	1.57	.13
4	.01	.34	.75	1.05	.67	.70	.48	+ .03	.54	1.20	1.28	.15
5	-.14	-.24	-.86	-.86	+ .47	-.52	1.03	-.10	+ .07	1.32	.98	.20
6	.12	.30	.71	.57	-.05	1.05	.79	.26	-.20	1.30	.65	.25
7	.07	.09	.80	....	-.14	1.25	+ .18	.06	+ .30	1.28	.80	.19
8	.15	.04	.76	....	+ .20	.71	-.46	.82	.41	1.85	.97	.14
9	.10	.40	.61	....	-.35	.75	.48	.67	+ .16	1.58	.70	.10
10	-.28	-.50	-.42	....	.63	1.07	.97	.47	-.11	1.41	.39	+ .04
11	.11	.36	.42	....	-.25	1.43	1.37	.17	.48	1.56	.23	-.03
12	.15	.19	.63	....	+ .65	1.46	1.52	.00	.50	1.56	.38	+ .10
13	.34	.18	.83	1.53	.95	.98	1.37	.20	.56	1.37	.37	+ .07
14	.36	.19	1.31	1.34	.93	1.48	1.48	+ .10	.62	1.30	.30	-.07
15	.06	.20	1.72	1.12	.75	1.20	1.70	-.02	.60	1.30	.26	+ .13
16	.22	.20	1.39	1.26	+ .10	1.28	1.84	+ .06	.26	1.27	.27	-.15
17	.48	-.18	1.16	1.33	-.67	1.20	1.78	+ .48	-.12	1.28	.27	.42
18	.46	+ .19	.96	1.28	.55	1.03	1.04	-.01	+ .02	1.32	.18	.32
19	.41	.11	1.01	1.38	-.04	.64	-.06	.09	-.04	1.41	.07	.30
20	.37	.31	1.35	1.44	+ .79	.32	+ .17	.25	.20	1.44	.00	.47
21	.32	.60	1.37	.80	1.39	+ .07	.05	.43	.34	1.39	-.07	.13
22	.50	.78	1.33	.27	1.43	-.25	.28	.39	.29	1.37	.07	.15
23	.59	.60	1.14	.93	1.20	-.15	+ .32	.49	-.11	1.35	.07	.43
24	.32	.34	1.21	.83	1.71	+ .08	-.22	.53	+ .36	1.34	-.08	.50
25	.23	.16	.88	1.15	1.93	+ .18	.71	.59	.70	1.36	-.18	.51
26	.19	.15	.99	1.28	1.81	-.43	.90	-.25	1.06	1.23	+ .04	.30
27	.24	.24	.86	.85	1.52	-.44	1.30	+ .09	1.03	1.18	-.10	.32
28	.35	.28	.76	.29	2.04	+ .01	-.44	-.41	1.16	1.01	+ .03	.38
29	.36		.86	.16	2.40	.04	+ .51	.77	1.15	1.12	.57	.31
30	.43		1.06	.18	2.45	.30	.82	1.05	1.26	.92	.43	.18
31	.43		1.23		2.20		.32	1.32		.86		.14

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: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	33.65	June 1	35.07	Aug. 29	34.93	Oct. 30	33.10
Feb. 27	33.65	27	34.95	Sept. 19	33.63	Nov. 29	33.19
Mar. 28	34.28	July 25	34.54	27	33.54	Dec. 21	33.14
Apr. 26	34.81						

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 26.07 above msl, Oct. 30, 1951. Records available: 1940-46, 1948-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	28.52	Apr. 26	29.48	July 25	27.85	Oct. 30	26.07
Feb. 26	28.50	May 31	29.49	Aug. 29	26.92	Nov. 30	26.37
Mar. 27	28.97	June 27	29.35	Sept. 27	26.36	Dec. 21	26.29

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 17.33 above msl, Dec. 19, 1950. Records available: 1940-51.

Q1250--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	17.55	June 1	18.92	Aug. 29	18.69	Oct. 30	18.26
Feb. 26	17.83	28	18.90	Sept. 26	18.53	Nov. 30	18.87
Mar. 28	18.37	July 25	18.71	Oct. 8	18.39	Dec. 21	18.99
May 1	18.87						

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 1¼ 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 8.71 above msl, Nov. 28, 1950. Records available: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	9.24	May 1	10.66	July 25	9.96	Oct. 31	9.69
Feb. 26	9.13	June 1	10.46	Aug. 29	10.14	Nov. 30	10.33
Mar. 28	10.09	28	10.26	Sept. 26	9.86	Dec. 21	10.53

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 1¼ 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 9.66 above msl, Nov. 28, 1950. Records available: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	9.78	May 1	11.01	July 25	10.17	Oct. 31	10.00
Feb. 26	10.03	31	10.72	Aug. 28	10.24	Nov. 29	10.39
Mar. 28	10.38	June 26	10.48	Sept. 26	10.04	Dec. 21	10.36

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 0.53 above msl, Feb. 26, 1951. Records available: 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	0.79	Apr. 26	0.88	July 25	1.27	Oct. 31	1.36
Feb. 26	.53	May 31	1.34	Aug. 29	1.39	Nov. 29	1.44
Mar. 28	.61	June 26	1.38	Sept. 27	1.37	Dec. 21	1.23

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 1¼ 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 5.34 below msl, Jan. 31, 1951. Records available: 1940-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	5.34	May 31	4.68	Aug. 29	2.23	Oct. 31	2.23
Feb. 26	5.14	June 26	4.53	Sept. 27	2.42	Nov. 29	1.93
Mar. 28	5.20	July 25	4.16	Oct. 4	3.16	Dec. 21	4.35
Apr. 26	4.98						

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 1¼ 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, 1932-51.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.35	Apr. 26	4.45	July 25	4.23	Oct. 31	4.27
Feb. 26	4.84	May 31	4.43	Aug. 29	4.20	Nov. 29	4.06
Mar. 27	4.49	June 26	4.23	Sept. 26	4.00	Dec. 21	2.97

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 1.70 below msl, Apr. 26, 1950; lowest 6.98 below msl, Mar. 14, 1942. Records available: 1940-43, 1945-51.

Q1256--Continued.

Water level below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	2.84	May 1	2.16	July 25	2.27	Oct. 31	2.19
Feb. 26	2.63	31	2.05	Aug. 29	2.23	Nov. 29	1.83
Mar. 27	2.43	June 26	2.09	Sept. 27	2.34	Dec. 21	1.77

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, 1941-51

Water level below msl

Jan. 30	1.18	May 1	0.48	July 25	0.65	Oct. 31	0.48
Feb. 26	1.07	31	.41	Aug. 29	.47	Nov. 29	.17
Mar. 27	.55	June 26	.48	Sept. 27	.61	Dec. 21	.33

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 1.75 above msl, Dec. 30, 1948. Records available: 1911-16, 1933-35, 1941-51.

Water level above msl

Jan. 30	2.27	May 1	3.32	July 25	3.12	Oct. 31	3.03
Feb. 26	2.18	31	3.15	Aug. 29	3.43	Nov. 29	3.94
Mar. 27	2.61	June 26	3.38	Sept. 27	3.18	Dec. 21	3.90

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. Land-surface datum is 37.0 feet above msl. Highest water level 24.94 above msl, Jan. 10, 1949; lowest 22.32 above msl, Oct. 6, 1951. Records available: 1944-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.11	23.45	24.26	23.97	23.74	23.78	23.25	22.82	22.61	22.35	22.52	23.59
2	23.12	23.46	24.21	24.04	23.72	23.79	23.24	22.81	22.61	22.34	22.56	23.55
3	23.14	23.47	24.14	24.13	23.69	23.78	23.22	22.80	22.61	22.33	22.66	23.52
4	23.15	23.48	24.11	24.22	23.67	23.77	23.21	22.79	22.61	22.33	22.82	23.50
5	23.15	23.49	24.07	24.33	23.65	23.75	23.19	22.77	22.60	22.33	22.94	23.50
6	23.16	23.49	24.03	24.44	23.63	23.73	23.17	22.76	22.59	22.32	23.06	23.53
7	23.16	23.51	24.02	24.52	23.61	23.70	23.15	22.75	22.58	22.33	23.19	23.55
8	23.17	23.53	23.99	24.57	23.59	23.67	23.12	22.74	22.57	22.43	23.27	23.55
9	23.18	23.55	23.96	24.56	23.57	23.65	23.10	22.74	22.56	22.48	23.34	23.56
10	23.19	23.58	23.93	24.51	23.55	23.62	23.08	22.73	22.54	22.50	23.41	23.55
11	23.19	23.62	23.91	24.44	23.55	23.59	23.06	22.72	22.53	22.52	23.46	23.58
12	23.19	23.67	23.88	24.37	23.57	23.56	23.04	22.70	22.52	22.54	23.50	23.57
13	23.19	23.70	23.87	24.33	23.55	23.54	23.02	22.75	22.50	22.55	23.54	23.54
14	23.19	23.72	23.86	24.28	23.53	23.54	23.00	22.78	22.49	22.55	23.57	23.52
15	23.21	23.72	23.85	24.23	23.52	23.53	22.98	22.78	22.48	22.55	23.58	23.60
16	23.23	23.70	23.83	24.19	23.52	23.51	22.96	22.77	22.47	22.54	23.59	23.64
17	23.25	23.70	23.82	24.15	23.50	23.49	22.95	22.75	22.46	22.53	23.61	23.68
18	23.27	23.70	23.80	24.11	23.49	23.47	22.93	22.74	22.45	22.51	23.64	23.73
19	23.30	23.70	23.78	24.08	23.48	23.45	22.92	22.72	22.44	22.50	23.68	23.77
20	23.33	23.70	23.79	24.04	23.47	23.43	22.94	22.70	22.43	22.49	23.71	23.80
21	23.36	23.70	23.80	24.00	23.47	23.41	22.92	22.70	22.41	22.48	23.74	23.88
22	23.38	23.73	23.82	23.97	23.46	23.40	22.91	22.69	22.40	22.47	23.77	23.96
23	23.39	23.81	23.81	23.95	23.45	23.38	22.90	22.68	22.39	22.46	23.78	24.11
24	23.41	23.99	23.83	23.92	23.51	23.36	22.89	22.67	22.38	22.45	23.77	24.27
25	23.43	24.18	23.80	23.90	23.58	23.34	22.87	22.67	22.38	22.48	23.74	24.30
26	23.45	24.29	23.79	23.88	23.63	23.32	22.85	22.67	22.39	22.51	23.75	24.30
27	23.46	24.34	23.78	23.84	23.66	23.31	22.85	22.66	22.38	22.51	23.72	24.31
28	23.45	24.31	23.78	23.82	23.70	23.29	22.85	22.65	22.37	22.51	23.67	24.31
29	23.45		23.78	23.80	23.73	23.28	22.87	22.63	22.36	22.51	23.64	24.27
30	23.44		23.80	23.77	23.75	23.27	22.86	22.62	22.35	22.51	23.62	24.20
31	23.43		23.88		23.77		22.84	22.62		22.50		24.15

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. 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: 1936-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	39.46	Apr. 23	40.09	July 25	39.74	Oct. 30	39.94
Feb. 20	39.56	May 28	40.14	Aug. 28	39.94	Nov. 26	40.24
Mar. 27	39.79	June 27	39.89	Sept. 25	39.96	Dec. 17	40.11

S203. C. A. Gould. Wolf Hill and Caledonia Rds., Dix Hills. Lat. 40°48'40", long. 73°22'05". Drilled unused artesian well in sands of Magothy (?) formation, diameter 10 inches, depth 259 feet. Land-surface datum is 203.5 feet above msl. Highest water level 77.13 above msl, Oct. 31, 1939; lowest 69.92 above msl, Dec. 17, 1951. Records available: 1936-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	70.70	Apr. 23	69.95	July 24	70.23	Nov. 26	70.25
Feb. 20	70.30	May 28	69.94	Sept. 25	70.23	Dec. 17	69.92
Mar. 27	70.20	June 27	70.19	Oct. 30	70.26		

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. Land-surface datum is 35.1 feet above msl. Highest water level 2.59 above msl, Apr. 26, 1951; lowest 0.98 above msl, June 27, 1950. Records available: 1949-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 29, 1949	1.17	Apr. 25, 1950	1.20	Nov. 29, 1950	1.57	July 3, 1951	2.15
Oct. 25	1.32	May 24	1.68	Dec. 28	1.40	30	1.50
Dec. 5	1.36	June 27	.98	Feb. 1, 1951	1.19	Aug. 30	1.34
29	1.30	July 25	1.57	28	1.61	Oct. 3	1.07
Feb. 1, 1950	1.00	Aug. 29	1.46	Mar. 29	1.94	Nov. 1	1.33
27	1.26	Oct. 4	1.36	Apr. 26	2.59	29	1.67
Mar. 28	1.15	Nov. 1	1.30	June 4	2.29	Dec. 20	1.57

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. Highest water level 18.19 above msl, Apr. 22, 1913; lowest 14.93 above msl, Oct. 25, 1941. Records available: 1912-14, 1932, 1936-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	16.45	Apr. 24	17.23	Sept. 25	15.24	Nov. 26	16.08
Feb. 21	16.79	May 29	16.99	Oct. 30	15.73	Dec. 17	16.53
Mar. 27	17.14						

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 47.01 above msl, Apr. 8, 1939; lowest 37.90 above msl, Oct. 27, 1932. Records available: 1912-14, 1932-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	40.01	Apr. 24	43.18	July 25	41.77	Oct. 30	39.69
Feb. 20	40.94	May 29	42.81	Aug. 28	40.97	Nov. 26	40.34
Mar. 27	42.36	June 28	42.44	Sept. 25	40.29	Dec. 17	40.78

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, 1932-51.

S1806--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	53.87	Apr. 24	55.67	July 25	55.31	Oct. 30	53.89
Feb. 20	53.71	May 29	55.28	Aug. 28	54.57	Nov. 26	53.66
Mar. 27	54.94	June 28	55.40	Sept. 25	54.21	Dec. 17	53.84

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 21 feet, screen 19-21. Land-surface datum is 24.8 feet above msl. Highest water level 23.48 above msl, Oct. 14, 1938; lowest 20.59 above msl, Sept. 12, 1932. Records available: 1912-14, 1932-33, 1936-51.

Water level above msl

Jan. 22	21.55	Apr. 24	22.14	July 25	21.23	Oct. 30	20.99
Feb. 19	21.96	May 29	21.86	Aug. 28	21.08	Nov. 26	21.75
Mar. 27	22.04	June 28	21.54	Sept. 25	20.82	Dec. 17	21.79

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, 1932-51.

Water level above msl

Jan. 22	11.09	Apr. 24	11.25	July 25	10.30	Oct. 30	10.31
Feb. 21	11.50	May 29	11.28	Aug. 28	10.23	Nov. 26	11.46
Mar. 27	11.22	June 28	10.52	Sept. 25	9.75	Dec. 17	11.45

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, 1932-51.

Water level above msl

Jan. 22	27.02	Apr. 24	29.41	July 25	28.03	Oct. 30	26.55
Feb. 19	27.82	May 29	29.08	Aug. 28	27.43	Nov. 26	27.69
Mar. 27	28.81	June 28	28.70	Sept. 25	27.06	Dec. 17	27.80

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 1¼ inches, depth 47 feet, screen 45-47. Land-surface datum is 90.1 feet above msl. Highest water level 56.19 above msl, Apr. 29, 1939; lowest 45.24 above msl, Feb. 23, 1933. Records available: 1912-14, 1932-51.

Water level above msl

Feb. 19	47.55	May 29	50.28	July 25	49.94	Oct. 30	49.14
Mar. 27	49.05	June 28	50.12	Aug. 28	49.58	Nov. 26	49.13
Apr. 24	49.77	July 12	50.07	Oct. 9	49.11	Dec. 17	49.64

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 1¼ inches, depth 22 feet, screen 20-22. Land-surface datum is 53.7 feet above msl. Highest water level 55.56 above msl, Apr. 20, 1940; lowest 51.41 above msl, Aug. 28, 1941. Records available: 1937-51.

Water level above msl

Jan. 25	52.49	Apr. 24	52.78	July 25	52.20	Oct. 30	51.97
Feb. 21	52.67	May 29	52.72	Aug. 28	52.09	Nov. 27	52.41
Mar. 27	52.57	June 28	52.46	Sept. 25	52.02	Dec. 18	52.50

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 1¼ inches, depth 49 feet, screen 47-49. Land-surface datum is 79.6 feet above msl. Highest water level 38.96 above msl, July 29, 1948; lowest 34.50 above msl, Jan. 25, 1951. Records available: 1939-51.

Water level above msl

Jan. 25	34.50	Apr. 24	36.88	July 25	37.26	Oct. 30	35.27
Feb. 21	34.75	May 29	36.70	Aug. 28	36.26	Nov. 27	35.46
Mar. 27	35.75	June 28	37.31	Sept. 25	35.76	Dec. 17	35.47

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 53.95 above msl, June 1, 1940; lowest 49.66 above msl, Oct. 30, 1951. Records available: 1939-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	50.44	Apr. 24	52.14	July 25	50.83	Oct. 30	49.66
Feb. 20	51.11	May 29	52.14	Aug. 28	50.41	Nov. 26	50.55
Mar. 27	51.77	June 28	51.63	Sept. 25	49.81	Dec. 17	50.63

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. Land-surface datum is 49.0 feet above msl. Highest water level 3.33 above msl, Mar. 15, 1951; lowest 2.50 above msl, Jan. 11, 1951. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 31, 1950	2.80	Jan. 5, 1951	2.52	May 10, 1951	3.21	Sept. 6, 1951	2.74
Sept. 7	2.79	11	2.50	17	3.19	13	2.77
14	3.01	18	2.75	24	3.17	20	2.75
21	2.86	25	2.90	31	3.11	27	2.75
28	2.74	Feb. 1	2.89	June 7	2.97	Oct. 4	2.79
Oct. 5	2.65	8	2.91	14	3.09	11	2.81
13	2.75	15	2.91	21	2.92	18	2.87
20	2.62	22	2.94	28	2.91	25	2.78
27	2.70	Mar. 8	3.10	July 5	2.86	Nov. 1	2.92
Nov. 2	2.75	15	3.33	12	2.82	8	2.99
9	2.77	22	3.11	19	2.90	15	3.03
16	2.78	29	3.16	26	2.90	22	3.00
23	2.83	Apr. 5	3.17	Aug. 2	2.80	29	2.99
30	2.89	12	3.14	9	2.83	Dec. 6	3.00
Dec. 7	2.92	19	3.16	16	2.81	13	2.83
14	2.85	26	3.19	23	2.78	20	2.58
21	2.80	May 3	3.18	30	2.79	27	2.95
28	2.70						

S2314. U. S. Geol. Survey. Burr's 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 92.8 feet above msl. Highest water level 61.68 above msl, May 25, 1949; lowest 57.63 above msl, Dec. 17, 1951. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	57.66	Apr. 24	58.73	July 25	58.55	Oct. 30	57.72
Feb. 20	58.12	May 29	58.86	Aug. 28	58.31	Nov. 26	58.08
Mar. 27	58.39	June 28	58.78	Sept. 25	58.05	Dec. 17	57.63

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. 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: 1933-40 (as S38), 1940-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	21.55	Apr. 24	22.94	July 25	21.46	Oct. 30	20.31
Feb. 19	22.24	May 29	22.77	Aug. 28	20.98	Nov. 26	21.97
Mar. 27	22.82	June 28	22.14	Sept. 25	20.49	Dec. 17	22.05

S3496. U. S. Geol. Survey. Coates Ave. near Long Island Railroad, 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 50.76 above msl, July 7, 1949; lowest 45.79 above msl, Feb. 21, Mar. 27, 1951. Records available: 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	46.05	Apr. 24	46.29	July 26	48.16	Oct. 31	47.53
Feb. 21	45.79	June 1	47.58	Aug. 28	47.96	Nov. 27	47.21
Mar. 27	45.79	28	48.09	Sept. 25	47.84	Dec. 19	46.99

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 64.19 above msl, July 4, 5, 1949; lowest 59.86 above msl, Feb. 15, 21, 23, 1948. Records available: 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	60.20	Apr. 23	61.36	July 24	62.08	Oct. 30	61.07
Feb. 20	60.12	May 28	62.15	Aug. 28	61.79	Nov. 26	60.90
Mar. 28	60.73	June 27	62.31	Sept. 25	61.49	Dec. 18	60.73

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 68.26 above msl, Sept. 28, 1949; lowest 64.23 above msl, Mar. 18, 26, 1951. Records available: 1942-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.45	64.60	64.34	64.29	64.47	64.87	65.36	64.75	65.35	65.56	65.66	65.72
2	64.52	64.36	64.34	64.33	64.61	64.92	65.34	64.75	65.40	65.56	65.65	65.69
3	64.57	64.39	64.31	64.39	64.55	64.90	65.37	64.87	65.42	65.52	65.71	65.67
4	64.57	64.48	64.40	64.27	64.56	64.95	65.47	64.79	65.39	65.57	65.58	65.76
5	64.41	64.42	64.29	64.28	64.57	64.93	65.44	64.80	65.39	65.58	65.54	65.77
6	64.54	64.38	64.32	64.28	64.55	64.98	65.36	64.89	65.47	65.51	65.58	65.71
7	64.60	64.63	64.44	64.33	64.57	64.98	65.34	64.90	65.45	65.54	65.83	65.70
8	64.53	64.37	64.34	64.32	64.54	64.99	65.28	64.93	65.39	65.57	65.63	65.72
9	64.42	64.30	64.28	64.35	64.55	65.05	65.15	64.90	65.43	65.52	65.57	65.79
10	64.49	64.36	64.30	64.34	64.52	65.06	64.96	64.94	65.44	65.55	65.65	65.69
11	64.55	64.48	64.33	64.32	64.64	65.04	64.83	64.96	65.46	65.64	65.65	65.78
12	64.45	64.46	64.32	64.35	64.62	65.03	64.75	65.00	65.46	65.50	65.62	65.79
13	64.42	64.39	64.31	64.38	64.52	65.08	64.64	65.00	65.49	65.48	65.70	65.64
14	64.54	64.33	64.41	64.37	64.54	65.17	64.61	65.04	65.48	65.56	65.75	65.69
15	64.67	64.31	64.34	64.36	64.66	65.12	64.59	65.10	65.49	65.62	65.67	65.79
16	64.44	64.38	64.30	64.34	64.69	65.11	64.66	65.14	65.51	65.59	65.77	65.56
17	64.45	64.45	64.25	64.34	64.64	65.13	64.62	65.12	65.52	65.59	65.70	65.62
18	64.46	64.42	64.23	64.33	64.64	65.16	64.62	65.13	65.51	65.60	65.68	65.87
19	64.44	64.37	64.27	64.43	64.70	65.18	64.72	65.16	65.49	65.65	65.68	65.54
20	64.46	64.40	64.38	64.33	64.77	65.21	64.69	65.21	65.48	65.60	65.65	65.65
21	64.45	64.47	64.32	64.33	64.78	65.20	64.87	65.26	65.51	65.58	65.64	.....
22	64.34	64.38	64.30	64.40	64.80	65.21	64.70	65.21	65.53	65.61	65.72	.....
23	64.47	64.35	64.30	64.42	64.82	65.26	64.73	65.23	65.50	65.65	65.75	.....
24	64.58	64.41	64.36	64.37	64.77	65.25	64.67	65.27	65.49	65.70	65.70	.....
25	64.51	64.37	64.24	64.45	64.77	65.28	.....	65.30	65.57	65.62	65.65	.....
26	64.49	64.35	64.23	64.47	64.79	65.27	64.52	65.33	65.48	65.65	65.85	.....
27	64.43	64.40	64.24	64.39	64.86	65.33	64.41	65.34	65.60	65.72	65.61	65.70
28	64.42	64.27	64.28	64.49	64.83	65.29	64.44	65.34	65.52	65.72	65.65	65.77
29	64.46		64.29	64.57	64.84	65.33	64.55	65.35	65.47	65.56	65.69	65.85
30	64.39		64.37	64.43	64.84	65.38	64.63	65.37	65.49	65.62	65.71	65.86
31	64.44		64.32	64.83	64.83		64.70	65.38		65.66		65.75

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 40.26 above msl, June 29, 1948; lowest 35.29 above msl, Dec. 21, 1950. Records available: 1907-9, 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	35.59	Apr. 24	38.28	July 25	37.34	Oct. 30	35.71
Feb. 21	36.25	May 29	37.87	Aug. 28	36.75	Nov. 26	36.07
Mar. 27	37.46	June 28	37.75	Sept. 25	36.22	Dec. 18	36.16

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 14.02 above msl, Mar. 28, 1949; lowest 11.60 above msl, Dec. 4, 1909. Records available: 1907-9, 1942-51.

S3517--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	12.19	Apr. 24	13.38	July 26	12.39	Oct. 31	11.82
Feb. 21	12.54	June 1	13.18	Aug. 28	12.16	Nov. 27	12.47
Mar. 27	13.29	28	12.67	Sept. 25	11.93	Dec. 17	12.50

S3526. City of New York, Board of Water Supply. 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: 1943-51.

Water level above msl

Jan. 25	25.73	Apr. 30	26.11	July 26	27.27	Oct. 29	26.78
Feb. 26	26.24	June 4	26.82	Aug. 30	27.16	Nov. 29	26.68
Apr. 4	25.92	28	27.19	Oct. 1	26.96	Dec. 26	26.52

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, 1942-51.

Water level above msl

Jan. 26	45.34	Apr. 30	46.78	July 26	47.31	Oct. 29	46.28
Feb. 23	45.23	June 4	47.36	Aug. 30	47.01	Nov. 29	45.90
Apr. 4	46.15	28	47.44	Oct. 2	46.66	Dec. 27	45.68

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 21.84 above msl, May 11, 1949; lowest 17.51 above msl, Feb. 23, 1951. Records available: 1907-9, 1942-51.

Water level above msl

Jan. 26	17.59	May 16	19.08	July 26	19.02	Oct. 29	18.30
Feb. 23	17.51	June 4	19.22	Aug. 29	18.81	Nov. 29	18.13
Apr. 4	18.28	28	19.18	Oct. 1	18.54	Dec. 26	18.12
30	18.77						

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 16.72 above msl, Mar. 28, 1949; lowest 14.09 above msl, Jan. 23, 1951. Records available: 1908-9, 1942-43, 1948-51.

Water level above msl

Jan. 23	14.09	Apr. 25	15.31	July 26	14.87	Nov. 1	14.23
Mar. 2	14.34	May 31	15.29	Aug. 29	14.66	27	14.60
28	14.76	June 29	15.04	Oct. 1	14.37	Dec. 21	14.69

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 88 feet, screen 86-88. Land-surface datum is 79.3 feet above msl. Highest water level 26.72 above msl, June 5, 1908; lowest 21.33 above msl, Mar. 28, 1951. Records available: 1907-9, 1942-43, 1947-51.

Water level above msl

Jan. 23	21.67	Apr. 25	21.56	July 26	22.48	Nov. 1	22.05
Mar. 2	21.37	May 31	22.39	Aug. 29	22.39	30	21.95
28	21.33	June 29	22.55	Oct. 1	22.23	Dec. 21	21.88

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 19.65 above msl, May 23, 1949; lowest 15.18 above msl, Feb. 27, 1951. Records available: 1907-9, 1942-43, 1947-51.

S3543--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	15.35	Apr. 25	16.04	July 26	16.74	Nov. 2	16.12
Feb. 27	15.18	May 31	16.83	Aug. 29	16.58	28	16.09
Mar. 28	15.50	June 29	16.86	Sept. 26	16.40	Dec. 21	16.08

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 38.41 above msl, Apr. 27, 1949; lowest 33.51 above msl, Jan. 25, 1951. Records available: 1907-9, 1942-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	33.51	Apr. 24	35.79	July 26	35.75	Oct. 31	34.56
Feb. 21	33.79	June 1	36.06	Aug. 28	35.42	Nov. 27	34.41
Mar. 27	35.00	28	35.90	Sept. 25	35.03	Dec. 17	34.29

S3728. City of New York, Board of Water Supply. State Highway 27, Hagerman. Lat. 40°46'30", long. 72°57'15". Driven observation water-table well in deposits of late Pleistocene age, diameter 2 inches, depth 47 feet, screen 45-47. Land-surface datum is 48.1 feet above msl. Highest water level 23.67 above msl, Mar. 30, 1949; lowest 19.41 above msl, Dec. 21, 1951. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	19.86	Apr. 24	21.10	July 26	21.16	Oct. 31	19.82
Feb. 26	19.98	June 1	21.47	Aug. 28	20.76	Nov. 27	19.49
Mar. 27	20.68	29	21.25	Sept. 25	20.29	Dec. 21	19.41

S3729. City of New York, Board of Water Supply. Barton and Dunton 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 31.40 above msl, Apr. 27, May 24, 1949; lowest 27.34 above msl, Apr. 4, 1947. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	27.75	Apr. 24	28.55	July 26	28.88	Oct. 31	28.44
Feb. 26	27.69	June 1	28.68	Aug. 28	28.81	Nov. 27	28.17
Mar. 27	28.29	29	28.87	Sept. 25	28.31	Dec. 21	27.37

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 37.67 above msl, May 24, 1949; lowest 33.04 above msl, Feb. 26, 1951. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	33.23	Apr. 24	34.46	July 26	35.06	Oct. 31	34.20
Feb. 26	33.04	May 1	35.25	Aug. 28	34.86	Nov. 27	33.88
Mar. 27	33.85	June 29	35.19	Sept. 25	34.61	Dec. 21	33.64

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 58.82 above msl, July 28, 1949; lowest 54.33 above msl, Feb. 20, 1951. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	54.50	Apr. 23	54.98	July 24	56.25	Oct. 30	55.81
Feb. 20	54.33	May 28	55.74	Aug. 28	56.30	Nov. 26	55.73
Mar. 28	54.65	June 27	56.21	Sept. 25	56.24	Dec. 18	55.42

S3739. U. S. Geol. Survey. Lincoln Ave., Sayville. Lat. 40°45'50", long. 73°05'05". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 30 feet, screen 28-30. Land-surface datum is 50.3 feet above msl. Highest water level 30.04 above msl, Mar. 28, 1949; lowest 26.33 above msl, Dec. 29, 1950. Records available: 1943-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	26.40	June 1	28.18	Aug. 28	27.44	Oct. 31	27.31
Feb. 21	26.45	28	28.13	Sept. 25	27.00	Nov. 27	27.42
Mar. 27	27.50	July 26	27.99	Oct. 9	27.50	Dec. 19	27.44
Apr. 24	28.10						

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 40.13 above msl, Dec. 4, 1949; lowest 36.21 above msl, Jan. 22, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	36.21	Apr. 23	36.59	July 24	37.43	Oct. 30	37.58
Feb. 20	36.48	May 28	36.93	Aug. 28	37.64	Nov. 26	38.13
Mar. 28	36.43	June 27	37.33	Sept. 25	37.75	Dec. 22	37.53

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 57.24 above msl, July 5, 1949; lowest 52.97 above msl, Jan. 22, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	52.97	Apr. 23	54.40	July 24	54.84	Oct. 30	53.94
Feb. 20	53.03	May 28	54.92	Aug. 28	54.60	Nov. 26	53.76
Mar. 28	53.73	June 27	55.01	Sept. 25	54.32	Dec. 18	53.65

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 56.85 above msl, July 6, 1949; lowest 52.84 above msl, Feb. 20, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	52.85	Apr. 23	53.90	July 24	54.24	Oct. 30	53.67
Feb. 20	52.84	May 28	54.30	Aug. 28	54.10	Nov. 26	53.42
Mar. 28	53.45	June 27	54.30	Sept. 25	53.91	Dec. 19	53.34

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 50.19 above msl, July 26, 1949; lowest 45.84 above msl, Feb. 26, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	46.06	May 1	46.18	July 26	47.29	Oct. 30	47.06
Feb. 26	45.84	June 4	46.77	Aug. 30	47.40	Nov. 26	47.46
Apr. 4	45.92	28	47.08	Oct. 1	47.22	Dec. 19	47.37

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 55.78 above msl, Aug. 25, 1949; lowest 51.40 above msl, Mar. 28, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	51.89	Apr. 23	51.64	July 24	53.62	Oct. 30	53.68
Feb. 20	51.65	May 28	52.50	Aug. 28	53.82	Nov. 26	53.55
Mar. 28	51.40	June 27	53.29	Sept. 25	53.83	Dec. 18	53.36

S3956. U. S. Geol. Survey. Yaphank and Miller Place Rds., Miller Place. Lat. 40°56'10", long. 72°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 33.64 above msl, Aug. 25, 1949; lowest 30.29 above msl, Mar. 28, 1951. Records available: 1944-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	30.52	Apr. 23	30.43	July 24	31.69	Oct. 30	31.77
Feb. 20	30.40	May 28	30.81	Aug. 28	31.92	Nov. 26	31.69
Mar. 28	30.29	June 27	31.35	Sept. 25	31.90	Dec. 18	31.90

S3978. Village of Greenport Department of Public Works. Moore's 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. Land-surface datum is 15.6 feet above msl. Highest water level 1.23 above msl, Feb. 21, 1951; lowest 0.30 below msl, Dec. 29, 1949. Records available: 1949-51.

S3978--Continued.

Water level above and below msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 29, 1949	-0.18	Apr. 25, 1950	+0.33	Nov. 29, 1950	+0.54	July 3, 1951	+0.70
Oct. 25	+ .32	May 24	+ .38	Dec. 28	+ .22	30	+ .39
Dec. 5	+ .29	June 27	+ .42	Feb. 1, 1951	+ .47	Aug. 30	+ .21
29	- .30	July 25	+ .27	21	+1.23	Oct. 3	+ .22
Feb. 1, 1950	- .05	Aug. 29	+ .19	Mar. 29	+1.01	Nov. 1	+ .35
27	+ .48	Oct. 4	+ .13	Apr. 26	+ .85	29	+ .62
Mar. 28	+ .36	Nov. 1	+ .25	June 4	+ .92	Dec. 20	+ .48

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. Land-surface datum is 23.3 feet above msl. Highest water level 13.83 above msl, Apr. 7, 1949; lowest 11.33 above msl, Nov. 23, 1950. Records available: 1945-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.65	11.88	12.25	12.56	.....	12.58	12.42	11.95	11.76	11.52	11.57	12.20
2	11.65	11.91	12.30	12.56	.....	12.57	12.39	11.92	11.75	11.53	11.60	12.21
3	11.66	11.84	12.30	12.64	.....	12.56	12.34	11.90	11.78	11.51	11.84	12.21
4	11.68	11.89	12.36	12.63	.....	12.57	12.32	11.89	11.77	11.49	11.94	12.20
5	11.62	11.91	12.41	12.60	.....	12.58	12.36	11.84	11.74	.....	11.96	12.22
6	11.52	11.90	12.40	12.61	.....	12.58	12.31	11.82	11.70	.....	11.97	12.26
7	11.63	11.96	12.41	12.66	12.60	12.58	12.21	11.79	11.75	.....	12.12	12.24
8	11.74	12.05	12.42	12.70	12.52	12.54	12.12	11.81	11.73	11.62	12.25	12.24
9	11.67	11.93	12.41	12.74	12.49	12.54	12.09	11.84	11.70	11.61	12.23	12.26
10	11.63	11.87	12.39	12.73	12.45	.....	12.04	11.83	11.70	11.58	12.20	12.36
11	11.64	11.92	12.40	12.71	12.45	12.56	11.99	11.79	11.67	11.62	12.22	12.32
12	11.66	12.03	12.42	12.70	12.58	12.54	11.95	.....	11.65	11.65	12.23	12.33
13	11.63	12.05	12.43	12.72	12.57	12.50	11.96	11.85	11.64	11.58	.....	12.30
14	11.62	12.05	12.48	12.75	12.50	12.55	11.93	11.85	11.63	11.55	.....	12.23
15	11.79	12.01	12.53	12.76	12.48	12.60	.....	11.85	11.62	11.59	.....	.....
16	11.78	12.00	12.51	12.76	12.50	12.57	11.92	.....	11.62	11.60	.....	.....
17	11.70	12.04	12.48	12.75	12.50	12.54	11.89	.....	11.63	11.59	.....	12.25
18	11.69	12.14	12.43	12.71	12.47	12.52	11.88	.....	11.61	11.58	.....	12.33
19	11.70	12.16	12.40	12.70	12.47	12.50	11.90	.....	11.59	11.59	12.26	12.39
20	11.68	12.15	12.49	12.70	12.51	12.49	11.98	11.87	11.56	11.59	12.22	12.33
21	11.71	12.17	12.52	12.66	12.55	12.48	11.99	11.88	11.54	11.57	12.20	12.52
22	11.68	12.28	12.54	12.64	12.55	12.45	11.99	11.87	11.52	11.55	12.20	12.54
23	11.65	12.26	12.51	12.71	12.55	12.45	12.04	11.82	.....	11.54	12.26	12.50
24	11.77	12.26	12.52	12.69	12.61	.....	.....	11.80	11.55	11.55	12.28	12.51
25	11.83	12.27	12.52	12.67	12.64	12.47	.....	11.80	11.55	11.59	12.24	12.54
26	11.83	12.28	12.47	12.69	12.61	12.43	.....	11.82	11.55	11.58	12.35	12.70
27	11.80	12.29	12.43	12.66	12.60	12.41	11.92	11.83	11.55	11.58	12.31	12.69
28	11.77	12.28	12.42	12.64	12.64	12.42	11.86	11.82	11.57	11.61	12.20	12.68
29	11.78	.....	12.43	12.67	12.62	12.39	11.91	11.80	11.53	11.59	12.19	12.70
30	11.77	.....	12.46	12.70	12.62	12.40	11.95	11.79	11.50	11.53	12.19	12.75
31	11.75	.....	12.57	.....	12.61	.....	11.95	11.78	.....	11.54	.....	12.77

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 feet above msl. Highest water level 50.57 above msl, Oct. 5, 1949; lowest 46.65 above msl, Mar. 27, 1951. Records available: 1945-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	46.83	Apr. 23	46.90	July 24	47.61	Oct. 30	47.94
Feb. 20	46.74	May 28	47.16	Aug. 28	47.82	Nov. 26	48.12
Mar. 27	46.65	June 27	47.42	Sept. 25	47.92	Dec. 17	47.96

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 55.41 above msl, May 25, 1949; lowest 49.86 above msl, Feb. 19, 1951. Records available: 1945-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	50.05	Apr. 24	50.86	July 25	51.70	Oct. 30	51.02
Feb. 19	49.86	May 29	51.46	Aug. 28	51.56	Nov. 26	50.84
Mar. 27	49.92	June 28	51.85	Sept. 25	51.21	Dec. 17	50.67

S4271. U. S. Geol. Survey, formerly County of Suffolk. 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. Recording gage removed July 31, 1951. Highest water level 11.41 above msl, June 2-6, 1949; lowest 9.12 above msl, Sept. 10-12, 1950. Records available: 1945-51.

Daily mean water level above msl from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.32	9.28	9.41	9.58	9.73	9.91	10.10	....	....	h9.82	h9.82	....
2	9.32	9.27	9.41	9.59	9.74	9.92	10.10	....	....	....	....	....
3	9.32	9.27	9.42	9.61	9.75	9.94	10.10	....	h9.86	....	....	h9.96
4	9.32	9.27	9.44	9.62	9.76	9.94	10.11	....	....	....	....	....
5	9.32	9.28	9.44	9.62	9.76	9.94	10.12	....	....	....	h9.84	....
6	9.32	9.28	9.45	9.63	9.77	9.94	10.12	h9.69	....	....	....	....
7	9.32	9.31	9.45	9.63	9.78	9.95	10.09	....	....	....	....	....
8	9.29	9.28	9.45	9.65	9.78	9.95	10.04	....	....	h9.79	....	....
9	....	9.29	9.46	9.65	9.78	9.96	9.99	....	....	....	....	....
10	....	9.29	9.47	9.65	9.79	9.97	9.95	....	h9.87	....	....	h9.98
11	9.33	9.29	9.47	9.66	9.77	9.99	9.92	....	....	....	....	....
12	9.32	9.30	9.47	9.67	9.78	9.99	9.88	....	....	....	h9.94	....
13	9.32	9.31	9.47	9.68	9.78	9.99	9.84	h9.66	....	....	....	....
14	9.32	9.31	9.48	9.68	9.79	10.01	9.82	....	....	....	....	....
15	9.32	9.30	9.48	9.69	9.80	10.01	9.82	....	....	h9.84	....	....
16	9.29	9.30	9.48	9.69	9.80	10.02	9.80	....	....	....	....	....
17	9.28	9.32	9.49	9.70	9.80	10.03	9.77	....	h9.85	....	....	h9.96
18	9.28	9.33	9.50	9.70	9.81	10.04	9.75	....	....	....	....	....
19	9.28	9.32	9.51	9.71	9.82	10.04	9.73	....	....	....	h9.92	h9.94
20	9.28	9.33	9.52	9.71	9.82	10.06	9.71	h9.77	....	....	....	....
21	9.28	9.34	9.53	9.72	9.83	10.07	9.71	....	....	....	....	....
22	9.26	9.34	9.53	9.72	9.83	10.08	9.72	....	....	h9.85	....	....
23	9.26	9.34	9.54	9.71	9.84	10.08	9.74	....	....	....	....	....
24	9.26	9.36	9.55	9.72	9.85	10.10	9.75	....	h9.79	....	....	h10.00
25	9.27	9.36	9.55	9.72	9.85	10.10	9.76	....	....	....	....	....
26	9.27	9.37	9.56	9.72	9.86	10.10	9.77	....	h9.78	....	h9.96	....
27	9.27	9.38	9.57	9.73	9.86	10.11	9.76	h9.82	....	....	....	....
28	9.27	9.41	9.57	9.73	9.88	10.11	9.71	....	....	....	....	....
29	9.26	....	9.57	9.74	9.88	10.11	9.71	....	....	h9.85	h9.92	....
30	9.26	....	9.57	9.73	9.90	10.10	9.73	h9.83	....	....	....	....
31	9.27	....	9.58	....	9.91	....	9.74	....	....	....	....	h10.08

h Tape measurement.

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 8.61 above msl, Mar. 31, 1949; lowest 5.52 above msl, Nov. 2, 1950. Records available: 1945-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	5.85	Apr. 25	7.26	July 30	6.32	Oct. 31	5.90
Feb. 28	6.52	June 1	7.13	Aug. 30	6.15	Nov. 28	6.57
Mar. 29	6.85	July 3	6.85	Sept. 26	5.92	Dec. 20	6.67

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 10.55 above msl, May 24, 1949; lowest 7.47 above msl, Dec. 28, 1950. Records available: 1945-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	7.56	Apr. 25	8.36	July 30	8.48	Nov. 1	8.16
Feb. 28	7.78	June 5	8.78	Aug. 30	8.44	29	8.51
Mar. 29	8.02	July 5	8.88	Sept. 26	8.27	Dec. 20	8.63

S4530. U. S. Geol. Survey. Middle Country Rd. and Roanoke Ave., Riverhead. Lat. 40°56'15", long. 72°40'40". Driven observation water-table well in deposits of late Pleistocene age, diameter 1½ inches, depth 12 feet, screen 10-12. Land-surface datum is 21.2 feet above msl. Highest water level 18.38 above msl, Apr. 26, 1949; lowest 13.91 above msl, Dec. 28, 1950. Records available: 1945-51.

S4530--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	14.28	Apr. 24	16.29	July 27	15.43	Oct. 31	14.37
Feb. 27	15.11	June 1	16.21	Aug. 29	14.92	Nov. 28	15.35
Mar. 29	15.71	July 2	15.90	Sept. 26	14.59	Dec. 20	15.65

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 58.16 above msl, Nov. 29, 1949; lowest 54.23 above msl, May 28, 1951. Records available: 1946-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	54.60	Apr. 23	54.28	July 24	54.36	Oct. 30	54.67
Feb. 20	54.60	May 28	54.23	Aug. 28	54.55	Nov. 26	54.93
Mar. 27	54.32	June 27	54.34	Sept. 25	54.58	Dec. 17	54.69

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 69.45 above msl, Jan. 30, 1950; lowest 65.22 above msl, Dec. 17, 1951. Records available: 1946-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	65.67	Apr. 23	65.27	July 24	65.47	Oct. 30	65.46
Feb. 20	65.65	May 28	65.38	Aug. 28	65.59	Dec. 17	65.22
Mar. 27	65.27	June 27	65.51	Sept. 25	65.63		

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 40.60 above msl, Aug. 24, 1949; lowest 36.74 above msl, Apr. 4, 1951. Records available: 1946-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	36.98	Apr. 30	36.87	July 26	37.51	Oct. 29	37.54
Feb. 23	36.88	June 4	37.25	Aug. 30	37.65	Nov. 29	37.53
Apr. 4	36.74	Aug. 28	37.48	Oct. 2	37.65	Dec. 27	37.54

S5517. Brookhaven National Laboratory. Upton Rd. and Princeton Ave., Brookhaven National Laboratory. 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 45.27 above msl, May 23, 27, 28, June 6, 1949; lowest 39.60 above msl, Feb. 4-6, 8, 9, 1951. Records available: 1948-51.

Daily mean water level above msl from recorder graph, 1948*

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.42	43.84	44.28	44.50	44.19	.....	43.38	42.90
2	43.44	43.85	44.29	.....	44.18	.....	43.36	42.89
3	43.46	43.86	44.30	.....	44.17	.....	43.36	42.88
4	43.48	43.88	44.31	44.50	44.16	.....	43.34	42.87
5	43.50	43.90	44.33	44.50	44.15	.....	43.32	42.85
6	43.52	43.90	44.35	44.50	44.14	43.75	43.31	42.85
7	43.55	43.93	44.35	44.48	44.13	43.73	43.29	42.83
8	43.56	43.95	44.35	44.47	44.12	43.72	43.27	42.81
9	43.56	43.97	44.36	44.45	44.11	43.70	43.26	42.79
10	43.58	43.98	44.38	44.44	44.10	43.68	43.26	.....
11	43.60	43.99	44.39	44.44	44.09	43.67	43.25	42.75
12	43.62	44.01	44.40	44.44	44.07	43.66	43.24	42.73
13	43.63	44.02	44.41	44.45	44.06	43.64	43.24	42.72
14	43.64	44.03	44.41	44.43	44.05	43.63	43.23	42.69
15	43.65	44.05	44.41	44.40	44.03	43.61	43.21	42.68
16	43.66	44.06	44.41	44.38	.....	43.58	43.19	42.67
17	43.68	44.07	44.42	44.36	.....	43.57	43.18	42.66
18	43.69	44.09	44.44	44.36	.....	.....	43.14	42.64
19	43.70	44.12	44.44	44.35	.....	.....	43.12	42.65
20	43.71	44.13	44.45	44.34	.....	43.53	43.10	42.63
21	43.75	44.14	44.46	44.32	.....	43.51	43.06	42.61
22	43.75	44.15	44.47	44.31	43.95	43.49	43.04	42.58
23	43.75	44.17	44.47	44.29	43.93	43.48	43.00	42.57
24	43.76	44.19	44.48	44.29	43.92	43.47	42.99	42.55
25	43.78	44.48	44.28	43.89	43.46	42.98	42.54

NEW YORK, SUFFOLK COUNTY

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Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	44.50	44.27	43.87	43.45	42.96	42.52
27	44.50	44.25	43.86	43.44	42.95	42.51
28	43.36	43.80	.....	44.50	44.24	43.85	43.43	42.93	42.49
29	43.38	43.82	.....	44.50	44.24	43.84	43.42	42.92	.....
30	43.41	43.83	44.27	44.51	44.23	.....	43.40	42.90	42.49
31	.....	43.83	.....	44.51	44.22	.....	43.39	.....	42.51

* No record for January, February, and March.

Daily mean water level above msl from recorder graph, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.53	43.71	44.14	44.79	45.12	45.24	44.97	44.59	44.11	43.60	43.03	42.47
2	42.53	43.72	44.14	44.80	45.13	45.23	44.96	44.58	44.08	43.57	43.02	42.45
3	42.55	43.73	44.14	44.81	45.14	45.22	44.96	44.56	44.05	43.56	43.01	42.43
4	42.60	43.76	44.16	44.84	45.14	45.24	44.95	44.55	44.04	43.54	43.00	42.41
5	42.68	43.77	44.19	44.85	45.14	45.26	44.94	44.53	44.02	43.53	42.97	42.40
6	42.75	43.77	44.22	44.88	45.15	45.27	44.92	44.52	.....	43.51	42.94	42.38
7	42.79	43.79	44.23	44.87	45.17	45.25	44.90	44.50	.....	43.49	42.93	42.37
8	42.83	43.79	44.25	44.89	45.17	45.20	44.88	44.49	43.97	43.48	42.91	42.34
9	42.86	43.81	44.27	44.90	45.18	45.16	44.87	44.48	43.97	43.46	42.88	42.32
10	42.92	43.83	44.29	44.90	45.19	45.16	44.87	44.46	43.95	43.44	42.86	42.30
11	42.96	43.82	44.33	44.92	45.19	45.19	44.86	44.44	43.92	43.43	42.84	42.28
12	43.01	43.83	44.35	44.93	45.20	45.18	44.85	44.43	43.90	43.42	42.82	42.27
13	43.06	43.86	44.38	44.96	45.21	45.15	44.84	44.41	43.89	43.39	42.81	42.25
14	43.10	43.87	44.39	44.97	45.21	45.13	44.83	44.39	43.88	43.37	42.80	42.23
15	43.14	43.90	44.42	44.98	45.22	45.13	44.82	44.38	43.88	43.36	42.78	42.22
16	43.19	43.90	44.44	45.00	45.22	45.12	44.80	44.36	43.85	43.34	42.76	42.20
17	43.23	43.91	44.47	45.00	45.24	45.11	44.79	44.35	43.84	43.32	42.74	42.18
18	43.26	43.91	44.49	45.00	45.24	45.11	44.77	44.35	43.82	43.30	42.72	42.17
19	43.31	43.93	44.50	45.02	45.25	45.10	44.76	44.34	43.81	43.30	42.70	42.15
20	43.33	43.97	44.51	45.02	45.26	45.10	44.75	44.31	43.79	43.28	42.68	42.13
21	43.36	43.97	44.54	45.02	45.24	45.12	44.74	44.28	43.77	43.27	42.66	42.11
22	43.39	43.99	44.57	45.03	45.26	45.12	44.73	44.26	43.76	43.25	42.64	42.08
23	43.41	44.01	44.59	45.06	45.27	45.08	44.72	44.25	43.75	43.22	42.63	42.07
24	.....	44.01	44.60	45.07	.....	45.06	44.70	44.23	43.72	43.19	42.60	42.04
25	.....	44.05	44.63	45.04	.....	45.06	44.70	44.21	43.70	43.17	42.59	42.02
26	.....	44.07	44.66	45.08	45.26	45.05	44.68	44.20	43.68	43.16	42.56	42.01
27	43.62	44.09	44.69	45.09	45.27	45.03	44.66	44.20	43.67	43.13	42.54	42.00
28	43.65	44.11	44.71	45.08	45.27	45.01	44.66	44.18	43.66	43.11	42.52	41.98
29	43.66	.....	44.73	45.08	45.26	44.99	44.64	44.17	43.64	43.10	42.51	41.96
30	43.67	.....	44.74	45.10	45.25	44.98	44.63	44.14	43.62	43.07	42.49	41.94
31	43.70	.....	44.76	.....	45.25	.....	44.61	44.13	.....	43.06	.....	41.93

Daily mean water level above msl from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.91	41.41	41.32	41.41	41.52	41.42	41.76	41.67	41.39	41.02	40.59	40.19
2	41.89	41.40	41.33	41.42	41.52	41.43	41.77	41.66	41.38	41.01	40.57	40.19
3	41.88	41.39	41.35	41.42	41.52	41.44	41.78	41.65	41.37	41.00	40.55	40.18
4	41.86	41.37	41.35	41.43	41.52	41.46	41.78	41.64	41.36	40.99	40.55	40.17
5	41.83	41.35	41.36	41.44	41.52	41.46	41.79	41.64	41.34	40.97	40.53	40.15
6	41.82	41.34	41.37	41.44	.....	41.47	41.79	41.62	41.33	40.96	40.53	40.15
7	41.80	41.33	41.37	41.44	.....	41.48	41.79	41.61	41.32	40.96	40.52	40.14
8	41.79	41.31	41.39	41.44	41.51	41.49	41.79	41.61	41.32	40.95	40.51	40.13
9	41.78	41.30	41.40	41.45	41.51	41.51	41.79	41.60	41.30	40.93	40.50	40.12
10	41.77	41.28	41.40	41.45	41.51	41.52	41.79	41.59	41.29	40.92	40.48	40.10
11	41.75	41.28	41.40	41.46	41.50	41.52	41.79	41.58	41.28	40.91	40.46	40.09
12	41.73	41.26	41.41	41.47	.....	41.53	41.80	41.56	41.25	40.90	40.45	40.08
13	41.72	41.26	41.42	41.47	41.48	41.54	41.80	41.55	41.24	40.88	40.44	40.08
14	41.71	41.24	.....	41.48	41.47	41.55	41.79	41.55	41.23	40.85	40.42	40.06
15	41.69	41.22	.....	41.48	41.46	41.56	41.78	41.53	41.22	40.84	40.41	40.05
16	41.67	41.22	41.41	41.48	41.45	41.58	41.78	41.52	41.20	40.83	40.39	40.04
17	41.66	41.21	41.41	41.49	41.44	41.59	41.78	41.51	41.19	40.81	40.38	40.02
18	41.65	41.21	41.41	41.49	41.43	41.61	41.78	41.51	41.18	40.80	40.36	40.01
19	41.62	41.20	41.39	41.50	41.43	41.62	41.77	41.51	41.16	40.78	40.36	40.01
20	41.61	41.20	41.40	41.50	41.43	41.65	41.77	41.50	41.15	40.77	40.34	40.00
21	41.60	41.19	41.42	41.51	41.43	41.66	41.76	41.49	41.14	40.76	40.32	39.97
22	41.59	41.20	41.42	41.51	41.41	41.68	41.75	41.47	41.13	40.75	40.32	39.95
23	41.57	41.20	41.44	41.51	41.40	41.70	41.73	41.46	.....	40.73	40.30	39.94
24	41.55	41.20	41.44	41.51	41.41	41.71	41.73	41.45	41.11	40.72	40.29	39.93
25	41.53	41.22	41.43	41.52	41.40	41.72	41.73	41.44	41.09	40.70	40.27	39.92

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S5517--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	41.52	41.24	41.42	41.53	41.40	41.72	41.72	41.44	41.08	40.69	40.25	39.92
27	41.49	41.27	41.43	41.52	41.40	41.73	41.71	41.44	41.07	40.67	40.24	39.91
28	41.47	41.28	41.43	41.52	41.40	41.74	41.70	44.43	41.06	40.64	40.23	39.91
29	41.46		41.43	41.52	41.41	41.74	41.69	41.42	41.08	40.63	40.22	39.89
30	41.45		41.42	41.52	41.41	41.76	41.69	41.40	41.04	40.61	40.21	39.86
31	41.43		41.41		41.42		41.68	41.39		40.60		39.85

Daily mean water level above msl from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.84	39.62	39.98	40.77	41.55	41.82	41.72	41.53	41.22	40.89	40.47	40.25
2	39.84	39.62	40.01	40.79	41.58	41.83	41.71	41.52	41.20	40.87	40.45	40.24
3	39.84	39.61	40.04	40.82	41.60	41.82	41.70	41.51	41.19	40.86	40.44	40.23
4	39.83	39.60	40.09	40.82	41.61	41.82	41.70	41.50	41.19	40.82	40.43	40.22
5	39.82	39.60	40.12	40.84	41.63	41.81	.....	41.48	41.18	40.82	40.43	40.22
6	39.82	39.60	40.16	40.85	41.64	41.81	.....	41.47	41.16	40.81	40.42	40.20
7	39.80	39.61	40.20	40.86	41.66	41.81	41.69	41.47	41.16	40.79	40.43	40.19
8	39.79	39.60	40.25	40.89	41.68	41.80	41.68	41.46	41.15	40.78	40.42	40.18
9	39.78	39.60	40.28	40.92	41.69	41.80	41.68	41.44	41.14	40.75	40.41	40.18
10	39.77	39.61	40.31	.....	41.70	41.81	41.67	41.43	41.13	40.74	40.41	40.17
11	39.75	39.63	40.35	.....	41.72	41.80	41.67	41.42	41.12	40.73	40.40	40.16
12	39.75	39.64	40.38	41.00	41.73	41.79	41.67	41.41	41.11	40.72	40.40	40.15
13	39.74	39.66	40.41	41.03	41.73	41.78	41.66	41.40	41.10	40.71	40.39	40.14
14	39.73	39.68	40.45	41.05	41.73	41.81	41.66	41.38	41.10	40.70	40.39	40.13
15	39.72	39.70	40.48	41.08	41.74	41.80	41.65	41.37	41.10	40.69	40.38	40.13
16	39.72	39.72	40.50	41.11	41.75	41.79	41.65	41.36	41.09	40.67	40.37	40.12
17	39.71	39.73	40.50	41.13	41.76	41.77	41.63	41.35	41.08	40.66	40.36	40.11
18	39.70	39.75	40.52	41.17	41.77	41.77	41.63	41.34	41.07	40.65	40.36	40.10
19	39.69	39.76	40.55	41.20	41.77	41.77	41.63	41.33	41.05	40.63	40.35	40.09
20	39.68	39.79	40.57	41.22	41.79	41.77	41.62	41.32	41.04	40.62	40.35	40.08
21	39.67	39.81	40.59	41.26	41.79	41.77	41.61	41.32	41.02	40.60	40.34	40.08
22	39.66	39.83	40.61	41.31	41.80	41.76	41.60	41.31	41.01	40.59	40.33	40.07
23	39.66	39.84	40.63	41.34	41.81	41.77	41.60	41.30	41.00	40.58	40.32	40.07
24	39.65	39.85	40.65	41.36	41.81	41.76	41.59	41.29	40.98	40.56	40.31	40.08
25	39.65	39.87	40.67	41.39	41.81	41.76	41.58	41.28	40.97	40.55	40.30	40.10
26	39.65	39.90	40.68	41.44	41.82	41.75	41.58	41.27	40.96	40.54	40.30	40.13
27	39.63	39.92	40.70	41.45	41.82	41.75	41.57	41.26	40.95	40.53	40.29	40.15
28	39.63	39.95	40.71	41.48	41.83	41.74	41.56	41.25	40.93	40.52	40.28	40.17
29	39.62		40.72	41.51	.....	41.73	41.56	41.24	40.91	40.51	40.27	40.20
30	39.63		40.74	41.53	.....	41.73	41.55	41.24	40.90	40.50	40.26	40.23
31	39.63		40.76		41.82		41.54	41.23		40.49		40.26

S6400. Brookhaven National Laboratory. 4th Ave. and Railroad St., Brookhaven National Laboratory. 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 47.00 above msl, May 12, 1949; lowest 40.97 above msl, Jan. 26, 1951. Records available: 1948-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 28, 1948	45.96	Apr. 13, 1949	46.88	Oct. 21, 1949	44.16	Oct. 11, 1950	42.36
Sept. 22	45.13	27	46.95	Nov. 1	43.97	Nov. 2	42.00
Nov. 8	44.18	May 12	47.00	17	43.62	Dec. 5	41.44
15	44.08	25	46.87	Dec. 2	43.40	29	41.19
24	43.95	June 9	46.70	28	42.97	Jan. 26, 1951	40.97
Dec. 1	43.83	21	46.56	Jan. 13, 1950	42.79	Feb. 27	41.52
7	43.78	29	46.41	27	42.59	Apr. 4	42.70
16	43.69	July 18	46.04	Feb. 28	42.94	May 1	43.60
Jan. 12, 1949	44.32	27	45.86	Mar. 30	42.96	June 5	43.58
27	45.19	Aug. 10	45.59	Apr. 25	43.27	29	43.42
Feb. 10	45.51	26	45.25	May 26	43.28	July 27	43.05
23	45.78	Sept. 9	45.00	June 29	43.59	Aug. 30	42.65
Mar. 9	46.09	23	44.74	July 28	43.48	Oct. 2	42.17
16	46.33	Oct. 6	44.43	Sept. 7	42.90	30	41.68
30	46.65						

S6409. Brookhaven National Laboratory. Yale and Upton Rds., Brookhaven National Laboratory. 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 34.68 above msl, June 22, 1949; lowest 31.46 above msl, Feb. 15, 1951. Records available: 1949-51.

Daily mean water level above msl from recorder graph, 1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.40	34.31	34.26	.....	34.32	34.38	34.34	33.82	33.87	33.52
2	33.73	34.19	34.19	34.30	.....	34.36	34.34	34.13	33.74	33.95	33.45
3	33.73	34.12	34.19	34.29	.....	34.44	34.33	34.14	33.79	33.94	33.40
4	33.99	34.06	34.22	34.18	.....	34.50	34.36	34.19	33.89	34.01	33.36
5	33.92	34.24	34.08	34.23	.....	34.50	34.38	34.26	33.95	33.85	33.53
6	33.77	34.30	34.46	.....	34.51	34.46	34.35	34.28	33.86	33.77	33.51
7	33.96	34.12	34.43	.....	34.54	34.43	34.35	34.20	33.86	33.82	33.59
8	33.85	34.09	34.42	.....	34.39	34.34	34.39	34.29	33.86	33.87	33.47
9	33.97	34.14	34.29	.....	34.27	34.30	34.42	34.27	33.89	33.75	33.29
10	33.97	34.21	34.18	.....	34.29	34.42	34.37	34.11	33.93	33.71	33.19
11	33.83	34.38	34.20	.....	34.43	34.43	34.36	33.95	33.91	33.79	33.21
12	33.71	34.35	34.08	.....	34.47	34.42	34.35	33.93	33.97	33.62	33.30
13	33.91	34.26	34.16	.....	34.42	34.46	34.34	34.06	33.84	33.65	33.40
14	33.92	34.14	34.32	.....	34.39	.....	34.28	34.21	33.79	33.87	33.32
15	34.03	34.21	34.29	.....	34.38	.....	34.23	34.24	33.88	33.80	33.27
16	33.95	34.12	34.36	.....	34.38	.....	34.19	34.23	33.83	33.73	33.20
17	33.92	34.16	34.26	.....	34.39	.....	34.24	34.19	33.74	33.77	33.14
18	33.73	34.27	34.17	.....	34.41	.....	34.39	34.19	33.80	33.75	33.22
19	33.84	34.05	34.28	.....	34.44	.....	34.44	34.29	33.85	33.69	33.33
20	34.00	33.88	34.19	.....	34.48	.....	34.27	34.22	33.84	33.82	33.25
21	33.77	33.96	34.16	.....	34.60	34.51	34.17	34.09	33.85	33.71	33.31
22	33.88	34.06	34.18	.....	34.68	34.52	34.15	34.15	33.92	33.62	33.39
23	34.09	34.20	34.38	.....	34.59	34.45	34.20	34.27	33.86	33.66	33.40
24	33.96	34.04	34.43	.....	34.53	34.35	34.21	34.12	33.81	33.59	.....
25	34.13	34.01	34.21	34.66	34.56	34.44	34.13	33.94	33.70	33.84	.....
26	34.07	34.14	34.29	34.62	34.61	34.42	34.13	33.84	33.87	33.71	.....
27	34.02	34.33	34.37	34.61	34.57	34.40	34.19	33.91	33.68	33.59	33.31
28	34.34	34.30	34.25	34.58	34.42	34.44	34.21	34.15	33.69	33.51	33.30
29	34.13	34.17	34.55	34.38	34.47	34.33	34.15	33.78	33.66	33.25
30	34.18	34.25	34.53	34.33	34.49	34.20	34.03	33.83	33.69	33.15
31	34.25	.....	34.54	.....	34.48	34.25	.....	34.04	.....	33.05

Daily mean water level above msl from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.10	32.87	33.11	.....	.....	.....	32.63	32.73	32.59	32.27	32.30	32.15
2	33.14	33.07	33.01	.....	.....	.....	32.59	.....	32.57	32.22	32.33	32.07
3	33.28	32.99	32.75	.....	.....	.....	32.65	.....	32.54	32.35	32.23	32.17
4	33.35	32.95	32.61	.....	.....	.....	32.67	.....	32.57	32.44	32.35	32.36
5	33.20	32.86	32.82	.....	.....	.....	32.66	.....	32.46	32.30	32.39	32.14
6	33.24	33.03	32.84	.....	.....	.....	32.71	.....	32.35	32.24	32.12	31.87
7	33.33	33.00	32.67	.....	.....	32.63	32.65	.....	32.39	32.19	32.07	31.90
8	33.03	32.76	32.97	.....	.....	32.62	32.58	.....	32.40	32.28	32.12	32.07
9	33.09	33.01	32.93	.....	.....	32.64	32.54	.....	32.46	32.37	32.20	32.12
10	33.19	32.97	32.68	.....	.....	32.77	32.53	.....	32.48	32.47	32.17	32.17
11	33.14	32.94	32.66	.....	.....	32.82	32.58	.....	32.57	32.47	32.05	32.35
12	32.92	32.86	32.82	.....	.....	32.65	32.65	.....	32.48	32.58	32.00	32.28
13	33.08	32.80	32.94	.....	.....	32.61	32.74	.....	32.44	32.49	31.99	32.12
14	33.26	32.87	32.81	.....	.....	32.66	32.66	.....	32.54	32.31	31.94	32.04
15	33.03	33.17	32.79	.....	.....	32.65	32.50	.....	32.64	32.19	31.95	32.08
16	33.15	33.19	32.79	.....	.....	32.72	32.56	.....	32.59	32.08	32.09	32.14
17	32.97	33.11	32.84	.....	.....	32.84	32.70	.....	32.41	32.10	32.20	32.03
18	33.26	33.01	32.96	.....	.....	32.71	32.78	.....	32.35	32.17	32.18	32.07
19	33.08	33.17	32.64	.....	.....	32.75	32.69	.....	32.45	32.26	32.07	31.99
20	32.93	33.08	.....	.....	.....	32.72	32.74	.....	32.45	32.34	32.24	31.88
21	32.91	32.93	.....	.....	.....	32.76	32.69	.....	32.50	32.28	32.38	31.82
22	33.08	33.10	.....	.....	.....	32.63	32.62	.....	32.64	32.29	32.16	31.88
23	33.12	33.26	.....	.....	.....	32.67	32.55	.....	32.67	32.30	32.03	31.94
24	33.02	33.07	.....	.....	.....	32.75	32.58	.....	32.51	32.22	31.98	32.13
25	32.93	33.01	.....	.....	.....	32.80	32.70	.....	32.37	32.31	32.26	32.04
26	33.02	33.00	.....	.....	.....	32.76	32.68	32.47	32.27	32.19	32.33	31.95
27	32.90	32.94	.....	.....	.....	32.78	32.68	32.47	32.22	32.10	32.26	31.77
28	32.83	32.85	.....	.....	.....	32.69	32.71	32.52	32.20	32.09	32.33	31.75
29	33.09	.....	.....	.....	.....	32.65	32.73	32.58	32.21	32.18	32.37	31.92
30	32.96	.....	.....	.....	.....	32.65	32.70	32.55	32.25	32.28	32.28	31.93
31	32.99	.....	.....	.....	.....	.....	32.71	32.53	.....	32.26	.....	31.96

S6409--Continued.

Daily mean water level above msl from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.76	31.94	31.75	32.23	32.29	32.64	32.83	32.73	32.61	32.38	32.37	.....
2	31.77	31.80	31.81	32.30	32.52	32.70	32.72	32.64	32.56	32.44	.....	.....
3	31.88	31.63	31.71	32.53	32.57	32.66	32.67	32.73	32.58	32.39	.....	.....
4	31.99	31.79	31.87	32.38	32.56	32.69	32.76	32.65	32.53	32.43	.....	.....
5	31.74	31.76	31.80	32.33	32.58	32.67	32.90	32.56	32.48	32.52	.....	.....
6	31.78	31.66	31.78	32.26	32.66	32.66	32.78	32.56	32.55	32.45	.....	.....
7	31.96	32.06	32.01	32.31	32.58	32.67	32.67	32.63	32.64	32.36	.....	.....
8	32.04	31.97	32.01	32.31	32.53	32.62	32.64	32.74	32.51	32.51	.....	.....
9	31.77	31.61	31.90	32.37	32.51	32.68	32.64	32.68	32.48	32.40	.....	.....
10	31.76	31.52	31.85	32.36	32.43	32.72	32.64	32.63	32.46	32.34	.....	.....
11	31.87	31.72	31.92	32.35	32.53	32.71	32.62	32.59	32.45	32.52	.....	.....
12	31.82	31.83	31.93	32.34	32.65	32.62	32.66	32.58	32.42	32.41	.....	.....
13	31.69	31.77	31.95	32.38	32.45	32.59	32.65	32.61	32.44	32.20	.....	.....
14	31.79	31.63	32.15	32.39	32.27	32.79	32.63	32.58	32.46	32.17	.....	.....
15	.....	31.46	32.20	32.35	32.34	32.82	32.63	32.62	32.49	32.27	.....	.....
16	.....	31.48	32.18	32.31	32.47	32.75	32.65	32.70	32.49	32.28	.....	.....
17	.....	31.63	32.06	32.32	32.48	32.69	32.63	32.71	32.51	32.26	.....	.....
18	.....	31.75	31.92	32.19	32.37	32.68	32.60	32.66	32.51	32.24	.....	.....
19	31.80	31.71	31.85	32.28	32.37	32.67	32.74	32.60	32.47	32.33	.....	.....
20	31.80	31.77	32.13	32.18	32.48	32.69	32.75	32.60	32.38	32.32	.....	.....
21	31.86	31.95	32.11	32.05	32.57	32.74	32.62	32.66	32.35	32.23	.....	.....
22	31.55	32.00	32.19	32.10	32.66	32.70	32.66	32.66	32.40	32.20	.....	h32.41
23	31.52	31.91	32.11	32.23	32.77	32.76	32.69	32.55	32.46	32.21	.....	.....
24	31.82	32.00	32.28	32.14	32.86	32.74	32.64	32.51	32.36	32.31	.....	.....
25	31.87	32.01	32.14	32.22	32.81	32.79	32.62	32.54	32.46	32.35	.....	.....
26	31.90	31.95	32.04	32.36	32.75	32.72	32.67	32.61	32.37	32.30	.....	.....
27	31.79	32.03	31.95	32.19	32.81	32.80	32.68	32.63	32.43	32.45	.....	.....
28	31.69	31.84	31.99	32.26	32.83	32.79	32.68	32.62	32.45	32.55	.....	.....
29	31.73	.....	32.03	32.48	32.81	32.75	32.68	32.60	32.29	32.41	.....	.....
30	31.60	.....	32.16	32.38	32.77	32.80	32.67	32.61	32.26	32.29	h32.19	.....
31	31.57	.....	32.30	.....	32.68	.....	32.69	32.64	.....	32.34	.....	.....

h Tape measurement.

S6410. Brookhaven National Laboratory. Ridge Rd. and 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 47.38 above msl, July 14, 1949; lowest 42.59 above msl, Feb. 25, 26, 28, Mar. 1-7, 1951. Records available: 1948-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 4, 1948	46.14	Feb. 22, 1949	45.70	June 8, 1949	47.21	Sept. 22, 1949	46.87
15	46.03	Mar. 9	45.87	21	47.31	Oct. 5	46.73
23	45.94	16	45.93	29	47.33	20	46.57
30	45.87	30	46.16	July 14	47.38	Nov. 3	46.41
Dec. 7	45.81	Apr. 12	46.38	26	47.30	15	46.24
14	45.72	27	46.64	Aug. 11	47.19	Dec. 1	46.07
Jan. 12, 1949	45.43	May 11	46.87	25	47.08	15	45.81
27	45.51	25	47.06	Sept. 9	46.98	28	45.63
Feb. 10	45.62						

Daily mean water level above msl from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.11	43.99	43.97	44.14	.....	43.95	43.74	43.45
2	44.11	43.98	43.97	44.15	44.12	43.94	43.73	43.45
3	44.10	43.98	43.98	44.15	44.12	43.94	43.71	43.45
4	44.32	44.09	43.97	43.98	44.16	44.12	43.94	43.71	43.44
5	44.31	44.09	43.97	43.98	44.16	44.10	43.93	43.69	43.42
6	44.30	44.09	43.97	.....	44.16	44.09	43.93	43.69	43.41
7	44.28	44.09	43.97	.....	44.16	44.08	43.92	43.67	43.40
8	44.28	44.07	43.95	44.00	44.16	44.08	43.91	43.67	43.40
9	44.27	44.06	43.95	44.01	.....	44.06	43.90	43.66	43.39
10	h44.97	.....	44.26	44.06	43.95	44.02	.....	44.06	43.90	43.65	43.38

S6410--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	44.26	44.05	43.95	44.03	.....	44.06	43.90	43.65	43.37
12	h45.40	.....	.....	44.25	44.05	43.95	44.04	44.18	44.05	43.88	43.64	43.35
13	44.25	44.05	43.95	44.06	44.18	44.03	43.87	43.64	43.34
14	44.24	44.04	43.95	44.06	44.18	44.03	43.87	43.62	43.33
15	44.23	44.04	43.95	44.06	.....	44.03	43.85	43.61	43.32
16	44.21	44.04	43.95	44.07	.....	44.02	43.85	43.60	43.32
17	44.21	44.03	43.96	44.08	.....	44.01	43.84	43.59	43.30
18	44.20	44.03	43.95	44.09	.....	44.01	43.84	43.58	43.29
19	44.19	44.03	43.95	44.09	44.17	44.00	43.83	43.58	43.28
20	44.18	44.03	.....	44.11	44.18	44.00	43.82	43.57	43.27
21	44.17	44.01	.....	44.10	44.17	44.00	43.82	43.55	43.24
22	44.17	44.01	.....	44.10	44.17	44.00	43.81	43.54	43.23
23	44.17	.....	.....	44.11	44.17	43.98	43.80	43.53	43.23
24	44.16	.....	43.96	44.12	44.16	43.97	43.79	43.52	43.22
25	44.15	.....	43.96	44.12	44.16	43.97	43.78	43.52	43.21
26	h45.20	.....	.....	44.14	.....	43.96	44.13	44.15	43.96	43.77	43.50	43.20
27	44.14	44.00	43.97	44.13	44.15	43.96	43.77	43.50	43.17
28	h44.71	.....	44.12	44.00	43.97	44.13	.....	43.95	43.77	43.48	43.17
29	44.12	43.99	.....	44.13	44.13	43.95	43.76	43.47	43.16
30	h44.35	44.11	43.99	.....	44.14	.....	.....	43.75	43.46	43.15
31	43.99	.....	44.14	.....	.....	43.75	.....	43.14

h Tape measurement.

Daily mean water level above msl from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.13	42.81	42.59	42.86	43.30	.....	44.27	44.34	44.21	44.01	43.75	.....
2	43.11	42.81	42.59	42.87	43.33	43.98	44.28	44.33	44.19	44.01	43.74	.....
3	43.10	42.79	42.59	42.89	.....	43.99	44.28	44.34	44.18	44.00	.....	.....
4	43.10	42.78	42.59	42.89	.....	44.00	44.29	44.33	44.17	43.99	.....	.....
5	43.09	42.78	42.59	42.91	43.38	44.02	44.30	44.32	44.17	43.99	.....	.....
6	43.09	42.76	42.59	42.92	43.40	44.04	44.29	44.32	44.16	43.98	.....	.....
7	43.08	42.76	42.59	42.92	43.42	44.05	44.29	44.32	44.16	43.97	.....	.....
8	43.06	42.74	42.60	42.93	43.44	44.06	44.30	44.32	44.14	43.96	.....	.....
9	43.05	42.74	42.61	42.94	43.47	44.07	44.30	44.32	44.14	43.94	.....	.....
10	43.03	42.71	42.61	42.96	43.49	44.08	44.30	44.31	44.13	43.93	.....	.....
11	43.02	42.70	42.62	42.98	43.52	44.10	44.30	44.31	44.13	43.93	.....	.....
12	43.01	42.69	42.63	42.99	43.55	44.11	44.31	44.31	44.12	43.92	.....	.....
13	43.01	42.69	42.65	.....	43.56	44.12	44.30	44.30	44.11	43.92	.....	.....
14	.....	42.68	42.68	.....	43.59	44.13	44.31	44.29	44.11	43.91	.....	.....
15	.....	42.68	42.69	.....	43.61	44.14	44.31	44.29	44.10	43.90	.....	.....
16	.....	42.68	42.70	.....	43.64	44.15	44.31	44.29	44.10	43.90	.....	.....
17	.....	42.67	42.70	.....	43.66	44.16	44.32	44.29	44.09	43.89	.....	.....
18	.....	42.65	42.71	.....	43.68	44.16	44.32	44.28	44.09	43.88	.....	.....
19	42.95	42.65	42.72	.....	43.71	44.17	44.33	44.27	44.08	43.88	.....	.....
20	42.94	42.64	42.75	.....	43.74	44.19	44.33	44.27	44.07	43.86	.....	.....
21	42.93	42.64	42.75	43.09	43.76	44.20	44.32	44.27	44.07	43.85	.....	.....
22	42.92	42.63	42.76	43.10	43.78	44.20	44.33	44.26	44.07	43.84	.....	.....
23	42.91	42.61	42.77	43.13	43.80	44.21	44.33	44.25	44.07	43.83	.....	.....
24	42.90	42.60	42.79	43.16	43.82	44.21	44.33	44.24	44.06	43.82	.....	.....
25	42.90	42.59	42.80	43.19	43.83	44.21	44.33	44.24	44.06	43.81	.....	.....
26	42.89	42.59	42.80	43.20	43.85	44.22	44.34	44.24	44.05	43.80	.....	.....
27	42.87	42.60	42.81	43.22	.....	44.24	44.34	44.24	44.04	43.80	h43.23	.....
28	42.85	42.59	42.82	43.24	.....	44.24	44.34	44.23	44.03	43.79	.....	.....
29	42.84	.....	42.83	43.27	.....	44.25	44.34	44.22	44.02	43.78	h43.49	.....
30	42.83	.....	42.85	43.28	.....	44.27	44.34	44.22	44.02	43.77	.....	.....
31	42.81	.....	42.85	.....	.....	.....	44.34	44.22	.....	43.77	.....	.....

h Tape measurement.

S6411. Brookhaven National Laboratory. Ridge Rd. and State Highway 25A, Shoreham. Lat. 40°56'50", long. 72°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 31.51 above msl, Sept. 22, 1949; lowest 28.39 above msl, Apr. 4, 1951. Records available: 1948-51.

S6411--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 5, 1948	31.12	May 11, 1949	30.88	Dec. 1, 1949	31.21	Dec. 1, 1950	28.88
15	31.15	25	30.96	15	31.12	28	28.80
23	31.15	June 8	31.04	28	31.07	Jan. 26, 1951	28.68
30	31.16	21	31.13	Jan. 12, 1950	30.94	Feb. 23	28.52
Dec. 7	31.16	29	31.15	26	30.87	Apr. 4	28.39
14	31.11	July 15	31.24	Feb. 10	30.74	30	28.41
Jan. 12, 1949	31.01	26	31.30	28	30.61	June 4	28.61
27	30.92	Aug. 11	31.37	Mar. 30	30.35	28	28.77
Feb. 10	30.89	25	31.42	Apr. 25	30.15	July 26	28.91
22	30.82	Sept. 9	31.49	May 25	29.89	Aug. 30	29.11
Mar. 9	30.81	22	31.51	June 29	29.63	Oct. 2	29.22
16	30.77	Oct. 5	31.49	July 28	29.42	29	29.23
30	30.75	20	31.46	Sept. 7	29.18	Nov. 29	29.21
Apr. 12	30.77	Nov. 3	31.40	Oct. 11	29.07	Dec. 27	29.12
27	30.82	15	31.32	27	29.00		

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 22.11 above msl, June 8, 1949; lowest 19.05 above msl, Feb. 26, 1951. Records available: 1949-51.

Water level above msl

Jan. 24, 1949	20.69	July 14, 1949	21.94	Jan. 26, 1950	19.80	Jan. 25, 1951	19.13
Feb. 10	20.77	25	21.84	Feb. 10	19.67	Feb. 26	19.05
21	20.92	Aug. 10	21.74	27	19.55	Apr. 4	19.30
Mar. 9	21.06	24	21.62	Mar. 29	19.40	May 1	19.65
16	21.15	Sept. 8	21.47	Apr. 24	19.26	June 4	20.22
30	21.39	22	21.33	May 26	19.30	28	20.37
Apr. 13	21.65	Oct. 4	21.19	June 28	19.55	July 26	20.31
27	21.89	21	20.97	July 27	19.84	Aug. 30	20.21
May 11	22.07	Nov. 3	20.79	Sept. 7	20.00	Oct. 1	20.02
24	22.08	15	20.66	Oct. 11	19.79	29	19.82
June 8	22.11	Dec. 1	20.46	27	19.70	Nov. 29	19.70
21	22.08	28	20.14	Nov. 24	19.50	Dec. 26	19.60
29	22.09	Jan. 12, 1950	19.96	Dec. 30	19.30		

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 38.46 above msl, Mar. 16, 1949; lowest 34.42 above msl, Nov. 24, 1950. Records available: 1949-51.

Water level above msl

Jan. 26, 1949	37.77	July 26, 1949	36.30	Jan. 26, 1950	35.72	Jan. 26, 1951	35.39
Feb. 10	38.14	Aug. 11	36.15	Feb. 10	36.04	Feb. 23	36.28
21	38.19	24	35.96	27	36.63	Apr. 2	36.66
Mar. 9	38.26	Sept. 8	35.95	Mar. 29	36.72	30	36.54
16	38.46	23	35.91	Apr. 24	36.31	May 16	36.33
30	38.33	Oct. 4	35.77	May 25	36.48	June 4	36.39
Apr. 13	38.36	20	35.60	June 28	36.31	28	36.00
27	38.30	Nov. 3	35.74	July 27	35.76	July 26	35.32
May 12	38.23	15	35.69	Sept. 7	35.15	Aug. 29	35.23
24	38.02	Dec. 1	35.66	Oct. 9	34.73	Oct. 1	34.63
June 8	37.50	16	34.80	26	34.66	29	34.63
21	37.17	28	35.86	Nov. 24	34.42	Nov. 29	35.66
28	37.01	Jan. 12, 1950	35.79	Dec. 28	34.96	Dec. 26	36.59
July 14	36.40						

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. Land-surface datum is 5.7 feet above msl. Highest water level 2.41 above msl, Apr. 26, 1951; lowest 0.66 above msl, Feb. 1, 1950. Records available: 1949-51.

S6524--Continued.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 13, 1949	1.64	Feb. 27, 1950	1.59	Nov. 1, 1950	1.36	July 3, 1951	2.04
Aug. 5	1.53	Mar. 28	1.29	29	1.74	30	1.80
24	1.42	Apr. 25	1.53	Dec. 28	1.63	Aug. 30	1.60
Sept. 29	1.36	May 23	1.52	Feb. 1, 1951	1.95	Oct. 2	1.53
Oct. 27	1.35	June 27	1.52	28	2.24	Nov. 1	1.47
Dec. 5	1.43	July 25	1.40	Mar. 29	2.31	29	1.85
29	1.19	Aug. 29	1.28	Apr. 26	2.41	Dec. 20	1.75
Feb. 1, 1950	.66	Oct. 4	1.28	June 4	2.21		

S6532. Conway Bros. Horton's Lane, Southold. Lat. $41^{\circ}03'55''$, long. $72^{\circ}26'10''$. 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 4.22 above msl, July 3, 1951; lowest 1.95 above msl, Feb. 27, 1950. Records available: 1949-51.

Water level above msl

Aug. 15, 1949	2.87	Mar. 28, 1950	2.03	Nov. 29, 1950	2.29	July 3, 1951	4.22
24	2.80	Apr. 25	2.03	Dec. 28	2.36	30	3.25
Sept. 30	2.45	May 24	2.12	Feb. 1, 1951	2.38	Aug. 30	2.99
Oct. 27	2.40	June 27	2.23	28	2.71	Oct. 2	2.73
Dec. 5	2.21	Aug. 29	2.27	Mar. 29	3.38	Nov. 1	2.65
29	2.11	Oct. 4	2.41	Apr. 26	4.00	29	2.86
Feb. 1, 1950	1.99	Nov. 1	2.26	June 4	3.82	Dec. 20	2.76
27	1.95						

S6542. Cutchogue Fire Dept. Depot Lane, Cutchogue. Lat. $41^{\circ}01'05''$, long. $72^{\circ}29'25''$. Drilled fire protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 36 feet. Land-surface datum is 24.4 feet above msl. Highest water level 5.30 above msl, July 14, 1949; lowest 3.22 above msl, Nov. 2, 1950. Records available: 1949-51.

Water level above msl

July 14, 1949	5.30	Feb. 28, 1950	3.63	Nov. 2, 1950	3.22	July 3, 1951	5.00
Aug. 5	4.97	Mar. 28	3.61	29	3.35	30	4.64
24	4.78	Apr. 24	3.71	Dec. 28	3.34	Aug. 30	4.39
Sept. 29	4.42	May 23	3.71	Feb. 1, 1951	3.52	Oct. 2	4.05
Oct. 27	4.09	June 27	3.67	28	4.10	Nov. 1	3.80
Dec. 5	3.88	July 25	3.54	Mar. 29	4.62	28	4.26
29	3.73	Aug. 30	3.44	Apr. 26	5.27	Dec. 20	4.25
Jan. 31, 1950	3.27	Oct. 4	3.32	June 4	5.20		

S6558. Mattituck Fire Dept. State Highway 25, Mattituck. Lat. $40^{\circ}58'30''$, long. $72^{\circ}33'10''$. Drilled fire protection water-table well in deposits of late Pleistocene age, diameter 6 inches, depth 37 feet. Land-surface datum is 13.9 feet above msl. Highest water level 4.79 above msl, Apr. 27, 1951; lowest 2.78 above msl, June 27, 1950. Records available: 1949-51.

Water level above msl

July 14, 1949	4.18	Jan. 31, 1950	3.32	Nov. 29, 1950	3.25	July 3, 1951	4.32
Aug. 3	3.93	Feb. 28	3.76	Dec. 28	3.31	30	3.96
24	4.00	Mar. 27	3.82	Jan. 30, 1951	3.40	Aug. 30	3.67
Sept. 30	3.77	Apr. 24	3.75	Feb. 28	3.88	Oct. 1	3.37
Oct. 28	3.59	May 23	3.74	Mar. 29	4.33	31	3.29
Dec. 5	3.54	June 27	2.78	Apr. 27	4.79	Nov. 28	4.77
30	3.41	Nov. 2	3.08	June 1	4.53	Dec. 20	3.82

S6780. J. Moisa. Breakwater Rd., Mattituck. Lat. $41^{\circ}00'05''$, long. $72^{\circ}33'45''$. Drilled irrigation water-table well in deposits of late Pleistocene age, diameter 10 inches, depth 100 feet. Land-surface datum is 48.3 feet above msl. Highest water level 4.19 above msl, June 5, 1951; lowest 2.77 above msl, June 26, 1950. Records available: 1949-51.

Water level above msl

Sept. 6, 1949	3.99	Mar. 27, 1950	3.09	Nov. 2, 1950	3.13	June 5, 1951	4.19
30	3.86	Apr. 24	3.09	29	3.18	July 5	4.08
Oct. 27	3.71	May 23	3.09	Dec. 28	3.15	30	3.71
Dec. 5	3.60	June 26	2.77	Jan. 30, 1951	3.07	Aug. 30	3.54
29	3.43	July 25	3.00	Feb. 28	3.27	Oct. 3	3.50
Jan. 31, 1950	3.28	Aug. 30	3.00	Mar. 29	3.70	Nov. 29	3.69
Feb. 28	3.19	Oct. 4	3.07	Apr. 27	3.92	Dec. 20	3.70

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. Land-surface datum is 18.2 feet above msl. Highest water level 6.06 above msl, July 14, 1949; lowest 3.58 above msl, Aug. 30, 1950. Records available: 1949-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 14, 1949	6.06	Feb. 28, 1950	3.86	Nov. 1, 1950	3.60	July 5, 1951	5.46
Aug. 5	5.83	Mar. 28	3.84	29	3.60	30	5.10
24	5.58	Apr. 24	3.73	Dec. 28	3.66	Aug. 30	4.91
Sept. 29	5.17	May 23	3.73	Feb. 1, 1951	3.75	Oct. 2	4.70
Oct. 27	4.81	June 27	3.70	28	3.99	Nov. 1	4.54
Dec. 5	4.54	July 25	3.65	Mar. 29	4.44	28	4.73
29	4.36	Aug. 30	3.58	Apr. 26	4.94	Dec. 20	4.72
Jan. 31, 1950	4.05	Oct. 4	3.61	June 4	5.43		

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 3.42 above msl, Apr. 1, 1949; lowest 1.28 above msl, Jan. 28-31, Feb. 1, 2, 1950. Records available: 1949-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	2.09	June 4	3.01	Sept. 10	1.82	Oct. 12	1.71
28	2.73	July 3	2.75	26	1.73	Nov. 1	1.67
Mar. 29	2.96	30	2.29	Oct. 7	1.69	29	2.26
May 14	3.09	Aug. 30	1.89	11	1.70	Dec. 20	2.37

S8831. U. S. Geol. Survey. Lake Drive 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. Date of first measurement Aug. 15, 1950. Highest water level 7.36 above msl, May 31, 1951; lowest 6.23 above msl, Oct. 31, 1950. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 15, 1950	6.47	Dec. 26, 1950	6.56	May 31, 1951	7.36	Sept. 26, 1951	6.40
31	6.37	Jan. 23, 1951	6.78	June 29	6.92	Oct. 31	6.51
Oct. 3	6.24	Feb. 27	7.31	July 26	6.66	Nov. 27	7.04
31	6.23	Mar. 28	7.21	Aug. 29	6.58	Dec. 19	7.23
Nov. 28	6.40	Apr. 24	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 11.03 above msl, May 31, 1951; lowest 9.58 above msl, Dec. 26, 1950. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 16, 1950	10.31	Dec. 26, 1950	9.58	May 31, 1951	11.03	Sept. 26, 1951	10.18
Sept. 1	10.18	Jan. 23, 1951	9.70	July 2	10.95	Oct. 31	10.03
Oct. 3	9.94	Feb. 27	10.26	27	10.70	Nov. 27	10.36
30	9.76	Mar. 28	10.36	Aug. 29	10.41	Dec. 19	10.33
Nov. 28	9.65	Apr. 25	10.78				

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 8.70 above msl, June 29, 1951; lowest 6.95 above msl, Jan. 23, 1951. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 31, 1950	7.50	Jan. 23, 1951	6.95	May 31, 1951	8.60	Sept. 26, 1951	7.75
Oct. 3	7.28	Feb. 27	7.48	June 29	8.70	Oct. 31	7.47
31	7.09	Mar. 28	7.93	July 26	8.45	Nov. 27	7.67
Nov. 28	7.01	Apr. 25	8.53	Aug. 29	8.06	Dec. 19	7.57
Dec. 26	7.00						

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. Land-surface datum is 17.4 feet above msl. Highest water level 6.90 above msl, May 31, 1951; lowest 5.61 above msl, Jan. 23, 1951. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 31, 1950	6.02	Dec. 26, 1950	5.63	May 31, 1951	6.90	Sept. 26, 1951	6.15
Aug. 31	5.89	Jan. 23, 1951	5.61	July 2	6.76	Oct. 31	5.96
Oct. 3	5.81	Feb. 27	6.06	26	6.53	Nov. 27	6.25
30	5.69	Mar. 28	6.46	Aug. 29	6.31	Dec. 19	6.27
Nov. 28	5.64	Apr. 25	6.78				

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. Land-surface datum is 14.8 feet above msl. Highest water level 7.89 above msl, May 31, 1951; lowest 6.92 above msl, Dec. 26, 1950. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 1, 1950	7.15	Dec. 26, 1950	6.92	May 31, 1951	7.89	Sept. 26, 1951	7.39
Sept. 1	7.19	Jan. 23, 1951	7.01	July 2	7.72	Oct. 31	7.32
Oct. 3	7.10	Feb. 27	7.42	27	7.55	Nov. 28	7.56
30	7.01	Mar. 28	7.62	Aug. 29	7.43	Dec. 19	7.66
Nov. 28	7.18	Apr. 25	7.79				

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 7.38 above msl, May 31, 1951; lowest 6.29 above msl, Jan. 23, 1951. Records available: 1950-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 16, 1950	6.68	Nov. 28, 1950	6.45	Apr. 25, 1951	7.31	Sept. 26, 1951	6.87
22	6.66	Dec. 26	6.39	May 31	7.38	Oct. 31	6.79
31	6.68	Jan. 23, 1951	6.29	July 2	7.33	Nov. 28	7.13
Oct. 3	6.67	Feb. 27	6.62	27	7.13	Dec. 19	7.14
30	6.52	Mar. 28	6.97	Aug. 29	6.97		

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 35.61 above msl, Mar. 30, 1949; lowest 32.90 above msl, Jan. 27, 1948. Records available: 1947-51.

Water level above msl

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	33.68	Apr. 23	35.38	July 24	33.93	Oct. 30	33.21
Feb. 20	34.27	May 28	34.72	Aug. 28	33.59	Nov. 26	33.68
Mar. 27	34.94	June 27	34.28	Sept. 25	33.38	Dec. 18	33.84

Upstate New York

By E. S. Simpson, F. K. Mack, and G. R. Ayer

Scope of Water-Level Program

The observation-well program in Upstate New York (fig. 20) was continued in 1951, primarily as part of the investigation of ground-water resources in cooperation with the State Water Power and Control Commission. Four of the wells are measured as part of a hydrologic investigation in cooperation with the State Department of Conservation. Ten of the wells are equipped with recording gages.

Interpretation of Water-Level Fluctuations

The year began with seasonal recovery occurring at an above-average rate in all sections of the State. Many new high water levels resulted from this condition which continued through March but tapered off in April with most levels about average. Seasonal decline which began in May continued at a higher-than-average rate. During June seasonal decline continued at about average rates in most sections, exceptions being the northern part of the State where levels dropped rapidly and were below normal, and along the Mohawk Valley where levels dropped slowly and were above normal. Seasonal decline during July and August was about normal, except for the extreme western portion of the State where levels were exceptionally low. In September a greater-than-average rate of decline brought most levels below normal by the end of the month, with the exception of the Mohawk and Hudson Valleys, where water levels remained above normal. Seasonal recovery began in October and continued throughout the remainder of the year which closed with water levels in most wells above normal. Graphs showing 1951 month-end water levels and average for 9 years of record in wells Mt 1, Wo 1, and St 1 are given in figure 21.

Well-Numbering System

Wells in Upstate New York are numbered consecutively in each county. A letter or combination of two letters from the name of the county is prefixed to the well numbers in that county. Thus the letters "Cn" are prefixed to all well numbers in Chenango County.

Well Descriptions and Water-Level Measurements

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

Allegany County

Ag 95. Ronald Mullikin. Near Almond. Lat. 42°20'04", long. 77°44'24". Dug domestic water-table well in glacial till, diameter 30 inches, depth 13 feet. Land-surface datum is about 1,550 feet above msl. Highest water level 0.36 below lsd, Feb. 21, 1948; lowest 12.0 below lsd, Oct. 13, 1951. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.71	Mar. 31	1.44	June 23	4.54	Sept. 15	8.43
13	2.37	Apr. 7	2.11	30	4.47	22	8.93
20	1.93	14	1.83	July 7	4.60	29	8.94
27	2.30	21	2.35	14	5.43	Oct. 13	e12.0
Feb. 3	2.46	28	2.27	21	5.05	Nov. 17	11.67
10	2.54	May 5	2.94	28	4.98	24	9.24
17	.81	12	3.21	Aug. 4	5.27	Dec. 1	8.44
24	1.36	19	3.36	11	5.70	8	8.46
Mar. 3	1.86	26	4.48	18	6.35	15	8.14
10	1.98	June 2	4.31	25	7.03	22	7.58
17	2.07	9	4.23	Sept. 1	7.49	29	6.21
24	2.26	16	4.51	8	8.18		

e Estimated.

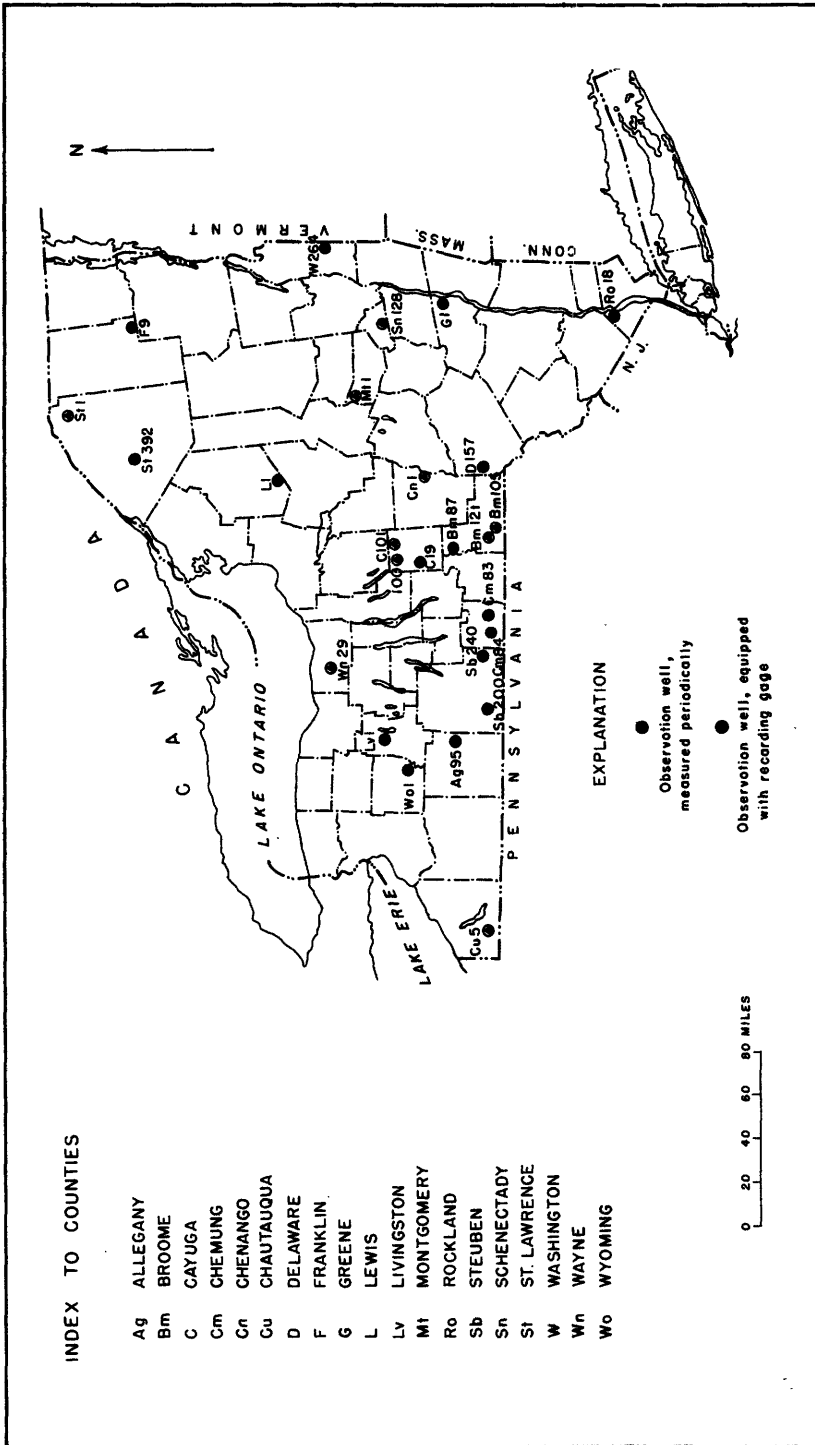


Figure 20. --Location of observation wells in Upstate New York, 1951.

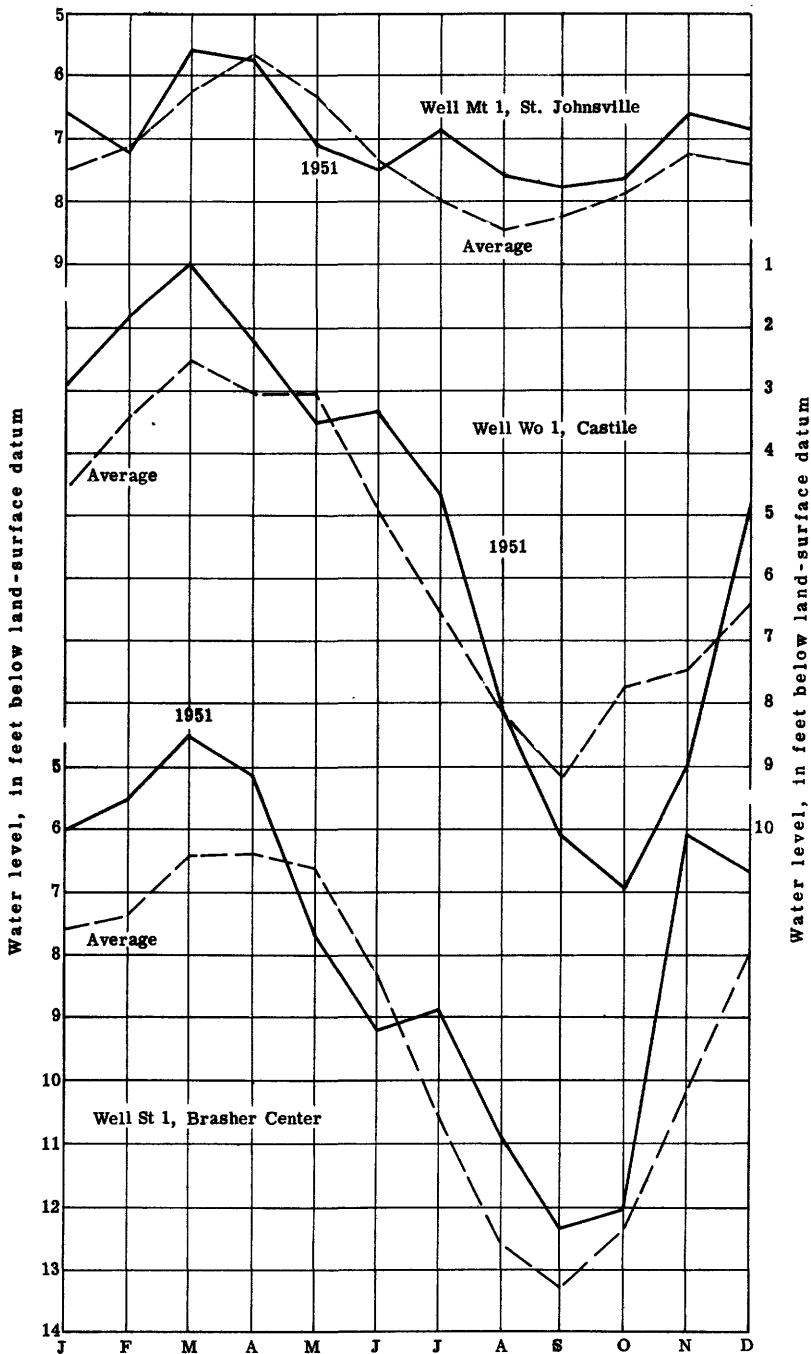


Figure 21. --Month-end water levels and average water levels for 9 years of record in three wells in Upstate New York.

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, diameter 36 inches, depth 19 feet. Land-surface datum is about 1,520 feet above msl. Highest water level 0.84 below lsd, Feb. 26, 1949; lowest 8.88 below lsd, Nov. 1, 1947. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.90	Mar. 10	4.06	May 12	6.70	July 7	3.28
13	3.56	17	4.02	19	7.04	14	5.38
20	1.64	24	2.05	26	7.03	21	6.62
27	2.69	31	1.17	June 2	7.45	28	6.86
Feb. 3	3.81	Apr. 7	3.42	9	7.52	Aug. 4	7.30
10	4.32	14	3.15	16	5.82	11	7.39
17	5.00	21	4.31	23	5.91	18	7.51
24	4.06	28	5.70	30	6.21	25	7.61
Mar. 3	5.14	May 5	6.53				

Bm 105. U. S. Geol. Survey. Prospect and Front St., Binghamton. Lat. 42°06'43", long. 75°54'39". Drilled artesian observation well in glacial outwash, diameter 6 inches, depth 143 feet. Land-surface datum is about 850 feet above msl. Highest water level 8 (estimated) below lsd, Mar. 29, 1950; lowest 19.78 below lsd, Oct. 8, 1948. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	17.75	16.82	e11.6	17.70	19.01	17.76	19.04	19.68	19.71	19.71	e18.3
2	17.94	14.80	17.10	12.08	17.88	19.06	17.00	19.13	19.68	19.71	19.66	e18.3
3	18.11	14.83	17.26	12.76	18.01	19.09	17.69	19.15	19.59	19.72	19.66	e18.1
4	17.80	15.95	17.42	13.68	18.11	19.11	18.08	19.19	19.53	19.73	19.04	17.97
5	13.85	16.59	17.46	14.37	18.21	19.14	18.11	19.23	19.55	19.73	18.98	17.82
6	15.19	16.96	17.50	14.99	18.30	19.20	17.90	19.28	19.56	19.75	.....	15.69
7	16.13	17.01	17.28	15.50	18.36	19.25	17.95	19.32	19.45	19.75	.....	16.53
8	16.81	15.77	16.26	15.89	18.40	19.28	18.28	19.34	19.28	19.67	.....	16.71
9	17.12	e16.8	16.67	16.30	18.47	19.31	18.52	19.36	19.26	19.55	.....	16.76
10	17.31	e17.2	17.17	16.71	18.54	19.31	18.71	19.37	19.35	19.44	.....	16.12
11	17.30	e17.4	17.41	16.89	18.54	19.31	18.83	19.41	19.42	19.50	.....	16.75
12	17.45	e17.4	17.47	16.85	18.20	18.93	18.83	19.44	19.49	19.56	e18.7	17.11
13	17.62	17.40	17.15	16.71	17.82	19.01	17.87	19.45	19.53	19.58	18.76	17.48
14	17.78	16.15	16.51	15.01	e18.2	19.01	18.30	19.48	19.55	19.63	18.81	e17.7
15	17.77	16.55	15.72	15.73	.....	18.59	18.55	19.48	19.52	19.64	18.81	e17.9
16	17.28	17.08	16.32	16.24	.....	18.76	18.75	19.39	19.53	19.66	18.48	e18.1
17	17.49	17.26	16.76	16.60	.....	18.95	18.78	19.31	19.49	19.69	18.38	e18.2
18	17.55	17.30	17.04	16.81	.....	19.10	18.40	19.17	19.54	19.70	18.23	18.19
19	17.57	17.26	17.04	17.09	.....	19.19	18.47	19.25	19.57	19.72	18.41	18.13
20	17.22	16.30	16.88	17.31	.....	19.26	17.76	19.30	19.61	19.73	18.52	.....
21	16.42	14.54	15.83	17.55	18.73	19.31	17.93	19.36	19.67	19.75	18.63	.....
22	15.85	13.05	16.47	17.68	18.76	19.33	18.24	19.41	19.69	19.75	18.69	.....
23	16.54	e14.0	16.76	17.68	18.82	19.33	18.35	19.42	19.69	19.76	18.69	.....
24	16.55	e15.0	16.70	17.00	18.87	18.97	18.53	19.44	19.69	19.76	18.29	e16.8
25	14.51	e16.0	14.58	17.28	18.92	18.91	18.70	19.50	19.69	19.75	17.17	17.20
26	e15.4	16.60	15.71	17.28	18.98	18.20	18.82	19.53	19.65	19.76	17.58	17.42
27	e16.2	16.60	16.27	17.41	18.99	18.53	18.89	19.56	19.62	19.73	17.78	17.56
28	e16.7	16.31	16.25	17.58	18.99	18.74	18.85	19.56	19.65	19.71	e18.0	e17.8
29	17.09	.....	15.98	17.58	18.94	18.84	18.80	19.58	19.68	19.73	e18.1	17.80
30	17.38	.....	14.30	17.50	18.78	18.47	18.78	19.61	19.69	19.72	e18.2	17.79
31	17.73	.....	12.30	.....	18.88	.....	18.93	19.66	.....	19.72	.....	16.92

e Estimated.

Bm 121. U. S. Geol. Survey. Camden and Main Sts., Johnson City. Lat. 42°06'57", long. 75°58'35". Drilled artesian observation well in glacial outwash, diameter 6 inches, depth 51 feet. Land-surface datum is about 835 feet above msl. Highest water level 17.85 below lsd, Dec. 10, 1950; lowest 30.82 below lsd, Nov. 3, 1951. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.10	23.38	22.10	21.78	23.52	27.09	28.47	27.62	29.33	30.16	30.78	27.71
2	23.11	23.42	22.23	19.74	23.65	27.14	28.46	27.68	29.41	30.18	30.79	27.72
3	23.10	23.42	22.38	18.42	23.80	27.22	28.41	27.76	29.45	30.19	30.82	27.72
4	23.08	23.26	22.54	17.95	23.97	27.27	28.33	27.84	29.46	30.23	30.82	27.68
5	23.08	23.06	22.66	18.11	24.15	27.34	28.25	27.92	29.46	30.26	30.80	27.62

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Bm 121--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	22.83	22.93	22.78	18.33	24.32	27.42	28.16	27.98	29.44	30.29	30.73	27.59
7	22.30	22.88	22.90	18.57	24.48	27.51	28.01	28.03	29.42	30.35	30.53	27.52
8	22.01	22.88	23.00	18.84	24.63	27.60	e27.8	28.09	29.41	30.36	30.36	27.41
9	21.91	22.83	23.07	19.08	24.78	27.71	e27.6	28.15	29.44	30.37	30.20	27.31
10	21.99	22.80	23.13	19.35	24.94	27.81	27.26	28.22	29.45	30.38	30.01	27.21
11	22.10	22.88	23.21	19.65	25.13	27.87	27.10	28.31	29.45	e30.39	29.79	26.97
12	22.25	22.95	23.28	19.96	25.30	27.93	27.08	28.40	29.45	e30.40	29.60	26.68
13	22.41	23.02	23.33	20.24	25.44	27.99	27.13	28.48	29.48	e30.42	29.44	26.44
14	22.60	23.06	23.37	20.43	25.52	28.05	27.16	28.54	29.53	e30.46	29.24	26.32
15	22.76	23.07	23.40	20.58	25.59	28.10	27.19	28.60	29.59	30.48	29.11	26.26
16	22.91	23.11	23.41	20.70	25.67	28.14	27.21	28.66	29.66	30.48	29.05	26.26
17	e23.0	23.19	23.44	20.83	25.77	28.17	27.25	28.72	29.71	30.49	29.02	26.26
18	23.08	23.28	23.46	20.99	25.87	28.20	27.30	28.77	29.73	30.51	29.01	26.21
19	23.22	23.38	23.48	21.18	25.98	28.21	27.35	28.80	29.75	30.54	28.99	26.06
20	23.45	23.38	23.48	21.40	26.10	28.24	27.40	28.81	29.78	30.58	28.93	25.90
21	23.53	23.38	23.48	21.65	26.20	28.28	27.40	28.81	29.82	30.62	28.87	25.75
22	23.53	23.31	23.43	21.90	26.29	28.33	27.40	28.81	29.88	30.64	28.84	25.59
23	23.52	22.95	23.38	22.13	26.39	28.39	27.40	28.84	e29.95	30.64	28.83	25.39
24	23.48	22.40	23.34	22.32	e26.5	28.43	27.38	28.87	e29.97	30.66	28.79	24.91
25	23.44	22.05	23.32	22.50	e26.6	28.44	27.35	28.91	29.98	30.69	28.71	24.30
26	23.34	21.95	23.20	22.70	e26.7	28.44	27.36	28.96	30.00	30.73	28.54	23.83
27	23.19	21.95	22.82	22.90	e26.8	28.44	27.41	29.00	30.03	30.77	28.26	23.51
28	23.12	22.01	22.56	23.10	26.89	28.43	27.47	29.05	30.06	30.81	28.00	23.37
29	23.14		22.49	23.28	26.96	28.43	27.54	29.10	30.10	30.81	27.82	23.33
30	23.19		22.47	23.40	27.02	28.46	27.56	29.16	30.15	30.81	27.73	23.23
31	23.27		22.41		27.06		27.58	29.24		30.79		23.10

e Estimated.

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, diameter 36 inches, depth 33 feet. Land-surface datum is about 1,770 feet above msl. Highest water level 2.16 below lsd, Nov. 4, 1950; lowest 9.41 below lsd, May 24, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.39	Apr. 14	2.50	July 14	3.20	Oct. 6	6.61
13	2.70	21	2.60	21	3.62	13	6.76
20	2.20	28	2.56	28	4.03	20	6.88
27	2.75	May 5	3.12	Aug. 4	4.40	27	7.03
Feb. 3	2.73	12	3.37	11	4.86	Nov. 3	6.74
17	2.22	19	3.71	18	5.00	10	6.33
24	2.42	26	4.08	25	5.39	17	5.68
Mar. 3	2.38	June 2	4.11	Sept. 1	5.56	Dec. 1	4.18
10	2.55	9	3.66	8	5.79	8	3.53
17	2.56	16	2.93	15	6.05	15	3.16
24	2.42	23	2.84	22	6.21	22	2.70
31	2.30	30	2.68	29	6.44	29	2.56
Apr. 7	2.44	July 7	2.72				

Chemung County

Cm 83. Dailey. Near Lowman. Lat. 42°04'43", long. 76°41'01". Dug farm water-table well in glacial till, diameter 30 inches, depth 21 feet. Land-surface datum is about 1,480 feet above msl. Highest water level 2.46 below lsd, Mar. 25, 1950; lowest 12.80 below lsd, Aug. 27, 1949. Records available: 1946-51.

Jan. 6	3.23	Mar. 17	2.85	May 26	7.50	Aug. 4	8.49
13	3.64	24	2.83	June 2	7.85	11	9.30
20	3.20	31	2.75	9	9.62	25	10.45
27	3.50	Apr. 7	3.22	16	9.86	Sept. 1	11.05
Feb. 3	4.17	14	3.10	23	10.06	8	11.25
10	4.68	21	3.70	30	10.06	15	11.45
17	4.55	28	3.82	July 7	5.16	22	11.66
24	3.10	May 5	4.48	14	4.82	29	11.80
Mar. 3	3.05	12	5.75	21	6.00	Oct. 6	12.05
10	2.92	19	6.50	28	7.60	13	12.14

Cm 83--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 20	12.09	Nov. 11	12.30	Dec. 1	11.45	Dec. 15	5.23
27	12.28	17	12.17	8	9.50	22	5.50
Nov. 3	12.42	24	11.90				

Cm 84. Remington Rand Co. South Main St., Elmira. Lat. 42°04'17", long. 76°47'47". Drilled unused artesian (?) well in glacial outwash, 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 19.95 below lsd, Oct. 29, 1951. Records available: 1947-51.

Jan. 2	16.14	Apr. 2	15.52	July 9	16.61	Oct. 8	19.40
8	16.07	9	15.58	16	16.58	15	19.60
15	16.02	16	15.64	23	16.63	22	19.80
22	16.03	23	15.78	30	16.80	29	19.95
29	16.05	30	15.95	Aug. 6	16.98	Nov. 5	19.80
Feb. 5	16.00	May 7	16.20	13	17.22	12	19.66
12	15.94	14	16.31	20	17.56	19	18.56
19	15.95	21	16.42	27	18.03	26	17.87
26	15.78	28	16.60	Sept. 4	18.10	Dec. 3	16.97
Mar. 5	15.74	June 4	16.75	10	18.21	10	16.82
12	15.68	11	16.76	17	18.30	17	16.63
19	15.58	18	16.75	24	18.85	24	16.44
26	15.56	25	16.77	Oct. 1	19.06	31	16.40

Chenango County

Cn 1. U. S. Geol. Survey. Near South New Berlin. Lat. 42°31'55", long. 75°25'30". Dug water-table observation well in glacial till, diameter 21 inches, depth 8 feet. Land-surface datum is about 1,452 feet above msl. Highest water level 0.00 many times; lowest 6.13 below lsd, Oct. 10, 1936. Records available: 1934-51.

Jan. 1	0.75	Apr. 9	0.63	July 9	0.93	Oct. 8	0.56
8	.71	16	.60	16	.87	15	.81
15	.50	23	.51	23	.51	22	.98
22	.70	30	.72	30	.91	29	.80
29	.73	May 7	.74	Aug. 8	.93	Nov. 5	.66
Feb. 5	.70	14	.74	13	1.31	12	.70
12	.70	21	.75	20	.70	19	.71
19	.71	28	.73	27	1.07	26	.65
26	.65	June 4	.85	Sept. 3	.99	Dec. 3	.66
Mar. 5	.62	11	.80	10	1.02	10	.64
12	.79	18	.91	17	1.09	17	.70
19	.63	25	.71	24	1.66	24	.64
26	.86	July 2	.75	Oct. 1	1.50	31	.58
Apr. 2	.46						

Cortland County

C 19. Cortland Water Works. Broadway, Cortland. Lat. 42°35'45", long. 76°11'45". Dug unused water-table well in glacial outwash, diameter 40 feet, depth 19 feet. Land-surface datum is about 1,150 feet above msl. Highest water level 2.98 below lsd, Apr. 5, 1947; lowest 7.09 below lsd, Oct. 6, 1951. Records available: 1947-51.

Jan. 6	4.04	Mar. 24	4.40	June 16	5.01	Oct. 13	7.00
13	4.02	31	4.40	23	5.01	20	6.98
20	4.01	Apr. 7	4.38	30	5.00	27	6.95
27	4.13	14	4.37	July 7	5.25	Nov. 3	6.91
31	4.15	21	4.38	14	5.39	10	6.90
Feb. 3	4.17	28	4.37	21	5.46	17	6.85
10	4.18	May 5	4.41	28	5.56	24	6.81
17	3.96	12	4.50	31	5.58	Dec. 1	6.78
24	3.87	19	4.66	Aug. 4	5.67	8	6.75
Mar. 3	4.82	26	4.75	11	5.82	15	6.73
10	4.80	June 2	5.02	18	5.71	22	6.73
17	4.60	9	5.02	Oct. 6	7.09	29	6.71

C 100. U. S. Geol. Survey. Near East Homer. Lat. 42°42'00", long. 76°06'50". Dug water-table observation well in glacial till, diameter 18 inches, depth 9 feet. Land-surface datum is about 1,500 feet above msl. Highest water level 0.00 many times; lowest 6.15 below lsd, Oct. 26, 1939. Records available: 1938-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	0.48	Apr. 16	0.08	July 16	2.86	Oct. 2	5.57
9	.06	23	.20	23	2.50	9	5.54
16	.00	30	.88	30	3.18	16	5.22
21	.06	May 7	2.10	Aug. 6	3.28	23	5.10
28	.03	14	1.83	10	3.50	30	5.10
Feb. 18	1.67	21	2.86	10	b7.42	Nov. 6	5.02
25	1.76	28	2.96	13	7.14	13	1.92
Mar. 4	1.88	June 4	3.23	20	6.80	18	1.38
11	1.81	11	3.36	27	6.52	25	.42
18	1.86	18	2.93	Sept. 3	6.32	Dec. 2	.04
25	1.08	24	2.38	10	5.97	9	.22
Apr. 2	.00	July 2	1.86	18	5.64	16	1.22
8	.00	9	2.70	25	5.55	23	1.02

b Pumped recently.

C 101. U. S. Geol. Survey. Near Truxton. Lat. 42°46'00", long. 76°01'10". Dug water-table observation well in glacial till, diameter 12 inches, depth 6 feet. Land-surface datum is about 1,600 feet above msl. Highest water level 0.00 many times; lowest dry, Aug. 17 - Oct. 12, 1936, Sept. 7 - Nov. 1, 1939. Records available: 1933-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	1.34	Apr. 10	0.04	July 22	2.45	Sept. 3	3.51
14	.96	29	1.13	31	3.45	23	4.07
Feb. 16	.55	May 13	1.31	Aug. 6	2.32	Oct. 21	4.81
Mar. 2	.10	June 17	1.04	7	1.70	23	3.84
5	.14	July 18	1.38	21	3.11	Nov. 18	3.47
19	.25						

Delaware County

D 157. U. S. Geol. Survey. Near China. Lat. 42°09'35", long. 75°23'35". Dug water-table observation well in glacial till, diameter 18 inches, depth 10 feet. Land-surface datum is about 1,540 feet above msl. Highest water level 0.00 many times; lowest 10.49 below lsd, Oct. 3, 1951. Records available: 1934-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	1.50	Apr. 15	1.58	July 15	3.04	Oct. 7	8.52
14	3.13	22	4.31	22	2.40	14	4.99
21	1.46	29	3.07	29	1.15	21	5.01
28	3.18	May 6	4.47	Aug. 5	3.95	28	5.65
Feb. 4	2.23	13	4.90	12	4.87	Nov. 4	1.46
11	2.71	20	5.43	19	4.85	11	2.17
18	3.68	27	5.68	26	4.35	18	2.56
25	2.29	June 3	5.81	Sept. 2	5.36	25	1.38
Nov. 4	3.68	10	6.14	9	5.61	Dec. 2	2.92
11	2.85	17	6.24	16	5.82	9	1.60
18	2.20	24	6.28	23	6.26	16	2.87
25	1.27	July 1	4.60	30	6.65	23	1.55
Apr. 1	1.13	8	3.69	Oct. 3	10.49	30	3.35
8	3.01						

Franklin County

F 9. Arthur Fletcher. Near Bloomingdale. Lat. 44°25'36", long. 74°03'30". Dug unused water-table well in glacial till, diameter 4 feet, depth 11 feet. Land-surface datum is about 1,680 feet above msl. Highest water level 2.68 below lsd, Mar. 30, 1951; lowest 8.38 below lsd, Aug. 26, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	4.23	May 25	5.34	Aug. 10	5.89	Oct. 21	7.07
12	5.11	June 1	5.27	17	5.77	26	7.40
19	5.05	8	5.41	23	5.13	Nov. 2	6.94
Mar. 30	2.68	15	5.78	24	5.25	7	5.22
Apr. 6	3.52	22	6.04	31	5.97	16	5.39
13	3.83	29	5.55	Sept. 7	5.70	23	5.41
20	4.09	July 6	4.41	14	6.25	30	5.48
27	3.45	13	3.95	21	6.56	Dec. 7	5.54
May 4	4.49	20	4.74	28	6.64	14	5.76
12	4.58	27	5.60	Oct. 5	6.75	21	6.20
18	4.96	Aug. 3	5.82	13	6.66	28	6.10

Greene County

G 1. Andersen. Near West Coxsackie. Lat. 42°23'20", long. 73°48'19". Dug farm water-table well in glacial till (?), diameter 36 inches, depth 19 feet. Land-surface datum is about 125 feet above msl. Highest water level 1.90 below lsd, May 5, 1947, Mar. 27, 1950; lowest 12.75 below lsd, Nov. 1, 1948. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	3.56	Apr. 9	2.77	July 9	6.47	Oct. 8	5.48
8	2.46	16	2.46	16	5.71	15	3.10
15	3.37	23	3.42	23	3.44	22	4.18
22	2.54	30	4.00	30	4.55	29	3.59
29	3.04	May 7	4.82	Aug. 6	4.98	Nov. 5	2.20
Feb. 5	3.62	14	5.13	13	4.79	12	2.99
12	3.59	21	5.59	20	6.12	19	2.58
19	3.27	28	5.70	27	6.56	26	2.78
26	2.73	June 4	6.22	Sept. 3	7.09	Dec. 3	3.23
Mar. 5	3.18	11	6.88	10	6.37	10	2.13
12	2.64	18	6.59	17	6.06	17	3.85
19	2.40	25	6.47	24	6.08	25	2.30
26	2.47	July 2	6.04	Oct. 1	6.51	31	2.43
Apr. 2	2.11						

Lewis County

L 1. State Department of Conservation. Near West Leyden. Lat. 43°29'32", long. 75°27'40". Dug water-table well in glacial till (?), diameter 36 inches, depth 19 feet. Land-surface datum is about 1,670 feet above msl. Highest water level 3.20 below lsd, Mar. 30, 1951; lowest 10.63 below lsd, Aug. 19, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	6.54	Apr. 13	3.88	July 13	7.20	Oct. 5	7.00
12	5.85	20	3.88	20	7.43	12	7.18
19	5.07	27	4.00	27	7.60	19	7.30
26	4.88	May 4	5.09	Aug. 3	7.30	26	7.42
Feb. 2	5.12	9	5.78	10	6.90	Nov. 2	7.30
9	5.84	11	6.01	17	6.40	9	7.38
16	6.30	18	6.50	21	7.10	16	7.48
23	4.50	25	7.02	24	6.54	23	7.50
Mar. 2	4.68	June 1	6.44	31	6.20	30	7.64
9	5.28	8	6.70	Sept. 7	6.38	Dec. 7	5.94
16	5.88	15	7.00	14	6.51	14	6.89
23	4.90	22	7.40	21	6.59	21	8.00
30	3.20	29	7.50	28	6.84	28	6.10
Apr. 6	3.29	July 6	7.30				

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 (?), diameter 36 inches, depth 28 feet. Land-surface datum is about 790 feet above msl. Highest water level 0.3 below lsd, Mar. 15, 1945; lowest 9.54 below lsd, Dec. 27, 1949. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	4.05	Apr. 25	4.41	July 25	5.84	Oct. 25	8.41
Feb. 24	3.74	May 25	4.92	Aug. 25	7.02	Nov. 24	8.40
Mar. 24	4.20	June 26	5.30	Sept. 25	6.90	Dec. 26	7.20

Montgomery County

Mt 1. Floyd B. Groff. Near St. Johnsville. Lat. 43°01'43", long. 74°42'38". Dug unused water-table well in glacial till, diameter 24 inches, depth 12 feet. 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: 1942-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.20	7.04	7.23	5.31	5.97	7.30	7.36	7.00	7.79	7.90	e7.6	6.68
2	e7.2	7.01	7.25	5.05	6.02	7.32	6.95	7.05	7.79	7.92	e7.5	6.74
3	e7.2	7.04	7.27	4.89	6.10	7.35	6.75	7.09	7.71	7.94	e7.3	6.76
4	e7.1	7.09	7.28	4.77	6.19	7.37	6.73	7.15	7.62	7.96	e7.5	6.76
5	e6.7	7.16	7.31	4.89	6.27	7.39	6.76	7.21	7.56	7.98	e7.4	6.76

Mt 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	e6.5	7.22	7.32	4.96	6.35	7.41	6.74	7.26	7.55	8.01	7.28	6.69
7	6.50	7.22	7.32	5.03	6.42	7.44	6.49	7.31	7.52	e8.0	7.18	6.53
8	6.60	7.22	7.29	5.13	6.49	7.48	6.49	7.35	7.50	e8.0	7.01	....
9	e6.7	7.27	7.27	5.22	6.55	7.52	6.61	7.39	7.50	e7.9	6.70	....
10	e6.7	7.31	7.27	5.31	6.62	7.56	6.73	7.43	7.52	e7.9	e6.65	....
11	e6.8	7.34	7.27	5.32	6.64	7.60	6.82	7.47	7.55	e7.8	6.64	....
12	6.89	7.39	7.27	5.31	6.63	7.64	6.86	7.51	7.59	e7.7	6.69	....
13	6.95	7.44	7.23	5.20	6.61	7.67	6.90	7.54	7.62	e7.7	6.75	....
14	6.97	7.46	7.17	4.92	6.62	7.67	6.93	7.58	7.65	e7.6	6.78	....
15	6.99	7.49	7.10	5.07	6.63	7.64	6.98	7.61	7.65	e7.6	6.81	e6.25
16	7.06	7.52	7.04	5.20	6.66	7.58	7.04	7.63	7.62	e7.6	6.81	6.37
17	7.09	7.54	7.00	5.33	6.72	7.52	7.10	7.61	7.60	e7.6	e6.80	6.46
18	7.12	7.55	6.96	5.43	6.77	7.49	7.13	7.55	7.60	e7.7	6.79	6.50
19	7.14	7.55	6.95	5.55	6.81	7.50	7.02	7.55	7.62	e7.7	6.79	6.64
20	7.14	7.51	6.91	5.67	6.85	7.53	6.44	7.56	7.66	e7.7	6.81	6.68
21	7.07	7.43	6.78	5.75	6.90	7.58	6.29	7.56	7.69	e7.7	6.85	6.68
22	6.85	7.35	6.66	5.81	6.94	7.63	6.43	7.57	7.73	e7.7	6.88	6.71
23	6.85	7.28	6.63	5.91	6.99	7.66	6.54	7.58	7.76	e7.7	6.89	6.74
24	6.60	7.24	6.60	5.97	7.04	7.69	6.66	7.60	7.79	e7.7	6.88	6.77
25	6.55	7.24	6.47	5.98	7.09	7.70	6.74	7.61	7.80	e7.7	6.76	6.78
26	6.60	7.25	6.39	5.99	7.14	7.70	6.85	7.63	7.82	e7.7	6.53	6.83
27	6.71	7.24	6.40	5.92	7.17	7.70	6.93	7.65	7.83	e7.7	6.44	6.88
28	6.80	7.23	6.42	5.81	7.20	7.73	6.93	7.68	7.86	e7.7	6.48	6.91
29	6.88		6.42	5.82	7.22	7.74	6.92	7.71	7.87	e7.7	6.56	6.93
30	6.96		6.38	5.92	7.25	7.65	6.91	7.73	7.88	e7.7	6.63	6.96
31	7.03		6.10		7.27		6.94	7.76		e7.7		6.96

e Estimated.

Rockland County

Ro 18. Palisades Interstate Park. In Bear Mountain section near Doodletown Road and Seven Lakes Drive. Lat. 41°18'02", long. 73°59'30". Drilled unused water-table well in unconsolidated glacial deposit, diameter 6 inches, depth 61 feet. Land-surface datum is about 380 feet above msl. Highest water level 12.46 below lsd, May 6, 1951; lowest 24.65 below lsd, Nov. 25, 1951. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	17.56	May 6	12.46	July 29	19.91	Oct. 14	23.50
14	16.66	13	16.80	Aug. 5	20.20	21	23.56
21	15.73	20	17.34	12	20.45	28	23.60
28	14.64	27	17.50	19	20.40	Nov. 4	23.65
Feb. 4	13.74	June 3	17.57	26	19.92	11	23.80
11	13.85	10	17.90	Sept. 2	19.94	18	24.10
18	14.00	17	18.51	9	20.28	25	24.65
25	13.25	24	18.69	16	21.62	Dec. 2	24.25
Mar. 4	14.16	July 1	18.95	23	22.25	9	24.02
11	14.66	8	19.25	30	22.90	16	23.31
18	15.20	15	19.50	Oct. 7	23.25	23	22.55
25	15.42	22	19.79				

St. Lawrence County

St 1. Benjamin Compeau. Near Brasher Center. Lat. 44°51'52", long. 74°46'53". Dug unused water-table well in glacial till, diameter 34 inches, depth 21 feet. 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: 1942-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.12	e6.7	5.31	4.68	5.60	7.78	9.29	9.00	11.30	12.34	11.99	6.05
2	6.15	e6.7	5.48	4.75	5.72	7.83	9.32	9.07	11.36	12.36	11.97	5.53
3	6.15	e6.8	5.57	4.81	5.83	7.88	9.36	9.15	11.43	12.37	11.94	5.58
4	5.20	e6.8	5.60	4.91	5.95	7.94	9.37	9.23	11.49	12.39	11.91	5.67
5	5.08	e6.9	5.50	5.00	6.05	7.98	9.31	9.30	11.56	12.40	11.89	5.67
6	5.21	e6.9	5.32	5.06	6.15	8.02	9.26	9.38	11.62	12.41	11.86	5.65
7	5.34	e6.8	5.32	5.06	6.25	8.07	9.15	9.44	11.68	12.43	11.82	5.63
8	5.44	e6.6	5.14	5.07	6.35	8.11	9.02	9.51	11.74	12.43	11.74	5.52
9	5.55	e6.4	5.28	5.07	6.45	8.15	8.87	9.58	11.77	12.43	11.64	5.58
10	5.63	6.19	5.42	5.08	6.55	8.20	8.75	9.65	11.79	12.43	11.50	5.65

St 1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	5.71	6.16	5.53	5.13	6.64	8.26	8.64	9.72	11.81	12.43	11.32	5.74
12	5.78	6.23	5.59	5.18	6.71	8.31	8.56	9.80	11.83	12.41	11.11	5.84
13	5.83	6.24	5.28	5.18	6.75	8.37	8.47	9.88	11.85	12.38	10.83	5.96
14	5.85	6.15	5.08	5.11	6.80	8.43	8.41	9.95	11.87	12.36	10.53	6.05
15	5.88	5.92	5.08	5.09	6.86	8.48	8.37	10.03	11.89	12.32	10.22	6.15
16	5.94	5.94	5.08	5.07	6.93	8.52	8.36	10.11	11.91	12.29	9.91	6.25
17	5.98	6.04	5.07	5.08	7.01	8.56	8.37	10.18	11.92	12.25	9.57	6.31
18	6.04	6.16	5.07	5.09	7.07	8.61	8.40	10.26	11.94	12.22	9.20	6.34
19	6.06	6.26	5.07	5.13	7.12	8.66	8.43	10.33	11.97	12.19	8.75	6.42
20	6.06	6.28	5.05	5.24	7.17	8.72	8.45	10.41	11.99	12.16	7.89	6.45
21	5.96	6.09	5.07	5.33	7.23	8.79	8.48	10.48	12.02	12.14	7.17	6.44
22	6.05	5.56	5.08	5.42	7.30	8.86	8.51	10.55	12.04	12.13	6.73	6.44
23	6.17	5.43	5.09	5.50	7.36	8.91	8.54	10.63	12.10	12.11	6.51	6.45
24	6.25	5.53	5.09	5.59	7.40	8.96	8.57	10.70	12.14	12.11	6.31	6.47
25	e6.3	5.64	5.09	5.65	7.44	9.01	8.60	10.78	12.17	12.10	6.09	6.48
26	e6.4	5.72	5.10	5.60	7.50	9.07	8.64	10.86	12.20	12.10	5.98	6.49
27	e6.4	5.72	5.14	5.10	7.55	9.11	8.70	10.94	12.23	12.08	6.03	6.53
28	e6.5	5.25	5.09	5.21	7.60	9.16	8.75	11.01	12.27	12.07	6.05	6.54
29	e6.5		5.06	5.34	7.65	9.21	8.81	11.09	12.30	12.04	6.10	6.55
30	e6.6		4.61	5.50	7.69	9.25	8.87	11.15	12.33	12.03	6.11	6.55
31	e6.6		4.50		7.73		8.93	11.23		12.01		6.49

e Estimated.

St 392. Murray Babcock. Hermon. Lat. 44°28'10", long. 75°13'31". Dug unused water-table well in glacial outwash (?), diameter 36 inches, depth 28 feet. Land-surface datum is about 565 feet above msl. Highest water level 2.89 below lsd, May 5, 1951; lowest 16.19 below lsd, Sept. 17, 1949. Records available: 1949-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	5.97	Mar. 24	3.79	June 2	3.09	Oct. 5	11.45
13	5.88	31	3.80	9	2.94	12	11.67
20	5.66	Apr. 7	3.40	16	3.16	19	11.73
27	5.73	14	3.28	Aug. 18	8.88	27	11.38
Feb. 3	5.59	21	3.12	22	8.84	Nov. 3	10.86
10	5.27	28	3.24	25	9.43	10	9.74
17	5.18	May 5	2.89	Sept. 1	9.21	17	8.40
24	5.07	10	5.33	8	9.44	24	7.31
Mar. 3	4.59	12	3.03	15	9.75	Dec. 1	6.18
10	4.19	19	3.36	22	10.41	8	5.78
17	4.04	26	3.32	29	10.45		

Schenectady County

Sn 128. City of Schenectady. Lat. 42°49'26", long. 73°59'22". Dug unused water-table well in glacial outwash, diameter 47 feet, depth 40 feet. Land-surface datum is 241.36 feet above msl. Highest water level 21.06 below lsd, Mar. 23, 1948; lowest 37.47 below lsd, Feb. 15, 1948. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	30.76	27.82	25.57	31.04	31.59	30.65	32.12	32.73	31.77	32.56	31.88
2	.....	30.63	28.95	27.47	31.13	32.24	30.63	31.75	32.64	31.99	32.68	31.86
3	.....	26.92	30.23	28.00	31.23	32.23	30.85	31.49	31.24	32.00	32.68	31.56
4	.....	27.59	30.96	28.75	31.38	32.04	30.95	31.83	31.13	32.09	31.06	31.71
5	.....	28.17	31.41	29.60	31.39	32.03	31.51	31.83	31.64	32.31	30.85	31.69
6	e25.10	28.62	31.87	30.27	31.73	32.20	31.15	32.00	32.24	32.33	31.09	31.39
7	25.88	29.00	32.17	30.99	31.89	32.26	30.37	32.29	32.24	32.31	31.16	31.34
8	27.29	28.77	32.05	30.90	32.01	32.39	30.73	32.29	31.48	31.73	30.64	31.25
9	28.35	28.50	31.75	31.00	32.27	32.60	31.37	32.23	31.12	e31.3	30.40	30.99
10	28.85	29.10	32.34	31.11	32.95	32.60	32.27	32.23	31.94	31.26	30.56	30.72
11	29.13	29.18	32.58	31.03	32.97	32.28	32.24	32.20	31.95	31.29	30.70	31.00
12	29.07	29.46	32.83	30.33	32.30	32.53	31.78	32.20	32.02	31.16	30.76	31.49
13	29.37	29.85	32.86	30.12	31.86	32.52	30.76	31.93	32.29	31.16	31.13	32.32
14	29.42	29.54	32.72	29.00	31.44	32.52	30.70	32.11	32.36	31.16	31.57	32.73
15	29.80	28.28	32.43	28.68	31.91	32.07	30.99	32.11	32.36	31.46	31.58	32.93

Sn 128--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	29.75	28.68	32.40	30.09	32.13	31.23	31.80	32.09	31.73	31.80	31.40	32.79
17	29.30	29.19	32.77	30.56	32.23	31.32	31.95	31.02	31.67	31.80	31.19	32.09
18	29.26	29.24	33.03	31.39	32.56	31.83	31.95	31.14	31.82	32.17	30.93	31.66
19	29.42	29.42	33.12	31.86	33.16	32.12	31.56	31.26	31.90	32.63	31.27	31.28
20	29.31	29.14	33.01	32.24	33.16	32.48	30.31	31.70	31.92	32.73	31.51	31.28
21	28.76	28.43	32.40	32.30	32.66	32.49	30.28	32.23	32.37	32.42	31.67	31.32
22	27.29	27.48	32.44	32.28	32.47	32.55	30.54	32.23	32.76	31.95	31.87	31.28
23	28.13	24.29	32.76	32.44	32.47	32.55	31.07	32.12	32.74	32.24	31.89	28.32
24	28.43	25.64	33.12	32.14	32.34	32.15	31.33	31.99	31.97	32.42	31.61	26.81
25	28.09	26.69	32.86	31.85	32.41	31.86	31.59	31.99	31.79	32.38	30.90	27.53
26	27.53	27.29	32.58	31.80	32.69	31.86	32.25	31.77	31.95	31.51	31.31	28.11
27	28.20	27.62	33.18	31.28	32.69	31.96	32.53	31.73	31.88	31.46	31.52	28.55
28	28.95	27.24	33.37	31.71	31.97	32.18	32.53	32.07	32.04	31.58	31.65	28.94
29	29.55		33.55	31.55	31.88	32.18	31.86	32.18	32.04	32.27	31.80	29.08
30	29.85		32.89	30.76	31.53	31.81	31.33	32.42	31.73	32.37	31.99	29.08
31	30.24		30.76		31.36		32.12	32.72		32.32		28.88

e Estimated.

Steuben County

Sb 200. Calkins. Near Woodhull. Lat. 42°05'34", long. 77°25'18". Dug unused water-table well in glacial till, diameter 24 inches, depth 16 feet. 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: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	5.11	Apr. 7	5.37	July 7	7.31	Oct. 6	12.13
13	5.48	14	5.95	14	8.50	13	11.66
20	4.83	21	6.38	22	10.21	20	11.81
28	5.76	28	6.79	28	9.46	28	12.00
Feb. 3	6.21	May 5	8.20	Aug. 4	9.35	Nov. 3	11.13
11	6.82	12	9.53	11	9.84	11	10.24
18	7.04	20	11.35	18	10.95	18	9.20
26	6.90	27	10.42	25	11.28	24	8.23
Mar. 4	6.56	June 2	11.45	Sept. 1	11.44	Dec. 1	7.44
10	5.40	9	10.76	9	10.41	8	7.18
17	4.84	16	9.71	15	9.54	15	6.92
24	4.26	24	6.35	22	9.80	22	5.90
31	4.06	30	6.70	29	11.16	29	5.56

Sb 240. Corning Glass Works. West Market St., Corning. Lat. 42°08'37", long. 77°03'18". Drilled unused water-table (?) well in glacial outwash, 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 29.74 below lsd, Oct. 22, 1951. Records available: 1943-44, 1946-51.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.3		2	20.60		2	26.80		1	29.58	
8	25.1		9	24.33		9	26.80		8	29.63	
15	25.4		16	23.60		16	26.07		15	29.68	
22	25.1		23	25.30		23	26.68		22	29.74	
29	25.1		30	25.90		30	27.80		29	29.30	
Feb. 5	25.1		May 7	26.60		Aug. 6	28.25		Nov. 5	29.60	
12	24.7		14	27.10		13	28.72		12	28.88	
19	25.1		21	27.70		20	28.71		19	27.90	
26	24.4		28	28.01		27	29.02		26	27.59	
Mar. 5	24.69		June 4	28.25		Sept. 4	29.15		Dec. 3	28.06	
12	24.78		11	27.63		10	29.20		10	25.64	
19	25.09		18	26.66		17	29.25		17	25.55	
26	24.00		25	27.45		27	29.54		26	25.54	

Washington County

W 264. Village of Salem. Lat. 43°10'27", long. 73°19'43". Dug emergency fire water-table well in glacial gravel, diameter 36 inches, depth 15 feet. Land-surface datum is about 485.5 feet above msl. Highest water level 7.54 below lsd, Jan. 3, 1949; lowest 11.15 below lsd, Sept. 27, 1948. Records available: 1946-51.

W 264--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	9.97	Apr. 9	8.12	July 9	10.62	Oct. 8	10.39
8	10.04	16	8.10	16	10.45	15	10.27
15	9.97	23	8.16	23	10.52	22	10.24
22	9.96	30	8.19	30	10.49	29	9.94
29	9.93	May 7	9.49	Aug. 6	10.44	Nov. 5	9.70
Feb. 5	9.90	14	9.82	13	10.38	12	9.49
12	9.88	21	9.93	20	10.43	19	9.18
19	8.74	28	10.28	27	10.27	26	9.22
Mar. 5	8.68	June 4	10.40	Sept. 4	10.40	Dec. 3	9.45
12	9.28	11	10.57	10	10.43	10	9.29
19	9.37	18	10.52	17	10.47	17	9.27
26	8.78	25	10.62	24	10.61	24	9.38
Apr. 2	8.39	July 2	10.59	Oct. 1	10.56	31	9.39

Wayne County

Wn 29. Town of Marion. 55 Mill St., Marion. Lat. 43°08'14", long. 77°11'19". Drilled unused artesian well in Lockport dolomite, diameter 8 inches, depth 107 feet. Land-surface datum is about 460 feet above msl. Highest water level 10.03 below lsd, Mar. 30, 1950; lowest 20.51 below lsd, Aug. 25, 1949. Records available: 1947-51.

Daily lowest water level from recorder graph

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.09	17.80	17.44	17.34	17.78	18.84	18.66	18.80	19.56	19.70	19.65	18.26
2	18.07	17.99	17.49	17.35	17.77	18.79	18.71	18.82	19.54	19.64	19.65	18.25
3	18.01	18.00	17.49	17.35	17.80	18.70	18.76	18.83	19.53	19.67	19.46	18.26
4	17.85	17.98	17.34	17.43	17.83	18.65	18.76	18.89	19.57	19.68	19.40	18.21
5	17.78	18.07	17.35	17.52	17.90	18.69	18.74	18.95	19.59	19.68	19.46	18.18
6	17.79	18.07	17.35	17.56	17.94	18.69	18.67	18.95	19.59	19.71	19.48	18.17
7	17.79	17.96	17.31	17.55	17.97	18.74	18.66	18.94	19.48	19.71	19.37	18.16
8	17.76	17.99	17.34	17.62	18.04	18.75	18.66	18.94	19.48	19.47	19.14	18.19
9	17.77	18.07	17.46	17.70	18.12	18.74	18.67	19.01	19.46	19.43	19.16	18.17
10	17.78	18.02	17.51	17.75	18.24	18.71	18.72	19.08	19.41	19.46	19.13	18.11
11	17.76	18.00	17.52	17.75	18.23	18.47	18.74	19.12	19.48	19.44	19.08	18.09
12	17.79	17.95	17.50	17.72	18.04	18.39	18.70	19.15	19.53	19.47	19.08	18.02
13	17.82	17.98	17.48	17.51	18.13	18.38	18.63	19.18	19.56	19.49	18.97	18.15
14	17.79	18.02	17.46	17.58	18.27	18.24	18.61	19.18	19.55	19.48	18.89	18.16
15	17.61	18.02	17.36	17.61	18.28	18.17	18.60	19.20	19.50	19.44	18.86	18.13
16	17.75	17.97	17.43	17.65	18.37	18.24	18.62	19.17	19.50	19.46	18.86	18.19
17	17.75	17.89	17.51	17.71	18.37	18.31	18.66	19.22	19.47	19.51	18.71	18.20
18	17.74	17.76	17.55	17.74	18.38	18.36	18.68	19.26	19.50	19.51	18.60	18.18
19	17.74	17.69	17.55	17.79	18.44	18.41	18.66	19.28	19.56	19.53	18.58	18.21
20	17.70	17.45	17.43	17.88	18.49	18.46	18.49	19.29	19.61	19.53	18.59	18.21
21	17.75	17.32	17.41	17.93	18.59	18.60	18.48	19.29	19.61	19.51	18.60	17.98
22	17.79	17.15	17.45	17.88	18.64	18.60	18.46	19.31	19.61	19.47	18.54	17.96
23	17.79	17.27	17.45	17.87	18.59	18.55	18.54	19.35	19.61	19.51	18.44	17.97
24	17.70	17.29	17.42	17.90	18.64	18.56	18.55	19.37	19.61	19.51	18.45	18.00
25	17.68	17.31	17.52	17.87	18.72	18.62	18.56	19.38	19.60	19.57	18.46	18.00
26	17.72	17.31	17.59	17.71	18.74	18.63	18.58	19.40	19.64	19.57	18.35	17.95
27	17.81	17.34	17.59	17.75	18.71	18.64	18.62	19.41	19.63	19.53	18.42	17.99
28	17.84	17.47	17.59	17.72	18.69	18.69	18.63	19.47	19.74	19.52	18.42	17.99
29	17.87		17.59	17.63	18.77	18.70	18.69	19.52	19.79	19.51	18.35	17.92
30	17.98		17.56	17.75	18.87	18.70	18.71	19.56	19.79	19.54	18.30	17.89
31	17.97		17.35		18.83		18.72	19.56		19.65		17.90

Wyoming County

Wo 1. State Dept. of Conservation. In Letchworth State Park, near Castile. Lat. 42°37'39", long. 78°00'03". Dug unserved water-table well in glacial till, diameter 24 inches, depth 14 feet. Land-surface datum is about 1,030 feet above msl. Nonrecording gage installed Oct. 17, 1951. Highest water level 0.5 below lsd, Apr. 5, 1947; lowest 12.46 below lsd, Dec. 10, 1949. Records available: 1942-51.

Wo 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	1.97	Apr. 14	1.48	July 14	3.73	Oct. 14	10.64
13	2.97	21	2.64	22	3.96	17	10.69
20	1.90	28	2.21	29	4.66	21	10.80
28	2.93	May 5	2.76	Aug. 4	5.34	29	10.98
Feb. 3	3.22	12	2.98	12	6.30	Nov. 4	11.11
10	3.30	19	3.20	19	7.27	10	11.12
17	2.15	26	3.53	26	8.08	17	10.94
24	1.85	June 2	3.85	Sept. 2	8.70	24	9.01
Mar. 3	.80	10	3.88	9	9.23	Dec. 1	7.52
11	2.37	17	3.66	16	9.56	8	7.07
20	1.76	23	3.12	23	9.84	15	5.49
24	2.11	30	3.33	30	10.14	22	4.63
31	1.00	July 7	3.30	Oct. 7	10.39	29	4.80

OHIO

By E. J. Schaefer

Scope of Water-Level Program

The observation-well program was continued in 1951 in cooperation with the Ohio Department of Natural Resources, Division of Water, The State University Experiment Station, the Commissioners of Hamilton County, and the city of Canton. The overall program of work included collection of water-level data by means of a State-wide network of observation wells, county surveys of ground-water conditions, and conducting of pumping tests to determine the physical properties of various aquifers. Records of water levels were obtained in 161 observation wells in Ohio in 1951. Recording gages were operated on 128 observation wells and periodic measurements were made in 33 observation wells. The records of 70 observation wells are published in this report.

Precipitation

Precipitation was above normal in January, February, and March. The greatest monthly precipitation for April, 5.49 inches, was recorded at Steubenville, Jefferson County. Precipitation was evenly distributed over the State during May. Slightly above-normal precipitation was recorded for June. Near drought conditions in the central and southern part of the State developed during July. In August the least rainfall total, 0.08 inch or 4.07 inches below normal, was recorded at Coshocton, Coshocton County. In September adequate precipitation remedied drought conditions in central and southwestern counties. In October the precipitation was below normal and in November and December precipitation was above normal.

Interpretation of Water-Level Fluctuations

When not affected by heavy pumping, water levels in all aquifers in Ohio follow cyclical seasonal trends in response to natural recharge and discharge. The nongrowing season, extending from the first killing frost in the fall to the last killing frost in the spring offers the most favorable conditions for recharge from precipitation because usage by vegetation and losses by evaporation are at a minimum. As a result ground-water levels in Ohio generally rise during the nongrowing season, the exact period of rise depending on when precipitation occurs and on soil conditions. Usually these rising trends extend for a short time into the growing season and occasionally peak levels are reached as late as June or early July. After the growing season starts, less and less water percolates to the water table but natural discharge from the aquifer continues, generally into surface streams through springs and seeps. This discharge represents a loss of storage in the aquifer and when it is not balanced by recharge, ground-water levels decline steadily until recharge is again greater than discharge. Conditions for recharge of aquifers in Ohio in 1951 were best in January, February, and March when precipitation was above normal and temperatures were high enough to keep the ground surface in an unfrozen state. Peak levels were reached in most wells by the end of March. In a few wells peak levels were reached in April, May, June, and July. Declining trends occurred in most wells during summer and fall. The lowest levels of the year occurred in most wells in November and December. Considering only those observation wells for which records are given in this report, record low levels occurred in 21 wells and record high levels occurred in 16 wells. The more favorable trends of ground-water levels in the Canton area owing to better distribution of pumping, continued in 1951. Record high levels were recorded in four wells in the area. No record low levels occurred. Record low levels were reached in the heavily pumped area of the Mill Creek Valley in Hamilton County immediately north of Lockland where pumping has increased in the last several years. A record low level was also recorded in well 85-7 in Butler County at the Hamilton municipal waterworks. At Dayton, in Montgomery County, a record low level was recorded in well Mt-2 in the main business section of the city. No unusual trends occurred in the other heavily pumped areas of the State.

Well-Numbering System

The observation wells for which records are given in this report, with the exception of those in the Mill Creek Valley and the Miami Valley areas of Butler and Hamilton Counties, are identified by a number prefixed by letters which are abbreviations of the counties. The same prefix is used for all wells in a particular county. The wells in the areas in Butler and

Hamilton Counties are identified by numbers. The wells are numbered consecutively, beginning in the northern end of Butler County, according to their geographic location.

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 appropriate signs are placed to indicate a change; readings that are between minus (-) signs are below the plane of reference; and those between (+) signs are above the plane of reference. A plus or minus sign is placed immediately preceding the first entry in each column of each mixed table.

Ashtabula County

Ab-1. K. K. Tisch. Lat. 41°41'12", long. 80°46'54". Drilled unused well in shale, diameter 4 inches, depth 40 feet. Highest water level 4.40 below lsd, Apr. 14, 1951; lowest 11.07 below lsd, Nov. 22, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.59	5.65	5.02	4.60	4.83	6.39	6.98	7.33	9.02	....	10.51	8.74
2	6.54	5.80	....	4.60	4.81	6.36	7.05	7.96	9.09	9.78	10.52	....
3	6.42	....	....	4.53	4.74	6.37	7.07	7.96	9.19	9.83	10.49	8.64
4	6.31	....	....	4.59	4.66	6.47	7.07	8.02	9.25	9.87	10.55	8.45
5	6.36	....	....	4.73	4.80	6.52	6.97	8.06	9.23	9.96	10.63	8.33
6	6.36	5.79	4.89	4.77	4.90	6.54	7.05	8.06	9.22	9.96	10.65	8.21
7	6.25	5.68	4.89	....	5.12	6.58	7.04	7.92	9.34	9.95	10.50	8.19
8	6.11	5.77	4.91	....	5.28	6.56	7.03	7.94	9.39	9.98	10.38	8.25
9	6.08	5.90	5.11	....	5.44	6.56	6.95	8.05	....	10.01	10.38	8.19
10	6.07	....	5.25	4.64	5.53	6.48	7.03	8.19	....	10.03	10.30	8.08
11	6.09	....	5.25	4.71	5.44	6.57	7.05	8.26	9.40	10.03	10.21	7.96
12	6.18	....	5.19	4.68	5.44	6.62	7.10	8.33	9.43	10.12	10.18	7.69
13	6.19	....	5.07	4.48	5.58	6.61	7.18	8.39	9.42	....	10.00	7.86
14	6.00	....	4.89	4.46	5.63	6.60	7.22	8.40	9.39	10.22	9.83	7.87
15	5.67	....	5.02	4.58	5.61	6.59	7.23	8.37	9.40	....	9.87	7.74
16	5.78	....	5.02	4.66	5.61	6.58	7.25	8.35	9.42	10.23	9.87	7.90
17	5.78	....	5.00	4.73	5.52	6.58	7.32	8.43	9.45	10.24	9.82	7.92
18	5.68	....	4.87	....	5.58	6.60	7.33	8.47	9.48	10.25	9.75	7.80
19	5.68	....	....	....	5.61	6.60	7.33	8.51	9.55	10.26	9.68	....
20	5.66	5.11	4.94	....	5.61	6.60	7.42	8.54	9.61	10.26	9.67	....
21	5.72	5.01	4.93	....	5.59	6.65	7.45	8.54	9.63	10.32	9.59	....
22	5.85	5.16	4.88	....	5.60	6.65	7.46	8.66	9.63	10.34	9.41	....
23	5.62	5.21	4.82	5.05	5.64	6.67	7.55	8.82	9.66	10.34	9.24	....
24	5.59	5.21	4.77	4.99	5.69	6.72	7.61	8.86	9.66	10.35	9.19	....
25	5.55	5.17	4.90	4.97	5.76	6.84	7.64	8.90	9.65	10.45	9.19	....
26	5.55	5.10	5.01	4.95	5.76	6.85	7.67	....	....	10.45	8.95	....
27	5.55	4.95	4.78	4.97	5.75	6.85	7.67	....	....	10.42	8.98	....
28	5.53	5.03	4.78	4.91	5.76	6.87	7.69	8.92	....	10.37	8.98	....
29	5.68	....	4.72	4.71	5.99	6.95	7.78	8.98	....	....	8.84	....
30	5.90	....	4.56	4.76	6.18	6.95	7.83	9.00	....	10.42	8.83	....
31	5.90	....	4.60	....	6.31	....	7.83	9.01	....	10.50	....	....

Auglaize County

Au-1. C. W. Manchester. At New Hampshire. 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 20.60 below lsd, Dec. 1, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.63	15.53	15.33	14.96	15.07	15.53	15.78	16.92	17.95	19.10	20.00	20.60
2	15.61	....	15.34	14.97	15.13	15.57	15.84	16.97	17.98	19.10	20.00	....
3	15.54	....	15.30	15.00	14.98	15.60	15.84	17.00	18.09	19.20	20.00	....
4	15.63	....	15.26	14.96	15.02	15.64	15.84	17.08	18.30	19.25	20.10	20.55
5	15.63	....	15.26	15.00	15.00	15.68	15.94	17.06	18.30	19.25	20.20	20.55
6	15.62	....	15.26	15.03	....	15.74	....	17.04	18.30	19.30	20.20	20.50
7	15.63	....	....	14.97	15.00	15.75	....	17.00	18.50	....	20.10	....
8	15.59	....	....	14.93	15.01	15.71	....	17.03	18.45	19.30	20.15	20.50
9	15.59	....	....	14.92	15.05	15.70	....	17.05	18.50	19.35	20.20	....
10	15.56	15.53	....	14.87	15.05	15.74	16.14	17.15	18.60	19.35	20.20	....

Au-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	15.51	15.51	.....	14.90	14.93	15.78	16.10	17.22	18.65	19.35	20.25	20.40
12	15.53	15.52	.....	14.85	14.92	15.78	16.13	17.22	18.70	19.45	20.25	20.40
13	15.53	15.56	15.18	14.85	15.00	15.75	16.25	17.25	18.75	19.55	20.25	20.40
14	15.46	15.56	15.15	14.85	15.06	15.80	16.25	17.37	18.75	19.55	20.20	20.35
15	15.37	15.64	15.18	14.90	15.05	15.87	16.29	17.34	18.80	19.60	20.25	20.25
16	15.40	15.60	15.17	14.93	15.05	15.99	16.55	17.35	18.85	19.65	20.25	20.25
17	15.35	15.62	15.36	14.92	15.05	16.10	16.56	17.39	18.85	19.65	20.30	20.20
18	15.32	15.62	15.29	14.92	15.06	16.15	16.65	17.42	18.95	19.70	20.35	20.10
19	15.32	15.60	15.23	14.96	15.07	16.05	16.59	17.53	18.95	19.70	20.40	19.95
20	15.30	15.60	15.15	15.00	15.09	16.02	16.67	17.57	19.00	19.75	20.45	19.70
21	15.42	15.41	.....	14.97	15.15	15.10	16.66	17.49	18.95	19.75	20.45	19.55
22	15.41	15.45	15.08	14.94	15.27	15.88	16.67	17.60	18.90	19.80	20.45	19.50
23	15.40	15.47	15.02	15.02	15.35	15.80	16.67	17.67	18.90	19.80	20.45	19.45
24	15.37	15.48	15.04	15.00	15.35	15.80	16.67	17.72	18.90	19.80	20.50	19.40
25	15.37	15.46	15.07	15.00	15.40	15.80	16.70	17.73	18.95	19.85	20.50	19.35
26	15.36	15.40	15.13	15.03	15.38	.....	16.73	17.70	18.95	19.90	20.50	19.15
27	15.38	15.40	15.10	15.05	15.33	.....	16.76	17.70	18.95	19.85	20.50	19.20
28	15.38	15.40	15.10	15.08	15.38	15.80	16.78	17.80	19.05	19.90	20.55	19.10
29	15.44	.....	15.00	15.00	15.46	15.78	16.82	17.83	19.05	19.95	20.55	19.00
30	15.45	.....	14.93	15.07	15.50	15.78	16.90	17.88	19.05	19.95	.....	18.85
31	15.45	.....	14.95	.....	15.53	.....	16.93	17.88	.....	20.00	.....	18.75

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. Water level responds to changes in stage of St. Marys River. Highest water level 0.09 below lsd, Apr. 30, 1946; lowest 7.19 below lsd, Aug. 24, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.08	4.61	4.04	3.92	4.52	4.52	5.91	6.67	6.72	5.30	6.75	5.73
2	4.21	.....	4.13	3.99	4.51	4.64	6.02	6.67	6.19	5.90	6.77	5.47
3	4.08	.....	4.00	4.03	4.07	4.70	6.02	6.72	6.32	6.15	6.64	5.68
4	3.97	.....	4.13	4.16	4.04	5.10	5.80	6.84	6.39	6.30	5.93	5.84
5	4.17	.....	4.20	4.29	4.24	5.37	5.30	6.85	.....	6.46	6.61	5.89
6	4.35	.....	4.20	4.31	4.42	5.46	5.75	6.58	6.68	6.49	6.65	5.87
7	4.35	4.62	4.15	4.19	4.50	5.49	5.85	6.53	.....	6.04	6.43	6.00
8	4.46	4.80	4.30	4.01	4.54	5.45	5.85	6.58	6.70	6.27	6.72	6.07
9	4.48	4.94	4.56	3.72	4.65	5.40	5.96	.....	6.62	6.48	6.74	4.40
10	4.50	4.95	4.62	3.98	4.68	5.17	6.07	6.84	4.60	6.59	6.72	3.66
11	4.61	4.10	4.52	4.08	4.06	5.34	6.11	6.82	4.46	6.59	5.95	3.64
12	4.72	3.81	3.92	3.88	4.37	5.49	6.18	6.62	4.52	6.76	6.13	3.61
13	4.76	4.04	3.87	3.71	4.68	5.49	6.23	6.73	4.44	6.74	6.14	3.86
14	4.63	4.47	3.64	3.77	4.83	5.57	6.26	6.83	4.47	6.33	6.35	3.86
15	4.11	4.50	3.75	4.00	4.89	5.65	6.24	6.76	4.49	6.35	6.53	3.90
16	4.36	4.44	4.00	4.16	4.83	5.71	6.12	6.78	4.44	6.50	6.68	3.89
17	4.28	4.26	4.11	4.26	4.79	5.78	6.22	6.92	3.99	6.67	6.77	3.55
18	3.96	4.20	4.15	4.24	4.85	5.86	6.15	6.98	4.23	6.67	6.76	3.45
19	3.96	3.89	4.22	4.46	4.85	5.82	6.19	6.98	3.98	6.88	6.87	3.60
20	3.95	3.94	4.24	4.60	4.75	5.68	6.40	6.72	4.08	.....	6.91	3.42
21	4.42	3.50	4.24	4.60	4.77	5.78	6.36	6.97	4.10	.....	6.85	3.29
22	4.48	3.63	4.22	4.38	4.77	5.67	6.03	7.10	4.08	6.85	6.70	3.46
23	4.40	3.85	4.04	4.62	4.64	5.80	6.20	7.17	3.42	.....	6.46	3.43
24	4.43	3.84	3.83	4.68	4.63	5.82	6.32	7.19	4.26	6.83	6.58	2.89
25	4.51	3.87	3.91	4.43	4.59	5.80	6.40	6.96	5.04	6.82	6.12	2.73
26	4.53	3.51	3.99	4.62	4.17	5.78	6.43	6.66	5.24	6.76	6.42	2.85
27	4.25	3.88	3.99	4.64	3.94	5.77	6.43	6.69	5.48	6.68	6.40	2.98
28	4.55	3.99	3.97	4.50	4.04	5.84	6.43	6.86	5.67	5.84	6.35	2.98
29	4.60	.....	3.80	4.35	4.21	5.89	6.41	6.97	5.67	6.28	6.34	2.69
30	4.76	.....	3.69	4.44	4.05	5.83	6.38	6.96	5.66	6.40	6.34	2.60
31	4.70	.....	3.85	.....	4.08	.....	6.46	6.96	.....	6.62	.....	1.77

Butler County

B-1. Ohio State Highway Dept. Lat. 39°21'03", long. 84°32'30". Drilled test well in gravel, diameter 6 inches, depth 245 feet. Highest water level 26.50 below lsd, July 28, 1947; lowest 45.10 below lsd, Mar. 12, 1945. Records available: 1942-51.

B-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	35.38	Apr. 3	30.62	July 11	31.23	Oct. 3	34.03
9	35.35	10	30.50	17	31.40	9	34.28
16	35.37	17	30.42	24	31.58	16	34.50
23	34.86	24	30.41	31	31.79	23	34.75
30	34.02	May 1	30.40	Aug. 7	32.02	30	34.98
Feb. 6	33.69	8	30.43	14	32.25	Nov. 6	35.22
20	33.23	15	30.46	21	32.50	15	35.59
27	32.48	29	30.54	28	32.77	20	35.70
Mar. 6	31.80	June 5	30.62	Sept. 4	33.00	27	35.89
13	31.31	12	30.70	11	33.30	Dec. 4	36.15
20	31.02	19	30.80	19	33.37	18	36.59
27	30.80	July 3	31.06	26	33.47	26	36.75

B-4. A. H. Kollstadt. Lat. 39°20'33", long. 84°34'00". Drilled test well in gravel, diameter 6 inches, depth 221 feet. Highest water level 17.57 below lsd, June 10, 1947; lowest 32.60 below lsd, Nov. 20, 1951. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	26.67	Apr. 3	22.81	July 11	27.18	Oct. 3	30.06
9	24.59	10	23.75	17	27.54	9	30.31
16	23.71	17	23.01	24	27.94	16	30.43
23	23.18	24	23.80	31	28.25	23	30.56
30	24.56	May 1	24.47	Aug. 7	28.74	30	30.57
Feb. 6	25.48	8	24.82	14	29.02	Nov. 6	30.72
13	25.07	15	24.93	21	29.24	20	32.60
20	23.59	22	25.95	28	29.42	27	30.42
27	20.32	29	25.69	Sept. 4	29.55	Dec. 4	30.59
Mar. 6	22.23	June 5	26.16	11	29.88	11	28.99
13	23.16	12	26.42	19	30.02	18	28.85
20	23.03	19	26.82	26	30.04	26	28.29
27	23.05	July 3	26.40				

B-11. Fred Bandtel. Lat. 39°20'48", long. 84°31'15". Drilled test well in gravel, diameter 6 inches, depth 247 feet. Highest water level 19.00 below lsd, June 11, 1947; lowest 51.50 below lsd, Oct. 17, 1944. Records available: 1942-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	25.87	Apr. 3	21.03	July 11	27.78	Oct. 10	35.13
9	24.38	10	21.32	17	28.53	16	35.32
16	23.35	17	21.34	24	29.35	23	35.72
23	23.07	24	21.53	31	30.06	30	36.10
30	23.35	May 1	21.99	Aug. 7	30.50	Nov. 8	36.70
Feb. 6	23.16	8	22.65	14	31.28	15	37.03
13	23.00	15	23.28	21	31.85	20	37.32
20	21.95	23	23.58	28	32.34	27	37.58
27	21.47	29	24.08	Sept. 4	33.00	Dec. 4	37.60
Mar. 6	21.11	June 5	24.62	11	33.40	11	37.30
13	21.13	12	25.02	19	33.88	19	37.42
20	21.27	19	25.54	26	34.30	26	35.78
27	21.18	July 3	26.75	Oct. 3	34.39		

B-23. Carl E. Schiering. Lat. 39°20'15", long. 84°34'56". Drilled test 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: 1943-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.95	19.20	17.60	17.50	18.70	20.35	21.55	23.40	24.80	25.70	25.90	25.65
2	21.00	19.25	17.70	17.50	19.00	20.40	21.80	23.40	24.70	25.90	25.90	25.65
3	21.00	19.30	17.55	17.45	19.15	20.45	22.05	23.45	24.70	26.10	25.90	25.65
4	20.90	19.35	17.45	17.50	19.20	20.50	22.10	23.50	24.90	26.10	25.90	25.75
5	20.75	19.45	17.50	17.55	19.25	20.60	22.20	23.50	25.15	26.25	25.95	25.75
6	20.75	19.45	17.70	17.60	19.15	20.65	22.45	23.55	25.35	26.30	25.95	25.75
7	20.50	19.50	17.75	17.65	19.30	20.70	22.55	23.60	25.45	26.35	25.95	25.70
8	20.30	19.55	17.75	17.70	19.55	20.80	22.50	23.65	25.50	26.20	25.95	25.70
9	20.15	19.60	17.85	17.75	19.75	20.85	22.35	23.65	25.30	26.35	25.95	25.55
10	20.25	19.65	17.75	17.85	19.90	20.85	22.55	23.70	25.40	26.45	25.95	25.40
11	20.50	19.70	17.60	17.85	20.00	20.90	22.75	23.75	25.90	26.55	26.00	25.25
12	20.60	19.70	17.75	17.80	19.85	20.95	22.95	23.80	26.05	26.60	26.00	25.10
13	20.45	19.55	18.00	17.75	19.65	21.00	23.10	23.80	26.10	26.65	26.00	25.05
14	20.25	19.35	18.10	17.70	19.80	21.05	23.15	23.85	26.15	26.50	.....	25.00
15	19.95	19.15	18.00	17.65	19.90	21.10	23.00	23.90	25.95	26.40	.....	24.95

B-23--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	19.50	19.00	18.10	17.70	19.80	21.20	22.85	24.15	25.75	26.60	.....	24.95
17	19.30	18.90	17.95	17.70	19.95	21.25	23.00	24.45	25.65	26.70	.....	24.95
18	19.10	18.85	17.80	17.75	20.10	21.30	23.25	24.55	26.05	26.75	.....	24.95
19	19.05	18.75	17.90	17.85	20.05	21.40	23.40	24.40	26.15	26.50	.....	24.95
20	18.75	18.70	18.15	17.90	19.95	21.45	23.55	24.30	26.20	26.30	25.90	24.95
21	18.55	18.50	18.20	17.95	20.15	21.50	23.70	24.55	26.05	26.15	25.90	24.90
22	18.70	18.10	18.15	18.00	20.40	21.55	23.70	24.65	25.85	26.10	25.90	24.85
23	18.90	17.60	18.25	18.05	20.45	21.60	23.50	24.55	25.75	26.15	25.90	24.75
24	19.00	17.25	18.10	18.10	20.35	21.65	23.50	24.50	25.95	26.05	25.90	24.70
25	19.00	17.10	17.95	18.15	20.25	21.65	23.75	24.45	26.05	26.00	25.85	24.60
26	19.25	16.95	17.80	18.25	20.20	21.70	23.80	24.45	26.05	25.95	25.80	24.45
27	19.30	17.00	17.75	18.30	20.20	21.75	23.65	24.45	26.15	25.95	25.80	24.40
28	19.20	17.25	17.75	18.35	20.25	21.75	23.50	24.50	25.00	25.95	25.65	24.25
29	19.10		17.75	18.40	20.25	21.75	23.45	24.50	25.80	25.95	25.65	24.10
30	19.10		17.70	18.45	20.30	21.60	23.40	24.75	25.70	25.90	25.65	24.00
31	19.10		17.60		20.30		23.35	24.90		25.80		23.85

B-30-M. City of Hamilton. Pleasant and Marshall Aves. Pipe with well point at bottom installed in 6-inch drill hole in gravel, diameter 2 inches, depth 85 feet. In same drill hole as B-30-B and B-30-S. Highest water level 26.64 below lsd, June 16, 1947; lowest 36.99 below lsd, Feb. 5, 1945. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	30.78	Apr. 3	27.68	July 11	30.28	Oct. 3	33.50
9	30.60	10	27.66	17	30.50	9	33.68
16	30.19	17	27.67	24	30.82	16	33.87
23	29.75	24	27.66	31	31.17	23	34.05
30	29.34	May 1	27.86	Aug. 7	31.45	30	34.17
Feb. 6	29.35	8	28.13	14	31.77	Nov. 6	34.35
13	29.41	15	28.36	21	32.07	20	34.67
20	29.15	22	28.64	28	32.35	27	34.73
27	28.46	29	28.87	Sept. 4	32.63	Dec. 4	34.85
Mar. 6	28.95	June 5	29.10	11	32.90	11	34.84
13	27.82	12	29.37	19	32.97	18	34.74
20	27.83	19	29.65	26	33.84	26	34.53
27	27.79	July 3	30.20				

25-5. City of Middletown. Water Works plant at west end of Columbia Ave. 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: 1941-51.

Daily lowest water level from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	27.20	28.90	30.35	32.55	33.05	33.65	33.60
2	.....	27.30	28.85	30.40	32.55	33.05	33.65	33.60
3	.....	27.40	28.85	30.50	32.55	33.10	33.70	33.65
4	.....	27.50	28.80	30.55	32.50	33.10	33.70	33.65
5	.....	27.60	28.75	30.60	32.50	33.15	33.70	33.60
6	.....	27.65	28.70	30.65	32.55	33.20	33.75	33.60
7	.....	27.75	28.75	30.65	32.55	33.20	33.80	33.55
8	25.65	27.90	28.85	30.75	32.60	33.25	33.85	33.55
9	25.75	27.95	28.90	30.80	32.60	33.25	33.85	33.45
10	25.85	27.95	29.00	30.90	32.65	33.25	33.85	33.25
11	26.00	28.00	29.00	31.00	32.70	33.25	33.90	33.85
12	26.05	28.05	29.20	31.05	32.70	33.50	33.90	32.30
13	26.05	28.10	29.30	31.10	32.70	33.50	.....	31.95
14	26.05	28.20	29.40	31.30	32.75	33.50	.....	31.75
15	26.10	28.25	29.45	31.60	32.75	33.50	.....	31.65
16	26.15	28.35	29.50	31.90	32.80	33.45	.....	31.65
17	26.25	28.40	29.55	32.15	32.80	33.45	.....	31.65
18	26.40	28.50	29.65	32.35	32.80	33.50	.....	31.65
19	26.45	28.55	29.75	32.50	32.80	33.50	.....	31.70
20	26.50	28.70	29.80	32.70	32.85	33.55	33.85	31.75
21	26.55	28.80	29.95	32.80	32.85	33.55	33.85	31.80
22	26.60	28.90	30.05	32.80	32.90	33.55	33.85	31.80
23	26.60	28.95	30.10	32.65	32.90	33.55	33.85	31.75
24	26.65	28.95	30.10	32.60	32.90	33.60	33.85	31.65
25	26.75	29.00	30.10	32.55	32.90	33.60	33.85	31.50

25-5--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	26.85	29.05	30.15	32.50	32.95	33.60	33.80	31.30
27	26.95	29.10	30.20	32.50	32.95	33.60	33.70	31.25
28	27.10	29.10	30.20	32.50	33.00	33.60	33.70	31.05
29	27.10	29.05	30.25	32.45	33.00	33.60	33.65	30.80
30	27.10	29.00	30.30	32.45	33.05	33.60	33.60	30.65
31	27.15		30.35	32.50		33.60		30.55

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

33-1. Prairie State Paper Mills. Vanderveer and Fifth Aves., Middletown. Dug unused well in gravel, diameter 16 feet, depth 45 feet. Highest water level 25.13 below lsd, June 17, 1947; lowest 46.78 below lsd, Nov. 7, 1944. Records available: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	34.84	Apr. 3	30.40	July 11	36.42	Oct. 2	43.20
9	34.73	10	30.45	17	37.22	9	43.48
16	34.35	17	30.75	24	37.98	16	43.26
23	33.55	24	30.55	31	38.55	23	42.94
30	32.95	May 1	30.98	Aug. 7	39.10	30	43.14
Feb. 6	32.86	8	31.70	14	40.05	Nov. 6	43.62
13	33.42	15	32.50	21	40.65	20	43.42
20	33.25	22	33.43	28	41.42	26	43.74
27	31.07	29	33.77	Sept. 4	41.61	Dec. 4	43.57
Mar. 6	30.60	June 5	34.58	11	41.85	11	43.55
13	29.93	12	35.20	19	41.98	18	43.05
20	30.29	19	36.08	26	43.60	26	42.10
27	30.20	July 3	36.45				

36-13. American Rolling Mill Co. East Plant, Middletown. Lat. 39°30'00", long. 84°23'00". Drilled unused well in gravel, diameter 26 inches, depth 183 feet. Highest water level 76.83 below lsd, Aug. 1, 1938; lowest 129.70 below lsd, June 12, 1942. Records available: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	114.15	111.00	109.70	107.60	104.80	106.90	105.80	108.20	108.45	111.30	112.65	112.90
2	113.70	111.00	109.75	106.95	104.75	106.85	106.15	108.40	108.30	110.70	113.05	112.85
3	113.60	110.35	109.80	106.95	105.05	106.65	106.55	108.55	108.25	110.45	113.00	112.50
4	113.35	110.20	109.80	107.10	105.15	106.10	106.30	108.55	108.55	110.50	112.85	112.45
5	113.10	110.50	109.20	107.10	104.75	106.10	105.70	108.15	108.90	110.90	112.65	112.50
6	112.70	110.50	109.25	107.10	104.55	106.20	106.15	107.25	109.40	110.65	112.65	112.55
7	113.20	110.85	109.45	107.05	104.00	106.25	106.45	107.40	109.80	110.40	113.00	112.80
8	113.25	110.95	109.70	106.50	104.65	106.35	106.40	107.60	109.85	110.05	113.10	112.80
9	112.50	111.00	109.90	106.25	105.40	106.30	106.05	107.80	109.40	109.70	113.15	112.60
10	112.10	110.95	109.90	106.00	105.70	106.15	106.50	107.95	109.50	109.70	113.35	112.30
11	111.25	110.20	109.50	106.05	106.10	105.10	106.90	108.00	109.60	109.75	113.00	112.15
12	111.50	110.25	109.00	106.05	106.70	105.15	107.10	107.85	109.50	110.15	112.85	112.30
13	111.30	110.45	109.15	106.15	105.50	105.25	107.30	107.35	109.65	110.00	112.90	112.45
14	111.15	110.60	109.30	106.20	105.50	105.30	107.40	107.70	109.40	109.95	113.25	112.55
15	111.70	110.30	109.25	106.15	105.05	105.35	107.45	107.90	109.70	109.80	113.45	112.70
16	111.75	110.20	109.35	105.80	105.05	105.35	106.85	108.10	110.30	109.55	113.75	112.55
17	111.85	110.30	109.35	105.80	105.30	105.20	107.20	108.30	110.65	109.60	113.85	112.30
18	111.95	110.30	109.30	105.80	105.55	104.70	107.40	108.35	.....	110.05	113.75	112.20
19	112.00	110.05	108.35	105.95	105.95	104.75	107.65	107.85	.....	109.95	113.50	112.20
20	112.00	109.95	108.35	105.95	105.95	104.00	107.80	107.40	.....	109.95	113.25	112.55
21	111.65	109.95	108.55	105.90	105.45	105.05	107.80	107.80	.....	109.95	112.95	112.25
22	111.30	109.90	108.70	105.65	105.70	105.20	107.25	108.10	.....	110.15	112.95	112.20
23	111.70	109.90	108.75	105.30	105.75	105.25	107.30	108.25	.....	110.85	113.00	112.30
24	111.75	109.80	108.80	105.35	105.85	105.20	107.65	108.40	.....	111.45	113.10	112.30
25	111.80	109.70	108.35	105.56	105.95	104.70	107.90	108.40	.....	111.80	112.85	111.75
26	111.80	109.50	107.95	105.75	106.00	105.05	108.03	108.35	113.55	112.15	112.55	111.25
27	111.45	109.50	107.70	105.75	105.90	105.40	108.20	107.80	114.05	112.30	112.55	111.25
28	111.05	109.50	107.75	105.65	105.85	105.75	108.25	108.15	113.75	112.25	112.55	111.15
29	110.65		107.65	105.45	106.35	106.30	108.00	108.35	112.75	112.10	112.65	111.30
30	110.55		107.85	104.75	106.70	106.45	107.50	108.45	112.05	112.25	112.80	111.25
31	110.70		107.85		106.85		107.85	108.40		112.35		111.70

85-7. City of Hamilton. City Water Works. Drilled test well in gravel, diameter 3 inches, depth 110 feet. Highest water level 12.45 below lsd, Apr. 23, 1940; lowest 34.34 below lsd, Nov. 17, 1951. Records available: 1939-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.00	24.55	20.10	20.35	23.80	.....	27.45	31.95	33.00	32.90	33.65	32.60
2	23.95	25.15	20.30	20.40	23.75	.....	27.65	32.40	32.50	33.15	32.35	32.60
3	24.25	25.35	20.50	20.60	24.25	.....	27.65	31.65	32.65	32.45	32.30	32.50
4	23.80	25.50	20.30	.....	24.60	.....	27.80	31.65	32.65	32.75	31.95	32.60
5	22.40	25.05	20.70	.....	24.65	.....	27.90	31.65	32.75	33.05	31.85	32.65
6	21.95	25.05	20.90	.....	24.15	.....	28.40	31.70	32.85	33.15	32.60	32.70
7	22.30	25.15	21.00	.....	24.55	.....	28.45	31.90	32.80	33.15	34.34	32.65
8	22.85	25.30	20.95	.....	24.45	.....	28.60	31.95	32.80	32.75	.....	32.55
9	23.05	25.55	20.90	.....	24.75	.....	29.10	32.15	32.20	33.50	.....	.....
10	23.35	25.75	21.15	21.15	24.90	.....	29.25	32.20	32.20	32.95	.....	.....
11	23.50	25.85	21.25	21.10	24.45	.....	29.30	32.30	32.05	33.95	.....	32.10
12	.....	25.75	21.25	21.10	24.25	.....	29.35	32.10	32.60	33.15	.....	30.65
13	.....	25.25	21.35	20.35	24.05	.....	29.30	32.55	32.70	33.10	.....	30.70
14	.....	24.20	20.60	20.95	24.00	.....	29.35	32.70	32.90	33.15	.....	30.65
15	.....	23.75	20.15	20.40	23.80	.....	29.10	32.90	32.90	32.95	.....	30.80
16	21.60	23.85	20.15	20.60	24.20	.....	.....	33.10	32.65	33.05	.....	30.90
17	21.85	23.85	20.10	20.85	24.45	.....	29.55	33.15	32.90	33.60	.....	.....
18	22.85	23.75	20.10	20.80	24.60	.....	.....	33.30	33.05	34.00	.....	30.75
19	23.20	23.45	20.10	20.90	24.65	.....	.....	33.30	33.55	.....	.....	30.95
20	21.90	23.35	20.30	21.15	24.60	.....	.....	33.25	33.25	.....	32.30	31.00
21	21.80	22.40	20.30	21.25	25.15	.....	.....	32.80	33.30	.....	32.50	31.15
22	22.00	19.40	20.45	21.35	24.95	.....	.....	32.85	32.95	.....	32.55	31.00
23	22.40	17.65	20.35	21.35	24.60	.....	.....	32.90	33.35	33.65	32.50	.....
24	22.70	17.85	20.40	21.45	24.65	.....	30.30	32.95	33.25	33.70	32.55	.....
25	22.95	18.15	20.00	22.50	24.70	.....	.....	32.95	32.25	.....	32.45	29.55
26	23.30	18.15	20.30	22.70	.....	28.58	.....	32.40	32.30	.....	32.30	29.60
27	23.50	19.20	20.95	22.85	.....	28.75	.....	32.75	33.25	.....	32.45	29.55
28	23.55	19.70	21.20	22.90	.....	29.00	.....	32.75	32.45	.....	32.55	29.60
29	.....	.....	20.95	22.95	24.30	28.55	.....	32.90	32.40	.....	32.55	29.40
30	24.00	.....	20.80	23.50	.....	27.85	.....	33.00	31.45	33.75	32.60	29.40
31	24.05	.....	20.25	.....	.....	.....	31.05	33.00	.....	34.00	.....	27.10

117. Anna Magie. Lat. 39°21'30", long. 84°34'56". Driven unused well in gravel, diameter 1½ inches, depth 40 feet. Highest water level 15.90 below lsd, June 10, 1947; lowest 32.57 below lsd, Dec. 4, 1951. Records available: 1938-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	24.72	Apr. 3	22.60	July 3	24.95	Sept. 26	29.64
9	24.21	10	22.87	11	25.21	Oct. 3	29.03
16	23.45	17	23.07	17	25.52	9	29.06
23	22.54	24	21.06	24	25.95	16	29.55
30	22.57	May 1	21.20	31	26.21	23	29.74
Feb. 6	22.83	8	21.53	Aug. 7	29.38	30	29.74
13	24.61	15	21.95	14	29.72	Nov. 6	32.45
20	22.56	22	22.41	21	27.70	20	19.62
27	21.22	29	22.78	28	27.86	27	30.03
Mar. 6	20.49	June 5	25.30	Sept. 4	28.06	Dec. 4	32.57
13	20.46	12	25.76	11	29.39	11	32.30
20	20.61	19	24.40	19	29.75	26	28.90
27	20.55						

150-2. Mrs. J. Wesley Morris. Lat. 39°21'01", long. 84°29'18". Dug unused well in gravel, diameter 24 inches, depth 28 feet. Highest water level 1.00 below lsd, Mar. 16, 1943; lowest 21.37 below lsd, Aug. 12, 1941. Records available: 1938-51.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3	2.00		3	2.62		11	11.75		10		16.26
10	2.51		10	2.92		17	12.55		16		16.15
17	1.90		17	2.84		24	13.48		23		16.10
24	2.25		24	3.44		31	14.34		30		16.05
31	2.85		May 1	4.25		Aug. 7	15.27		Nov. 8		15.95
Feb. 7	2.45		8	4.75		14	15.82		15		15.77
15	2.04		15	5.19		21	16.62		20		15.82
21	1.20		23	6.22		28	17.00		28		15.70
28	2.63		29	6.43		Sept. 4	17.36		Dec. 5		15.55
Mar. 7	2.25		June 5	7.22		11	17.60		12		13.84
14	2.25		12	7.92		19	17.70		19		13.65
21	2.04		19	9.20		26	17.79		26		5.78
27	2.80		July 3	10.82		Oct. 3	16.52				

151-1. U. S. Geol. Survey test well. On property of Harry A. Morris. Lat. 39°21'00", long. 84°29'18". Drilled test well in gravel, diameter 6 inches, depth 227 feet. Highest water level 1.45 below lsd, June 4, 1947; lowest 33.20 below lsd, Dec. 24, 1941. Records available: 1940-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.20	6.20	4.55	4.50	5.80	7.65	9.65	14.05	16.65	18.50	20.45	21.70
2	9.15	6.40	4.65	4.50	5.85	7.65	9.80	14.10	16.70	18.55	20.50	21.70
3	9.00	6.40	4.45	4.60	4.75	7.75	9.80	14.25	16.80	18.75	20.55	21.70
4	8.35	6.25	4.15	4.75	4.75	7.85	10.00	14.40	16.90	18.85	.....	21.75
5	7.70	6.40	4.00	4.90	6.00	8.00	10.25	14.45	16.95	18.90	.....	21.75
6	7.30	6.20	4.00	4.85	6.15	8.00	10.40	14.50	17.05	18.95	.....	21.75
7	7.15	6.40	4.20	4.70	6.20	8.00	10.50	14.55	17.15	19.05	.....	21.80
8	7.20	6.40	4.55	4.85	6.30	8.05	10.65	14.65	17.20	19.10	20.85	21.80
9	7.20	6.45	4.75	4.90	6.35	8.15	10.90	14.80	17.20	19.15	.....	21.75
10	7.15	6.45	4.85	5.10	6.35	8.20	11.15	14.90	17.30	19.25	.....	21.65
11	7.25	6.35	4.75	5.10	6.40	8.25	11.30	14.00	17.35	19.30	.....	21.45
12	7.25	6.20	4.70	4.90	6.60	8.30	11.50	15.10	17.40	19.40	.....	21.30
13	7.20	5.55	4.55	4.65	6.75	8.45	11.65	15.15	17.50	19.45	.....	21.30
14	7.00	5.35	4.55	4.70	6.85	8.50	11.80	15.25	17.60	19.50	.....	21.25
15	5.15	5.15	4.70	4.80	6.85	8.55	11.95	15.30	17.65	19.55	21.15	21.25
16	4.85	5.05	4.75	4.95	6.80	8.60	12.05	15.45	17.70	19.60	21.20	21.25
17	4.75	4.80	4.75	5.00	6.80	8.70	12.20	15.50	17.75	19.65	21.30	21.20
18	3.95	4.75	4.65	4.95	6.90	9.80	12.30	15.60	17.80	19.70	21.30	21.15
19	5.05	4.70	4.60	5.15	6.95	8.80	12.45	15.70	17.85	19.80	21.35	21.15
20	5.25	4.70	4.60	5.30	6.90	8.95	12.65	15.75	17.90	19.80	21.40	21.10
21	5.65	3.75	4.45	5.25	7.00	9.00	12.75	15.85	18.00	19.90	21.40	21.05
22	5.65	3.75	4.45	5.40	7.00	9.10	12.85	15.95	18.10	19.95	21.45	21.05
23	5.50	3.85	4.30	5.50	7.15	9.25	13.00	16.05	18.10	19.95	21.50	20.90
24	5.55	3.95	4.50	5.40	7.20	9.35	13.10	16.10	18.15	20.05	21.55	20.80
25	5.70	3.90	4.70	5.35	7.25	9.45	13.25	16.15	18.20	20.10	21.55	20.65
26	5.75	4.00	4.80	5.55	7.25	9.45	13.35	16.20	18.30	20.15	21.60	20.50
27	5.85	4.30	4.70	5.60	7.20	9.60	13.40	16.20	18.35	20.15	21.60	20.40
28	5.95	4.35	4.70	5.55	7.40	9.70	13.55	16.35	18.40	20.25	21.65	20.10
29	6.10		4.55	5.55	7.55	9.70	13.65	16.45	18.45	20.30	21.65	19.80
30	6.15		4.45	5.70	7.55	9.50	13.75	16.45	18.45	20.35	21.70	19.60
31	6.05		4.50		7.70		13.90	16.50		20.40		19.40

180. Fox Paper Co. Crescentville. Lat. 39°18'05", long. 84°26'18". Drilled unlined well in gravel, diameter 26 inches, depth 90 feet. Highest water level 3.77 below lsd, Jan. 27, 1949; lowest 20.50 below lsd, Dec. 26, 1944. Records available: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.60	7.40	6.65	7.00	7.55	10.55	13.75	15.70	17.25	18.50	19.65	16.80
2	8.60	7.50	6.75	7.00	7.60	10.65	13.75	15.70	17.35	18.45	19.65	16.75
3	8.10	7.50	6.60	7.00	7.50	10.80	13.70	15.80	17.50	18.40	19.60	16.70
4	7.55	7.35	6.80	7.10	7.65	11.05	13.45	15.95	17.55	18.55	19.85	16.40
5	7.30	7.45	6.90	7.15	8.00	11.15	13.70	16.00	17.55	18.70	20.05	14.60
6	7.00	7.45	6.80	7.15	8.20	11.20	13.80	15.95	17.50	18.85	19.00	14.15
7	6.90	7.50	6.80	7.00	8.30	11.20	13.75	15.75	17.75	18.90	19.65	14.05
8	6.95	7.55	7.10	7.05	8.35	11.35	13.70	15.90	17.80	19.00	19.90	14.00
9	6.95	7.55	7.25	7.05	8.45	11.50	13.90	16.10	17.65	18.95	19.95	13.60
10	6.95	7.55	7.30	7.25	8.50	11.60	14.05	16.25	17.60	18.95	19.90	13.55
11	7.10	7.35	7.20	7.30	8.45	11.75	14.10	16.30	18.05	18.95	19.95	13.15
12	7.15	7.15	7.10	7.05	8.60	11.80	14.25	16.40	18.05	19.15	19.80	12.85
13	7.15	6.85	6.95	7.05	8.85	12.05	14.30	16.45	18.10	19.25	19.55	13.05
14	6.95	6.85	7.05	7.10	8.95	12.15	14.35	16.45	18.20	19.20	19.70	12.95
15	5.95	6.50	7.25	7.20	8.95	12.20	14.40	16.40	18.25	19.05	19.85	12.90
16	5.85	6.45	7.35	7.30	8.95	12.35	14.50	16.45	18.30	19.05	19.90	12.90
17	5.55	6.25	7.35	7.30	9.05	12.55	14.55	16.55	18.30	19.15	20.00	12.75
18	5.65	6.25	7.25	7.25	9.30	12.75	14.60	16.65	18.30	19.15	19.95	12.50
19	5.80	6.15	7.25	7.40	9.45	12.75	14.70	16.70	18.40	19.25	19.90	12.60
20	6.05	6.15	7.20	7.50	9.60	12.95	14.85	16.75	18.40	19.15	19.80	12.35
21	6.50	5.70	7.05	7.45	9.85	13.05	14.85	16.75	18.50	19.20	19.60	11.60
22	6.55	5.70	7.05	7.35	10.00	13.15	14.10	16.95	18.50	19.25	19.35	11.60
23	6.45	5.70	6.85	7.40	10.05	13.40	15.05	17.05	18.70	19.25	20.20	11.45
24	6.65	5.75	7.05	7.40	10.10	13.60	15.15	17.05	18.60	19.50	19.90	11.40
25	6.80	5.70	7.15	7.20	10.20	13.65	15.20	17.00	18.60	19.60	18.95	11.05

180--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	6.85	5.95	7.25	7.20	10.20	13.60	15.25	16.95	18.30	19.45	18.35	10.65
27	7.00	6.25	7.10	7.25	10.25	13.70	15.25	16.85	18.55	18.80	.....	10.25
28	7.10	6.30	7.05	7.15	10.40	13.85	15.30	17.10	18.75	19.40	17.00	10.25
29	7.30		6.90	7.25	10.45	13.90	15.45	17.15	18.80	19.50	17.05	9.65
30	7.35		7.00	7.45	10.50	13.80	15.50	17.15	18.60	19.35	16.90	9.35
31	7.20		7.00		10.55		15.45	17.05		19.60		9.20

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 24.90 below lsd, Dec. 31, 1951; lowest 35.10 below lsd, Nov. 2, 1951. Records available: 1951.

Daily lowest water level from recorder graph

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.60	34.80	32.75	17	.....	33.50	32.40	32.50	26.75
2	32.90	35.10	31.30	18	.....	.....	32.70	32.10	27.70
3	32.70	33.25	34.25	31.35	19	.....	.....	32.25	33.00	27.65
4	33.80	34.20	30.55	20	.....	32.75	32.60	33.20	27.55
5	34.20	34.35	30.65	21	.....	.....	32.40	33.05	27.55
6	32.60	34.30	33.60	29.85	22	32.75	.....	32.95	33.40	27.75
7	33.80	33.85	29.95	23	32.90	.....	33.05	32.70	27.70
8	33.70	33.25	28.95	24	32.50	.....	33.65	33.35	27.15
9	33.85	33.50	28.85	25	.....	.....	33.85	33.40	26.70
10	32.90	32.95	32.90	27.90	26	.....	.....	34.15	33.05	26.25
11	33.20	33.15	27.35	27	32.95	.....	34.25	33.15	26.25
12	33.30	32.25	27.45	28	.....	.....	34.15	32.90	26.05
13	32.85	32.30	26.90	29	32.00	32.55	34.00	33.00	25.70
14	33.05	32.95	33.00	26.90	30	32.00	32.55	34.70	32.70	25.70
15	32.55	33.10	26.90	31	32.50	.....	34.85	.....	24.90
16	32.75	32.30	26.85						

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 9.29 below lsd, Nov. 5-7, 12-14, 1951. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.02	.....	6.67	6.86	7.58	8.06	8.24	8.63	.....	9.02	9.27	9.15
2	.....	.....	6.78	6.94	7.63	8.08	8.26	8.64	.....	.....	9.27	9.16
3	.....	.....	6.83	7.02	7.50	8.10	8.28	8.65	.....	9.10	9.27	9.17
4	.....	.....	6.80	7.08	7.64	8.13	8.30	8.67	.....	9.10	9.28	9.17
5	.....	7.71	6.66	7.15	7.70	8.15	8.34	8.67	.....	9.10	9.29	9.17
6	.....	7.71	.....	7.20	7.74	8.17	8.36	8.67	.....	9.11	9.29	9.06
7	.....	7.69	6.56	7.24	7.77	8.18	8.38	8.68	.....	9.11	9.29	9.01
8	.....	7.68	6.51	7.26	7.80	8.19	8.38	8.66	.....	9.13	9.21	8.69
9	.....	7.73	6.67	7.27	7.82	7.96	8.40	8.66	.....	9.14	9.23	8.57
10	.....	7.75	6.77	7.24	.....	8.06	8.41	8.67	.....	9.15	9.25	8.06
11	7.22	7.76	6.86	7.26	.....	8.13	8.41	8.66	.....	9.16	9.28	8.04
12	7.28	7.66	6.93	7.25	.....	8.16	8.41	8.66	.....	9.17	9.29	8.14
13	.....	6.17	6.95	7.17	7.83	8.19	8.42	8.67	.....	9.17	9.29	8.29
14	.....	6.30	6.89	7.09	7.85	8.21	8.43	8.68	.....	9.18	9.29	8.34
15	.....	6.51	6.84	6.91	7.88	8.23	8.44	8.69	.....	9.19	9.22	8.43
16	.....	6.63	6.83	6.99	7.90	8.26	8.46	8.73	.....	9.20	9.22	8.45
17	6.49	6.68	6.88	7.06	7.92	8.28	8.47	8.73	.....	9.20	9.22	8.52
18	5.49	6.73	6.94	7.11	7.94	8.28	8.48	8.75	.....	9.21	9.23	8.58
19	5.18	6.73	6.99	7.19	7.96	8.29	8.49	8.76	.....	9.22	9.24	8.62
20	5.35	6.22	7.06	7.26	7.97	8.31	8.50	8.77	.....	9.22	9.26	8.64
21	6.64	5.67	7.11	7.29	7.97	8.33	8.51	8.78	.....	9.23	9.27	.....
22	6.77	5.40	7.13	7.33	8.01	8.33	8.51	8.79	.....	9.23	9.27	8.48
23	6.90	5.66	7.10	7.38	8.02	8.21	8.51	8.79	.....	9.24	9.23	8.47
24	7.02	5.85	7.12	7.41	8.04	8.26	8.54	.....	.....	9.24	9.21	8.51
25	7.10	6.02	7.17	7.45	8.06	8.28	8.55	.....	.....	9.23	9.18	8.51

Ch-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	7.19	6.21	7.21	7.50	8.07	8.31	8.56	....	9.00	9.24	9.16	8.42
27	7.27	6.40	7.24	7.52	8.07	8.32	8.58	....	9.00	9.25	9.15	8.21
28	7.35	6.53	7.24	7.55	8.06	8.24	8.59	....	9.01	9.25	9.14	8.17
29	7.41		7.10	7.56	7.98	8.20	8.60	....	9.01	9.26	9.13	8.20
30	7.45		6.85	7.60	8.01	8.21	8.60	....	9.02	9.27	9.14	8.20
31	7.52		6.77		8.03		8.61	....		9.27		7.63

Delaware County

DI-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 2.00 below lsd, Dec. 30, 1951; lowest 15.25 below lsd, Nov. 6, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.87	7.02	4.80	3.60	6.22	8.35	....	.....	13.08	14.25	.....	14.90
2	9.91	7.30	4.92	3.92	6.37	8.42	9.62	11.41	13.14	14.25	.....	14.85
3	9.43	7.48	4.92	4.26	6.44	8.49	9.67	11.46	13.21	14.25	.....	14.85
4	3.57	7.58	4.28	4.58	6.54	8.57	9.68	11.54	13.25	14.25	.....	14.75
5	3.32	7.79	3.52	4.93	6.66	8.67	9.78	11.62	13.35	14.30	15.20	14.20
6	3.63	7.84	3.74	5.18	6.81	8.74	9.89	11.65	13.35	14.35	15.25	14.65
7	3.93	7.83	3.77	5.36	6.99	8.79	9.96	11.65	13.45	14.35	15.20	14.60
8	4.38	6.63	3.37	5.40	7.13	8.83	10.01	11.67	13.50	14.40	15.20	13.55
9	4.90	6.68	3.87	5.12	7.26	8.81	10.08	11.72	13.55	14.50	15.20	12.75
10	5.26	6.82	4.33	3.53	7.33	8.90	10.17	11.79	13.60	14.55	15.20	10.85
11	5.24	6.87	4.70	3.18	7.27	8.98	10.24	11.86	13.67	14.55	15.20	10.90
12	5.02	6.64	4.96	3.18	7.20	9.02	10.29	11.93	13.70	14.65	15.20	11.10
13	5.10	3.30	5.05	3.19	7.33	9.08	10.34	12.00	13.75	14.70	15.20	11.30
14	5.12	3.62	4.10	2.97	7.45	9.13	10.39	12.06	13.80	14.75	15.15	11.40
15	2.80	4.00	3.22	3.18	7.54	9.18	10.45	12.10	13.85	14.75	15.10	11.55
16	3.21	4.16	3.13	3.58	7.59	9.24	10.50	12.15	13.85	14.80	15.10	11.75
17	3.33	3.98	3.88	4.02	7.65	9.32	10.56	12.21	13.85	14.85	15.10	11.80
18	2.83	3.45	3.65	4.34	7.75	9.39	10.60	12.28	13.85	14.85	15.10	11.85
19	3.13	3.17	3.90	4.73	7.82	9.45	10.65	12.34	13.90	14.90	15.10	11.95
20	....	2.98	....	5.07	7.84	9.42	10.73	12.40	13.95	14.95	15.15	11.95
21	....	2.75	3.98	5.30	7.77	9.93	10.79	12.45	13.95	14.95	15.15	11.55
22	3.92	3.18	3.90	5.37	7.43	9.43	10.87	12.52	14.00	15.00	15.10	8.20
23	4.22	3.52	3.68	5.15	7.74	9.35	10.92	12.62	14.00	15.00	15.10	7.20
24	4.63	3.75	3.55	4.93	7.78	9.34	10.98	12.70	14.05	15.05	15.05	7.35
25	5.03	3.91	3.80	5.07	7.87	9.42	11.03	12.77	14.10	15.10	15.05	7.50
26	5.42	4.10	4.15	5.32	7.89	9.44	11.07	12.82	14.10	15.10	15.05	....
27	5.73	4.44	4.44	5.53	7.89	9.46	11.10	12.84	14.10	15.10	15.00	4.35
28	6.04	4.77	4.52	5.67	7.93	9.51	11.14	12.89	14.15	15.10	15.00	4.50
29	6.39		3.82	5.83	8.03	9.52	11.20	12.95	14.20	15.10	14.95	4.60
30	6.74		3.07	6.04	8.16	9.52	11.25	12.99	14.25	....	14.90	3.05
31	6.88		3.30		8.28		11.29	13.03		....		2.55

DI-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 25.50 below lsd, July 4, 1951; lowest 37.04 below lsd, Nov. 1, 1948. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.95	....	34.32	30.10	29.42	27.45	25.80	26.08	26.65	26.75	27.36	27.57
2	35.95	....	34.33	30.10	29.10	27.36	25.80	26.06	....	27.70	27.34	27.62
3	35.80	....	34.32	30.13	28.70	27.36	25.63	26.14	26.70	26.80	27.27	27.62
4	34.00	....	34.31	30.15	28.30	27.43	25.60	26.17	26.70	26.90	27.52	27.62
5	32.70	....	33.88	30.18	28.07	27.47	25.80	26.15	26.65	27.00	27.61	27.63
6	33.40	....	34.03	30.10	28.00	27.47	25.80	26.06	26.65	27.00	27.57	27.63
7	33.75	....	34.13	29.95	27.96	27.44	25.70	25.91	26.80	27.00	27.26	27.62
8	34.10	....	34.22	29.90	27.89	27.36	25.60	26.00	26.85	27.05	27.51	27.60
9	34.25	....	34.41	29.77	27.87	27.27	25.65	26.09	26.70	27.05	27.50	26.90
10	34.30	....	34.46	29.43	27.84	27.47	25.78	26.15	26.75	27.05	27.38	25.90
11	34.50	....	34.48	29.40	27.60	26.80	25.77	26.16	26.90	27.05	27.42	26.45
12	34.55	....	34.50	29.25	27.51	26.45	25.80	26.16	26.90	27.15	27.36	27.32
13	34.60	33.70	34.51	29.22	27.65	26.20	25.82	26.60	26.85	27.15	27.20	27.75
14	34.55	33.20	34.34	29.23	27.69	26.08	25.80	26.58	26.85	27.10	27.27	27.95
15	33.80	33.50	34.02	29.08	27.56	26.00	25.75	26.54	26.90	27.00	27.37	28.21

Dl-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	33.45	33.75	34.06	29.18	27.48	25.94	25.68	26.59	26.85	27.05	27.30	28.23
17	33.65	33.70	34.17	29.40	27.47	25.90	25.70	26.64	26.85	27.05	27.35	28.18
18	33.60	33.35	34.22	29.42	27.58	25.95	25.68	26.66	26.80	27.05	27.37	28.27
19	33.35	33.30	34.33	29.58	27.49	25.90	25.81	26.66	26.85	27.10	27.47	28.32
20	.....	33.12	.....	29.70	27.46	25.80	25.98	26.68	27.85	27.05	27.50	28.01
21	.....	32.88	34.16	29.69	27.45	25.84	25.99	26.34	26.75	27.05	27.43	28.00
22	34.10	32.97	34.05	29.55	27.42	25.75	26.04	26.42	26.75	27.10	27.44	27.81
23	34.20	33.36	33.63	29.57	27.41	25.75	26.06	26.47	26.85	27.10	27.44	28.01
24	34.40	33.57	33.18	29.36	27.44	25.80	26.03	26.44	26.80	27.25	27.65	28.05
25	34.55	33.68	32.68	29.37	27.47	25.80	26.06	26.41	26.75	27.30	27.65	27.86
26	34.65	33.91	32.12	29.57	27.41	25.75	26.07	26.37	26.75	27.24	27.52	27.59
27	34.85	34.13	31.87	29.65	27.28	25.75	26.01	26.35	26.85	27.14	27.58	27.55
28	34.90	34.19	31.55	29.74	27.45	25.76	26.04	26.45	26.95	27.25	27.52	27.60
29	35.00	.....	30.95	29.68	27.55	25.69	26.08	26.48	26.95	27.30	27.59	27.68
30	.....	.....	30.25	29.60	27.57	25.65	26.10	26.49	26.80	27.22	27.56	27.65
31	.....	.....	30.10	.....	27.57	.....	25.99	26.48	.....	27.38	.....	26.57

Fairfield County

F-1. C. E. Howdyshehl. 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 16.70 below lsd, Dec. 31, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.65	9.16	8.22	7.86	8.67	11.12	12.34	13.33	.....	14.53	15.15	15.58
2	11.63	9.20	8.24	7.85	8.71	11.19	12.38	13.34	14.07	14.54	.....	15.57
3	11.57	9.26	8.24	7.82	8.75	11.24	12.39	13.40	14.12	.....	.....	15.57
4	11.48	9.22	8.29	7.74	8.81	11.32	12.37	13.45	14.16	14.58	.....	15.52
5	11.48	9.27	8.32	7.79	8.93	11.40	12.40	.....	14.17	14.61	.....	.....
6	11.53	9.28	8.32	7.79	9.02	11.46	12.45	13.42	14.16	14.63	.....	.....
7	11.17	9.28	8.27	7.78	9.12	11.43	12.53	13.40	14.19	14.63	15.38	.....
8	11.98	9.35	8.21	7.79	9.22	11.46	12.55	13.43	14.21	14.64	15.28	15.36
9	10.93	9.35	8.25	7.84	.....	11.50	12.55	13.47	14.21	14.69	15.35	15.34
10	10.81	9.38	8.25	7.89	.....	11.57	12.59	13.51	.....	14.71	15.38	15.34
11	10.66	9.37	8.25	7.96	9.35	11.65	12.61	13.56	.....	14.73	15.40	15.29
12	10.63	9.39	8.23	7.93	.....	11.69	12.63	13.59	.....	14.81	15.42	15.17
13	10.57	9.40	8.18	7.94	.....	11.72	12.67	13.65	.....	14.83	15.43	15.16
14	10.46	9.40	8.14	7.98	9.80	11.81	12.71	.....	.....	14.83	15.41	15.16
15	10.23	9.35	8.27	8.01	.....	11.84	.....	13.72	14.28	14.84	.....	15.03
16	10.08	9.20	8.33	8.02	.....	11.90	.....	13.75	14.31	14.86	.....	.....
17	10.02	9.03	8.33	8.09	10.00	11.95	12.95	13.80	14.37	14.89	15.39	.....
18	9.82	8.96	8.33	8.09	10.08	12.02	12.99	13.83	14.33	14.89	15.40	.....
19	9.71	8.83	8.29	8.10	10.14	12.06	12.99	13.84	14.36	15.00	15.43	15.03
20	9.61	8.79	8.24	8.14	10.20	12.06	13.07	13.86	14.39	.....	15.48	.....
21	9.52	8.58	8.19	8.17	10.27	12.17	13.09	13.91	14.40	.....	15.48	.....
22	9.52	8.55	8.12	8.16	10.37	12.17	13.13	13.96	14.40	.....	15.48	.....
23	9.54	8.48	7.97	8.26	10.42	12.23	13.14	14.00	.....	.....	15.44	14.55
24	9.33	8.39	7.91	8.29	10.53	12.28	13.18	14.02	.....	.....	15.45	14.55
25	9.31	8.30	7.92	8.28	10.62	12.34	.....	14.03	14.45	15.05	.....	14.49
26	9.30	8.22	9.94	8.37	10.62	12.34	.....	14.04	14.47	15.05	.....	14.29
27	9.27	.....	7.93	8.44	10.65	12.36	.....	14.04	14.48	15.04	15.59	14.27
28	9.28	8.20	7.91	8.45	10.74	12.37	13.18	14.05	14.53	15.05	15.60	14.17
29	9.31	.....	7.81	8.51	10.85	12.37	13.23	14.09	14.54	15.07	15.59	13.95
30	9.34	.....	7.88	8.61	11.01	12.34	13.24	.....	14.54	15.09	15.59	13.79
31	9.18	.....	7.88	.....	11.09	.....	13.30	.....	.....	15.11	.....	13.69

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 18.90 below lsd, May 29, 1946; lowest 26.40 below lsd, Oct. 26, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.72	22.07	21.93	22.10	22.25	22.50	22.95	.....	24.22	24.92	26.00	25.49
2	22.72	21.98	21.94	22.11	22.25	22.59	23.06	23.92	24.20	25.11	25.98	25.41
3	22.67	21.98	21.92	22.10	22.22	22.61	23.36	23.95	24.20	25.20	25.92	25.39
4	22.73	21.95	21.88	22.06	22.17	22.61	23.39	24.23	24.29	25.25	25.88	25.35
5	22.75	21.97	21.87	22.05	22.18	22.66	23.40	24.23	24.31	25.47	25.87	25.30

F-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	22.75	21.97	21.84	.....	22.14	22.68	23.40	24.23	24.32	.....	25.83	25.31
7	22.75	21.99	21.69	.....	22.20	22.71	23.41	24.19	24.34	.....	25.63	25.31
8	22.67	22.00	21.75	.....	22.23	22.73	23.45	24.16	24.35	.....	25.62	25.24
9	22.68	22.02	21.78	.....	22.24	22.74	23.46	24.16	24.34	.....	25.78	25.14
10	22.68	22.02	21.78	.....	22.23	22.75	23.55	24.17	24.31	.....	25.87	25.10
11	22.63	22.00	21.77	.....	22.13	22.82	23.60	24.19	24.31	.....	25.90	25.10
12	22.60	22.02	21.74	21.85	22.35	22.85	23.61	24.20	24.31	.....	25.90	25.09
13	22.64	22.09	21.73	21.85	22.41	22.85	23.60	.....	24.32	.....	25.87	25.06
14	22.60	22.09	21.67	21.86	22.41	22.85	23.63	.....	24.27	.....	25.92	25.07
15	22.40	22.09	21.67	21.92	22.43	22.82	23.65	.....	24.32	.....	25.99	25.00
16	22.41	22.01	21.67	21.94	22.51	22.82	23.63	24.39	24.68	.....	26.03	24.99
17	22.41	21.96	21.65	21.96	22.52	22.85	23.71	24.40	24.98	.....	26.05	24.96
18	22.36	21.96	21.66	22.01	22.54	22.90	23.73	24.46	24.99	.....	26.05	24.88
19	22.20	21.98	21.65	22.00	22.56	22.98	23.74	24.46	24.98	.....	26.11	24.83
20	22.20	21.98	21.63	22.01	22.57	22.93	23.74	24.40	24.94	.....	26.12	24.78
21	22.22	21.99	21.67	22.01	22.56	22.93	23.74	24.38	24.89	.....	26.07	24.60
22	22.22	21.98	21.68	22.00	22.55	22.93	23.73	.....	24.86	.....	25.98	24.60
23	22.20	22.00	21.68	21.96	22.54	22.83	23.72	24.27	24.76	26.35	25.87	24.60
24	22.16	22.01	21.73	22.20	22.52	22.85	23.73	.....	24.74	26.36	25.71	24.55
25	22.25	22.00	21.83	22.21	22.53	22.91	23.76	.....	24.67	26.39	25.66	24.53
26	22.25	21.96	21.84	22.26	22.53	22.94	23.76	.....	24.63	26.40	25.54	24.40
27	22.26	21.91	21.82	22.26	22.45	22.95	.....	.....	24.61	26.37	25.53	24.42
28	22.26	21.93	21.76	22.27	22.40	22.93	.....	.....	24.67	26.26	25.52	24.42
29	22.22	.....	21.68	22.26	22.43	22.92	.....	.....	24.77	26.17	25.49	24.35
30	22.18	.....	21.59	22.22	22.44	22.92	.....	24.18	24.83	26.10	25.46	24.27
31	22.17	.....	21.67	.....	22.47	.....	.....	24.22	.....	26.04	.....	24.26

Fayette County

Fa-1. Martha Slagle. 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 10.80 below lsd, Aug. 27, 1948. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.85	5.54	5.47	5.37	5.97	6.69	6.99	8.14	9.07	9.13	9.73	9.01
2	5.85	5.65	5.50	5.76	5.97	6.77	7.02	8.14	9.04	9.03	9.66	8.92
3	5.76	5.63	5.44	5.45	5.85	7.06	6.93	7.95	9.30	9.08	9.61	8.86
4	5.85	5.61	5.48	5.41	5.85	6.87	6.90	8.15	8.82	9.14	9.64	8.73
5	5.81	5.68	5.53	5.45	.....	6.95	7.08	8.33	9.36	9.17	10.00	8.70
6	5.78	5.73	5.56	5.45	.....	6.86	7.18	8.02	8.91	9.59	9.76	8.64
7	5.71	5.65	5.62	5.38	.....	6.78	7.11	7.99	8.80	9.30	9.60	8.63
8	5.74	5.68	5.61	5.36	.....	7.02	7.33	7.76	8.82	9.34	9.66	8.59
9	5.79	5.80	5.69	5.35	.....	6.92	7.43	7.97	9.04	9.34	9.67	8.41
10	5.84	5.90	5.68	5.37	.....	6.88	7.16	8.47	8.78	9.44	9.65	8.40
11	5.66	5.82	5.63	5.51	6.15	6.98	7.14	8.19	9.02	9.41	9.69	8.23
12	5.70	5.78	5.53	5.43	6.50	6.91	7.58	8.10	8.87	9.39	9.84	8.08
13	5.63	5.80	5.50	5.36	6.33	6.86	7.15	8.25	8.80	9.49	9.66	8.25
14	5.55	5.82	5.47	5.43	6.34	6.89	7.43	8.61	8.78	9.41	9.52	8.09
15	5.49	5.78	5.52	5.53	6.37	6.91	7.20	8.92	8.81	9.48	9.52	7.85
16	5.54	5.69	5.61	5.46	6.36	6.96	7.24	8.87	8.76	9.39	9.51	7.94
17	5.46	5.66	5.61	5.48	6.50	7.26	7.35	8.70	8.78	9.69	9.51	7.87
18	5.42	5.63	5.61	5.50	6.44	7.30	7.32	9.01	8.80	9.56	9.51	7.62
19	5.42	5.57	5.59	5.53	6.63	7.16	7.67	8.79	8.90	9.53	9.50	7.71
20	5.40	5.58	5.54	5.66	6.48	7.10	7.82	8.67	8.90	9.56	9.50	7.41
21	5.57	5.53	5.53	5.66	6.46	7.04	8.13	8.87	9.04	9.56	9.55	7.25
22	5.56	5.61	5.87	5.63	6.49	7.28	7.62	8.75	8.94	9.58	9.45	7.27
23	5.47	5.50	5.52	5.73	6.47	7.12	8.15	8.95	8.93	9.58	9.38	7.20
24	5.44	5.45	5.55	5.79	6.49	7.16	7.68	8.88	8.94	9.53	9.32	7.26
25	5.42	5.42	5.49	5.71	6.72	7.16	7.97	8.59	8.94	9.67	9.28	7.17
26	5.43	5.33	5.52	5.85	6.47	7.83	7.91	8.62	8.96	9.57	9.21	7.09
27	5.44	5.64	5.57	5.77	6.56	7.43	8.13	8.28	8.96	9.58	9.19	7.00
28	5.47	5.43	5.43	5.14	6.48	7.25	8.36	8.23	9.04	9.61	9.17	6.94
29	5.52	.....	5.38	5.73	.....	7.12	8.94	8.29	9.33	9.64	9.15	6.74
30	5.72	.....	5.39	6.36	.....	7.06	9.30	8.59	9.33	9.60	9.34	6.66
31	5.52	.....	5.39	.....	.....	.....	8.14	8.68	.....	10.09	.....	6.62

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 46.50 below lsd, Jan. 31, 1945. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.70	41.12	39.46	38.05	38.41	39.45	40.63	42.26	43.22	43.65	44.20	44.05
2	42.58	41.39	39.51	37.98	38.41	39.45	40.73	42.26	43.21	43.65	44.20	44.05
3	42.28	41.39	39.37	37.95	38.20	39.49	40.74	42.24	43.26	43.70	44.05	44.05
4	42.50	41.13	39.42	38.12	37.89	39.62	40.65	42.34	43.29	43.75	44.20	43.95
5	42.45	41.15	39.42	38.28	37.84	39.70	40.94	42.37	43.30	43.90	44.30	43.95
6	42.31	41.15	39.37	38.28	37.95	39.68	40.97	42.31	43.25	43.90	44.30	43.90
7	42.26	41.05	39.08	38.15	38.04	39.73	40.97	42.17	43.38	43.80	43.95	44.05
8	42.21	41.09	39.18	38.02	38.05	39.70	40.98	42.29	43.42	43.85	44.15	44.10
9	42.21	41.13	39.39	38.06	38.23	39.63	41.04	42.30	43.33	43.85	44.20	44.05
10	42.15	41.13	39.43	38.16	38.24	39.64	41.20	42.46	43.30	44.00	44.15	44.05
11	42.10	40.90	39.30	38.21	38.12	39.79	41.30	42.47	43.40	43.95	44.25	43.85
12	42.12	40.68	39.04	37.92	38.39	39.86	41.35	42.54	43.42	44.05	44.20	43.80
13	42.13	40.77	38.68	37.76	38.66	39.83	41.38	42.60	43.38	44.15	44.00	44.00
14	41.94	41.00	38.48	37.82	38.79	39.88	41.44	42.70	43.48	44.10	43.90	44.00
15	41.46	40.96	38.50	37.93	38.83	39.92	41.44	42.71	43.48	44.05	43.95	44.05
16	41.71	40.66	38.58	38.02	38.75	39.98	41.50	42.72	43.48	44.00	44.05	.....
17	41.61	40.38	38.64	38.05	38.74	40.10	41.59	42.73	43.48	44.00	44.10	44.10
18	41.38	40.37	38.58	38.05	38.83	40.24	41.61	42.78	43.48	44.00	44.10	.....
19	41.40	40.16	38.53	38.18	38.83	40.24	41.64	42.79	43.55	44.00	44.15	43.85
20	41.32	40.05	38.53	38.39	38.79	40.43	41.72	42.79	43.55	44.05	44.20	43.50
21	41.68	38.67	38.46	38.39	38.32	40.49	41.72	42.89	43.55	44.00	44.15	43.65
22	41.68	39.72	38.46	38.25	38.84	40.46	41.76	42.97	43.55	44.10	44.10	43.75
23	41.37	39.69	38.23	38.43	38.90	40.52	41.79	43.01	43.65	44.10	44.00	43.75
24	41.24	39.63	38.35	38.37	38.89	40.60	41.82	43.03	43.60	44.15	44.20	43.80
25	41.20	39.47	38.45	38.07	38.95	40.73	41.88	43.02	43.60	44.25	44.20	43.70
26	41.60	39.18	38.63	38.24	38.96	40.69	41.81	42.99	43.60	44.20	44.10	43.75
27	41.17	39.32	38.50	38.28	38.80	40.63	41.91	42.94	43.65	44.10	44.15	43.75
28	41.19	39.45	38.37	38.15	38.92	40.58	41.97	43.01	43.80	44.10	44.10	43.70
29	41.34		38.24	38.12	39.13	40.55	42.04	43.10	43.80	44.10	44.10	43.30
30	41.43		38.06	38.33	39.13	40.50	42.14	43.15	43.75	44.10	44.10	43.20
31	41.25		38.06		39.45		42.16	43.14		44.15		43.20

Fr-11. City of Columbus. Lat. 39°58'30", long. 82°56'42". Drilled unused test well in gravel, diameter 6 inches, depth 85 feet. Water level responds to pumping in the area. Highest water level 0.20 above lsd, Feb. 14, 1950; lowest 27.0 below lsd, Sept. 12, 1951. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.4	1.4	0.5	0.1	1.6	0.6	5.2	14.2	17.9	18.0	19.0	18.4
2	2.3	1.6	.6	.1	2.0	5.4	6.8	14.3	18.0	18.6	18.7	13.8
3	2.1	1.5	.4	.1	4.2	5.6	8.1	14.5	18.6	18.9	18.0	18.0
4	2.0	1.3	.5	.2	1.9	4.1	5.0	14.6	18.2	19.0	18.6	18.6
5	2.0	1.4	.5	.3	.4	4.0	7.7	14.7	18.3	19.1	18.0	18.8
6	1.9	1.4	.5	.3	.4	4.5	8.2	13.9	18.4	18.7	18.5	19.0
7	1.9	1.4	.4	.2	.3	5.6	9.2	13.9	18.5	15.3	18.8	19.1
8	1.9	1.4	.6	.2	.3	4.4	6.7	14.7	18.6	18.3	19.0	16.2
9	1.9	1.4	.7	.2	.3	2.7	9.0	14.9	18.6	18.6	....	13.5
10	1.8	1.4	.7	.3	.3	1.6	9.3	15.1	26.7	18.8	....	12.7
11	1.9	1.2	.6	.3	.2	6.0	9.3	15.2	26.9	19.0	....	12.1
12	1.9	1.1	.5	.1	.3	4.9	9.4	15.2	27.0	19.1	....	11.7
13	1.8	1.0	.4	.1	.4	5.1	8.9	15.5	25.2	19.1	....	11.5
14	1.6	1.1	.3	.2	.5	5.2	10.1	15.6	26.7	13.5	19.3	11.4
15	1.4	1.1	.4	.3	.4	5.0	10.0	15.7	26.9	18.0	19.3	11.1
16	1.6	.9	.5	.3	.3	5.1	10.0	16.0	20.7	18.3	19.5	11.0
17	1.4	.8	.5	.4	.3	3.7	11.3	16.1	25.1	18.7	19.1	10.7
18	1.3	.7	.5	.3	.3	7.0	11.6	16.2	18.7	18.9	19.3	10.4
19	1.4	.6	.5	.4	.3	7.4	12.0	16.1	19.0	19.1	19.4	10.3
20	...	.6	...	.5	.3	6.1	12.0	16.3	...	18.3	19.3	10.0
21	...	.5	.4	.5	5.1	7.1	12.6	16.6	...	14.9	19.1	10.0
22	1.5	.5	.4	.3	3.7	7.1	12.4	16.7	...	18.3	17.0	9.9
23	1.3	.5	.3	.4	1.7	6.6	12.8	16.8	...	18.7	18.7	9.7
24	1.3	.5	.4	.3	.8	6.1	12.5	16.9	18.4	19.0	18.7	9.6
25	1.3	.3	.4	.2	.7	7.6	12.9	17.0	18.9	19.0	18.8	9.4

Fr-11--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	1.4	0.3	0.6	3.4	0.6	6.7	13.2	17.0	19.1	18.9	19.2	...
27	1.4	.5	.4	.1	.5	6.7	13.4	17.2	19.1	18.5	19.3	9.1
28	1.4	.5	.3	.3	.5	6.6	13.7	17.3	19.3	18.4	19.3	9.0
29	1.5		.2	.3	.6	6.9	13.7	17.5	18.9	18.8	18.8	8.8
30	1.5		.1	2.4	.7	7.1	13.7	17.5	16.3	13.8	18.4	8.6
31	1.4		.1		.7		13.9	17.7		13.9		8.5

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: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	63.89	63.83	63.87	63.51	63.97	63.91	63.82	64.06	64.04	64.02	64.10	64.07
2	63.72	64.17	64.04	63.56	63.93	63.86	63.95	64.08	64.03	63.82	64.09	64.05
3	63.37	64.16	63.76	63.51	63.75	63.82	64.00	64.02	64.16	63.70	63.94	64.01
4	63.84	63.86	63.86	63.56	63.50	63.98	63.79	64.23	64.28	63.76	64.09	63.77
5	63.94	64.00	64.02	63.81	63.62	64.08	64.03	64.28	64.22	63.94	64.45	63.81
6	63.93	63.97	63.94	63.76	63.71	64.06	64.13	64.22	63.92	64.07	64.46	63.66
7	63.91	63.86	63.77	63.58	63.77	63.93	64.06	63.91	64.25	64.00	63.72	63.92
8	63.77	64.11	63.99	63.39	63.75	63.81	63.97	63.77	64.31	64.06	64.06	64.15
9	63.78	64.31	64.36	63.40	63.75	63.67	63.78	63.93	64.18	64.15	64.06	64.08
10	63.71	.....	64.44	63.46	63.85	63.74	63.91	64.06	64.00	64.25	64.07	64.08
11	63.86	.....	64.33	63.57	63.52	63.82	63.96	64.11	64.00	64.15	64.21	63.86
12	64.07	.....	64.10	63.39	63.78	63.83	64.03	64.15	64.06	64.34	64.15	63.64
13	64.09	.....	63.66	63.10	64.15	63.76	64.08	64.17	64.03	64.45	63.65	64.15
14	63.77	.....	63.37	63.28	64.27	63.87	64.10	64.14	64.07	64.38	63.48	64.14
15	63.45	64.40	63.47	63.55	64.23	63.87	64.06	64.10	64.16	64.18	63.80	64.19
16	63.78	64.30	63.74	63.65	64.08	63.84	64.01	64.01	64.18	64.18	63.91	64.37
17	63.46	63.99	63.84	63.75	63.99	63.82	64.09	64.05	64.16	64.25	64.02	64.38
18	63.46	64.00	63.86	63.76	63.99	63.88	64.04	64.06	64.07	64.25	64.08	63.97
19	63.62	63.83	63.78	63.92	63.95	63.86	63.92	64.09	64.09	64.28	64.31	64.21
20	63.43	63.88	63.77	64.10	63.78	63.77	64.04	64.08	64.16	64.26	64.41	63.90
21	64.20	63.87	63.74	64.09	63.66	63.90	64.02	63.92	64.07	64.01	64.27	63.63
22	64.21	64.12	63.81	63.85	63.64	63.73	64.00	64.14	64.00	64.03	63.97	63.97
23	63.86	64.23	64.48	64.07	63.69	63.84	64.12	64.35	64.18	64.11	63.99	64.07
24	63.71	64.19	63.75	64.06	63.69	63.84	64.14	64.37	64.15	64.09	64.31	64.38
25	63.77	64.01	63.86	63.90	63.66	64.05	64.09	63.31	64.07	64.34	64.31	64.33
26	63.80	63.71	64.09	64.09	63.56	63.98	64.09	64.17	64.09	64.25	64.11	64.35
27	63.90	63.81	64.03	64.12	63.28	63.76	64.05	64.03	63.98	64.08	64.27	64.53
28	64.01	64.00	63.70	63.85	63.49	63.83	63.98	64.02	64.36	63.89	64.17	.....
29	64.24		63.51	63.68	63.74	63.86	64.08	64.08	64.44	64.00	64.21	.....
30	64.40		63.40	63.88	63.90	63.77	64.09	64.05	64.28	63.89	64.12	63.81
31	64.21		63.51		64.01		63.97	63.91		64.08		63.79

Geauga County

Ge-2. D. L. Cameron. Lat. 41°25'42", long. 81°11'56". Drilled unused well in gravel, diameter 6 inches, depth 61 feet. Highest water level 9.83 below lsd, May 29, 1947; lowest 15.52 below lsd, Nov. 18, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.77	12.83	11.54	10.36	10.99	12.57	13.30	.....	14.72	15.05	15.21	14.23
2	13.67	.....	11.60	10.42	11.00	12.61	.....	14.17	14.75	15.07	15.29	14.22
3	13.60	.....	.....	10.45	11.03	12.68	13.25	14.17	.....	15.10	15.26	14.20
4	13.16	12.96	.....	10.57	11.12	12.66	13.30	14.17	14.76	15.12	15.30	14.11
5	13.14	.....	.....	10.67	11.33	12.69	13.34	14.18	14.77	15.15	15.32	14.09
6	13.04	12.74	11.02	10.70	11.44	12.72	13.38	14.19	14.79	15.15	15.31	14.05
7	13.01	12.79	11.00	10.64	11.52	12.78	13.43	14.16	14.85	15.12	15.27	14.03
8	13.06	12.83	11.13	10.77	11.61	12.81	13.53	.....	.....	15.12	15.12	13.98
9	13.06	.....	11.39	10.75	11.74	12.81	13.58	.....	.....	15.14	15.13	13.79
10	13.04	.....	11.43	10.73	11.79	12.89	13.58	14.31	.....	15.21	.....	13.64

Ge-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	13.14	12.86	11.38	10.79	11.61	12.97	13.60	14.35	.....	.....	.....	13.55
12	13.15	.....	11.34	10.67	11.47	12.98	13.65	14.37	14.85	.....	.....	13.67
13	13.16	12.22	11.31	10.47	11.46	12.98	13.70	14.38	14.85	.....	.....	13.81
14	12.98	12.17	11.27	10.57	11.52	12.85	13.77	14.40	14.81	.....	15.01	13.80
15	13.00	12.04	11.35	10.59	11.53	12.82	.....	14.40	14.82	.....	15.01	13.82
16	13.12	11.89	11.43	10.63	11.53	12.90	.....	14.48	14.84	15.19	15.05	13.82
17	12.91	11.78	11.45	10.70	11.69	12.98	.....	14.45	14.86	15.19	15.00	13.76
18	12.87	11.60	11.40	10.73	11.80	13.05	13.92	14.48	.....	15.21	14.97	13.79
19	12.67	11.55	11.15	10.84	11.86	13.06	.....	14.50	14.93	15.20	14.94	13.79
20	12.52	11.45	10.82	11.01	11.91	13.08	.....	14.51	14.94	15.23	14.93	13.59
21	12.75	11.36	10.79	11.01	12.05	13.15	.....	14.54	14.95	.....	14.84	13.46
22	12.72	11.40	10.88	10.84	12.02	13.21	.....	14.58	14.97	.....	14.81	13.44
23	12.45	11.42	10.78	10.86	12.11	13.20	.....	14.60	14.98	15.23	14.55	13.42
24	12.47	11.43	10.68	10.81	12.16	13.26	.....	14.62	14.98	15.21	14.44	13.46
25	12.50	11.42	10.76	10.72	12.28	13.27	13.96	14.63	15.00	15.25	14.41	13.38
26	12.54	11.40	10.87	10.86	12.28	13.30	13.99	14.65	15.00	15.23	14.38	13.19
27	12.70	11.61	10.78	10.91	12.27	13.34	14.01	14.67	15.03	15.23	14.36	13.19
28	12.70	11.68	10.74	10.80	12.34	13.33	14.04	14.70	15.05	15.21	14.34	15.08
29	12.76	.....	10.60	10.78	12.52	13.31	14.07	14.72	15.05	15.25	14.34	12.95
30	12.80	.....	10.31	10.92	.....	13.30	14.09	14.73	15.05	15.25	14.28	12.94
31	12.72	.....	10.32	.....	12.54	.....	14.17	14.75	.....	15.29	.....	12.80

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. Water level responds to nearby pumping. Highest water level 1.70 above lsd, May 17, 1945; lowest 10.95 below lsd, Oct. 22, 1946. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.48	5.95	5.80	6.15	6.25	7.40	6.00	8.15	8.90	9.00	9.35	9.40
2	6.40	6.45	6.25	6.35	6.45	7.60	6.55	8.30	8.85	9.05	9.30	9.35
3	6.35	6.00	5.95	6.20	6.50	7.60	6.70	8.30	8.70	9.10	9.35	9.50
4	2.95	6.55	5.05	6.50	6.45	7.35	6.65	8.30	8.75	9.15	9.35	9.35
5	4.55	.....	5.85	6.15	6.10	7.40	6.90	8.20	8.80	9.20	9.65	9.15
6	5.00	6.90	5.95	6.75	5.95	7.45	7.15	7.90	8.70	9.20	9.60	9.00
7	5.25	6.80	6.15	6.35	6.50	7.65	7.20	8.10	8.60	9.20	9.40	8.70
8	5.65	6.85	6.35	6.25	6.65	7.50	7.20	8.20	8.60	9.05	9.40	8.50
9	5.90	6.95	6.30	6.55	6.85	7.35	7.30	8.20	8.40	.....	9.50	7.70
10	6.00	6.70	6.00	6.10	6.40	7.30	7.40	8.35	8.60	9.05	9.40	7.80
11	5.80	6.80	6.30	6.15	6.15	7.50	7.35	8.45	8.60	9.10	9.40	8.00
12	5.60	6.05	6.00	5.65	6.70	7.20	7.00	8.45	8.80	9.15	9.60	8.20
13	5.70	3.80	.....	5.90	6.55	7.10	7.00	8.70	8.70	9.10	9.60	8.30
14	5.80	5.25	.....	5.50	6.80	7.55	7.25	8.75	8.70	8.90	9.20	8.50
15	3.50	5.80	6.10	5.85	7.00	7.50	7.20	8.90	8.70	9.20	9.10	8.45
16	4.50	6.00	6.20	6.00	7.10	7.45	7.40	9.00	8.55	9.20	9.20	8.60
17	4.80	5.55	6.30	6.20	7.15	7.40	7.45	8.85	8.75	9.25	9.25	8.50
18	5.05	5.25	5.90	6.40	7.20	7.70	7.55	8.70	8.85	9.25	9.30	8.90
19	5.10	5.85	6.30	6.50	7.35	7.75	7.75	8.65	8.80	9.30	9.50	9.00
20	5.30	5.25	6.40	6.70	7.30	7.70	7.75	8.65	8.85	9.35	9.50	9.00
21	5.40	2.40	6.30	6.60	7.30	7.90	7.75	8.70	9.00	9.10	9.65	8.45
22	.....	4.05	6.30	6.30	7.30	7.30	7.70	7.75	8.70	9.00	9.30	8.10
23	.....	5.20	6.35	6.75	6.95	7.10	7.65	8.75	8.70	9.35	9.30	7.90
24	5.40	5.50	6.25	6.80	7.45	7.10	7.60	8.75	8.90	9.15	9.00	7.95
25	5.55	5.20	6.35	7.05	7.40	7.45	7.70	8.85	8.95	9.25	8.70	8.20
26	5.60	5.55	6.00	6.90	7.10	7.50	7.95	8.85	8.85	9.20	9.00	7.45
27	5.80	5.75	6.55	7.10	7.05	7.45	8.00	8.65	8.85	9.20	9.10	7.60
28	5.85	6.05	6.30	6.50	7.00	6.40	8.00	8.50	8.90	9.15	9.00	7.90
29	.....	.....	6.00	5.40	7.00	6.15	8.00	8.50	8.90	9.25	9.20	8.00
30	5.90	.....	6.60	6.65	7.10	6.10	8.00	8.75	8.50	9.40	9.40	7.50
31	6.05	.....	5.60	.....	7.20	.....	8.20	8.90	.....	9.40	.....	6.90

Hamilton County

207-3. Village of Glendale. Waterworks, Sharon Ave. and Mosteller Rd. Drilled unused well in gravel, diameter 8 inches, depth 167 feet. Highest water level 13.35 below lsd, Apr. 29, 1939; lowest 67.3 below lsd, Dec. 24, 1951. Records available: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.6	52.7	50.6	51.6	51.1	52.9	56.0	57.1	59.6	60.8	62.2	64.1
2	59.6	52.8	50.6	50.6	51.0	53.0	54.1	57.4	58.7	61.1	61.8	63.6
3	58.3	52.5	49.9	50.2	51.2	54.9	54.3	57.2	58.9	60.2	62.3	63.6
4	59.0	51.1	52.1	50.3	51.2	53.1	55.3	58.2	58.9	60.6	61.4	64.0
5	57.9	51.8	50.2	50.6	51.7	53.4	54.6	56.7	58.1	60.6	60.9	64.4
6	58.0	54.8	50.3	50.5	50.2	53.8	54.5	57.1	58.6	61.0	62.6	64.4
7	57.6	52.2	50.1	49.6	53.8	54.2	54.5	57.4	59.0	62.0	63.0	64.1
8	49.7	55.1	50.1	49.3	51.9	53.2	53.1	57.4	59.1	62.6	63.0	64.1
9	60.4	52.4	50.4	49.8	51.6	53.8	54.0	57.9	58.2	60.9	63.7	63.8
10	57.5	51.9	50.2	49.7	51.5	52.4	54.6	58.5	61.0	60.8	62.4	66.8
11	57.5	51.2	49.3	50.0	51.6	53.6	54.5	57.8	59.8	60.7	61.6	65.5
12	57.3	51.5	50.0	50.0	51.5	53.8	54.6	59.4	59.1	61.5	65.0	64.0
13	57.2	51.5	49.6	50.0	50.8	53.6	55.0	57.4	59.2	61.4	61.5	64.5
14	55.3	51.8	49.6	50.1	51.6	53.4	57.6	58.1	60.1	60.0	62.7	64.5
15	54.3	51.7	49.6	49.6	51.5	54.2	54.2	58.8	59.3	61.1	63.2	64.7
16	54.7	51.2	49.6	50.6	51.9	55.6	55.3	58.1	58.6	61.2	63.0	63.4
17	54.4	51.3	52.3	50.5	51.9	55.4	55.2	58.6	59.2	61.3	63.5	64.2
18	54.1	52.8	48.7	53.4	54.2	53.9	55.8	58.6	60.3	61.4	62.0	64.0
19	54.2	50.6	49.3	50.5	52.2	54.1	55.4	57.4	59.7	61.5	63.3	64.8
20	53.5	54.6	50.0	50.9	53.0	54.0	55.7	58.2	60.1	61.2	63.5	64.4
21	55.7	51.0	49.7	50.6	52.4	54.1	56.2	59.0	60.9	60.4	63.0	65.0
22	53.0	51.1	49.7	49.5	52.0	54.5	55.2	60.3	60.2	61.1	62.1	64.9
23	53.6	51.0	49.7	51.0	52.5	54.5	56.5	58.7	61.3	61.2	63.3	63.5
24	53.6	50.8	49.7	50.8	52.7	53.2	56.3	59.0	60.4	64.3	64.3	67.3
25	53.2	49.6	48.7	51.4	52.3	54.2	57.0	59.0	61.2	64.4	65.5	64.7
26	53.2	50.0	49.6	51.4	51.7	54.5	56.9	60.5	60.1	61.6	65.6	64.1
27	53.1	50.7	49.7	51.1	50.7	54.8	56.4	59.0	61.2	61.5	64.2	64.9
28	51.9	50.7	50.8	51.0	52.4	55.3	57.1	59.4	61.0	60.8	63.8	64.4
29	53.5		49.7	50.4	52.3	55.0	57.4	59.4	60.9	61.3	64.1	64.1
30	53.1		49.9	50.7	52.5	57.1	57.0	59.9	59.6	61.7	64.3	62.8
31	52.9		49.8		52.9		57.2	60.0		62.6		64.4

216-E. Electric Auto Lite Plant. Lat. 39°14'56", long. 84°26'20". Drilled unused well in gravel, diameter 6 inches, depth 180 feet. Highest water level 42.93 below lsd, Apr. 9, 1941; lowest 77.90 below lsd, May 14, 1943, Dec. 20, 1951. Records available: 1941-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.65	72.55	71.95	71.25	70.95	72.75	72.05	73.70	73.55	74.80	77.05	77.05
2	73.45	72.90	71.45	71.10	70.75	72.15	72.10	73.25	73.50	74.60	76.85	76.95
3	73.10	72.85	71.10	70.90	70.40	72.15	72.00	72.80	73.50	74.45	76.40	76.80
4	73.60	72.40	71.25	70.85	70.05	72.20	71.65	72.90	73.50	74.60	76.35	76.65
5	73.65	72.40	71.30	70.90	70.15	71.95	71.85	72.85	73.40	74.90	76.50	76.70
6	73.45	72.40	71.20	70.80	70.20	71.75	71.90	72.65	73.15	75.05	76.45	76.80
7	.....	72.45	70.95	70.45	70.30	71.45	71.75	72.35	73.40	75.85	75.80	77.10
8	73.35	72.50	70.20	70.20	70.25	71.15	71.50	72.25	73.45	74.95	76.30	77.20
9	73.35	72.55	71.40	70.25	70.60	71.10	71.40	72.30	73.25	74.90	76.30	77.10
10	73.25	72.55	71.45	70.35	70.10	71.10	71.50	72.40	73.00	74.85	76.15	77.10
11	73.35	72.20	71.25	70.75	70.00	71.10	71.50	72.40	73.00	74.75	76.05	76.80
12	73.40	71.90	70.85	70.05	70.15	71.10	71.45	72.40	73.20	74.85	75.90	76.55
13	73.35	72.20	70.45	70.00	70.30	71.00	71.50	72.40	73.20	74.90	75.60	77.00
14	73.10	72.50	70.35	70.10	70.50	71.05	71.45	72.35	73.30	74.80	75.75	77.00
15	72.95	72.50	70.60	70.30	70.75	71.00	71.35	72.30	73.65	74.60	76.15	77.15
16	73.30	72.10	70.75	70.35	70.75	70.90	71.40	72.20	73.80	76.25	76.40	77.25
17	73.10	71.85	70.80	70.40	70.75	70.80	71.50	72.25	73.90	76.70	76.65	77.15
18	72.85	71.85	70.70	70.25	70.90	70.95	71.75	72.25	73.95	76.80	76.70	76.75
19	72.90	71.65	70.70	70.20	70.95	71.20	71.60	72.30	74.10	77.05	76.75	77.10
20	72.85	71.65	70.70	70.40	70.90	71.45	71.60	72.30	74.20	77.05	76.85	77.90
21	73.35	71.75	70.55	70.30	71.00	71.65	71.55	72.70	74.25	77.15	76.75	77.05
22	73.35	71.90	70.55	70.15	71.00	71.60	71.45	72.95	74.30	77.20	76.60	77.45
23	72.95	71.95	70.50	70.55	71.20	71.85	71.50	73.15	74.55	75.75	76.55	77.55
24	72.75	71.90	71.15	70.60	71.30	71.95	71.55	73.25	74.55	76.50	76.45	77.75
25	72.75	71.60	71.20	70.55	71.35	72.15	72.30	73.30	74.45	76.70	76.95	77.55

216-E--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	72.80	71.20	71.05	71.00	71.30	72.05	72.75	73.25	74.55	76.65	76.95	77.55
27	72.65	71.40	71.00	71.10	71.20	72.40	72.90	73.15	74.75	76.50	77.05	77.80
28	72.75	71.40	71.00	71.90	72.00	72.70	73.15	73.40	75.05	76.70	77.05	77.70
29	72.95		70.90	70.75	72.55	72.40	73.50	73.55	75.10	76.90	77.10	77.10
30	73.05		71.20	70.75	72.85	72.20	73.65	73.55	74.95	76.80	77.10	76.95
31	72.80		71.35		73.00		73.70	73.50		77.15		76.95

237-3. Village of Wyoming. Waterworks plant, Vine and Water Sts. 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: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	144.40	145.00	144.85	144.55	145.60	146.60	145.80	146.75	147.30	146.90	147.35	.....
2	144.85	145.55	144.75	144.80	145.50	146.75	146.20	146.45	.....	147.10	147.25	.....
3	144.80	145.30	144.60	145.00	145.20	146.10	146.15	146.55	147.45	146.95	147.10	147.20
4	145.40	144.80	144.85	144.95	145.25	146.90	146.75	146.95	147.50	147.05	147.30	147.20
5	145.35	145.20	144.95	145.25	145.15	145.00	146.25	147.15	147.40	147.00	147.85	146.85
6	145.25	144.75	144.60	145.00	145.20	144.00	146.30	146.65	147.25	147.05	147.25	146.85
7	.....	145.35	144.70	144.70	145.45	145.60	146.20	146.40	147.45	147.15	147.55	147.30
8	145.35	145.40	144.75	144.60	145.55	145.90	146.00	146.25	147.45	147.05	147.65	147.50
9	145.25	145.45	145.20	144.85	145.40	145.90	146.35	146.40	147.15	147.35	147.65	147.40
10	144.95	145.30	145.20	144.95	145.20	145.65	146.50	146.70	146.55	.....	147.75	147.50
11	145.35	144.95	144.95	144.95	144.90	145.85	146.25	146.75	147.10	.....	147.60	147.00
12	145.45	144.90	144.50	144.55	145.45	145.95	146.25	146.45	147.25	.....	147.25	147.00
13	145.25	145.10	144.20	144.65	145.50	145.75	146.15	146.70	147.15	.....	146.90	147.45
14	144.45	145.55	144.35	144.80	145.75	145.90	146.05	146.70	146.90	.....	147.05	146.70
15	144.90	145.30	144.75	144.85	145.80	145.80	146.10	146.80	147.20	.....	147.35	147.80
16	145.20	145.90	144.95	145.40	145.60	145.75	146.35	146.80	147.15	.....	147.40	147.85
17	144.75	144.95	144.80	145.15	145.60	145.65	146.05	146.95	147.00	.....	147.55	147.50
18	144.85	144.80	144.65	145.05	145.80	146.10	146.05	147.10	147.30	.....	147.45	147.15
19	144.90	144.95	145.05	145.15	145.65	146.00	146.30	146.90	147.20	.....	147.80	147.35
20	144.70	144.65	144.95	145.45	145.30	145.95	146.45	146.90	147.15	.....	147.85	146.60
21	145.35	145.00	144.85	145.30	145.21	146.05	146.35	147.30	147.30	.....	147.65	147.05
22	145.25	144.90	144.75	144.90	145.25	146.05	146.45	147.35	147.05	.....	147.35	147.35
23	144.95	145.00	144.30	145.75	145.50	146.05	146.55	147.35	147.25	147.25	147.45	147.10
24	145.00	145.00	144.80	145.50	145.30	145.90	146.60	147.45	147.20	147.55	147.80	147.70
25	145.15	144.65	144.75	145.25	145.30	146.35	146.30	147.35	147.00	147.65	147.40	146.90
26	145.05	144.60	145.00	145.50	144.90	146.15	146.35	147.25	146.95	147.25	147.60	147.75
27	145.00	145.05	144.80	145.50	144.85	146.10	146.35	147.35	147.05	147.20	147.60	147.90
28	144.95	144.65	144.85	145.40	145.55	146.10	146.30	147.00	147.30	147.20	.....	147.05
29	145.55	144.95	144.80	145.10	146.25	146.10	146.25	147.05	147.45	147.25	.....	147.95
30	145.60		144.50	145.30	146.65	145.75	146.30	146.90	147.15	147.20	.....	146.70
31	145.00		144.80		146.50		146.55	146.95		147.40		146.75

241-3. Gardner-Richardson Co. South Cooper Ave., Lockland. 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: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	130.60	130.80	130.50	130.20	129.85	129.65	129.20	129.80	130.05	129.70	130.25	130.00
2	130.40	131.10	130.60	130.20	129.80	129.55	129.25	129.80	130.05	129.50	130.25	129.90
3	130.05	131.05	130.20	130.15	129.60	129.45	129.20	129.85	130.05	129.55	130.25	129.80
4	130.50	130.60	130.45	130.25	129.40	129.40	128.95	130.05	130.00	129.70	130.40	129.75
5	130.65	130.65	130.50	130.35	129.65	129.45	129.15	130.10	129.85	129.90	130.55	129.75
6	130.50	130.65	130.40	130.25	129.75	129.40	129.20	129.95	129.70	130.00	130.45	129.80
7	.....	130.85	130.30	130.00	129.85	129.30	129.10	129.65	129.90	129.95	130.05	130.30
8	130.60	131.00	130.65	129.95	129.80	129.20	128.90	129.75	129.95	130.05	130.30	130.45
9	130.60	131.05	130.90	130.00	129.75	129.25	128.85	129.90	129.75	130.05	130.35	130.40
10	130.55	131.05	130.90	130.20	129.65	129.30	129.05	130.05	129.55	130.10	130.30	130.35
11	130.80	130.80	130.65	130.25	129.60	129.30	129.10	130.10	129.70	130.05	130.30	130.00
12	130.90	130.60	130.30	129.95	129.75	129.30	129.20	130.10	129.70	130.25	130.05	130.05
13	130.90	131.00	129.85	130.00	129.90	129.45	129.25	130.05	129.65	120.35	129.75	130.45
14	130.70	131.30	130.00	130.15	130.00	129.45	129.30	130.00	129.75	130.25	129.85	130.40
15	130.65	131.25	130.30	130.30	129.90	129.40	129.30	129.90	129.75	130.00	130.05	130.75

241-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	131.00	130.90	130.45	130.40	129.65	129.35	129.25	129.85	129.75	129.95	130.20	130.75
17	130.75	130.75	130.50	130.40	129.45	129.30	129.30	129.95	129.75	130.10	130.40	130.60
18	130.75	130.75	130.40	130.25	129.50	129.30	129.35	130.05	129.60	130.10	130.40	130.25
19	130.85	130.60	130.40	130.25	129.45	129.25	129.35	130.10	129.60	130.20	130.30	130.40
20	130.75	130.60	130.40	130.40	129.35	129.25	129.50	129.95	129.65	130.15	130.35	130.00
21	131.30	130.80	130.30	130.30	129.30	129.30	129.55	.....	129.65	130.10	130.20	130.35
22	131.30	131.00	130.35	130.25	129.25	129.20	129.50	.....	129.65	130.05	130.10	130.50
23	130.80	131.00	130.05	130.30	129.40	129.35	129.50	.....	129.85	130.10	129.85	130.60
24	130.75	130.90	130.35	130.15	129.45	129.40	129.55	130.25	129.65	130.40	129.10	130.70
25	130.85	130.65	130.35	129.80	129.40	129.40	129.50	130.25	129.60	130.50	129.10	130.35
26	130.90	130.30	130.45	130.10	129.30	129.20	129.60	130.05	129.60	130.35	130.00	130.45
27	130.80	130.45	130.25	130.10	129.15	129.20	129.60	129.85	129.75	130.15	130.05	130.55
28	130.85	130.50	130.00	129.80	129.35	129.15	129.60	129.95	130.00	130.05	130.00	130.30
29	131.05		129.80	129.70	129.60	129.20	129.70	130.05	130.05	130.10	130.15	129.80
30	131.10		130.15	129.75	129.70	129.10	129.60	130.05	129.85	129.95	130.10	129.90
31	130.75		130.25		129.75		129.55	129.95		130.20		129.85

246-1. National Distillers Corp. Wayne Ave., and 78th Sts., Carthage. 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: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	111.2	109.7	108.6	107.8	107.3	110.6	111.8	117.1	117.3	118.1	120.4	114.5
2	111.1	109.9	108.7	107.7	107.2	110.8	115.4	117.4	116.0	118.8	120.7	114.2
3	110.8	109.8	108.4	107.7	107.1	109.8	115.8	116.6	115.8	119.1	119.7	113.3
4	111.0	109.4	108.6	107.7	107.1	109.6	113.3	115.4	118.7	119.2	117.9	114.3
5	111.0	109.5	108.5	107.8	107.9	109.6	113.4	114.3	119.1	119.8	119.2	116.3
6	110.9	109.4	108.4	107.7	108.8	109.6	113.8	116.4	119.3	119.8	119.0	113.0
7	.....	109.5	108.4	107.5	107.8	109.6	113.9	116.2	119.8	117.8	117.6	113.0
8	110.7	109.5	108.5	107.5	107.8	109.6	112.8	116.4	117.0	118.6	117.6	113.1
9	110.7	109.4	108.6	107.5	108.0	109.6	116.1	116.9	117.3	118.8	116.6	112.9
10	110.6	109.4	108.5	108.9	108.0	109.8	116.6	116.9	118.2	117.9	116.9	112.9
11	110.6	109.1	108.3	107.6	108.2	109.8	114.6	115.9	118.5	118.2	116.6	113.5
12	110.6	109.1	108.1	107.4	109.3	109.9	117.2	115.0	119.3	118.2	116.2	112.5
13	110.5	109.3	108.0	107.4	110.1	110.3	115.2	116.8	119.4	117.8	116.2	112.6
14	110.3	109.4	108.0	107.5	108.7	110.4	114.0	117.1	119.9	117.6	116.4	112.6
15	110.4	109.3	108.2	107.6	108.7	110.4	113.5	117.0	119.9	116.8	116.4	112.6
16	110.5	109.1	108.2	107.6	108.6	110.6	116.5	117.3	118.7	117.9	116.3	112.6
17	110.2	109.0	108.2	107.6	108.6	110.4	117.2	117.5	116.6	120.5	115.3	112.4
18	110.2	109.0	108.2	107.5	109.3	110.6	117.2	116.4	119.2	120.6	115.3	112.2
19	110.2	108.9	108.2	107.6	109.7	111.5	117.2	115.4	118.7	119.9	115.9	112.2
20	110.2	108.9	108.1	107.6	109.6	111.8	117.3	116.7	118.0	118.9	115.9	112.0
21	110.4	109.0	108.0	107.6	108.7	111.0	115.1	118.6	119.0	118.8	115.7	112.0
22	110.3	109.0	108.1	107.6	108.9	110.9	114.4	118.6	119.1	117.5	114.6	112.0
23	109.9	109.0	107.9	107.6	108.9	111.1	116.9	118.8	117.8	119.4	115.4	112.0
24	109.9	108.9	108.0	107.5	109.0	110.8	117.4	119.1	118.3	117.9	114.9	112.1
25	109.9	108.7	108.0	107.3	109.3	110.9	117.1	117.7	119.0	120.6	114.2	111.8
26	109.9	108.6	108.1	107.4	110.2	110.9	117.0	115.6	120.9	120.1	115.3	111.9
27	109.8	109.7	107.9	107.7	110.5	111.0	117.0	118.2	121.2	119.0	115.2	111.9
28	109.8	108.7	107.8	107.3	109.8	111.2	116.3	119.1	119.4	117.4	115.1	111.8
29	109.9		107.7	107.2	109.2	111.3	114.4	119.0	118.8	119.8	115.1	111.5
30	109.9		107.8	107.2	110.7	111.3	116.6	119.3	117.9	119.5	114.1	111.4
31	109.7		107.8		110.2		117.1	119.7		118.0		111.4

270-T-7. Procter & Gamble Co. Vine St., Ivorydale. 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: 1939-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	123.15	Apr. 9	121.44	July 9	122.63	Oct. 15	125.42
15	122.41	16	121.58	16	122.23	22	125.58
22	123.00	23	121.53	23	122.53	29	125.66
29	122.70	30	121.30	30	123.02	Nov. 5	126.00
Feb. 5	122.45	May 7	121.35	Aug. 6	123.42	12	125.70
19	122.05	14	121.44	13	123.69	19	125.76
26	121.92	21	121.18	Sept. 3	124.28	26	125.26
Mr. 5	122.03	28	121.70	10	124.38	Dec. 3	125.51
12	121.77	June 4	121.93	18	124.83	10	125.07
19	121.90	11	122.13	25	125.10	17	124.57
26	121.76	18	122.42	Oct. 1	125.01	31	123.34
Mr. 2	121.59	July 2	123.23	8	125.35		

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 6.73 below lsd, Nov. 5-6, 1951. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.92	....	1.48	1.20	1.48	3.30	2.62	4.04	5.62	6.19	6.53	4.45
2	2.86	....	1.57	1.36	1.53	3.34	2.78	4.05	5.66	6.18	6.53	4.52
3	.87	....	1.49	1.49	1.59	3.34	2.83	4.08	5.74	6.29	6.50	4.53
4	.86	....	1.68	....	1.77	3.42	2.82	....	5.78	6.28	6.66	4.48
5	1.07	....	1.79	1.78	2.02	3.53	2.34	....	5.77	6.06	6.73	4.14
6	1.37	....	1.76	1.82	2.24	3.53	....	....	5.70	6.02	6.73	3.97
7	1.47	....	1.76	1.83	2.40	3.53	....	4.09	....	6.01	5.10	2.92
8	1.94	....	1.93	1.83	2.56	3.52	....	4.17	5.83	5.77	5.47	3.08
9	1.84	....	2.14	1.71	2.71	3.14	....	4.25	5.80	5.98	5.77	2.72
10	1.90	....	2.22	1.16	2.70	3.27	3.06	4.32	5.74	6.11	5.93	2.46
11	1.95	....	2.23	1.29	.83	3.35	3.08	4.34	5.68	6.23	6.07	2.57
12	2.02	....	2.22	1.08	....	3.38	3.05	4.42	5.71	6.32	6.07	2.82
13	2.06	....	....	.97	1.44	3.38	3.22	4.53	5.75	6.37	6.04	3.08
14	1.99	....	.66	.86	1.64	3.10	3.28	4.62	5.05	6.38	4.20	....
15	1.16	....	.63	1.00	1.78	3.15	3.34	4.68	5.28	6.42	4.45	3.34
16	1.33	....	1.09	1.27	1.92	3.22	3.41	4.79	5.51	6.47	4.45	....
17	1.30	....	1.29	1.44	2.16	3.31	3.47	4.86	5.65	6.50	4.51	3.32
18	.98	....	1.44	1.46	2.34	3.37	3.50	4.92	5.78	6.51	4.62	3.34
19	.71	....	1.54	1.72	2.49	3.39	3.61	4.98	5.90	6.55	4.95	3.43
20	.93	....	1.58	1.85	2.57	2.86	3.69	5.03	5.96	6.55	5.09	3.33
21	1.46	....	1.52	1.86	2.64	2.98	3.71	5.07	5.98	6.56	5.11	3.08
22	1.54	....	1.58	1.98	2.70	2.97	3.82	5.17	5.88	6.58	5.13	2.57
23	1.64	....	1.32	2.08	2.82	2.93	3.82	5.23	6.08	6.58	4.71	2.72
24	1.98	....	....	2.12	2.92	2.98	3.76	5.26	6.09	5.74	4.59	2.80
25	2.13	....	....	2.22	3.02	2.43	....	5.27	6.05	5.66	4.57	2.76
26	2.23	....	....	2.16	3.02	2.48	....	5.27	5.99	5.96	4.34	1.73
27	2.44	1.42	1.58	2.20	2.98	2.62	3.83	5.30	6.10	6.10	4.38	1.90
28	2.55	1.63	1.58	2.20	3.10	2.64	3.82	5.37	6.22	6.16	4.38	1.94
29	2.71	....	.67	1.78	3.20	2.24	3.94	5.41	6.25	6.29	4.42	2.00
30	2.78	....	.61	1.26	3.27	2.40	3.99	5.43	6.22	6.36	4.42	.81
31	....	....	.97	....	3.29	....	3.99	5.51	....	6.48	....	.62

Hardin County

Hn-1. Village of Alger. Lat. 40°42'15", long. 83°50'08". Drilled unused well in limestone, diameter 6 inches, depth 140 feet. Highest water level 4.35 below lsd, Apr. 15, 1951; lowest 14.30 below lsd, Oct. 6, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	....	6.78	7.95	8.73	8.40	10.56	....	13.70	13.70	....
2	....	....	....	6.96	7.95	8.80	8.55	10.55	....	13.80	13.65	....
3	....	....	....	6.91	7.63	8.70	8.59	10.54	....	13.90	13.75	....
4	....	....	....	6.88	7.60	8.60	8.52	10.61	....	14.10	....	....
5	....	....	....	6.43	7.70	8.55	8.59	....	....	14.25	....	12.40
6	....	....	....	7.10	7.63	8.54	9.05	....	....	14.30	14.15	12.40
7	....	....	7.34	7.01	7.82	8.55	8.77	....	....	13.70	....	12.35
8	....	....	7.45	6.91	7.85	8.43	8.63	....	....	13.40	....	12.15
9	8.60	....	7.49	6.91	7.97	8.41	8.72	....	....	13.25	13.65	11.90
10	8.83	....	7.53	6.95	7.88	8.43	9.01	....	....	13.55	13.60	12.00
11	8.78	....	7.50	7.02	7.63	8.73	8.80	....	12.90	13.40	....	12.05
12	....	....	7.48	6.93	7.77	8.75	8.82	....	13.10	13.65	....	11.70
13	....	....	7.54	6.95	7.70	9.02	8.87	....	13.15	13.30	....	11.75
14	....	....	7.45	6.76	7.96	7.06	8.91	....	13.15	13.45	....	11.65
15	....	....	7.33	7.26	8.03	7.96	8.93	....	13.30	13.25	....	11.60
16	....	....	7.38	7.45	8.01	8.12	9.16	....	13.30	13.65	....	11.60
17	8.75	....	7.33	7.21	7.95	8.61	9.15	....	13.25	13.90	....	....
18	7.86	....	7.34	7.21	8.01	8.39	9.28	....	13.45	14.10	....	....
19	7.70	....	7.26	7.03	7.93	8.48	9.38	....	13.60	13.65	....	....
20	7.76	....	7.43	7.26	7.97	8.55	9.43	....	13.60	13.80	....	12.05

290 WATER LEVELS AND ARTESIAN PRESSURES, 1951, NORTHEASTERN STATES

Hn-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	7.34	7.20	7.99	8.74	9.63	.....	13.65	13.45	.....	.....
22	7.28	7.22	8.11	8.48	9.72	.....	13.65	13.50	13.65	.....
23	7.15	7.41	7.91	8.42	9.58	.....	13.60	13.55	.....	.....
24	7.16	7.51	8.01	8.36	9.45	.....	13.10	13.70	.....	11.35
25	7.14	7.60	8.19	8.43	9.85	.....	13.65	13.55	.....	11.20
26	7.41	7.66	8.06	8.43	9.88	.....	13.65	13.45	.....	11.20
27	7.34	7.75	8.01	8.48	9.67	.....	13.90	13.35	.....	11.25
28	7.06	7.63	8.06	8.87	9.98	.....	14.10	13.40	.....	11.00
29	7.15	7.55	8.22	8.80	10.10	.....	14.05	13.50	.....	10.90
30	6.90	7.65	....	8.40	12.20	13.30	13.30	13.45	.....	10.55
31	6.94	....	8.56	....	10.40	.....	....	13.60	....	10.15

Hn-2. E. Abaler. Lat. 40°46'56", long. 83°41'30". Drilled unused well in limestone, diameter 4 inches, depth 50 feet. Highest water level 7.12 below lsd, Apr. 13, 1951; lowest 25.10 below lsd, Dec. 29, 1946. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	9.22	....	7.81	7.91	8.27	8.29	9.00	10.24	11.28	12.55	12.75
2	10.26	....	....	7.80	7.85	8.06	8.42	9.06	10.29	11.20	12.55	12.85
3	10.16	....	....	7.77	7.67	8.01	8.42	9.15	10.55	11.28	....	12.85
4	10.45	9.44	....	7.90	7.51	8.14	8.17	9.36	10.59	11.33	12.88	12.71
5	10.43	....	....	8.16	7.70	8.18	8.36	9.48	10.55	11.60	....	12.71
6	10.29	....	....	8.04	7.82	8.15	8.43	9.38	10.38	11.72	12.33	12.61
7	10.26	9.69	8.30	7.85	7.88	8.02	8.43	9.28	10.77	11.74	12.32	12.81
8	10.10	9.80	8.53	7.70	7.88	7.85	8.30	9.32	10.80	11.86	12.68	12.89
9	10.16	....	8.83	7.69	7.91	7.78	8.12	9.47	10.65	11.88	12.68	12.58
10	10.17	....	8.83	7.78	7.96	7.93	8.30	9.60	10.57	11.94	12.71	12.55
11	10.42	9.97	8.68	7.75	7.88	8.06	8.31	9.67	10.71	11.90	12.88	12.73
12	10.43	....	8.44	7.46	8.37	8.12	8.30	9.75	10.71	12.09	12.69	12.77
13	10.48	9.95	....	7.31	8.93	8.05	8.35	9.77	10.69	12.14	12.45	....
14	10.13	10.27	7.96	7.44	9.08	8.12	8.42	9.74	10.75	12.09	12.39	....
15	9.87	10.26	8.06	7.69	9.08	8.12	8.36	9.63	10.88	11.93	12.59	13.09
16	10.12	10.09	8.35	7.86	8.98	8.10	8.33	9.60	10.90	11.89	12.68	....
17	9.87	9.86	8.42	7.81	8.82	8.13	8.32	9.78	10.90	11.99	12.80	....
18	9.78	9.84	8.45	7.74	8.80	8.17	8.32	9.84	10.86	12.00	12.85	....
19	9.71	9.84	8.54	7.85	8.66	8.12	8.30	9.88	10.99	12.13	13.07	....
20	9.60	9.82	8.54	7.97	8.44	8.05	8.44	9.87	11.12	12.08	....	....
21	10.15	9.63	8.48	7.95	8.27	8.13	8.44	9.69	11.14	11.93	12.92	12.94
22	10.11	9.70	8.46	7.95	8.22	7.96	8.51	9.93	11.18	12.00	12.73	....
23	9.50	9.77	8.15	8.05	8.27	8.16	....	10.10	11.31	12.05	12.65	....
24	9.43	9.73	8.24	8.01	8.31	8.21	....	10.17	11.26	12.31	....	....
25	9.47	9.58	8.42	7.79	8.27	8.26	....	10.17	11.21	12.50	12.86	....
26	9.36	....	8.52	7.96	8.22	8.13	....	9.97	11.21	12.47	....	13.14
27	9.51	....	8.32	7.96	7.90	8.01	....	9.90	11.23	12.26	12.71	....
28	9.57	....	8.12	7.82	8.03	8.14	....	9.98	11.54	12.20	....	....
29	9.91	....	7.91	7.69	8.26	8.16	....	10.04	11.65	12.35	12.75	12.36
30	10.02	....	7.90	7.94	8.26	8.16	....	10.04	11.55	12.28	12.73	12.18
31	9.82	....	7.90	....	8.28	....	8.85	9.96	....	12.50	....	12.05

Henry County

Hn-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 22.29 below lsd, Nov. 21, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 26	20.47	Aug. 15	21.30	Oct. 3	21.85	Nov. 21	22.29
July 4	20.48	19	21.66	10	21.92	28	22.25
11	20.62	22	21.44	17	22.03	Dec. 5	22.03
18	20.73	29	21.45	24	22.04	12	22.00
25	20.94	Sept. 5	21.59	31	22.15	19	21.85
Aug. 1	21.06	12	21.69	Nov. 7	22.20	26	21.90
8	21.23	26	21.78	14	22.24	....	....

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 16.64 below lsd, Feb. 13, 1947. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	14.59	14.15	13.94	13.98	.....	.....	.....	.....	.....	15.96
2	.....	.....	.....	.....	.....	.....	14.07	.....	.....	15.54	.....	15.96
3	.....	.....	.....	.....	.....	13.98	14.08	14.94	15.22	.....	.....	15.95
4	.....	.....	.....	.....	13.81	14.00	14.06	.....	.....	.....	15.90	15.91
5	.....	14.92	14.54	.....	13.83	14.01	14.08	.....	.....	15.59	.....	15.88
6	15.25	14.92	14.54	.....	13.87	14.02	14.13	.....	.....	15.61	.....	15.87
7	15.25	14.81	14.48	.....	13.88	14.00	14.14	.....	.....	15.59	.....	15.86
8	15.22	14.83	14.50	.....	13.89	.....	14.13	.....	.....	15.62	15.88	.....
9	15.23	14.86	14.55	14.13	13.89	.....	14.14	.....	.....	15.67	.....	.....
10	15.23	14.87	14.58	14.14	13.89	.....	14.40	.....	.....	15.69	.....	.....
11	15.22	.....	14.57	14.16	13.78	14.06	14.41	.....	.....	15.69	15.88	.....
12	15.25	.....	14.54	14.12	.....	14.07	14.42	.....	15.18	15.74	.....	.....
13	15.26	14.77	14.44	14.07	.....	14.06	14.45	14.79	15.18	.....	.....	.....
14	15.23	14.85	14.32	14.07	.....	14.02	14.46	14.81	15.22	.....	.....	.....
15	15.02	14.85	14.30	14.11	.....	14.03	14.47	14.80	15.23	.....	.....	.....
16	15.04	14.85	14.34	14.13	.....	14.05	14.49	14.80	15.23	15.88	15.89	.....
17	15.04	14.77	14.38	14.08	.....	14.07	14.51	14.83	15.23	.....	.....	.....
18	15.04	14.77	14.38	14.08	13.90	14.09	.....	14.84	15.24	.....	.....	.....
19	15.03	14.74	14.37	14.09	13.89	.....	.....	14.86	15.24	.....	.....	.....
20	15.02	14.72	.....	14.15	13.86	.....	.....	14.89	.....	.....	.....	.....
21	15.09	.....	.....	14.15	13.84	14.14	.....	14.88	.....	15.84	.....	.....
22	15.10	14.70	.....	14.08	13.83	.....	.....	14.93	.....	15.89	.....	.....
23	15.09	14.72	.....	14.09	13.81	14.15	.....	14.96	.....	15.89	15.92	.....
24	15.04	14.72	.....	14.10	13.82	14.17	.....	14.98	15.57	15.88	15.98	.....
25	15.02	14.68	14.39	14.08	13.88	14.28	.....	14.99	.....	15.86	15.98	.....
26	15.00	14.63	14.37	14.10	13.88	14.25	.....	14.99	.....	.....	15.94	.....
27	14.99	14.59	14.35	14.11	13.82	14.24	.....	14.98	.....	.....	15.63	.....
28	.....	14.62	14.31	14.08	13.84	14.23	.....	.....	.....	15.89	15.96	15.63
29	.....	.....	14.24	14.03	13.90	.....	.....	.....	.....	.....	.....	.....
30	.....	.....	14.16	13.90	13.95	.....	.....	.....	.....	.....	15.96	.....
31	.....	.....	14.15	.....	13.98	.....	.....	.....	.....	.....	.....	.....

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 1.9 above lsd, Mar. 19, 1948; lowest 14.13 below lsd, June 28, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.76	6.45	5.50	3.20	6.45	.....	5.90	9.80	9.80	9.40	6.60	4.75
2	7.24	6.35	5.50	3.20	6.25	7.10	7.40	9.20	8.85	9.65	6.50	4.15
3	6.81	6.55	5.90	4.45	7.05	4.60	8.30	9.40	6.95	10.50	5.70	5.55
4	6.15	6.45	3.25	3.75	6.35	6.50	9.00	7.70	9.00	10.40	4.80	5.50
5	6.00	6.45	5.70	5.15	5.10	7.70	8.05	7.10	9.25	10.50	6.20	6.00
6	5.85	7.05	6.05	3.90	3.90	7.10	8.45	7.35	8.75	8.80	6.35	6.20
7	5.50	6.20	5.75	4.15	6.15	7.85	6.95	7.75	9.45	7.80	5.95	5.10
8	6.10	6.15	5.65	3.35	6.35	8.25	7.10	7.75	8.80	8.75	6.15	4.90
9	6.10	5.85	5.55	4.15	6.75	6.15	8.30	9.25	7.60	9.20	5.95	3.60
10	6.00	5.75	4.65	4.30	6.70	5.60	8.80	10.35	8.70	8.35	5.65	4.75
11	6.15	5.40	3.50	4.25	5.35	7.00	8.20	8.35	9.75	11.30	4.95	5.00
12	6.10	5.90	5.35	3.95	4.90	6.80	8.50	7.45	10.10	9.10	5.80	6.00
13	5.85	6.15	4.95	3.35	3.95	5.90	9.25	8.85	10.15	8.50	6.05	5.30
14	4.65	6.60	5.60	3.50	6.35	7.15	7.40	9.35	10.05	6.80	5.95	4.90
15	5.35	5.55	4.65	2.45	6.10	7.60	6.25	9.90	8.60	8.30	5.85	4.80
16	5.50	5.55	6.70	4.00	6.75	6.50	7.95	10.65	7.45	8.95	6.05	3.80
17	5.80	4.10	4.20	3.90	7.20	5.85	8.00	9.60	9.50	7.90	5.00	4.70
18	5.95	3.95	3.45	5.05	7.60	8.85	9.30	9.10	8.80	7.80	4.05	5.70
19	6.50	6.30	4.10	4.35	7.40	7.50	9.10	7.60	8.70	7.75	5.85	4.95
20	6.00	5.50	4.80	.....	6.20	8.90	9.30	9.70	9.20	6.90	5.80	4.85

K-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	4.70	5.00	3.45	....	7.40	7.10	9.15	10.00	10.65	5.80	6.00	4.65
22	5.80	6.20	4.35	....	7.45	7.90	7.15	10.00	8.95	7.40	5.30	3.40
23	6.05	5.50	4.80	....	6.00	7.65	8.80	10.75	8.20	8.25	....	3.10
24	6.30	5.30	4.15	....	7.30	5.95	9.30	10.75	9.45	7.25	5.60	4.20
25	6.30	4.95	4.25	....	6.60	7.50	8.45	10.95	10.55	7.60	4.70	3.95
26	6.40	5.45	4.70	5.05	5.90	7.45	9.40	10.00	10.70	8.15	5.85	4.90
27	6.40	5.45	5.15	6.00	4.75	8.00	9.95	9.95	10.95	7.30	7.20	5.10
28	5.65	5.55	5.00	5.50	6.50	8.60	8.70	10.35	11.05	6.05	7.60	5.50
29	6.90	....	6.50	5.30	6.45	8.20	7.55	9.60	9.15	6.85	7.15	3.80
30	6.75		6.50	6.60	4.45	7.35	9.55	10.30	8.80	7.00	5.45	3.80
31	6.55		3.40		5.00		9.55	10.50		6.75		4.05

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. Water level responds to nearby pumping and to direct infiltration of local recharge. Highest water level 14.30 below lsd, Apr. 11, 1950; lowest 21.05 below lsd, Aug. 31, Sept. 1, 1951. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.75	15.99	15.46	16.22	17.25	18.35	17.70	20.15	21.05	20.70	20.60	20.70
2	16.69	16.00	17.28	16.46	17.40	18.50	17.70	20.65	20.65	20.70	20.70	20.75
3	16.70	15.95	17.94	16.37	17.50	18.35	17.70	20.60	20.65	20.70	20.70	20.75
4	....	15.91	18.03	16.26	17.30	18.25	17.70	20.15	20.80	20.70	20.70	20.75
5	16.60	15.91	18.11	16.19	17.10	18.40	17.70	19.95	20.65	21.00	20.70	20.60
6	16.60	15.91	18.25	16.66	17.20	18.40	17.80	19.95	20.60	20.70	20.70	20.60
7	16.55	16.00	18.43	16.75	17.35	18.65	17.80	20.00	20.70	20.65	20.65	20.50
8	16.46	16.07	18.47	16.61	17.30	18.55	17.70	20.00	20.70	20.65	20.65	20.40
9	16.52	16.13	16.39	16.80	17.40	18.50	17.70	19.95	20.65	20.65	20.70	20.45
10	16.46	16.17	18.16	16.80	17.60	18.55	17.85	19.90	20.70	20.65	20.70	20.45
11	16.41	16.08	18.18	16.90	17.80	18.95	18.50	20.05	20.70	20.65	20.70	20.50
12	16.39	16.09	18.14	16.71	18.00	19.00	18.90	20.15	20.70	20.65	20.70	20.45
13	16.28	16.17	18.21	16.60	17.60	19.00	19.00	20.20	20.70	20.65	20.70	20.40
14	16.15	16.17	17.12	16.85	17.25	19.00	19.05	20.40	20.65	20.65	20.70	20.65
15	16.20	16.21	16.25	16.70	17.25	19.10	19.15	20.50	20.65	20.65	20.65	20.70
16	16.20	16.31	16.36	16.95	18.20	18.75	19.00	20.45	20.60	20.60	20.65	20.70
17	16.17	16.01	16.40	17.00	18.25	19.10	19.70	20.30	20.65	20.65	20.70	20.25
18	16.13	15.98	16.50	17.00	18.10	19.30	19.90	20.35	20.65	20.60	20.75	20.65
19	16.11	15.82	16.43	17.05	18.50	19.30	20.00	20.35	20.65	20.60	20.95	20.55
20	16.05	15.91	16.32	16.95	18.60	19.50	19.70	20.20	20.65	20.60	20.65	20.35
21	16.41	15.89	16.91	16.85	18.70	19.60	20.20	20.45	20.80	20.60	20.65	20.15
22	16.48	15.82	16.60	16.95	18.40	19.55	19.80	20.35	20.60	20.60	20.65	20.10
23	16.36	15.80	16.58	17.10	18.35	18.55	19.75	20.60	20.60	20.55	20.70	20.20
24	16.20	15.75	16.53	16.90	18.30	18.00	20.15	20.65	20.60	20.55	20.70	20.15
25	17.00	15.69	16.32	16.95	18.15	17.70	20.35	20.65	20.60	20.55	20.65	20.05
26	16.13	15.60	16.50	17.00	18.30	17.75	20.30	20.65	20.60	20.60	20.65	20.05
27	16.01	15.60	16.70	17.35	18.35	17.80	20.50	20.65	20.60	20.60	20.65	20.05
28	16.01	15.56	16.42	17.35	18.30	17.80	20.50	20.65	20.70	20.60	20.65	20.00
29	16.00		16.48	17.20	18.15	17.85	20.40	20.70	20.70	20.60	20.65	20.05
30	17.23		16.38	17.30	18.10	17.75	20.60	21.00	20.70	20.60	20.70	19.95
31	16.18		16.21		18.25		20.65	21.05		20.60		19.95

Lawrence County

La-1. Crystal Ice Co. Ninth and Railroad Sts., Ironton. 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: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.27	43.84	41.42	40.93	40.85	42.36	44.35	....	46.55	47.11	47.56	47.28
2	44.44	43.59	41.39	40.92	40.92	42.41	44.41	....	46.57	47.09	47.36	47.24
3	45.69	43.36	41.36	....	40.93	42.53	44.51	....	46.60	47.14	47.08	47.21
4	45.74	43.13	41.32	40.77	40.94	42.56	44.57	....	....	47.16	46.98	47.24
5	45.64	42.96	41.26	40.60	41.03	42.60	44.67	....	....	47.16	46.85	....
6	45.66	42.79	41.29	40.48	41.10	42.62	44.71	....	46.68	47.22	....	....

La-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
7	45.59	42.63	41.26	40.36	41.14	42.68	44.72	.....	46.71	47.22	46.95	47.28
8	45.53	42.52	41.41	40.24	41.17	42.68	44.74	.....	46.73	47.23	47.00	47.44
9	44.52	42.60	41.42	40.18	.....	42.72	.....	.....	46.74	47.24	46.80	47.65
10	44.37	42.54	41.41	.....	41.25	42.91	.....	.....	46.77	47.26	46.84	47.73
11	44.30	42.30	41.29	40.26	41.29	42.79	44.84	.....	46.79	47.28	46.79	.....
12	44.26	42.24	41.21	40.10	41.37	42.83	44.88	.....	46.80	47.29	46.78	47.90
13	44.26	42.49	.....	40.16	41.48	.....	44.91	.....	46.84	47.30	.....	47.86
14	44.21	42.25	41.20	40.35	41.49	42.92	44.94	.....	46.85	47.31	47.17	47.86
15	44.21	42.43	.....	40.53	41.52	42.93	44.97	46.16	46.87	47.38	47.37	47.93
16	44.17	42.70	.....	40.58	41.53	42.94	45.01	46.18	46.89	47.39	47.40	47.80
17	44.05	42.80	.....	40.61	41.60	43.18	45.05	46.22	46.91	47.39	47.44	.....
18	43.91	42.80	.....	40.61	41.70	43.03	45.08	46.25	46.95	47.39	47.46	47.56
19	43.85	42.79	.....	40.69	41.77	43.05	45.12	46.26	46.96	47.39	.....	.....
20	44.10	42.78	.....	40.73	41.85	43.11	45.17	46.30	46.97	47.38	47.56	47.29
21	43.76	42.84	.....	40.72	41.90	43.14	45.21	.....	46.99	47.39	.....	47.28
22	43.88	42.84	.....	40.80	41.94	43.18	45.24	46.33	47.03	47.38	47.56	47.23
23	43.55	42.76	.....	40.80	41.99	43.20	45.29	46.36	47.04	47.44	47.56	47.18
24	43.71	42.66	.....	.....	.....	43.20	45.34	46.38	.....	47.49	47.49	.....
25	43.82	42.17	.....	.....	.....	43.55	45.40	46.40	.....	47.49	47.49	.....
26	43.82	41.79	.....	40.43	.....	.....	45.42	46.43	.....	47.47	47.50	47.13
27	43.88	.....	.....	40.44	.....	43.94	.....	46.45	47.12	47.46	47.36	.....
28	44.10	.....	40.73	40.43	.....	44.12	.....	46.46	47.12	47.50	47.20	.....
29	44.15	.....	40.76	40.44	.....	44.21	.....	46.50	47.12	47.50	47.34	46.90
30	44.12	.....	40.86	40.76	.....	44.27	.....	46.51	47.12	47.50	47.31	46.90
31	43.99	.....	40.89	.....	42.34	.....	.....	46.53	.....	47.55	.....	46.96

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 23.10 below lsd, Dec. 28, 1951; lowest 23.70 below lsd, Oct. 31, 1951. Records available: 1951.

Daily lowest water level from recorder graph

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.25	23.45	23.60	23.45	17	.....	23.35	23.60	23.55	.....
2	23.25	23.45	23.60	23.60	18	.....	23.35	23.55	23.55	.....
3	23.25	23.50	23.55	23.50	19	.....	23.40	23.60	23.60	.....
4	23.30	23.50	23.65	23.55	20	.....	23.40	23.60	23.55	.....
5	23.25	23.50	23.65	23.50	21	.....	23.40	23.60	23.55	23.50
6	23.25	23.50	23.60	23.55	22	.....	23.45	23.60	23.50	23.50
7	23.35	23.50	23.55	23.55	23	.....	23.50	23.60	23.60	23.40
8	23.35	23.50	23.60	23.60	24	.....	23.45	23.65	23.65	23.40
9	23.30	23.50	23.60	23.50	25	.....	23.45	23.70	23.65	23.30
10	23.30	23.50	23.50	23.50	26	.....	23.45	23.60	23.60	23.40
11	23.35	23.50	23.55	23.40	27	.....	23.50	23.55	23.55	23.40
12	23.35	23.60	23.50	23.40	28	.....	23.55	23.65	23.50	23.20
13	23.35	23.60	23.45	23.50	29	.....	23.55	23.65	23.50	23.20
14	23.35	23.55	23.50	23.45	30	.....	23.45	23.60	23.50	23.25
15	23.35	23.55	23.55	.....	31	23.25	.....	23.70	.....	23.20
16	23.35	23.55	23.60	.....	.....	.....	.....	.....	.....	.....

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 21.99 below lsd, Dec. 31, 1946. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.68	.....	14.64	14.29	14.77	15.71	.....	18.18	19.25	20.02	20.84	21.49
2	17.72	.....	14.72	.....	14.77	15.73	.....	.....	19.26	.....	20.84	21.50
3	17.52	.....	14.66	14.48	14.68	15.79	.....	.....	.....	20.05	20.92	21.50
4	16.65	14.58	14.73	15.88	19.25	20.09	20.98	21.53
5	16.28	15.70	14.59	14.90	15.91	18.32	19.29	20.16	20.97	21.53

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Lo-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	15.94	15.70	14.54	15.91	18.35	19.36	20.18	20.87	21.50
7	15.87	15.69	14.49	.....	15.01	15.91	.....	18.39	.....	20.20	20.94	21.53
8	15.92	.....	14.51	14.00	15.02	15.91	17.35	18.45	.....	20.23	20.98	21.53
9	.....	.....	14.63	14.52	15.02	15.91	17.45	.....	.....	20.28	20.98	21.45
10	.....	.....	14.68	14.53	15.02	15.88	17.46	.....	19.50	20.30	20.98	21.39
11	.....	.....	14.63	14.33	14.89	15.93	17.46	.....	.....	20.32	21.00	21.20
12	.....	15.31	14.54	15.25	15.00	15.98	17.49	18.56	.....	20.38	21.00	21.16
13	.....	15.06	14.44	14.14	.....	16.06	17.52	.....	.....	20.38	20.98	21.22
14	.....	14.85	14.44	14.06	.....	16.10	17.56	.....	.....	20.40	21.07	21.22
15	15.32	14.83	14.53	14.02	.....	16.13	17.58	.....	19.55	20.42	21.09	21.30
16	15.18	14.78	14.54	14.08	.....	16.21	17.60	.....	19.56	20.46	21.12	21.30
17	15.09	14.90	14.62	14.13	.....	16.28	17.65	.....	19.57	20.49	21.14	21.25
18	14.87	14.91	14.58	14.13	.....	16.30	17.67	.....	19.62	20.52	21.16	21.27
19	14.89	14.76	14.62	14.19	.....	16.30	17.67	18.81	19.66	20.52	21.18	21.28
20	15.20	14.57	14.65	14.22	15.27	16.30	17.76	18.87	19.70	20.56	21.22	21.17
21	15.20	14.08	.....	14.22	15.29	16.48	17.85	.....	19.72	20.57	21.22	21.29
22	15.11	14.09	.....	14.38	15.31	16.49	.....	.....	19.77	20.65	21.23	21.27
23	15.04	14.19	.....	14.47	15.39	16.49	.....	.....	19.79	20.65	21.29	21.22
24	15.23	14.22	.....	14.45	15.43	16.49	17.90	.....	19.79	20.71	21.33	21.23
25	15.32	14.24	14.45	14.43	15.47	.....	17.92	.....	19.80	20.71	21.32	21.08
26	.....	14.46	14.54	14.59	15.47	.....	17.94	19.05	.....	20.70	21.37	21.07
27	.....	14.53	14.49	14.59	15.53	.....	17.95	19.08	.....	20.70	21.37	20.95
28	.....	14.57	14.50	14.57	15.61	.....	18.01	19.08	19.96	20.76	21.41	20.73
29	15.72	.....	14.37	14.60	15.65	.....	18.06	19.10	.....	20.76	21.42	20.70
30	15.76	.....	14.17	14.73	15.69	.....	18.08	19.19	.....	20.83	21.43	20.63
31	.....	.....	14.27	.....	15.67	.....	18.09	19.21	.....	20.83	.....	20.25

Lucas County

Lu-1. Toledo State Hospital. 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 111.50 below lsd, Sept. 1, 29, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph*

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
1	.....	92.10	91.95	95.70	105.55	.....	111.50	109.10	.....
2	.....	92.10	91.85	.....	105.45	.....	110.75	109.90	.....
3	.....	92.05	91.60	.....	105.85	.....	109.45	110.25	.....
4	.....	92.10	91.40	.....	106.15	.....	109.45	.....	.....
5	.....	92.20	91.55	.....	106.75	.....	109.85	.....	.....
6	92.50	92.20	91.65	.....	107.00	.....	.....	.....	.....
7	92.70	92.00	91.65	.....	.....	.....	.....	.....	.....
8	92.80	91.80	91.60	.....	.....	.....	.....	.....	.....
9	93.05	91.80	91.70	.....	.....	.....	.....	.....	.....
10	93.10	91.90	91.70	.....	.....	.....	108.65	.....	.....
11	92.90	91.95	91.35	.....	.....	.....	109.90	.....	.....
12	92.60	91.65	91.70	.....	.....	.....	110.45	.....	.....
13	92.15	91.45	92.00	.....	.....	.....	111.10	.....	.....
14	92.00	91.65	92.05	.....	.....	.....	111.25	.....	.....
15	92.25	91.95	91.95	.....	.....	.....	111.30	.....	.....
16	92.45	92.00	91.75	.....	.....	.....	110.50	.....	.....
17	92.70	92.05	92.05	.....	.....	.....	109.50	.....	.....
18	92.60	92.05	92.35	.....	.....	110.55	110.35	.....	.....
19	92.50	92.10	92.55	.....	.....	110.55	111.00	.....	.....
20	92.45	92.30	92.80	.....	.....	109.65	111.30	.....	.....
21	92.40	92.25	93.20	.....	.....	109.05	111.40	.....	.....
22	92.50	92.05	93.65	.....	.....	109.10	111.40	.....	.....
23	92.15	92.15	94.20	105.50	.....	109.15	110.75	.....	.....
24	92.10	92.15	94.40	105.40	.....	109.00	.....	.....	99.60
25	92.60	91.90	94.50	105.00	.....	.....	.....	.....	99.60
26	92.70	92.10	94.50	105.30	.....	108.55	110.75	.....	.....
27	92.50	92.10	94.55	105.75	.....	108.25	110.90	.....	99.50
28	92.20	91.85	95.00	106.15	.....	109.60	111.40	.....	99.35
29	92.05	91.65	95.25	106.35	.....	110.30	111.50	.....	98.70
30	91.95	91.90	95.40	106.45	.....	110.65	110.40	.....	98.60
31	92.10	.....	95.55	.....	.....	111.20	.....	.....	98.60

* No record for January, February, and November.

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 28.53 below lsd, Sept. 7, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.98	23.70	24.18	25.10	25.46	26.45	28.08	27.20	27.46	27.15
2	25.02	.....	24.16	23.66	24.18	25.18	25.63	26.45	28.01	27.18	27.41	.....
3	24.97	.....	24.13	23.66	24.10	25.17	25.61	26.62	27.81	27.23	27.32	.....
4	24.68	.....	23.95	23.74	24.16	25.19	25.54	26.66	28.10	27.30	27.41	.....
5	24.69	.....	24.00	23.86	24.21	25.37	25.66	26.62	28.32	27.33	.....	.....
6	24.59	.....	23.99	23.89	24.25	25.37	25.69	26.52	28.39	27.34	.....	.....
7	23.95	23.81	24.32	25.26	25.78	26.46	28.53	27.20	27.58	.....
8	24.58	.....	23.99	23.72	24.38	25.23	25.74	26.47	28.43	27.28	.....	.....
9	24.25	23.75	24.44	25.18	25.90	26.65	28.03	.....	.....	26.63
10	24.25	23.92	24.40	25.24	25.90	26.66	27.79	27.33	.....	26.64
11	24.53	24.18	23.92	24.40	25.29	25.94	26.66	27.87	.....	27.34	26.54
12	24.45	24.11	23.79	24.59	25.34	26.03	26.66	27.72	27.39	27.27	26.52
13	24.55	24.03	23.72	24.59	25.29	26.04	26.93	27.70	27.44	27.22	26.54
14	24.53	23.84	23.75	24.77	25.34	26.04	27.12	27.61	27.40	27.07	26.51
15	24.54	23.92	23.79	24.76	25.37	26.12	27.19	27.49	27.37	27.10	26.70
16	24.40	23.92	23.86	24.81	25.44	26.20	27.29	27.40	27.36	27.05	26.72
17	24.28	23.99	23.96	24.83	25.44	26.17	27.30	27.60	27.34	27.20	26.70
18	24.33	23.93	23.93	24.97	25.63	26.12	27.41	27.55	27.36	27.18	26.73
19	24.29	23.92	23.94	24.96	25.65	26.08	27.39	27.43	27.36	27.25	26.81
20	24.17	24.00	24.07	24.80	25.62	26.10	27.36	27.51	27.30	27.25	26.80
21	23.82	23.92	24.06	24.92	25.74	26.12	27.61	27.46	27.28	27.22	26.43
22	24.04	23.96	23.96	24.91	25.73	26.19	27.64	27.29	27.32	27.15	26.43
23	24.03	23.89	24.00	24.93	25.60	26.08	27.72	27.27	27.34	27.08	26.44
24	23.96	23.85	23.96	24.94	25.63	26.06	27.76	27.24	27.35	27.09	26.48
25	23.92	23.91	24.02	24.97	25.76	26.09	27.71	27.21	27.38	27.05	26.37
26	23.82	24.06	24.08	24.90	25.70	26.14	27.54	27.19	27.35	.....	26.30
27	23.93	24.04	24.14	24.85	25.62	26.20	27.35	27.12	.....	.....	26.31
28	23.97	23.96	24.10	24.86	25.65	26.22	27.55	27.23	27.35	.....	26.26
29	23.74	24.06	24.96	25.58	26.18	27.80	.....	27.46	.....	26.08
30	23.67	24.13	25.04	25.45	26.37	28.06	27.18	27.51	.....	25.92
31	23.75	.....	25.11	.....	26.46	28.05	.....	27.57	.....	25.70

Mahoning County

Ma-1. City of Canfield. Lat. 41°00'46", long. 80°45'36". Drilled unused well in sandstone, diameter 10 inches, depth 300 feet. Highest water level 27.15 below lsd, May 22, 1949; lowest 110.75 below lsd, Sept. 27, 1946. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.73	31.88	31.65	30.95	30.55	31.61	31.86	32.32	33.20	35.80	35.60	34.90
2	32.72	31.92	31.62	30.91	30.51	31.60	31.87	32.21	33.20	35.80	35.60	35.00
3	32.73	31.92	31.60	30.89	30.45	31.60	31.87	32.22	33.35	35.80	35.55	34.65
4	32.80	31.88	31.53	30.85	30.49	31.61	31.83	32.22	33.35	35.70	35.45	34.60
5	32.80	31.85	31.53	30.87	30.58	32.18	31.87	32.38	33.35	35.70	35.40	34.60
6	32.78	31.82	31.54	30.89	30.59	32.00	31.88	32.38	33.30	35.50	35.45	34.60
7	32.75	31.80	31.50	31.00	30.60	31.92	31.89	32.34	33.80	35.50	35.10	34.60
8	32.68	31.80	31.60	31.02	30.65	31.90	31.88	32.39	34.20	35.50	35.20	34.48
9	32.62	31.77	31.60	31.00	30.65	31.87	31.87	32.40	34.35	35.55	35.20	34.37
10	32.55	31.92	31.56	30.95	30.60	31.80	31.89	32.45	34.55	35.60	35.20	34.28
11	32.51	31.88	31.52	30.83	30.49	31.83	31.90	32.60	34.75	35.45	35.25	34.21
12	32.52	31.95	31.50	30.65	30.39	31.83	31.90	32.60	34.70	35.50	35.15	34.23
13	32.52	32.01	31.48	30.45	30.45	31.82	.....	32.55	34.75	35.50	35.10	.....
14	32.50	31.96	31.32	30.43	30.50	31.81	.....	32.60	34.90	35.55	35.05	.....
15	32.50	31.90	31.11	30.49	30.51	.....	.....	32.60	35.10	35.70	35.15	.....
16	32.47	31.85	31.05	30.48	30.58	.....	.....	32.60	35.15	35.70	35.15	.....
17	32.38	31.85	31.05	30.45	30.60	.....	.....	32.70	35.20	35.65	35.00	.....
18	32.40	31.88	31.02	30.43	30.60	.....	.....	32.75	35.30	35.70	34.80	.....
19	32.42	31.90	30.96	30.39	30.98	.....	31.88	32.75	35.45	35.60	35.00	34.07
20	32.49	31.90	30.95	30.40	30.98	.....	31.98	32.75	35.60	35.65	34.95	34.10

Ma-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	32.50	31.78	31.00	30.39	30.75	32.85	31.88	32.75	35.80	35.65	34.95	34.01
22	32.50	31.78	31.00	30.39	31.10	32.86	31.98	32.80	35.75	35.70	35.00	34.01
23	32.35	31.78	30.94	30.35	31.30	32.67	32.10	32.90	35.85	35.70	34.80	33.98
24	32.25	31.80	30.96	30.37	31.53	32.67	32.22	32.98	35.90	35.70	34.75	34.05
25	32.25	31.73	30.97	30.39	31.67	32.60	32.18	33.05	36.00	35.55	34.80	34.00
26	32.12	31.64	30.95	30.41	31.68	32.60	32.23	33.25	36.00	35.55	34.80	33.94
27	32.05	31.67	30.97	30.45	31.68	32.62	32.23	33.15	35.95	35.50	34.90	33.93
28	32.05	31.65	30.96	30.40	31.75	32.50	32.20	33.10	36.05	35.50	34.75	34.14
29	31.98		30.95	30.39	31.78	32.15	32.15	33.10	35.90	35.50	34.80	34.17
30	31.96		30.95	30.58	31.80	31.90	32.19	33.20	35.85	35.50	34.75	34.23
31	31.93		30.96		31.78		32.19	33.15		35.60		34.24

Ma-3. Tod Hotel. 7 Market St., Youngstown. Drilled unused well in sandstone, diameter 8 inches, depth 400 feet. Highest water level 23.35 below lsd, Apr. 14, 1951; lowest 27.91 below lsd, July 2, 1948. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	26.58	26.06	25.62	25.52	26.22	26.21	26.76	26.88	27.36	27.04	26.88
2	26.80	26.62	26.06	25.56	25.53	25.98	26.37	26.80	26.82	27.31	27.04	26.85
3	26.79	26.62	26.06	25.52	25.50	25.81	26.40	26.84	26.90	27.35	27.00	26.83
4	26.75	26.60	26.02	25.49	25.47	25.83	26.39	27.01	26.97	27.45	26.98	26.80
5	26.76	26.57	26.02	25.51	25.70	25.91	26.41	27.08	27.04	27.52	27.02	26.79
6	26.76	26.57	26.00	25.52	25.50	25.89	26.38	27.08	27.08	27.57	27.04	26.80
7	26.72	26.48	25.99	25.49	25.52	25.93	26.40	27.02	27.15	27.54	26.99	26.81
8	26.66	26.47	26.10	25.42	25.55	26.03	26.36	26.97	27.20	27.48	26.93	26.83
9	26.67	26.55	26.23	25.41	25.56	25.91	26.38	26.84	27.19	27.46	26.98	26.84
10	.....	26.57	26.26	25.41	25.52	25.86	26.27	26.93	27.15	27.43	26.99	26.81
11	.....	26.54	26.23	25.42	25.53	25.91	26.19	27.01	27.14	27.37	26.98	26.78
12	.....	26.48	26.14	25.42	25.61	25.97	26.09	26.94	27.17	27.32	26.98	26.72
13	.....	26.39	26.05	25.37	25.62	.....	26.16	26.97	27.16	27.33	26.94	26.73
14	.....	26.39	26.00	25.38	25.68	.....	26.27	26.96	27.11	27.31	26.91	26.74
15	.....	26.39	26.00	25.39	25.76	.....	26.22	26.88	27.19	27.25	26.97	26.66
16	26.68	26.37	26.04	25.40	25.67	25.94	26.33	26.77	27.17	27.21	26.98	26.70
17	26.68	26.31	26.06	25.43	25.61	.....	26.29	.....	27.15	27.19	26.99	26.70
18	26.65	26.28	26.06	25.44	25.56	.....	26.30	.....	27.19	27.17	26.98	26.66
19	26.63	26.24	26.00	25.42	25.70	25.93	26.29	.....	27.21	27.14	26.96	26.59
20	26.58	26.18	25.93	25.48	25.59	25.91	26.45	.....	27.30	27.14	26.97	26.59
21	26.57	26.15	25.94	25.49	25.73	25.96	26.51	.....	27.34	27.12	26.98	26.53
22	26.59	26.16	25.90	25.46	25.60	26.01	26.45	26.92	27.36	27.10	26.97	26.52
23	26.59	26.16	25.89	25.49	25.67	26.06	26.46	27.04	27.35	27.11	26.96	26.55
24	26.56	26.16	25.91	25.48	25.76	26.07	26.43	27.12	27.35	27.09	26.95	26.57
25	26.56	26.13	25.93	.....	25.86	26.12	26.59	27.15	27.34	27.11	26.97	26.58
26	26.57	26.08	25.92	.....	25.72	26.16	26.62	27.15	27.32	27.12	26.93	26.52
27	26.60	26.02	25.91	.....	25.65	26.11	26.61	27.12	27.28	27.10	26.90	26.54
28	26.61	26.06	25.87	.....	25.91	26.20	26.58	27.08	27.35	27.08	26.92	26.54
29	26.61		25.81	.....	26.22	26.17	26.61	27.07	27.41	27.04	26.91	26.50
30	26.62		25.71	.....	26.27	26.20	26.68	27.07	27.42	27.04	26.91	26.46
31	26.63		25.63	.....	26.25	.....	26.65	27.01	.....	27.03	.....	26.44

Marion County

Mn-1. Village of LaRue. 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: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.85	9.42	8.24	7.60	8.77	10.04	10.05	11.20	11.60	11.75	11.85	11.55
2	9.84	9.31	8.33	7.95	8.76	10.07	10.00	11.05	11.25	11.75	11.85	11.45
3	9.39	9.42	8.17	8.21	9.02	10.00	10.10	10.70	11.70	11.85	11.75	11.55
4	8.24	9.07	7.85	7.91	8.75	9.95	10.05	10.70	11.65	11.75	11.65	11.55
5	7.73	9.24	8.20	8.14	8.90	10.00	10.15	10.55	11.65	11.90	11.90	11.40
6	8.07	9.70	8.33	8.19	8.65	9.95	10.20	10.60	11.50	11.00	11.85	11.40
7	7.70	9.79	8.12	8.19	9.44	9.90	10.05	10.55	11.55	12.10	11.75	11.20
3	8.30	9.67	8.23	8.74	9.18	9.95	10.25	10.50	11.50	12.05	11.85	10.70
9	8.30	9.34	8.35	8.44	9.32	9.95	10.15	10.50	11.45	12.05	11.85	10.55
10	8.52	9.39	8.92	8.40	9.59	9.85	10.40	11.45	11.50	12.10	11.90	9.95

Mn-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	8.73	9.38	8.60	7.77	9.25	10.00	10.35	11.50	11.55	11.70	11.90	9.55
12	8.58	9.09	8.86	7.79	8.58	9.90	10.30	11.00	11.50	12.00	12.10	10.10
13	8.90	8.15	9.04	8.08	9.07	9.90	10.50	11.25	11.40	12.30	12.05	10.00
14	7.98	7.60	8.85	8.29	9.32	9.80	10.40	11.25	11.45	12.35	11.80	10.20
15	7.96	7.72	8.53	7.58	9.41	9.70	10.45	11.25	11.30	12.00	12.00	10.05
16	7.51	7.91	8.12	8.29	9.38	9.70	10.60	11.20	11.80	12.00	11.75	10.40
17	7.54	8.00	8.36	8.10	9.15	9.60	10.50	10.75	11.95	12.10	11.90	10.35
18	7.57	7.70	8.05	8.38	9.77	9.85	10.45	11.20	11.70	12.05	11.85	10.25
19	6.80	7.64	8.37	8.05	9.30	10.20	10.50	11.35	11.65	11.95	11.70	10.40
20	7.55	7.42	8.40	8.79	9.37	10.15	10.40	11.30	11.90	11.85	11.85	10.30
21	7.53	7.42	8.72	8.75	9.58	10.15	10.55	11.15	11.85	11.80	11.70	10.30
22	8.04	7.23	8.63	8.61	9.00	10.10	10.55	11.40	11.45	11.95	11.60	10.25
23	7.93	7.05	8.62	9.02	9.10	9.70	10.30	11.40	11.85	11.95	11.55	10.05
24	8.05	7.40	8.20	8.79	9.19	10.00	10.60	11.30	11.80	11.85	11.55	.....
25	9.23	7.12	8.41	8.77	9.44	9.65	10.55	11.20	11.80	11.95	11.55	.....
26	9.25	7.82	8.46	8.93	9.82	9.75	10.30	11.35	11.75	11.85	11.55	.....
27	9.07	8.13	8.04	9.56	9.90	10.25	10.45	11.40	11.75	11.85	11.60	.....
28	9.12	7.95	8.57	8.97	9.92	10.15	10.55	11.45	11.70	11.60	11.65	.....
29	9.28		8.67	8.93	9.93	10.05	10.50	11.45	11.65	11.80	11.60	.....
30	9.62		7.60	8.78	9.55	10.05	10.55	11.45	11.55	11.80	11.60	.....
31	9.62		7.64		10.14		10.75	11.65		11.90		.....

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 10.90 below lsd, Feb. 26, 1951; lowest 28.80 below lsd, Sept. 30, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.03	.....	.....	.....	.....	.....	17.45	21.15	20.20	17.80	18.25	17.20
2	.....	.....	.....	.....	.....	.....	19.95	21.00	18.85	18.45	18.10	16.80
3	16.20	20.60	16.70	.....	.....	.....	.....	20.15	18.90	18.25	18.20	17.05
4	19.87	.....	.....	.....	.....	.....	.....	21.00	18.70	19.45	18.40	16.95
5	19.60	.....	.....	.....	.....	.....	.....	21.15	19.10	18.90	18.15	16.90
6	19.80	.....	.....	.....	.....	.....	.....	21.35	18.80	18.95	18.00	17.65
7	19.40	.....	.....	.....	.....	.....	16.35	18.75	19.25	18.75	18.70	17.15
8	19.05	.....	.....	.....	.....	20.40	17.10	18.65	18.35	18.50	18.10	17.15
9	19.10	.....	.....	.....	.....	.....	17.50	20.25	18.25	18.40	18.10	16.85
10	.....	18.75	17.70	.....	.....	.....	18.65	21.40	18.20	18.55	18.05	16.60
11	.....	.....	.....	.....	.....	.....	17.70	20.75	18.00	18.45	17.45	16.45
12	.....	.....	.....	.....	.....	17.40	19.95	18.45	18.20	18.75	17.65	16.35
13	18.30	.....	.....	.....	.....	19.85	.....	21.35	17.90	18.85	17.75	16.60
14	.....	.....	.....	.....	.....	.....	17.60	20.25	17.90	18.80	18.00	16.65
15	.....	.....	.....	.....	.....	.....	17.90	20.30	19.45	18.80	17.80	16.70
16	.....	.....	.....	.....	.....	17.25	17.90	19.70	.....	18.85	17.95	.....
17	.....	18.40	17.25	.....	.....	17.20	20.65	19.50	.....	18.45	18.05	.....
18	.....	.....	.....	.....	.....	19.60	19.40	19.15	17.35	18.70	18.10	16.85
19	.....	.....	.....	.....	.....	.....	18.05	18.60	17.85	18.90	17.45	.....
20	18.90	.....	.....	.....	.....	.....	18.00	19.55	17.35	19.45	17.55	.....
21	.....	.....	.....	.....	.....	.....	18.90	19.20	17.45	19.10	17.45	.....
22	.....	.....	16.90	.....	.....	.....	18.05	21.10	18.55	19.40	17.25	.....
23	.....	.....	.....	.....	.....	.....	20.40	19.60	.....	18.65	15.90	16.10
24	.....	19.25	19.85	.....	.....	.....	.....	19.45	.....	18.70	17.00	16.60
25	.....	.....	.....	16.10	.....	17.70	20.50	21.30	19.75	18.55	16.80	15.95
26	.....	.....	.....	15.95	.....	17.50	20.65	19.90	.....	18.80	16.65	16.55
27	18.80	.....	.....	16.50	.....	19.95	20.90	19.90	.....	18.50	16.65	16.45
28	.....	.....	.....	16.60	.....	.....	18.45	20.05	.....	18.20	16.85	16.60
29	.....	.....	.....	15.90	.....	.....	18.00	20.10	19.10	18.15	16.90	16.65
30	.....	.....	.....	.....	.....	17.50	18.15	22.50	17.85	18.15	16.60	16.55
31	.....	.....	.....	.....	.....	.....	18.30	.....	.....	18.15	.....	16.35

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 10.94 below lsd, Dec. 31, 1946. Records available: 1946-51.

Mr-1--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.23	9.19	9.30	9.27	9.35	....	....	10.28	10.54	10.70	10.71
2	9.31	9.19	9.32	9.26	....	....	9.95	10.31	10.46	10.71	10.71
3	9.31	9.11	9.29	....	....	....	9.96	10.38	10.49	10.67	10.71
4	9.20	9.16	9.33	....	....	....	10.05	10.37	10.53	10.70	10.64
5	9.26	9.23	9.16	9.38	....	....	....	....	10.35	10.56	10.80	10.65
6	9.48	9.24	9.13	9.34	....	....	....	....	10.30	10.63	10.79	10.62
7	9.45	9.21	9.11	9.24	....	....	....	....	10.36	10.57	10.58	10.73
8	9.24	9.20	9.23	....	....	....	9.90	10.41	10.63	10.69	10.73
9	9.26	9.27	9.22	....	....	....	9.91	10.41	10.63	10.68	10.73
10	9.38	9.25	....	9.24	....	....	....	9.97	10.34	10.65	10.69	10.73
11	9.13	....	9.25	....	....	....	10.03	10.41	10.66	10.70	10.69
12	9.13	....	9.13	....	....	....	10.06	10.41	10.68	10.70	10.68
13	9.27	....	9.22	....	....	....	10.09	10.34	10.68	10.60	10.71
14	9.35	9.25	9.21	....	....	....	....	10.34	10.68	10.51	10.71
15	9.30	9.31	9.27	....	....	....	....	10.40	10.68	10.58	10.72
16	9.23	9.38	9.11	9.31	....	....	....	10.43	10.67	10.59	10.72
17	9.22	9.38	....	9.36	....	....	....	10.42	10.73	10.68	10.72
18	9.22	9.38	9.22	9.36	....	....	....	10.42	10.73	10.67	10.67
19	9.23	9.38	9.35	9.36	....	....	....	10.44	10.72	10.68	10.70
20	9.23	9.33	9.39	9.31	....	....	....	10.43	10.73	10.69	10.56
21	9.12	....	9.37	9.32	....	....	....	10.51	10.71	10.68	10.62
22	9.31	9.34	....	....	....	10.47	10.72	10.69	10.69
23	9.37	9.35	....	....	....	10.23	10.50	10.72	10.68
24	9.24	....	9.31	9.36	....	9.75	10.23	10.49	10.66	10.71	10.75
25	9.23	9.35	....	9.87	10.23	10.46	10.74	10.70	10.64
26	9.32	9.35	....	9.86	10.21	10.48	10.67	10.70	10.74
27	9.32	9.27	....	9.82	10.21	10.46	10.62	10.70	10.74
28	9.11	9.25	9.25	....	....	9.78	10.16	10.55	10.63	10.71	10.63
29	9.23	9.23	....	....	9.86	10.20	10.56	10.65	10.71	10.52
30	9.28	9.26	9.31	....	9.87	10.24	10.51	10.63	10.71	10.53
31	9.26	....	9.35	....	9.84	10.29	....	10.68	....	10.54

Miami County

Mi-1. Troy Sunshade Co. 612 Grant St., Troy. Drilled unused well in gravel, diameter 8 inches, depth 49 feet. Highest water level 7.15 below lsd, Feb. 26, 1951; lowest 14.87 below lsd, Nov. 22, 1946. Records available: 1946-51.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.10	9.95	9.25	9.35	10.85	10.70	10.05	10.30	12.30	12.15	14.05	14.00
2	9.15	10.00	9.40	9.85	10.95	10.40	10.15	10.30	11.75	12.90	13.85	13.55
3	9.55	10.00	9.40	10.15	10.40	9.75	10.80	10.30	11.55	12.95	13.85	13.65
4	9.65	9.30	8.35	10.30	10.25	10.10	10.80	10.30	12.35	13.15	13.35	13.80
5	9.70	9.75	9.05	10.45	10.25	10.80	10.30	10.20	12.25	13.15	13.55	13.95
6	9.70	10.00	9.35	10.50	9.05	10.85	10.90	11.20	12.75	12.85	13.75	14.05
7	9.05	10.15	9.50	10.55	9.95	11.10	10.95	11.20	12.75	12.30	13.80	14.05
8	9.30	10.30	9.70	9.55	10.25	11.10	10.00	11.65	12.40	12.90	13.90	14.00
9	9.55	10.45	9.80	10.05	10.30	10.70	10.40	11.65	11.95	12.90	13.95	13.35
10	9.70	10.45	9.85	10.35	10.50	10.10	11.25	11.85	12.45	12.75	14.05	13.10
11	9.85	9.75	8.80	10.50	10.55	10.90	11.05	11.85	12.50	12.90	13.50	13.20
12	9.95	9.80	9.45	10.55	10.55	10.85	11.30	11.00	12.75	12.95	14.10	13.25
13	10.05	10.05	9.65	10.65	9.45	11.25	11.30	11.30	12.80	12.95	13.95	13.25
14	9.10	10.15	9.85	10.65	10.25	11.25	10.95	12.00	12.90	12.50	14.30	13.30
15	8.95	10.25	10.00	9.50	10.55	11.40	10.35	12.00	12.90	13.20	14.35	13.25
16	9.20	10.30	10.05	10.10	10.65	11.40	11.10	12.30	12.00	13.05	14.05	12.70
17	9.30	10.30	9.55	10.45	10.40	10.35	11.15	12.35	12.05	13.15	14.05	12.80
18	9.35	9.55	8.80	10.50	10.50	10.60	11.50	12.00	12.65	13.65	13.60	12.95
19	9.40	10.10	9.55	10.65	10.50	11.25	11.50	11.45	12.65	13.65	13.70	13.05
20	9.70	10.15	9.80	10.75	9.80	11.25	11.65	12.15	12.95	13.35	13.90	13.10
21	8.65	9.60	10.00	10.75	9.75	11.55	11.65	11.95	13.00	12.85	14.05	13.10
22	8.95	8.30	10.40	9.45	9.95	11.55	10.75	12.50	12.70	13.55	14.05	13.10
23	9.20	8.40	10.40	10.20	10.60	11.05	10.50	12.50	12.05	13.60	13.75	12.45
24	9.40	8.20	10.15	10.55	10.85	10.40	10.40	12.65	12.50	13.50	13.75	12.15
25	9.55	7.55	9.00	10.80	10.85	11.15	10.40	12.65	12.30	13.60	13.90	11.95

Mi-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	9.70	8.45	9.80	10.95	10.40	11.15	10.40	11.75	12.80	13.65	13.50	12.10
27	9.70	8.80	10.10	11.05	9.65	11.50	10.35	11.80	12.75	13.65	13.65	11.85
28	9.05	9.00	10.20	11.05	10.45	11.50	10.30	12.50	13.00	13.15	13.80	11.65
29	9.35		10.30	9.80	10.50	11.15	10.25	12.50	12.80	13.75	13.90	11.55
30	9.65		10.35	10.40	10.25	11.15	10.20	12.65	12.10	13.75	14.00	11.35
31	9.80		10.35		10.65		10.30	12.65		13.70		11.10

Montgomery County

Mt-2. Dayton Power and Light Co. 118 Fourth St. Drilled unused well in gravel, diameter 8 inches, depth 57 feet. Highest water level 20.97 below lsd, Mar. 25, 1943; lowest 35.85 below lsd, Aug. 31, 1951. Records available: 1942-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.88	25.36	23.73	24.03	26.00	29.25	31.10	33.45	35.40	34.30	34.55	33.00
2	26.80	25.48	23.80	23.80	26.30	29.40	30.80	33.60	35.30	34.60	34.55	32.90
3	26.92	25.48	23.77	23.91	26.55	29.40	30.80	33.80	34.90	34.75	34.55	32.85
4	26.95	25.37	23.65	24.05	26.75	29.50	30.65	33.80	34.65	35.00	34.35	32.90
5	26.93	25.30	23.52	24.15	26.85	29.65	30.40	33.75	34.70	35.20	34.10	32.95
6	.....	25.36	23.61	24.26	26.80	29.80	30.40	33.60	34.75	35.25	34.05	33.05
7	.....	25.55	23.73	24.27	26.70	29.95	30.40	33.70	34.70	35.15	34.05	33.15
8	26.15	25.65	23.85	24.25	26.85	30.15	30.35	33.90	34.60	34.80	34.05	33.10
9	26.15	25.75	23.95	24.25	27.00	30.25	30.25	34.05	34.40	34.75	34.15	32.85
10	26.15	25.75	23.95	24.44	27.15	30.25	30.45	34.25	34.35	34.70	34.10	32.50
11	26.23	25.61	23.80	24.52	27.25	30.20	30.70	34.30	34.55	34.75	34.00	32.25
12	26.27	25.47	23.65	24.60	27.30	30.35	30.95	34.25	34.75	34.75	33.80	32.05
13	26.27	25.58	23.79	24.65	27.30	30.50	31.15	34.15	34.95	34.75	33.85	31.90
14	26.05	25.58	23.90	24.65	27.25	30.60	31.25	34.30	35.05	34.65	33.90	31.75
15	25.79	25.56	24.00	24.50	27.40	30.75	31.25	34.50	35.05	34.50	33.95	31.70
16	25.77	25.45	24.07	24.35	27.65	30.85	31.35	34.60	34.95	34.60	33.90	31.50
17	25.70	25.40	24.07	24.45	27.85	30.85	31.60	34.75	34.60	34.70	33.80	31.25
18	25.67	25.23	23.88	24.50	28.10	30.90	31.85	34.85	34.70	34.75	33.60	31.25
19	25.63	24.97	23.74	24.65	28.25	31.10	32.05	34.80	34.75	34.85	33.40	31.30
20	25.55	24.97	23.84	24.80	28.25	31.25	32.20	34.70	34.80	34.80	33.35	31.30
21	26.15	24.85	23.96	24.80	28.30	31.45	32.35	34.90	34.95	34.70	33.35	31.35
22	26.13	24.80	24.03	24.70	28.50	31.65	32.35	35.00	35.00	34.60	33.35	31.35
23	25.05	24.60	24.08	24.75	28.65	31.70	32.40	35.10	34.90	34.75	33.15	31.15
24	25.12	24.38	24.08	24.85	28.80	31.65	32.55	35.20	34.60	34.85	33.15	31.00
25	25.17	24.00	23.99	25.10	29.00	31.45	32.75	.....	34.70	34.85	33.00	30.80
26	25.22	23.56	23.78	25.30	29.05	31.45	32.90	.....	34.75	34.90	32.85	30.65
27	25.22	23.55	23.90	25.30	29.00	31.40	33.10	.....	34.80	34.85	32.85	30.65
28	25.15	23.55	24.00	25.60	28.85	31.40	33.20	.....	34.80	34.70	32.85	30.60
29	25.07		24.14	25.60	28.95	31.35	33.15	.....	34.80	34.45	32.90	30.55
30	25.17		24.24	25.75	28.95	31.25	33.05	.....	34.60	34.50	33.00	30.40
31	25.22		24.24		29.00		33.25	35.85		34.50		30.20

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 51 feet. Highest water level 34.53 below lsd, Aug. 17, 1947; lowest 48.15 below lsd, Sept. 5, 1951. Records available: 1945-51.

Daily lowest water level from recorder graph*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41.50	42.40	40.53	42.88	44.45	.....	46.40	46.65	.....
2	42.43	42.40	40.78	42.58	44.50	.....	.....	46.65	.....
3	42.82	42.31	40.55	43.33	44.50	.....	45.65	46.65	.....
4	42.82	41.71	39.58	43.75	44.55	.....	45.65	46.40	.....
5	41.85	41.90	40.25	44.02	44.55	44.60	45.65	46.10	48.15
6	41.46	42.28	40.80	44.50	44.55	44.70	45.65	.....	.....
7	40.85	42.58	41.24	44.50	44.40	44.85	45.70	45.35	.....
8	40.81	42.56	41.50	43.80	44.55	45.10	45.70	45.30	.....
9	41.34	42.75	41.76	43.45	44.55	45.25	45.70	45.00	.....
10	41.76	42.76	41.65	43.90	44.60	45.30	45.60	44.90	.....
11	41.45	42.28	40.40	44.00	44.70	45.10	45.65	44.85	.....
12	42.77	41.66	41.16	44.20	44.75	45.00	45.75	44.85	.....
13	42.65	41.67	41.57	44.15	44.75	45.10	.....	44.65	.....
14	41.90	41.23	41.79	44.00	44.75	45.25	.....	45.20	.....
15	41.80	41.23	42.45	42.55	44.60	45.45	.....	45.85	.....

Mt-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	41.87	41.76	42.78	41.65	44.70	45.55	.....	.....	.....
17	42.03	41.90	42.68	42.05	44.95	45.60	46.20	.....	.....
18	42.44	41.37	41.52	42.75	45.25	45.60	46.25	.....	.....
19	42.65	41.55	41.67	43.30	45.40	45.55	46.30	.....	.....
20	42.51	41.62	42.41	43.60	45.45	45.65	46.40	.....	.....
21	41.88	41.15	42.80	43.45	45.45	45.75	46.50	.....	.....
22	41.96	40.18	42.68	41.90	45.50	.....	46.55	.....	.....
23	41.98	39.32	43.30	41.35	45.55	.....	46.60	.....	.....
24	42.15	38.93	43.31	42.05	45.55	.....	46.70	.....	.....
25	42.26	38.07	42.05	43.00	45.60	.....	46.85	.....	.....
26	42.23	38.81	41.75	43.80	45.65	46.20	47.00	.....	.....
27	42.15	39.97	42.84	44.50	45.65	46.25	47.15	.....	.....
28	41.85	40.29	43.26	44.55	45.70	46.30	47.25	.....	.....
29	41.95		43.75	44.20	45.70	46.35	47.30	.....	.....
30	42.16		44.23	43.75	45.70	46.40	47.10	.....	.....
31	42.23		44.19		.....		46.65	.....	.....

* No record for October, November, and December.

Mt-5. Kuhns Bros. Foundry Co. 1800 McCall St., Dayton. Drilled unused well in gravel, diameter 6 inches, depth 156 feet. Highest water level 33.99 below lsd, June 18, 1947; lowest 44.80 below lsd, Oct. 25, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.17	37.83	36.74	36.22	36.16	37.44	38.38	39.56	41.16	42.37	43.38	43.85
2	39.17	37.83	36.69	36.24	36.18	37.47	38.40	39.60	41.20	42.42	43.40	43.85
3	39.14	37.81	.....	36.23	36.23	37.49	38.41	39.66	41.25	42.46	43.42	43.88
4	.....	37.77	.....	36.22	36.25	37.56	38.41	39.71	41.29	42.50	43.43	43.92
5	39.06	37.80	36.50	36.26	36.29	37.60	38.45	39.74	41.33	42.55	43.47	43.91
6	39.03	37.78	36.45	36.24	36.33	37.63	38.47	39.79	41.38	42.58	43.48	43.95
7	39.00	37.78	36.43	36.20	36.37	37.67	38.47	39.83	41.44	42.60	43.49	43.99
8	38.97	37.78	36.39	36.20	36.41	37.73	38.49	39.89	41.48	42.65	43.52	44.00
9	38.93	37.80	36.41	36.23	36.44	37.76	38.52	39.94	41.49	42.69	43.54	43.97
10	38.89	37.78	36.38	36.23	36.48	37.79	38.56	40.00	41.55	42.73	43.55	43.94
11	38.57	37.76	36.34	36.25	36.56	37.84	38.58	40.04	41.59	42.77	43.55	43.92
12	38.83	37.75	36.30	36.21	36.60	37.89	38.63	40.09	41.62	42.81	43.59	43.93
13	38.80	37.74	36.26	36.21	36.65	37.94	38.67	40.15	41.68	42.83	43.61	43.93
14	38.74	37.76	36.24	36.22	36.70	37.98	.....	40.20	41.72	42.84	43.63	43.92
15	38.66	37.75	36.26	36.21	36.74	38.02	.....	40.24	41.76	42.88	43.65	43.92
16	38.62	37.72	36.27	36.19	36.77	38.06	.....	40.30	41.79	42.91	43.67	43.87
17	38.54	37.71	36.27	36.18	36.82	38.10	.....	40.36	41.84	42.94	43.68	43.87
18	38.47	37.69	36.25	36.14	36.86	38.15	.....	.....	41.88	42.98	43.67	43.87
19	38.39	37.68	36.24	36.14	36.90	38.19	.....	40.47	41.92	43.02	43.70	43.85
20	38.52	37.66	36.29	36.15	36.94	38.25	.....	40.52	41.97	43.04	43.72	43.83
21	38.28	37.60	36.27	36.13	36.99	38.28	39.01	40.58	42.01	43.06	43.75	43.86
22	38.22	37.45	36.28	36.10	37.03	38.36	39.07	40.64	42.06	43.11	43.77	43.81
23	38.14	37.34	36.26	36.12	37.06	38.39	.....	40.70	42.08	43.13	43.79	43.76
24	38.08	37.21	36.30	36.10	37.10	38.43	.....	40.75	42.13	43.18	43.81	43.76
25	38.03	37.02	36.29	36.08	37.13	38.47	.....	40.80	42.17	43.19	43.76	43.72
26	37.98	36.96	36.32	36.12	37.17	38.52	.....	40.84	42.21	43.22	43.83	43.68
27	37.94	36.89	36.28	36.12	37.20	38.56	39.32	40.90	42.27	43.25	43.82	43.61
28	37.81	36.82	36.23	36.12	37.26	.....	39.37	40.95	42.30	43.27	43.83	43.57
29	37.89		36.23	36.12	37.32	38.40	39.41	41.00	42.35	43.29	43.83	43.54
30	37.86		36.25	36.16	37.35	38.39	39.46	41.05	.....	43.32	43.84	43.49
31	37.83		36.25		37.40		39.51	41.11		43.35		43.42

Mt-6. City of Dayton. Third and Ludlow Sts. Drilled unused well in gravel, diameter 8 inches, depth 60 feet. Highest water level 23.70 below lsd, Feb. 20, 1950; lowest 38.70 below lsd, Sept. 1, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.45	27.00	25.20	25.71	28.62	32.98	33.63	37.44	.....	.....	36.15	34.90
2	28.47	27.10	25.29	25.64	30.36	33.23	34.48	37.57	.....	37.80	36.10	34.80
3	28.52	27.15	25.41	25.67	30.70	33.17	34.50	37.78	.....	.....	36.10	34.80
4	28.35	27.10	25.36	25.92	30.82	33.44	33.07	37.73	.....	38.30	36.00	34.85
5	28.00	27.15	25.16	26.09	29.35	33.52	33.79	.....	.....	38.60	35.85	34.90

Mt-6--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	27.50	27.20	25.33	26.28	29.00	32.21	34.08	.....	.....	38.50	35.80	34.95
7	27.20	27.30	25.40	26.49	28.67	33.59	34.19	.....	.....	36.90	35.90	35.00
8	26.80	27.40	.....	26.35	29.15	33.75	33.02	.....	.....	36.55	35.95	34.85
9	26.95	27.45	25.48	26.36	29.41	33.95	34.24	.....	.....	36.50	35.95	34.45
10	27.05	27.50	25.52	26.46	30.35	32.80	34.44	38.10	.....	36.40	35.90	33.90
11	27.20	27.40	25.45	26.42	29.42	33.95	34.68	38.08	.....	36.40	35.80	33.45
12	27.25	27.40	25.62	26.41	29.15	34.14	34.87	36.90	.....	36.75	35.80	33.05
13	27.25	27.30	25.70	26.39	29.00	34.20	35.10	38.00	.....	36.75	35.75	32.95
14	27.15	27.10	25.73	26.38	29.58	34.18	35.18	38.19	.....	36.40	35.80	32.85
15	26.90	26.80	25.59	26.20	29.78	34.48	33.99	38.39	.....	36.30	35.80	32.75
16	26.70	26.60	25.63	26.07	31.30	39.51	35.33	38.44	.....	36.70	35.70	32.70
17	26.50	26.65	25.62	26.12	31.70	34.51	35.58	38.58	.....	36.80	35.55	32.60
18	26.50	26.55	25.54	26.21	31.86	34.75	35.78	.....	.....	37.00	35.45	32.75
19	26.40	26.35	25.50	26.47	32.04	35.00	35.98	.....	.....	36.70	35.25	32.80
20	26.30	26.25	25.60	26.61	30.50	35.19	36.14	.....	.....	36.55	35.20	32.90
21	26.20	26.00	25.68	26.74	32.15	35.36	36.25	.....	.....	36.40	35.20	33.00
22	26.05	25.62	25.75	26.60	32.38	35.56	35.00	.....	.....	36.90	35.10	32.95
23	26.15	25.11	25.82	26.22	31.17	35.53	36.30	.....	.....	37.05	35.15	32.80
24	26.30	24.75	25.82	26.79	32.28	34.32	35.30	.....	.....	36.70	35.10	32.70
25	26.45	24.54	25.66	27.03	32.63	35.37	36.40	.....	.....	36.55	34.95	32.50
26	26.55	24.61	25.50	27.20	32.75	35.48	36.80	.....	.....	36.55	34.85	32.40
27	26.70	24.68	25.63	27.37	31.12	35.40	37.03	.....	.....	36.50	34.75	32.30
28	36.65	24.80	25.82	27.58	30.70	35.49	37.08	.....	.....	36.35	34.75	32.05
29	26.70	.....	25.01	27.52	31.05	35.31	37.68	.....	.....	36.15	34.75	31.95
30	26.80	.....	25.95	28.27	31.00	34.98	37.05	.....	.....	36.15	34.85	31.80
31	26.85	.....	25.86	.....	32.50	.....	37.30	.....	.....	36.15	.....	31.60

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 18.20 below lsd, Dec. 16, 1949. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.86	12.40	13.00	14.04	13.72	15.20	16.37	17.19	17.76	17.96
2	11.90	12.45	13.03	14.06	13.72	15.25	16.37	17.22	17.77	17.95
3	11.93	12.53	13.04	14.08	13.71	15.30	16.37	17.25	17.78	17.94
4	11.85	12.61	13.07	14.16	13.71	15.31	16.42	17.28	17.77	17.94
5	11.94	12.67	13.10	14.20	13.79	15.32	16.46	17.31	17.78	17.92
6	12.00	12.69	13.14	14.24	13.86	15.34	16.50	17.43	17.78	17.92
7	12.06	12.69	13.21	14.29	13.89	15.39	16.56	.....	17.79	17.91
8	12.08	12.70	13.26	14.31	13.94	15.45	16.56	.....	17.82	17.83
9	12.19	12.74	13.31	14.29	14.05	15.50	16.56	.....	17.84	17.65
10	12.24	12.74	13.33	14.31	14.10	15.54	16.61	.....	17.84	17.48
11	12.28	12.68	13.35	14.37	14.17	15.55	16.65	.....	17.84	17.99
12	12.33	12.58	13.34	14.41	14.20	15.57	16.69	17.45	17.86	.....
13	12.33	12.50	13.37	14.45	14.25	15.67	16.71	17.45	17.86	.....
14	12.31	12.42	13.45	14.48	14.27	15.73	16.75	17.44	17.85	.....
15	12.26	12.33	13.51	14.52	14.30	15.77	16.75	17.47	17.85	.....
16	12.31	12.37	13.55	14.54	14.38	15.81	16.75	17.49	17.86	17.40
17	12.33	12.40	13.59	14.58	14.44	15.86	16.82	17.52	17.86	.....
18	12.36	12.42	13.63	14.66	14.50	15.87	16.87	17.52	17.85	.....
19	12.42	12.50	13.64	14.71	14.55	15.87	16.91	17.55	17.85	.....
20	12.44	12.55	13.68	14.76	14.60	15.94	16.95	17.56	17.88	.....
21	12.48	12.56	13.69	14.82	14.64	16.02	16.99	17.56	17.90	.....
22	12.48	12.57	13.72	14.85	14.67	16.05	16.98	17.60	17.91	.....
23	12.47	12.63	13.71	14.76	14.74	16.09	.....	17.63	17.88	.....
24	12.46	12.65	13.76	14.76	14.79	16.13	17.01	17.63	17.88	17.36
25	12.48	12.71	13.82	14.83	14.86	16.13	17.06	17.67	17.88	.....
26	12.50	12.78	13.82	14.87	14.91	16.14	17.09	17.66	17.87	.....
27	12.56	12.82	13.85	14.88	14.96	16.18	17.13	17.70	17.90	.....
28	12.56	12.86	13.88	13.78	14.98	16.22	17.16	.....	17.93	.....
29	12.52	12.88	13.92	13.78	15.00	16.26	17.17	.....	17.95	16.80
30	12.44	12.96	13.93	13.74	15.09	16.32	.....	17.72	.....	16.75
31	12.35	.....	13.94	.....	15.15	16.36	.....	17.75	.....	16.58

Muskingum County

Mu-1. City of Zanesville. Water Works. Lat. 39°57'15", long. 81°59'30". Drilled unused well in gravel, diameter 6 inches, depth 150 feet. Highest water level 11.40 below lsd, Mar. 29, 1945; lowest 35.60 below lsd, Dec. 24, 1951. Records available: 1942-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.75	24.70	18.73	19.45	19.50	21.60	22.75	25.05	30.25	29.00	.....	33.90
2	28.99	24.89	18.95	19.36	19.50	22.15	22.60	25.30	30.25	29.25	32.15	33.95
3	29.01	.....	19.37	19.41	19.25	22.20	22.80	25.45	29.65	29.50	32.10	34.00
4	29.25	.....	19.81	19.42	19.65	22.55	22.55	25.55	29.35	29.70	32.05	34.10
5	29.13	.....	19.85	19.40	20.20	22.30	22.25	.....	.....	30.00	32.05	34.30
6	28.98	25.76	19.58	19.75	20.70	22.00	22.35	24.95	29.35	30.00	32.05	34.35
7	29.04	25.77	19.59	20.10	20.55	21.75	23.10	24.60	29.50	29.80	32.10	34.45
8	27.90	25.89	19.10	20.12	20.40	21.95	23.15	25.00	29.15	29.80	32.20	34.50
9	27.06	26.03	19.50	19.69	20.30	22.65	22.70	25.45	28.80	29.80	32.35	34.25
10	26.81	26.00	19.60	20.25	19.95	22.30	23.10	25.75	29.00	29.90	32.40	34.30
11	26.32	26.10	19.06	20.50	20.20	22.00	23.35	26.20	29.00	30.10	32.50	34.25
12	26.26	25.78	19.38	20.55	20.50	21.90	23.45	26.35	29.00	30.05	32.50	34.30
13	26.16	25.89	18.80	20.50	20.25	22.15	23.50	26.45	29.25	30.10	32.60	34.35
14	26.14	25.66	20.00	19.30	20.25	21.50	23.40	26.65	29.40	30.00	32.70	34.25
15	26.17	25.47	20.48	18.75	20.20	21.70	22.95	27.30	29.45	30.15	32.80	34.20
16	26.18	24.78	20.53	19.25	.....	22.20	23.45	28.05	29.40	30.15	32.90	34.45
17	25.50	24.60	20.60	19.25	.....	22.25	23.50	28.55	29.10	30.30	32.95	.....
18	25.31	23.75	19.74	19.95	.....	22.25	23.95	28.75	29.15	30.60	33.05	34.60
19	24.65	23.15	19.65	19.90	.....	22.70	24.15	28.90	29.25	30.85	32.90	34.80
20	24.43	22.06	20.02	19.90	.....	22.85	24.25	29.05	29.35	31.05	33.10	35.05
21	23.93	21.63	20.03	20.55	.....	23.00	24.55	29.40	29.50	31.10	33.30	35.30
22	23.58	21.11	19.25	20.65	.....	23.15	24.50	29.50	29.60	31.20	33.40	35.45
23	23.35	20.63	18.73	20.60	.....	23.00	24.15	29.70	29.55	31.10	33.30	35.55
24	23.42	19.32	18.73	20.80	.....	.....	24.35	29.75	29.40	.....	33.35	35.60
25	23.56	19.40	18.55	20.75	22.70	22.70	24.40	29.80	29.40	.....	33.25	35.55
26	23.62	19.01	18.69	19.60	22.70	22.35	24.45	29.85	29.50	.....	33.25	35.10
27	23.88	18.97	18.69	20.25	22.05	23.00	24.55	29.75	29.60	.....	33.50	35.10
28	.....	18.73	19.13	20.00	22.05	22.45	24.60	29.30	29.70	.....	33.55	35.10
29	.....	.....	19.56	20.10	22.15	22.25	24.50	29.45	29.70	.....	33.75	35.00
30	24.33	.....	20.24	20.05	22.45	22.75	24.45	29.40	.....	.....	33.80	34.95
31	24.47	.....	20.30	.....	22.20	.....	29.90	.....	.....	.....	.....	34.75

Mu-2. State of Ohio. Lat. 39°57'00", long. 82°01'30". Drilled test well in gravel, diameter 6 inches, depth 54 feet. Highest water level 2.82 below lsd, Apr. 14, 1948; lowest 8.32 below lsd, Sept. 3-4, 1951. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.30	.....	5.05	4.80	6.21	7.26	7.37	8.00	8.23	8.23	8.26	7.87
2	7.31	.....	5.33	5.04	6.26	7.31	7.41	8.01	8.27	8.22	8.26	7.91
3	7.16	.....	5.41	.....	6.27	7.33	7.44	8.01	8.32	8.23	.....	7.92
4	5.70	.....	5.28	5.20	6.30	7.34	7.49	8.03	8.32	8.25	.....	7.91
5	5.33	.....	5.08	5.38	6.39	7.38	7.55	8.05	8.31	8.26	8.29	7.88
6	5.44	.....	5.16	5.54	6.46	7.42	7.59	8.04	8.30	8.26	.....	7.79
7	5.48	.....	5.15	5.59	6.54	7.43	7.64	8.01	8.26	8.26	.....	7.76
8	5.60	.....	4.91	5.61	6.59	7.45	7.66	8.02	8.28	8.23	8.08	7.57
9	5.78	.....	5.14	5.61	6.63	7.45	7.69	8.06	8.29	8.24	8.10	7.30
10	5.96	.....	5.32	5.56	6.67	7.37	7.72	8.09	8.29	8.20	8.15	6.92
11	6.03	.....	5.41	5.60	6.62	7.37	7.72	8.10	8.27	8.16	8.17	6.99
12	6.14	.....	5.55	5.62	6.45	7.41	7.67	8.12	8.28	8.15	8.17	7.11
13	6.24	4.30	5.57	5.60	6.58	7.41	7.69	8.12	8.29	8.15	8.17	7.26
14	6.26	4.85	5.40	.....	6.67	7.45	7.72	8.13	8.20	8.14	8.14	7.28
15	4.90	5.05	.....	.....	6.73	7.48	7.75	8.14	8.22	8.13	8.09	7.36
16	5.05	5.05	.....	.....	6.78	7.53	7.78	8.15	8.23	8.11	8.07	7.45
17	5.11	4.90	.....	.....	6.84	7.56	7.81	8.16	8.24	8.14	.....	7.46
18	5.12	4.53	.....	5.53	6.88	7.59	7.82	8.18	8.25	8.17	.....	7.44
19	5.13	4.53	.....	5.66	6.92	7.62	7.79	8.18	8.27	8.20	8.16	7.50
20	5.26	4.38	.....	5.79	6.97	.....	7.84	8.18	8.28	8.21	.....	7.48
21	5.46	3.77	5.01	5.84	7.00	7.64	7.87	8.19	8.29	8.24	8.16	7.39
22	5.62	4.22	5.08	5.85	7.03	7.65	7.88	8.23	8.29	8.25	8.17	6.76
23	5.72	4.37	5.15	5.74	7.00	7.57	7.88	8.25	8.26	8.25	8.12	6.70
24	5.80	4.51	5.19	5.70	7.04	7.47	7.87	8.25	8.26	8.24	7.88	6.86
25	5.91	4.55	5.35	5.82	7.08	7.55	7.88	8.25	8.26	8.25	7.69	6.87

Mu-2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	6.01	4.61	5.48	5.98	7.11	7.57	7.90	8.25	8.26	8.25	7.70	6.74
27	6.11	4.71	5.57	6.02	7.09	7.60	7.91	8.25	8.24	8.24	7.72	6.30
28	6.20	4.81	5.57	6.10	7.10	7.53	7.91	8.24	8.22	8.25	7.76	6.43
29	6.33		4.74	6.10	7.15	7.53	7.91	8.26	8.24	8.26	7.81	6.49
30	6.44		4.56	6.12	7.19	7.53	7.94	8.27	8.24	8.26	7.85	6.49
31	6.45		4.69		7.23		7.96	8.27		8.26		5.65

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 21.09 below lsd, Jan. 4, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	19.42	18.97	16.72	.....	.....	16.58	17.84	19.22	19.77	20.26	.....
2	.....	19.47	18.96	16.61	.....	.....	16.62	.....	19.24	19.82	20.26	.....
3	.....	19.47	18.86	17.09	.....	.....	16.64	17.91	19.26	19.83	20.26	.....
4	.....	19.41	18.79	17.08	.....	.....	16.62	17.98	.....	19.81	.....	.....
5	16.78	19.43	18.76	17.18	.....	.....	16.73	18.02	.....	19.83	20.36	.....
6	.....	19.42	18.65	17.05	.....	.....	16.77	18.03	19.42	19.87	.....	.....
7	.....	19.40	18.54	16.93	.....	15.74	16.79	18.03	.....	19.87	20.26	.....
8	.....	19.45	18.45	.....	.....	15.70	16.79	18.08	19.37	19.89	20.36	.....
9	.....	19.46	18.38	.....	.....	15.72	16.85	18.13	19.39	19.92	20.36	.....
10	.....	19.42	18.34	17.30	.....	15.77	16.91	18.18	19.38	19.93	20.36	.....
11	.....	19.36	18.23	.....	.....	15.84	16.94	18.21	19.41	19.93	20.36	20.30
12	19.73	19.39	18.13	.....	.....	15.86	17.00	18.27	19.48	19.98	20.39	20.27
13	.....	19.40	17.97	.....	.....	15.84	17.04	18.32	.....	20.00	20.36	20.25
14	.....	19.41	17.89	.....	.....	15.90	17.07	18.33	19.47	19.99	20.40	20.31
15	.....	19.37	17.86	.....	.....	15.90	17.11	18.38	19.52	20.02	20.41	20.31
16	.....	19.32	17.84	.....	.....	15.95	17.12	18.40	.....	20.02	20.41	20.29
17	.....	19.31	17.83	17.30	.....	16.02	17.19	18.46	.....	20.04	20.41	20.31
18	.....	19.29	17.72	.....	.....	16.05	17.22	18.51	.....	20.05	20.43	20.30
19	19.60	19.28	17.64	.....	.....	16.06	17.23	18.58	19.61	20.07	20.45	.....
20	19.44	19.27	17.56	.....	.....	16.05	17.32	18.60	.....	20.07	.....	20.28
21	19.49	19.24	17.50	.....	.....	16.16	17.35	18.73	.....	20.09	20.47	20.22
22	19.49	19.22	17.44	.....	.....	.....	17.41	18.75	.....	20.12	.....	20.21
23	19.44	19.21	17.33	.....	.....	16.23	17.44	18.82	.....	20.12	.....	20.21
24	19.91	19.18	17.26	.....	.....	16.26	17.46	.....	.....	20.16	.....	20.21
25	19.41	19.16	17.26	.....	.....	16.33	17.50	.....	.....	20.19	.....	20.15
26	19.43	19.07	17.23	.....	.....	16.33	17.54	.....	19.75	20.17	.....	20.14
27	19.47	19.08	17.16	.....	.....	16.33	17.57	19.13	.....	20.18	.....	20.08
28	19.45	19.08	17.05	.....	.....	16.40	17.62	.....	.....	20.19	.....	20.03
29	19.46	.....	16.98	.....	.....	16.45	17.67	19.13	.....	20.22	.....	.....
30	19.49	.....	16.86	.....	.....	16.51	17.72	19.18	19.72	20.22	.....	20.02
31	19.45	.....	16.78	.....	.....	.....	17.76	19.21	.....	20.26	.....	19.95

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 28.30 below lsd, June 16, 1950; lowest 32.50 below lsd, Nov. 19, 1951. Records available: 1950-51.

Daily lowest water level from recorder graph, 1950*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.95	28.95	29.68	30.10	30.60	31.23	32.08
2	29.01	28.87	29.70	30.15	30.73	31.30	32.00
3	28.83	28.84	29.75	30.15	30.55	31.30	31.90
4	28.87	28.82	29.75	30.28	30.55	31.36	31.88
5	28.86	28.85	29.70	30.32	30.65	31.58	32.00
6	29.04	28.97	29.70	30.30	30.65	31.54	31.90
7	29.11	29.13	29.75	30.20	30.65	31.52	31.78
8	29.03	.....	29.85	30.15	30.55	31.38	31.70
9	28.91	.....	29.78	30.10	30.50	31.55	31.55
10	28.71	29.11	29.73	30.12	30.78	31.55	31.30
11	28.78	28.08	29.80	30.15	30.88	31.56	31.20
12	28.80	29.05	.....	30.20	31.15	31.63	31.20
13	28.65	29.08	.....	30.30	31.33	31.52	31.23
14	28.61	29.20	.....	30.28	31.37	31.55	31.24
15	28.35	29.20	.....	30.30	31.55	31.43	31.20

Po-4--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	28.40	29.16	.....	30.45	31.58	31.38	31.23
17	.....	28.70	29.15	.....	30.55	31.43	31.52	31.13
18	28.77	28.67	29.25	29.90	30.50	31.48	31.55	31.11
19	28.77	28.45	29.25	29.90	30.35	31.30	31.38	31.05
20	28.80	28.50	29.29	30.05	30.35	31.38	31.53	31.25
21	28.80	28.73	29.45	30.05	30.30	.....	31.55	31.25
22	28.71	28.73	29.52	30.05	30.35	.....	31.69	31.20
23	28.73	28.78	29.48	30.08	30.60	.....	31.82	31.18
24	28.75	28.54	29.50	30.10	30.68	.....	31.98	31.13
25	28.74	28.60	29.50	30.08	30.58	31.35	31.65	31.24
26	28.81	28.60	29.55	30.12	30.62	31.41	31.70	31.40
27	28.80	28.75	29.58	30.08	30.55	31.30	31.90	31.43
28	28.75	28.76	29.59	30.05	30.57	31.30	31.90	31.26
29	28.75	28.73	29.60	30.08	30.57	31.35	31.78	31.34
30	28.71	28.86	29.65	30.10	30.50	31.33	32.08	31.32
31	28.77	.....	29.65	30.10	.....	31.25	.....	31.50

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

Daily lowest water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.50	30.23	29.40	27.82	26.75	28.81	29.16	30.47	30.90	31.40	32.10	32.30
2	31.44	30.54	29.50	27.67	26.60	28.57	29.30	30.48	30.89	31.40	32.15	32.30
3	31.20	30.47	29.28	27.66	26.27	28.57	29.31	30.24	30.93	31.45	32.05	32.30
4	31.62	30.03	29.66	27.94	25.70	28.63	.....	.....	30.95	31.55	32.25	32.25
5	31.69	30.12	29.22	28.17	25.92	28.64	29.48	.....	30.89	31.55	.....	32.25
6	31.43	30.20	29.05	28.19	26.00	28.60	29.51	.....	30.93	31.55	32.35	32.20
7	31.37	30.18	28.67	28.05	26.04	28.58	29.42	.....	31.14	31.50	.....	32.25
8	31.30	30.57	28.73	28.00	26.07	28.40	29.30	.....	.....	31.60	.....	32.40
9	31.31	30.71	28.98	28.00	26.43	28.40	29.32	30.51	.....	31.70	32.25	32.20
10	31.17	30.63	28.99	27.95	26.57	28.50	29.37	30.55	.....	31.80	32.30	32.20
11	31.17	30.16	28.77	27.91	27.34	28.60	29.37	30.55	.....	.....	32.40	31.90
12	31.19	29.95	28.43	27.56	27.80	28.68	29.40	30.65	.....	31.90	32.30	32.25
13	31.20	30.21	28.06	27.41	28.18	28.90	29.47	30.73	31.25	31.90	32.25	.....
14	31.80	30.37	27.95	26.90	28.30	29.03	29.56	30.78	31.30	31.90	32.30	31.75
15	30.56	30.38	28.40	27.17	28.16	29.05	29.51	30.80	31.25	31.85	32.40	32.10
16	30.90	30.27	28.84	27.31	27.80	29.07	29.46	30.96	31.25	31.85	32.40	32.25
17	30.65	30.28	29.03	27.46	27.41	29.10	29.61	31.02	31.20	31.90	32.40	32.10
18	30.65	30.23	28.99	27.49	27.48	29.17	29.63	31.08	31.15	31.85	.....	.....
19	30.79	30.05	28.81	27.61	27.48	29.14	29.78	31.10	31.40	.....	32.50	32.05
20	30.59	29.90	28.85	27.85	27.37	28.95	30.02	31.02	31.40	.....	.....	.....
21	30.94	29.80	28.80	27.85	27.57	29.03	30.03	30.90	31.30	.....	32.40	31.75
22	30.94	29.87	28.92	27.75	27.65	28.94	30.11	31.00	31.20	.....	32.45	32.05
23	30.44	29.91	28.65	27.85	27.96	29.01	30.14	31.07	31.45	31.95	32.35	32.00
24	30.16	29.89	28.60	27.75	28.08	29.02	30.17	31.03	31.35	32.00	32.50	32.05
25	30.18	29.74	28.60	27.30	28.25	29.10	30.25	31.04	31.35	32.05	32.50	31.85
26	30.33	29.58	28.65	27.20	28.27	29.05	30.28	30.97	31.40	32.05	32.40	31.80
27	30.40	29.55	28.41	27.20	28.07	29.18	30.29	30.90	31.50	31.95	32.45	.....
28	30.40	29.62	28.12	26.85	28.40	29.15	30.20	30.92	31.55	31.95	.....	31.30
29	30.38	.....	27.87	26.60	28.75	29.17	30.17	31.08	31.50	32.05	.....	31.20
30	30.56	.....	27.63	26.70	28.91	29.13	30.15	31.08	31.45	32.05	32.35	31.35
31	30.22	.....	27.84	.....	29.01	.....	30.13	30.97	.....	32.20	.....	31.35

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 20.70 below lsd, Aug. 31, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.12	9.84	10.55	11.45	13.00	15.10	14.30	16.65	19.65	16.85	17.95	13.65
2	12.71	10.10	10.62	12.55	13.10	15.35	15.65	17.00	19.10	16.80	18.30	13.60
3	12.55	10.50	10.22	12.75	12.70	14.70	15.85	16.70	19.40	17.45	19.10	13.95
4	12.70	11.08	10.26	12.70	12.50	14.95	15.70	16.45	18.90	17.05	17.15	13.70
5	12.60	.....	11.20	11.90	13.05	15.15	15.80	15.65	18.05	17.25	17.20	13.90

Pu-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	11.20	10.87	10.60	12.65	12.05	15.20	15.70	15.90	17.10	17.00	17.60	13.05
7	.....	10.55	10.90	13.00	12.70	14.80	15.95	15.75	16.80	16.15	16.90	13.60
8	11.31	10.74	11.09	11.65	12.00	14.65	15.40	16.05	16.15	17.00	16.10	13.25
9	12.98	11.00	10.53	13.20	12.35	14.60	15.50	16.05	15.35	17.20	15.50	12.80
10	12.80	10.98	10.82	13.15	13.05	13.85	.....	16.40	15.30	17.35	15.25	12.70
11	12.55	11.90	10.70	12.60	12.55	14.70	.....	17.15	15.30	17.30	14.95	12.40
12	12.93	11.52	11.22	11.30	12.30	14.80	.....	15.85	16.90	17.35	14.30	12.60
13	12.70	11.14	10.91	11.65	11.90	14.45	.....	16.75	17.05	17.30	14.15	12.60
14	11.00	11.33	10.62	12.00	13.65	14.60	.....	17.40	17.35	15.55	14.10	12.40
15	12.57	11.05	10.78	11.65	13.65	14.55	15.45	16.70	17.10	16.25	14.15	12.75
16	12.45	10.80	10.81	12.25	13.75	14.55	16.40	17.90	16.05	16.20	13.90	12.00
17	12.40	11.13	11.10	12.10	14.00	14.10	16.45	17.75	16.70	16.45	13.80	.....
18	11.90	11.13	10.80	12.45	14.00	15.00	16.30	17.80	17.00	16.85	13.70	.....
19	12.30	10.23	11.05	11.20	14.40	14.80	16.40	16.60	17.15	16.80	13.90	.....
20	12.09	10.74	11.00	11.90	13.70	15.00	16.25	18.00	17.35	17.05	14.10	13.40
21	10.80	10.86	11.10	12.30	14.25	15.10	16.30	17.85	17.80	17.35	14.45	.....
22	12.08	11.05	11.55	12.25	14.40	15.00	16.10	18.00	17.10	19.05	14.00	.....
23	12.10	11.34	10.90	.....	13.95	15.00	16.45	17.75	16.00	19.45	14.10	.....
24	11.90	11.47	11.15	.....	14.70	14.25	16.20	17.80	16.40	19.00	14.20	.....
25	11.90	10.72	10.60	.....	15.10	14.75	16.00	17.20	16.70	18.90	14.05	11.18
26	12.44	10.31	11.25	.....	15.00	14.80	16.55	17.10	16.75	19.20	14.20	11.70
27	12.12	10.96	11.00	.....	14.15	15.00	16.75	17.45	17.05	18.90	14.45	11.70
28	10.68	10.52	11.15	.....	14.70	15.05	16.40	17.90	17.15	18.15	14.05	11.65
29	11.98		10.95	12.30	15.05	15.15	15.50	18.35	17.20	18.70	13.70	11.65
30	10.19		11.40	12.95	15.15	15.05	16.40	18.85	15.95	18.40	13.95	11.50
31	9.98		10.85		14.80		16.70	20.70		18.30		11.40

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 28.00 below lsd, Oct. 17, 1948. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.27	25.49	24.74	25.04	25.09	26.13	26.69	26.88	27.23	27.51	27.59	27.23
2	26.30	25.54	24.80	25.04	25.09	26.16	26.69	26.90	27.24	27.51	27.59	27.23
3	26.29	25.60	24.83	25.07	25.08	26.19	26.70	26.90	27.28	27.52	27.59	27.23
4	25.80	25.65	24.81	25.12	25.12	26.20	26.71	26.80	27.32	27.53	27.60	27.23
5	25.33	25.70	24.74	25.17	25.19	26.22	26.67	26.81	27.35	27.63	27.61	27.21
6	25.20	25.72	24.77	25.21	25.23	26.25	26.68	26.81	27.38	27.74	27.61	27.19
7	25.16	25.74	24.85	25.24	25.27	26.29	26.70	26.82	27.39	27.59	27.55	27.18
8	25.17	25.76	24.91	25.26	25.33	26.31	26.72	26.83	27.40	27.53	27.50	27.09
9	25.20	25.78	24.98	25.28	25.39	26.33	26.74	26.85	27.40	27.55	27.49	26.97
10	25.23	25.80	25.05	25.29	25.42	26.34	26.76	26.87	27.41	.....	27.49	26.65
11	25.29	25.91	25.10	25.31	25.41	26.38	26.78	26.88	27.43	.....	27.48	26.50
12	25.34	25.80	25.14	25.33	25.38	26.42	26.80	26.90	27.44	.....	27.48	26.41
13	25.37	25.40	25.17	25.34	25.40	26.44	26.82	26.92	27.45	27.55	27.48	26.37
14	25.37	24.98	25.19	25.34	25.45	26.46	26.84	26.93	27.42	27.56	27.46	26.37
15	25.28	24.87	25.21	25.22	25.49	26.49	26.86	26.95	27.43	27.56	27.43	26.36
16	25.15	24.83	25.24	25.16	25.54	26.51	26.87	26.98	27.43	27.56	27.42	26.36
17	25.13	24.81	25.26	25.17	25.60	26.54	26.90	27.00	27.43	27.57	27.39	26.36
18	25.13	24.72	25.26	25.18	25.65	26.57	26.92	27.02	27.44	27.58	27.38	26.37
19	25.03	24.70	25.21	25.23	25.70	26.60	26.93	27.04	27.45	27.58	27.37	26.39
20	24.97	24.66	25.17	25.28	25.73	26.60	26.96	27.05	27.46	27.58	27.37	26.38
21	24.95	24.60	25.18	25.29	25.78	26.62	26.98	27.07	27.47	27.58	.....	26.36
22	24.97	24.44	25.21	25.30	25.81	26.62	27.00	27.09	27.47	27.58	.....	26.32
23	24.99	24.39	25.22	25.27	25.86	26.61	26.92	27.10	27.48	27.58	27.35	26.25
24	25.05	24.42	25.19	25.28	25.89	26.61	26.79	27.12	27.48	27.58	27.32	26.22
25	25.10	24.46	25.22	25.32	25.94	26.62	26.76	27.13	27.48	27.59	27.30	26.21
26	25.15	24.52	25.26	25.34	25.96	26.64	26.75	27.15	27.49	27.59	27.27	26.12
27	25.22	24.60	25.29	25.37	25.99	26.66	26.76	27.15	27.50	27.58	27.25	25.94
28	25.27	24.67	25.29	25.39	25.99	26.68	26.79	27.16	27.51	27.58	27.24	25.87
29	25.33		25.27	25.31	26.02	26.69	26.81	27.18	27.51	27.58	27.23	25.83
30	25.38		25.16	25.14	26.06	26.70	26.83	27.19	27.51	27.58	27.23	25.81
31	25.43		25.07		26.10		26.85	27.21		27.59		25.53

306 WATER LEVELS AND ARTESIAN PRESSURES, 1951, NORTHEASTERN STATES

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 29.25 below lsd, Nov. 21, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.44	25.97	25.36	24.65	25.04	25.55	26.10	27.25	28.35	28.30	28.85	29.00
2	26.31	26.25	25.32	24.76	24.97	25.70	26.30	27.25	28.45	28.15	28.80	29.00
3	26.02	25.95	24.89	24.72	24.75	25.47	26.25	27.25	28.50	28.25	.....	29.05
4	26.05	25.67	25.19	24.71	24.72	25.74	26.05	27.55	28.35	28.35	28.65	28.90
5	26.32	26.12	25.37	24.91	24.80	25.66	26.40	27.50	28.40	28.35	.....	29.90
6	26.39	26.24	25.03	24.74	25.05	25.62	26.40	27.30	28.35	28.55	.....	28.85
7	26.07	26.04	25.11	24.53	25.11	25.55	26.50	27.15	28.50	28.25	.....	28.95
8	26.05	26.34	25.11	24.24	25.08	25.50	26.15	27.40	28.40	28.55	.....	29.00
9	26.21	26.62	25.42	24.52	25.15	25.50	26.25	27.55	28.30	28.65	.....	28.90
10	26.10	26.60	25.49	24.58	24.95	25.67	26.50	27.75	28.10	28.65	.....	28.90
11	26.07	26.24	25.35	24.80	24.91	25.83	26.50	27.85	28.30	28.60	29.05	28.65
12	26.22	26.18	25.00	24.47	25.13	25.59	26.50	27.90	28.20	28.80	28.80	28.60
13	.....	26.52	24.92	24.37	25.05	25.53	26.65	28.00	28.15	28.75	28.65	28.95
14	25.54	26.68	24.78	24.65	25.36	25.70	26.70	28.00	28.25	28.70	28.55	28.80
15	25.83	26.53	24.87	24.90	25.34	25.70	26.75	27.85	28.30	28.65	28.80	28.75
16	26.01	26.08	25.05	24.95	25.17	25.62	26.90	27.90	28.30	28.60	28.85	28.80
17	25.82	26.12	25.17	25.07	25.04	25.45	27.10	27.95	28.25	28.75	29.00	.....
18	25.75	25.96	25.06	24.85	25.14	25.90	26.85	28.10	28.20	28.70	29.00	.....
19	25.80	25.88	25.02	24.96	25.11	25.88	26.90	28.00	28.35	28.75	29.20	.....
20	25.64	25.67	25.10	25.16	24.91	25.60	27.10	28.15	28.40	28.65	.....	.....
21	26.24	25.70	24.97	24.85	25.01	25.90	27.05	27.75	28.35	28.60	29.25	.....
22	26.28	25.83	25.06	25.03	24.90	25.77	26.70	28.10	28.25	28.65	.....	.....
23	25.87	25.79	24.56	25.11	24.74	25.98	27.10	28.35	28.35	28.65	28.95	28.55
24	25.72	25.56	24.92	25.07	24.97	25.95	27.10	28.40	28.25	28.60	29.10	28.75
25	25.76	25.29	25.05	24.97	24.97	26.00	27.15	28.45	28.30	28.95	29.05	28.35
26	25.73	25.14	25.20	25.18	25.02	26.05	27.30	28.05	28.15	28.80	28.85	28.50
27	25.81	25.37	25.02	25.02	24.80	25.95	27.20	28.15	28.15	28.70	29.05	.....
28	25.83	25.23	24.84	24.80	24.97	26.20	27.20	28.30	28.55	28.65	28.80	28.65
29	26.07	.....	24.55	24.85	25.21	26.00	27.05	28.45	28.65	28.85	29.05	.....
30	26.20	.....	24.58	25.09	25.53	26.05	27.25	28.30	28.40	28.60	29.10	27.80
31	25.97	.....	24.76	.....	25.54	.....	27.15	28.20	.....	28.95	.....	27.90

R-4. City of Mansfield. North Main St. pumping station. 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 53.80 below lsd, Mar. 30, 1945. Records available: 1942-47, 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	48.55	46.97	.....	46.31	49.12	46.85	46.90	.....	48.85	52.30	51.50
2	.....	48.91	47.22	42.65	47.12	49.20	44.65	46.90	.....	50.65	52.50	50.70
3	47.10	48.85	47.22	43.59	46.44	48.35	45.51	47.20	.....	51.35	52.50	49.35
4	48.29	46.17	45.40	45.41	46.36	47.62	42.90	47.20	49.20	51.80	51.15	51.05
5	48.89	44.74	44.30	45.84	46.39	49.20	40.55	46.55	50.90	52.10	49.80	51.30
6	48.92	46.69	45.88	46.01	44.87	50.12	41.00	47.70	51.65	52.15	51.15	52.05
7	47.25	47.66	46.63	46.08	44.87	50.60	41.00	48.85	52.20	51.05	51.70	52.25
8	45.50	48.10	46.68	43.75	46.01	50.75	39.12	49.30	52.30	50.20	52.25	52.30
9	47.30	48.22	46.20	43.36	46.50	50.85	44.70	50.20	51.15	51.60	52.40	51.00
10	48.00	48.22	45.75	45.20	46.60	49.60	48.09	50.85	47.75	52.05	52.45	49.95
11	48.68	47.03	41.80	45.61	46.80	48.60	49.05	50.90	49.30	52.30	51.00	51.05
12	49.10	46.21	43.60	45.81	46.85	50.00	49.10	49.50	.....	52.50	49.50	51.20
13	49.15	47.80	45.70	46.02	45.42	50.12	48.85	47.95	49.60	52.50	51.10	52.10
14	46.90	48.15	46.35	46.04	46.15	50.95	48.65	50.60	51.00	50.90	51.85	52.25
15	46.16	48.15	46.58	44.00	48.01	51.00	47.60	51.20	51.40	50.10	52.30	.....
16	47.72	48.11	46.58	44.10	48.60	51.00	45.25	51.85	50.35	51.55	52.60	.....
17	48.12	48.11	46.42	45.18	49.03	49.78	47.65	52.10	48.80	52.10	52.65	52.05
18	48.16	47.90	44.39	45.69	49.41	48.85	48.60	52.10	51.10	52.40	51.20	.....
19	48.96	46.12	43.71	46.16	49.43	50.48	49.20	.....	51.75	52.45	49.95	.....
20	48.96	47.34	45.55	46.41	48.12	50.62	49.40	.....	52.05	52.50	51.50	.....
21	46.72	47.85	46.41	46.42	46.78	51.52	49.40	.....	52.10	51.05	51.95	.....
22	45.40	47.92	46.64	42.89	48.42	51.58	46.50	.....	52.00	49.90	51.95	.....
23	47.00	46.40	46.66	42.70	49.10	51.59	45.85	.....	50.60	51.45	45.75	.....
24	47.80	46.93	46.60	46.03	49.55	49.30	.....	.....	49.65	52.15	45.00	.....
5	47.99	46.75	44.12	46.63	49.90	49.20	47.05	.....	51.45	52.45	43.50	.....

R-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	47.99	43.22	42.80	46.48	49.90	51.10	47.35	.....	51.95	52.50	48.15	42.55
27	47.96	45.90	45.27	46.51	48.00	51.85	47.50	.....	52.00	52.45	50.30	53.05
28	45.83	46.60	45.70	46.29	46.68	52.18	47.45	.....	51.25	52.25	51.05	43.05
29	45.15		46.20	43.90	48.69	52.22	46.65	.....	49.95	49.35	51.00	42.85
30	47.28		46.50	43.36	48.20	51.80	45.15	.....	48.80	51.25	51.45	41.10
31	47.97		.....		46.50		46.30	.....		51.95		40.35

Ross County

Ro-3. Mead Paper Co. Hickory St. and Baltimore & Ohio Railroad tracks, Chillicothe. 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: 1941-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	29.70	27.15	.....	30.00	31.80	33.85	33.95	37.45	38.25	39.70	40.80
2	.....	29.75	27.20	.....	30.05	31.90	33.85	34.05	37.60	38.30	39.80	40.80
3	.....	29.80	27.30	.....	30.15	32.00	33.80	34.25	37.65	38.35	39.85	40.80
4	.....	29.80	27.45	.....	30.30	32.00	33.55	34.40	47.65	38.45	39.95	40.80
5	.....	29.85	27.45	.....	30.35	32.00	33.20	34.50	37.55	38.70	40.05	40.85
6	.....	29.90	27.55	.....	.....	32.00	32.75	34.55	37.50	38.75	40.05	40.85
7	.....	29.95	27.65	.....	.....	32.05	32.25	34.55	37.55	38.85	40.05	40.90
8	.....	30.00	27.70	.....	.....	32.15	32.10	34.60	37.65	38.85	40.05	40.95
9	.....	30.00	27.65	.....	.....	32.20	31.65	34.70	37.70	38.85	40.10	41.00
10	.....	30.05	27.60	.....	.....	32.30	31.30	34.85	37.75	38.85	40.10	41.00
11	.....	30.10	27.75	.....	.....	32.35	31.10	34.95	37.75	38.85	40.15	41.00
12	32.50	30.10	27.75	.....	.....	32.40	31.10	35.05	37.75	38.85	40.15	41.00
13	32.55	29.90	27.70	28.95	.....	32.45	31.15	35.15	37.70	38.85	40.15	41.00
14	32.65	29.75	27.85	29.00	.....	32.55	31.15	35.25	37.65	38.90	40.20	41.05
15	32.70	29.30	28.00	29.10	.....	32.70	31.25	35.35	37.70	38.90	40.25	41.05
16	32.70	28.70	28.15	29.10	.....	32.80	31.30	35.45	37.75	38.90	40.35	41.05
17	32.25	28.40	28.30	29.00	.....	32.85	31.45	35.60	37.80	38.95	40.40	41.05
18	31.45	28.20	28.40	29.00	30.50	32.85	31.65	35.75	37.80	38.95	40.40	41.05
19	30.90	28.10	28.40	29.05	30.70	32.85	31.90	35.85	37.85	39.10	40.40	41.10
20	30.70	27.90	28.25	29.15	30.80	32.85	32.30	35.90	37.90	39.15	40.40	41.10
21	30.55	27.85	28.20	29.25	30.75	32.95	32.55	35.95	37.90	39.20	40.40	40.70
22	30.45	27.80	28.20	29.40	30.75	33.00	32.75	36.05	37.95	39.20	40.40	40.75
23	30.20	27.75	28.30	29.45	30.85	33.05	32.88	36.15	37.95	39.15	40.45	40.80
24	29.95	27.65	28.30	29.50	30.95	33.15	32.95	36.30	37.95	39.20	40.45	40.85
25	29.80	27.55	28.30	29.60	31.15	33.30	33.10	36.45	37.95	39.25	40.50	40.85
26	29.80	27.45	28.25	29.70	31.25	33.40	33.25	36.60	37.95	39.30	40.50	40.80
27	29.75	27.15	.....	29.80	31.35	33.50	33.40	36.70	38.00	39.35	40.55	40.65
28	29.75	27.10	.....	29.85	31.40	33.60	33.55	36.80	38.05	39.45	40.60	40.50
29	29.75	.....	.....	29.95	31.50	33.70	33.70	36.90	38.10	39.50	40.60	40.40
30	29.70	.....	.....	29.95	31.60	33.80	33.75	37.05	38.20	39.55	40.75	40.30
31	29.65	.....	.....	.....	31.75	.....	33.80	37.30	.....	39.60	.....	40.20

Sandusky County

S-1. City of Woodville. Water Works. Drilled unused well in limestone, diameter 10 inches, depth 188 feet. Highest water level 8.85 below lsd, May 2, 1950; lowest 25.37 below lsd, Dec. 20, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.50	17.20	15.46	14.00	15.31	17.02	.....	.....	.....	.....	21.40	20.50
2	17.35	.....	.....	13.93	15.30	17.14	.....	19.35	.....	21.95	.....	20.45
3	17.26	.....	.....	13.98	15.15	17.16	.....	19.67	.....	.....	.....	20.30
4	17.65	.....	.....	14.24	15.06	17.37	.....	19.68	.....	.....	.....	20.20
5	17.57	.....	15.43	14.36	15.40	17.37	17.76	19.65	.....	.....	.....	20.20
6	17.20	.....	15.35	14.36	15.38	17.37	.....	19.37	21.25	.....	.....	20.00
7	16.94	.....	15.20	14.33	15.47	17.38	.....	19.55	21.35	.....	.....	20.10
8	17.02	17.70	15.36	14.20	15.61	17.34	.....	19.70	21.40	22.20	21.25	20.15
9	16.93	17.76	15.67	14.18	15.86	.....	.....	19.80	21.35	.....	21.20	19.90
10	16.88	17.63	15.61	14.46	15.80	.....	.....	19.90	.....	.....	21.35	19.90

8-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	17.10	17.33	15.35	14.41	15.55	17.45	.....	19.90	21.65	22.20	21.45	19.70
12	17.18	17.40	15.02	14.20	15.50	17.53	18.07	19.95	.....	22.35	21.25	19.55
13	17.03	17.68	14.89	14.21	15.53	17.45	.....	19.95	21.65	22.40	21.05	19.85
14	16.60	17.58	14.86	14.45	15.53	17.40	18.24	20.05	21.65	22.20	21.00	19.80
15	16.95	17.35	14.77	14.54	15.53	17.20	18.24	20.00	21.60	22.15	21.15	19.75
16	17.07	17.11	14.76	14.42	15.46	16.81	18.33	20.20	21.35	22.05	21.05	19.75
17	16.91	17.15	14.71	14.57	15.66	16.68	18.36	20.20	21.50	22.05	20.95	19.55
18	16.85	17.00	14.51	14.50	15.75	16.64	18.38	20.20	21.55	22.05	20.80	20.15
19	16.88	16.82	14.48	14.65	15.75	16.79	18.54	20.30	21.65	21.95	20.65	20.10
20	16.70	16.71	14.60	14.88	15.65	16.99	.....	20.10	.....	21.90	20.50	19.65
21	17.17	16.67	14.67	14.84	15.84	17.12	.....	20.45	.....	21.95	20.70	.....
22	16.97	16.55	14.62	14.77	15.87	.....	.....	.....	.....	21.95	20.65	.....
23	16.60	16.16	14.33	15.04	15.98	.....	.....	20.55	.....	22.05	20.50	.....
24	16.78	15.81	14.72	15.03	16.00	.....	.....	20.55	.....	22.00	.....	19.95
25	16.87	15.36	14.60	14.91	16.15	.....	.....	20.55	.....	21.90	.....	.....
26	16.84	15.69	14.34	15.35	16.08	.....	18.97	20.55	.....	21.70	20.50	.....
27	17.13	15.64	14.41	15.28	16.16	.....	19.04	20.60	.....	21.80	.....	.....
28	17.14	15.53	14.40	15.22	16.50	17.37	19.58	.....	21.80	21.75	.....	19.00
29	17.34	.....	14.15	15.17	16.72	.....	19.31	21.20	.....	21.65	20.30	19.10
30	17.30	.....	14.08	15.31	16.87	.....	.....	.....	.....	21.70	20.40	19.05
31	17.05	.....	14.07	.....	16.94	.....	.....	.....	.....	21.50	.....	19.05

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 34.40 below lsd, Oct. 11, 1946. Records available: 1946-51.

Daily highest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.20	31.00	30.80	30.23	30.07	31.50	30.60	30.87	32.48	33.40	.....	33.45
2	30.90	31.17	30.83	30.00	30.31	31.58	29.62	31.52	32.98	33.50	.....	33.83
3	30.40	31.25	30.61	30.23	30.23	31.32	31.69	33.20	32.63	33.65	.....	33.75
4	30.40	31.13	30.38	30.72	30.17	31.60	32.33	31.46	32.62	32.95	34.30	33.95
5	30.45	30.93	30.50	30.93	30.22	31.75	30.47	31.20	33.10	33.20	.....	33.90
6	30.55	31.39	30.43	30.41	30.41	31.39	30.85	31.52	32.93	33.30	.....	33.60
7	30.45	31.10	30.15	30.39	30.40	31.46	30.77	31.50	32.68	32.80	.....	33.60
8	30.53	31.03	31.30	30.29	30.38	30.81	31.40	31.91	32.62	33.40	.....	33.70
9	30.70	31.22	31.26	30.37	30.50	30.73	31.20	31.52	32.65	33.20	31.18	33.05
10	30.58	31.22	30.40	30.31	30.34	30.90	31.43	31.46	32.40	33.45	.....	33.30
11	30.88	31.22	30.68	30.34	29.72	31.89	32.31	32.20	33.55	33.25	.....	32.90
12	31.00	.....	30.30	30.30	29.85	31.10	31.29	31.56	32.75	33.85	.....	33.10
13	30.72	.....	31.11	30.22	30.01	30.83	31.20	32.20	32.50	34.20	.....	33.40
14	30.48	30.70	30.25	30.10	30.66	30.89	31.17	32.29	32.40	33.30	.....	32.90
15	30.76	30.74	30.06	30.20	30.35	30.80	30.91	31.60	32.55	33.80	.....	33.20
16	30.64	30.84	30.13	30.32	30.40	30.72	31.27	31.44	32.75	.....	.....	33.30
17	30.70	30.54	30.41	30.30	30.40	30.80	31.18	31.52	32.80	.....	.....	.....
18	30.48	30.77	30.37	26.80	30.36	31.20	31.18	31.60	32.60	.....	33.35	.....
19	30.34	30.40	30.35	31.37	30.63	31.22	31.03	31.52	32.65	.....	33.60	.....
20	31.07	30.67	30.46	31.33	31.75	30.96	30.82	33.12	32.90	.....	33.50	.....
21	30.86	29.90	30.50	30.26	32.21	30.88	31.02	31.93	32.80	33.35	33.20	.....
22	30.90	30.40	30.57	30.23	30.80	30.80	30.97	31.87	32.80	33.65	33.60	.....
23	30.67	30.30	29.80	30.41	31.80	31.09	31.00	32.03	32.70	33.70	33.30	33.10
24	30.76	30.20	30.40	30.24	32.04	30.90	31.52	31.81	32.90	33.65	.....	33.25
25	31.23	30.46	30.50	30.43	31.45	31.04	31.50	32.29	33.10	33.65	33.00	32.75
26	31.10	30.68	30.14	30.48	31.10	30.91	31.40	32.24	33.10	33.40	33.40	33.05
27	31.48	30.56	29.73	30.34	31.08	30.80	31.56	32.40	32.80	33.50	33.60	33.00
28	31.68	30.86	30.14	30.33	31.10	30.82	31.43	32.50	33.00	33.40	33.65	32.90
29	30.96	.....	29.73	30.70	31.07	30.67	31.71	32.69	33.05	33.45	33.45	33.15
30	31.76	.....	29.59	30.40	30.82	31.31	32.22	32.61	33.15	33.15	33.40	32.45
31	31.16	.....	29.86	.....	31.33	.....	31.66	32.53	.....	33.30	.....	32.00

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 14.61 below lsd, Dec. 4, 1946. Records available: 1946-51.

Sh-1--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.47	.....	.....	.....	11.58	11.98	.....	13.11	13.69	14.12	14.42	14.41
2	12.47	.....	.....	.....	11.54	11.99	.....	13.13	13.72	14.09	14.43	14.40
3	12.38	.....	.....	10.94	11.43	12.01	12.44	13.13	13.76	.....	14.42	14.39
4	11.73	.....	.....	11.06	11.27	12.07	.....	13.24	13.78	.....	14.44	14.34
5	11.59	.....	.....	11.21	11.32	12.12	.....	13.26	13.81	14.21	14.54	14.31
6	11.55	12.09	11.38	11.28	11.44	12.13	.....	13.26	13.77	.....	14.54	14.24
7	11.55	.....	11.38	11.38	11.54	12.14	.....	13.31	13.82	.....	14.35	14.22
8	11.62	.....	11.30	11.26	12.30	12.14	.....	13.20	13.84	.....	14.44	13.91
9	11.70	.....	.....	11.26	11.64	12.05	.....	13.21	13.84	14.21	14.47	13.67
10	.....	.....	.....	11.26	11.67	12.04	12.65	13.27	13.83	14.25	14.48	13.34
11	.....	.....	.....	11.26	11.42	12.08	12.67	13.31	13.85	14.25	14.49	13.02
12	.....	.....	.....	11.26	11.14	12.14	12.69	13.35	13.89	14.26	14.49	13.06
13	.....	11.76	11.43	11.07	11.14	12.12	12.71	13.38	13.89	14.33	14.40	13.24
14	.....	11.71	11.37	10.93	11.31	12.06	12.74	13.39	13.88	14.32	14.26	13.27
15	.....	11.74	11.21	10.87	11.38	12.05	12.78	13.39	13.91	14.31	14.33	13.31
16	11.42	11.74	.....	.....	11.41	12.09	12.81	13.40	13.93	14.33	14.34	13.42
17	.....	.....	.....	11.08	11.46	12.07	12.81	13.44	13.93	14.33	14.36	13.44
18	.....	.....	.....	11.11	11.53	12.14	12.84	13.46	13.96	14.35	14.37	13.38
19	.....	.....	.....	11.22	11.57	12.16	12.85	13.49	13.97	14.36	14.41	13.41
20	.....	11.28	11.27	11.38	11.60	12.16	12.91	13.51	14.00	.....	14.45	13.41
21	.....	10.93	.....	11.42	11.59	12.22	12.92	13.50	14.02	14.36	14.45	.....
22	.....	10.78	.....	11.42	11.60	12.22	12.95	13.56	14.02	.....	14.40	.....
23	11.57	10.88	.....	11.53	11.65	12.19	12.94	13.61	14.02	14.37	14.35	.....
24	.....	10.96	.....	11.54	11.72	.....	12.95	13.63	14.05	14.40	14.42	.....
25	.....	11.02	.....	11.54	11.78	.....	12.96	13.63	14.05	14.42	14.42	13.04
26	.....	11.03	.....	11.62	11.78	12.28	13.00	13.62	14.06	14.41	14.34	12.89
27	.....	11.16	11.08	11.64	11.75	.....	13.01	13.61	14.03	14.38	14.41	12.77
28	.....	.....	.....	11.64	11.74	.....	13.02	13.60	14.12	14.36	14.41	12.68
29	.....	.....	.....	11.62	11.82	.....	13.06	13.65	14.15	14.37	14.42	12.47
30	.....	.....	.....	11.63	11.91	.....	13.08	13.66	14.15	14.37	14.42	12.46
31	.....	.....	.....	.....	11.97	.....	13.08	13.65	.....	14.42	.....	12.16

Stark County

St-1. Republic Steel Corp. Oberlin Ave., Massillon. Drilled unused well in gravel, diameter 6 inches, depth 48 feet. Highest water level 41.70 below lsd, June 16, 1947; lowest 53.20 below lsd, Feb. 21, 1945. Records available: 1942-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	51.18	50.87	49.17	47.80	47.30	47.47	48.00	48.60	49.37	49.95	50.75	50.95
2	51.27	50.92	49.16	47.67	47.27	.....	48.00	48.64	49.36	50.00	50.75	50.95
3	51.33	50.93	49.15	47.58	47.26	.....	48.01	48.68	49.33	50.05	50.80	50.90
4	51.34	50.95	49.12	47.55	47.25	.....	48.02	48.72	49.38	50.10	50.80	50.95
5	51.30	50.98	49.07	47.35	47.28	47.49	48.05	48.73	49.42	50.20	50.80	51.00
6	51.16	51.01	48.93	47.54	47.28	47.51	48.07	48.68	49.45	50.25	50.80	50.95
7	51.06	51.05	48.82	47.53	47.27	47.53	48.08	48.73	49.49	50.20	50.80	51.00
8	50.92	51.07	48.80	47.48	47.33	47.57	48.08	48.76	49.51	50.20	50.80	51.00
9	50.87	51.08	48.78	47.47	47.35	47.58	48.09	48.80	49.53	50.25	50.80	50.95
10	50.82	51.09	48.76	47.43	47.37	47.59	48.15	48.83	49.54	50.25	50.85	50.85
11	50.84	51.10	48.75	47.43	.....	47.59	48.18	48.85	49.57	50.30	50.80	50.75
12	50.86	51.10	48.72	47.40	.....	47.62	48.21	48.85	49.58	50.30	50.80	50.75
13	50.87	51.10	48.62	47.38	.....	47.64	48.25	48.85	49.62	50.35	50.85	50.80
14	50.87	50.97	48.55	47.35	.....	47.66	48.28	48.90	49.60	50.35	50.85	50.80
15	50.82	50.83	48.52	47.33	47.21	47.68	48.28	48.93	49.60	50.35	50.90	50.80
16	50.80	50.70	48.48	47.30	47.21	47.69	48.31	48.98	49.60	50.40	50.90	50.80
17	50.75	50.60	48.47	47.31	47.22	47.69	48.34	49.02	49.63	50.40	50.90	50.75
18	50.92	50.56	48.45	47.33	47.25	47.71	48.36	49.04	49.66	50.45	50.85	50.85
19	50.71	50.48	48.35	47.37	47.26	.....	48.39	49.04	49.70	50.45	50.85	50.85
20	50.68	50.38	48.38	47.47	47.35	47.80	48.43	49.03	49.73	50.50	50.90	50.90
21	50.66	50.24	48.30	47.50	47.23	47.83	48.44	49.08	49.75	50.50	50.95	50.90
22	50.63	50.16	48.23	47.45	47.24	47.85	48.46	49.13	49.76	50.50	51.00	50.90
23	50.60	50.01	48.18	47.40	47.28	47.88	48.43	49.15	49.77	50.50	51.00	50.85
24	50.64	49.80	48.12	47.37	47.31	47.87	48.43	49.17	49.78	50.60	51.05	50.80
25	50.65	49.62	48.10	47.35	47.34	47.87	48.47	49.18	49.81	50.60	51.00	50.75

St-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	50.69	49.49	48.06	47.38	47.34	47.88	48.49	49.19	49.85	50.65	.....	50.70
27	50.73	49.27	48.04	47.38	47.36	47.93	48.53	49.21	49.90	50.65	50.90	50.70
28	50.74	49.20	48.03	47.36	.....	47.95	48.53	49.26	49.96	50.65	50.90	50.65
29	50.75		48.01	47.37	47.40	47.97	48.49	49.30	49.95	50.65	50.95	50.60
30	50.80		47.97	47.30	47.42	47.99	48.53	49.34	49.95	50.70	50.95	50.60
31	50.82		47.90		47.43		48.56	49.37		50.75		50.55

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 7.26 below lsd, Apr. 1, 1951; lowest 22.42 below lsd, Feb. 2, 1942. Records available: 1941-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.43	11.34	9.00	7.33	8.10	9.45	10.56	11.35	12.61	13.48	14.30	14.16
2	13.46	11.42	9.06	7.37	8.13	9.50	10.58	11.39	12.65	13.50	14.31	14.20
3	13.47	.....	9.06	7.43	8.17	9.55	10.57	11.44	12.67	13.53	14.33	14.28
4	13.13	.....	9.06	7.56	8.34	9.60	10.58	11.50	12.69	13.56	14.34	14.31
5	12.24	11.51	8.53	7.67	8.44	9.65	10.64	11.54	12.72	13.59	14.38	14.34
6	11.88	11.51	8.48	7.71	8.43	9.68	10.68	11.62	12.75	13.63	14.39	14.38
7	11.80	11.56	8.45	7.73	8.60	9.72	10.71	11.64	12.80	13.65	14.40	14.42
8	11.76	11.60	8.20	7.84	8.66	9.76	10.74	11.68	12.83	13.67	14.40	14.43
9	11.76	11.63	8.29	7.87	8.73	9.80	10.87	11.72	12.86	13.69	14.36	14.43
10	11.67	11.65	8.34	7.95	8.78	9.84	10.91	11.78	12.88	13.71	14.35	14.25
11	11.61	11.65	8.38	8.00	8.78	9.86	10.94	11.83	12.91	13.74	14.39	13.79
12	11.67	11.65	8.41	7.99	8.66	9.90	10.98	11.88	12.94	13.77	14.42	13.58
13	11.71	11.07	8.44	7.82	8.37	9.93	11.02	11.92	12.97	13.81	14.43	13.57
14	11.71	10.37	8.9	7.82	8.42	9.97	11.05	11.95	12.98	13.83	14.45	13.58
15	11.66	10.22	8.55	7.90	8.45	9.99	11.09	11.98	12.97	13.86	14.48	13.64
16	11.28	10.20	8.59	8.00	8.49	10.03	11.04	12.02	12.97	13.88	14.51	.....
17	11.12	10.19	8.59	8.07	8.57	10.08	11.08	12.07	13.03	13.91	14.52	.....
18	11.09	10.03	8.54	8.10	8.66	10.10	11.10	12.11	13.06	13.94	14.52	.....
19	10.96	9.99	8.27	8.20	8.73	10.13	11.13	12.15	13.09	13.96	14.52	.....
20	10.84	9.63	7.91	8.29	8.77	10.16	11.18	12.18	13.13	13.99	14.53	.....
21	10.90	9.37	7.62	8.31	8.88	10.21	11.23	12.20	13.16	14.01	14.53	.....
22	10.91	8.86	7.61	8.35	8.88	10.24	11.27	12.25	13.19	14.04	14.57	13.82
23	10.89	8.55	7.61	8.35	8.95	10.29	11.29	12.30	13.23	14.06	14.57	13.63
24	10.94	8.60	7.52	8.18	9.01	10.32	11.29	12.34	13.25	14.09	14.49	13.23
25	10.99	8.66	7.62	8.17	9.06	10.37	11.29	12.37	13.28	14.12	14.24	13.00
26	11.04	8.73	7.73	8.32	9.10	10.38	11.31	12.41	13.30	14.14	14.13	12.84
27	11.12	8.89	7.78	8.37	9.15	10.42	11.35	12.45	13.30	14.15	14.09	12.43
28	11.18	8.96	7.84	8.37	9.21	10.46	11.37	12.48	13.38	14.20	14.09	11.91
29	11.23		7.84	8.41	9.29	10.50	11.37	12.51	13.41	14.22	14.11	11.60
30	11.27		7.69	8.42	9.36	10.52	11.29	12.54	13.44	14.24	14.13	11.44
31	11.27		7.38	9.	9.41		11.30	12.57		14.27		11.08

St-5A. City of Canton. 30th St. and Harrisburg Rd., N. E. Drilled unused well in gravel, diameter 12 inches, depth 132 feet. The record for this well may be used as a continuation of the record of well St. 5, published previously. Highest water level 26.45 below lsd, Mar. 11, 1950; lowest 45.86 below lsd, Dec. 3, 1949. Records available: 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.78	35.17	31.86	30.84	29.22	30.37	30.67	34.27	35.10	35.25	35.80	39.70
2	37.05	35.54	31.71	30.86	29.00	30.37	30.65	34.42	34.72	35.65	36.15	39.75
3	37.13	35.76	31.52	30.22	28.37	30.36	31.37	34.44	34.45	36.25	36.40	39.80
4	37.14	35.90	30.80	30.42	28.28	30.26	31.28	34.12	34.70	36.20	37.25	39.95
5	37.37	36.12	30.56	30.48	28.12	29.74	30.75	34.05	35.27	36.60	37.60	40.10
6	37.25	36.28	30.43	30.32	28.08	30.22	30.73	33.38	35.20	36.55	37.90	40.20
7	36.85	36.46	30.25	29.37	28.88	30.36	30.71	33.91	35.41	36.05	37.55	40.35
8	36.80	36.57	30.13	29.02	29.19	29.90	30.87	34.04	35.05	35.75	37.05	40.45
9	36.53	36.38	30.03	29.63	28.76	29.80	31.80	34.30	34.96	35.85	36.85	40.60
10	36.45	34.95	29.96	27.92	28.37	29.72	31.76	34.23	34.80	36.20	36.70	40.65
11	36.32	34.57	30.31	30.11	28.25	30.05	32.29	33.83	35.55	35.95	36.60	40.55
12	36.23	34.50	30.42	30.42	28.18	30.24	32.21	33.89	35.67	35.95	36.50	39.85
13	36.15	34.13	30.10	30.58	28.17	30.20	31.94	34.44	36.12	36.10	36.40	39.60
14	36.79	34.03	29.95	30.66	29.67	30.06	31.92	34.46	36.00	35.85	36.65	40.05
15	34.98	33.71	22.83	30.74	29.62	30.41	31.89	33.97	35.53	35.70	36.65	40.25

St-5A--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	35.45	34.50	29.74	30.63	29.84	30.47	32.50	33.82	35.64	36.30	36.70	.....
17	35.45	34.57	29.68	29.88	29.75	30.10	32.63	33.83	35.19	36.30	36.70	40.40
18	35.23	33.98	29.62	29.77	29.53	30.92	31.92	34.05	35.35	36.65	36.60	.....
19	35.01	33.70	29.50	29.47	29.60	31.48	31.81	34.12	35.66	36.65	37.45	39.05
20	35.08	33.60	29.42	29.25	29.10	31.40	32.28	34.67	35.75	36.25	37.95	39.10
21	35.08	33.37	29.32	29.43	29.65	31.15	32.05	34.98	36.22	35.95	38.15	39.45
22	35.00	33.72	29.22	29.95	29.90	31.40	31.87	34.80	36.00	36.00	38.35	39.65
23	34.76	33.83	29.08	29.97	29.84	31.07	32.22	34.61	35.47	36.15	38.20	39.90
24	34.70	33.11	29.83	29.44	30.40	30.78	32.55	34.50	35.28	36.50	38.40	40.05
25	34.60	32.78	30.20	29.15	30.48	30.72	32.92	34.62	35.45	36.35	38.60	39.50
26	34.58	32.48	30.32	28.97	30.66	31.43	32.95	34.97	36.00	36.85	38.75	39.45
27	34.50	32.23	30.62	29.03	30.67	31.46	33.37	35.08	35.70	36.55	38.95	40.25
28	33.75	32.17	30.48	28.90	30.88	31.06	33.57	35.16	35.70	36.40	39.20	40.50
29	33.96		30.33	28.15	30.95	30.95	33.74	34.91	35.80	35.90	39.35	40.65
30	34.09		30.62	28.76	31.14	30.80	34.00	34.73	35.65	36.50	39.55	40.70
31	34.54		30.50		31.16		33.85	35.02		36.70		40.75

St-6. City of Canton. Nimishillen Creek and Ninth St. Drilled unused well in gravel, diameter 12 inches, depth 80 feet. Highest water level 2.21 below lsd, May 12, 1951; lowest 33.11 below lsd, Feb. 21, 1945. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.64	4.84	3.37	2.58	2.36	2.75	4.05	3.74	4.72	5.03	5.44	3.94
2	4.66	4.68	3.37	2.56	2.36	2.90	4.09	3.87	4.74	5.00	5.45	3.91
3	4.66	4.67	3.36	2.54	2.34	2.99	4.15	4.11	4.79	5.03	5.43	3.90
4	4.55	4.50	3.25	2.54	2.29	3.11	4.17	4.22	4.80	5.06	5.13	3.87
5	4.51	4.38	3.20	2.58	2.31	3.19	4.22	4.27	4.81	5.10	5.02	3.85
6	4.58	4.37	3.20	2.58	2.33	3.25	4.30	4.28	4.80	5.13	4.97	3.83
7	4.61	4.24	3.15	2.56	2.35	3.30	4.35	4.28	4.85	5.13	4.78	3.84
8	4.67	4.22	3.11	2.49	2.36	3.34	4.39	4.32	4.97	5.07	4.61	3.86
9	4.73	4.22	3.19	2.48	2.36	3.35	4.47	4.37	4.87	5.13	4.61	3.81
10	4.77	4.22	3.21	2.50	2.37	3.38	4.50	4.42	4.86	5.16	4.58	3.74
11	4.82	4.15	3.19	2.52	2.32	3.39	4.50	4.45	4.90	5.17	4.52	3.72
12	4.89	4.04	3.12	2.50	2.25	3.40	4.50	4.47	4.82	5.22	4.48	3.68
13	4.92	3.90	3.05	2.44	2.32	3.41	4.49	4.50	4.91	5.24	4.38	3.78
14	4.92	3.85	3.00	2.42	2.35	3.45	4.49	4.52	4.25	5.24	4.30	3.78
15	4.73	3.85	2.98	2.44	2.35	3.48	4.48	4.53	4.34	5.22	4.30	3.76
16	4.83	3.82	3.00	2.45	2.33	3.52	4.47	4.54	4.39	5.23	4.31	3.80
17	4.84	3.75	3.02	2.48	2.29	3.54	4.43	4.58	4.79	5.26	4.25	3.80
18	4.85	3.71	3.01	2.49	2.31	3.59	4.43	4.59	4.83	5.27	4.23	3.71
19	4.87	3.66	2.93	2.47	2.32	3.61	4.42	4.60	4.88	5.29	4.22	3.75
20	4.87	3.65	2.91	2.53	2.30	3.64	4.47	4.61	4.91	5.30	4.21	3.74
21	4.95	3.58	2.87	2.53	2.27	3.70	4.48	4.60	4.93	5.29	4.21	3.61
22	5.00	3.47	2.85	2.47	2.28	3.70	4.47	4.65	4.93	5.30	4.16	3.68
23	4.99	3.47	2.83	2.46	2.37	3.69	4.27	4.70	4.96	5.31	4.10	3.68
24	4.97	3.47	2.79	2.46	2.37	3.69	4.32	4.71	4.97	5.30	4.06	3.69
25	5.01	3.44	2.80	2.44	2.35	3.73	4.38	4.72	4.97	5.36	4.06	3.68
26	5.04	3.38	2.80	2.47	2.34	3.74	4.41	4.70	4.99	5.37	3.98	3.55
27	5.04	3.37	2.79	2.49	2.33	3.79	4.42	4.68	4.97	5.35	4.01	3.58
28	5.08	3.40	2.73	2.46	2.26	3.84	4.42	4.69	5.05	5.33	4.00	3.56
29	5.11		2.69	2.40	2.33	3.92	4.00	4.72	5.08	5.38	3.98	3.47
30	5.14		2.61	2.35	2.35	3.99	3.86	4.73	5.07	5.38	3.97	3.44
31	5.14		2.58		2.51		3.75	4.73		5.42		3.38

St-10. Canton. Lat. 45°48'40", long. 81°27'36". Drilled unused well in gravel, diameter 12 inches, depth 188 feet. Highest water level 0.60 above lsd, Apr. 2, 1951; lowest 10.21 below lsd, Dec. 21, 1945. Records available: 1944-51.

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	-1.10	-0.42	+0.41	+0.56	+0.34	-0.01	-0.43	-0.54	-0.95	-1.06	-1.28	-1.08
2	1.11	.48	.40	.56	.33	.02	.44	.55	.96	1.06	1.28	1.10
3	1.09	.49	.40	.59	.33	.05	.44	.58	.96	1.08	1.27	1.10
4	.85	.50	.41	.58	.34	.09	.41	.61	.97	1.10	1.31	1.09
5	.70	.54	.40	.56	.32	.11	.44	.62	.97	1.12	1.32	1.09

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St-10--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	-0.58	-0.54	+0.41	+0.56	+0.31	-0.15	-0.45	-0.63	-0.96	-1.12	-1.32	-1.08
7	.56	.52	.42	.56	.30	.17	.45	.62	.99	1.12	1.22	1.07
8	.56	.54	.42	.54	.28	.13	.47	.64	1.00	1.07	1.18	1.07
9	.54	.54	.39	.50	.26	.13	.51	.66	.99	1.09	1.18	1.06
10	.53	.54	.38	.50	.24	.15	.52	.69	1.04	1.10	1.17	.89
11	.56	.56	.38	.49	.28	.20	.52	.70	1.06	1.10	1.20	.81
12	.59	.50	.38	.50	.34	.21	.53	.72	1.06	1.14	1.19	.76
13	.59	.22	.38	.50	.34	.22	.53	.73	1.05	1.15	1.17	.81
14	.56	-.10	.38	.51	.32	.26	.53	.73	1.00	1.15	1.18	.81
15	.44	.00	.38	.51	.32	.30	.54	.73	.98	1.14	1.20	.81
16	.42	+0.4	.37	.48	.32	.27	.55	.75	.98	1.15	1.20	.81
17	.38	.10	.37	.47	.30	.29	.56	.76	.98	1.16	1.17	.79
18	.34	.14	.39	.47	.29	.30	.56	.78	.98	1.16	1.16	.78
19	.33	.19	.43	.45	.25	.31	.57	.79	.98	1.17	1.18	.79
20	.24	.25	.49	.43	.24	.32	.59	.83	.99	1.17	1.20	.74
21	.28	.30	.52	.42	.19	.34	.59	.84	.98	1.18	1.19	.68
22	.28	.37	.53	.41	.18	.35	.59	.86	.99	1.20	1.18	.61
23	.22	.42	.54	.41	.15	.41	.54	.88	1.03	1.20	1.14	.59
24	.23	.44	.54	.43	.12	.38	.50	.89	1.03	1.22	1.12	.61
25	.27	.46	.53	.44	.10	.40	.50	.89	1.04	1.23	1.11	.60
26	.26	.46	.49	.41	.10	.39	.52	.90	1.05	1.22	1.08	.51
27	.30	.44	.49	.39	.10	.41	.52	.90	1.05	1.21	1.07	.46
28	.32	.42	.49	.39	.08	.42	.53	.92	1.07	1.23	1.06	.43
29	.39	.49	.38	.05	.43	.54	.93	1.08	1.08	1.26	1.07	.39
30	.41	.52	.34	+.01	.45	.55	.94	1.07	1.07	1.25	1.07	.39
31	.40	.55	.55	-.01	.50	.50	.95	1.07	1.27	1.27	1.27	.22

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 35.60 below lsd, Dec. 16, 1948. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.90	21.85	25.46	22.61	22.00	22.00	22.42	25.00	27.79	26.70	27.40	29.70
2	24.90	21.85	25.66	22.61	22.80	21.81	22.30	24.47	27.40	26.75	27.40	29.65
3	24.90	.....	25.90	18.57	23.30	21.88	22.21	24.29	27.20	26.75	27.45	29.60
4	24.42	.....	25.90	18.45	23.66	21.80	22.18	24.23	27.08	26.80	27.45	29.55
5	22.50	21.74	24.50	21.46	24.00	21.73	22.17	24.18	26.99	26.80	27.50	32.90
6	21.80	21.74	24.90	22.15	24.04	21.70	22.15	24.14	26.91	26.80	30.75	33.00
7	21.85	21.74	25.04	22.63	20.95	24.80	22.18	24.14	26.87	26.80	31.45	30.40
8	21.98	24.46	24.57	22.68	23.78	25.50	22.19	26.59	26.83	26.75	31.80	29.95
9	21.98	25.17	24.60	21.00	24.35	25.53	22.18	26.83	26.80	26.80	32.35	29.80
10	21.96	.....	25.00	21.75	24.78	22.68	22.22	27.80	26.77	26.85	32.85	32.00
11	22.04	.....	25.02	21.81	24.81	22.38	24.27	27.99	26.74	26.90	33.20	32.75
12	22.17	25.86	25.13	19.00	24.60	22.27	22.48	25.22	26.73	26.90	33.35	33.45
13	22.26	25.70	25.55	.....	24.01	22.18	25.02	26.77	26.71	26.95	33.95	.....
14	22.26	24.46	25.77	.....	23.55	22.12	22.72	28.59	26.69	26.95	34.40	.....
15	22.25	24.80	25.90	.....	24.26	22.00	22.58	29.13	26.48	27.00	34.80	34.20
16	21.47	25.27	26.00	20.78	24.69	21.99	25.26	29.57	26.44	27.00	35.20	.....
17	21.18	25.32	26.02	21.49	25.08	21.98	26.20	29.81	26.50	27.05	35.50	.....
18	22.84	25.22	25.16	21.60	25.40	21.96	26.80	27.00	26.50	27.10	25.50	.....
19	22.63	25.10	25.18	22.27	25.70	21.92	27.21	26.45	26.50	27.10	31.40	34.90
20	21.10	24.81	24.77	22.73	25.98	21.91	27.12	29.01	26.50	27.10	34.40	35.40
21	21.13	24.83	24.30	22.81	26.20	21.93	27.40	26.65	26.52	27.15	34.55	35.60
22	21.20	24.07	24.46	19.80	26.42	21.92	24.65	26.24	26.54	27.15	31.00	31.50
23	21.22	23.42	24.70	21.79	26.45	21.96	24.28	28.88	26.58	27.20	30.75	29.95
24	21.23	23.93	21.70	22.33	23.18	21.96	24.11	29.67	26.56	27.20	30.50	32.35
25	21.38	24.30	20.35	22.78	25.54	21.93	23.98	27.20	26.60	27.20	30.10	32.85
26	21.48	24.42	19.97	22.82	23.20	21.92	26.38	26.63	26.60	27.25	29.85	32.85
27	21.56	24.88	19.85	23.23	23.65	21.95	26.79	26.49	26.65	27.25	29.75	30.25
28	21.62	25.22	22.96	23.60	22.46	25.08	24.50	26.43	26.65	27.30	29.60	30.30
29	21.80	.....	23.24	23.61	22.33	25.21	24.03	30.16	26.70	27.30	32.60	27.10
30	21.82	.....	23.18	22.40	22.21	22.60	26.70	30.75	26.70	27.35	29.80	27.05
31	21.82	.....	22.26	.....	22.10	.....	27.34	30.85	.....	27.35	.....	28.50

St-22. City of Canton. Lat. 50°50'56", long. 81°24'42". Drilled unused well in gravel, diameter 6 inches, depth 37 feet. Highest water level 15.50 below lsd, Apr. 15, 1948; lowest 29.35 below lsd, Jan. 4, 1950. Records available: 1947-51.

St-22--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.78	22.60	22.37	21.42	21.67	22.93	22.89	23.90	25.55	25.60	26.01	27.55
2	.....	22.65	22.49	21.18	21.60	22.88	22.85	23.91	25.57	25.61	26.02	27.55
3	.....	22.65	22.60	20.99	21.67	22.84	22.84	23.92	25.58	25.62	26.04	27.55
4	.....	22.58	.....	20.87	21.77	22.81	22.82	23.94	25.58	25.63	26.06	27.55
5	.....	22.63	22.47	20.81	21.89	22.80	22.79	23.94	25.59	25.64	26.09	27.55
6	.....	22.64	22.40	20.92	21.85	22.78	22.80	23.94	25.56	25.65	26.11	27.56
7	.....	22.62	22.37	21.02	21.97	22.77	22.80	23.94	25.60	25.65	26.14	27.58
8	23.54	22.67	22.36	21.11	21.99	.....	22.80	23.94	25.61	25.66	26.20	27.59
9	23.51	22.81	22.33	21.11	22.11	.....	22.86	23.98	25.61	25.66	26.26	27.60
10	23.42	22.92	22.38	21.06	22.22	.....	22.88	24.08	25.62	25.67	26.33	27.60
11	23.34	23.00	22.40	21.05	22.30	22.94	22.93	24.20	25.62	25.68	26.40	27.58
12	23.32	23.02	22.37	21.02	22.32	22.95	22.96	24.24	25.62	25.69	26.47	27.54
13	23.31	23.01	22.48	20.92	22.31	22.94	23.00	24.27	25.61	25.72	26.55	27.53
14	23.28	22.96	22.59	20.79	22.26	22.92	23.02	24.37	25.61	25.73	26.70	27.55
15	23.26	22.65	22.70	20.69	22.21	22.90	23.04	24.40	25.56	25.77	26.86	27.57
16	23.10	22.59	22.80	20.61	22.29	22.88	23.04	24.64	25.52	25.78	27.01	27.58
17	22.95	22.67	22.86	20.75	22.40	22.86	23.14	24.79	25.51	25.80	27.14	27.58
18	22.81	22.69	22.85	20.75	22.52	22.85	23.28	24.87	25.50	25.81	27.25	27.59
19	22.76	22.69	22.73	20.80	22.63	22.81	23.42	24.91	25.51	25.83	27.32	27.62
20	22.64	22.63	22.67	20.97	22.74	21.80	23.54	24.93	25.52	25.84	27.38	27.66
21	22.56	22.55	22.45	21.15	22.86	22.79	23.66	24.96	25.53	25.86	27.44	27.66
22	22.54	22.42	22.29	21.23	22.98	22.79	23.70	24.98	25.53	25.87	27.48	27.72
23	22.47	22.04	22.21	21.22	23.07	22.78	23.70	25.01	25.55	25.91	27.52	27.76
24	22.42	21.85	22.17	21.22	23.08	22.78	23.67	25.08	25.56	25.92	27.54	27.76
25	22.43	21.87	22.09	21.30	23.08	22.78	23.66	25.15	25.55	25.93	27.55	27.76
26	22.45	21.93	21.92	21.40	23.08	22.76	23.68	25.16	25.56	25.94	27.56	27.76
27	22.49	22.11	21.80	21.50	23.06	22.74	23.73	25.17	25.56	25.95	27.56	27.75
28	22.53	22.23	21.66	21.60	23.02	22.78	23.74	25.17	25.58	25.96	27.56	27.70
29	22.58	.....	21.66	21.65	23.00	22.88	23.74	25.20	25.60	25.97	27.55	27.59
30	22.61	.....	21.67	21.67	22.98	22.89	23.73	25.28	25.60	25.98	27.55	27.36
31	22.61	.....	21.65	.....	22.96	.....	23.83	25.39	.....	25.99	.....	27.06

Summit County

Su-3. Goodyear Tire & Rubber Co. 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: 1943-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.92	26.10	22.10	18.10	15.55	18.00	26.65	36.85	46.75	53.25	55.35	44.85
2	.....	26.00	22.00	17.95	15.50	18.45	26.90	37.15	46.95	53.35	55.40	44.25
3	.....	25.95	21.90	17.85	15.40	18.80	27.10	37.55	47.00	53.50	55.40	43.70
4	.....	25.80	21.70	17.70	15.30	19.30	27.10	37.85	47.00	53.70	55.90	43.15
5	30.10	25.65	21.65	17.65	15.10	19.75	26.95	37.90	47.05	53.95	55.40	42.60
6	29.95	25.55	21.50	17.50	15.10	20.10	27.15	37.90	47.25	54.15	55.40	42.10
7	29.80	25.30	21.30	17.40	15.05	20.45	27.40	38.10	47.50	.....	55.40	41.60
8	29.60	25.25	21.20	17.25	15.05	20.90	27.70	38.35	47.80	.....	55.35	41.30
9	29.50	25.15	21.05	17.20	15.00	21.25	28.10	38.65	48.00	.....	55.35	40.80
10	29.30	25.10	21.00	17.10	15.00	21.30	28.45	39.00	48.30	.....	55.30	40.35
11	29.10	24.95	20.90	17.00	14.90	21.20	28.85	39.35	48.55	.....	55.15	39.90
12	28.95	24.75	20.70	16.90	14.85	21.50	29.25	39.45	48.80	54.75	54.95	39.40
13	28.35	24.60	.....	16.80	14.90	21.85	29.70	39.65	49.10	54.80	54.60	39.05
14	28.65	24.50	.....	16.65	14.90	21.85	30.15	39.95	49.39	54.85	54.30	38.75
15	28.40	24.40	.....	16.60	14.85	21.70	30.55	40.35	49.50	54.90	54.05	38.25
16	28.25	24.10	.....	.....	14.80	22.00	30.95	40.80	49.65	54.95	53.80	38.00
17	28.15	24.05	.....	.....	15.05	22.25	31.35	41.15	49.85	55.00	53.55	37.65
18	28.05	23.95	.....	.....	15.50	22.55	31.70	41.55	50.10	55.05	53.20	37.25
19	27.85	23.75	.....	.....	15.80	22.90	32.15	41.80	50.40	55.05	52.75	.....
20	27.75	23.65	.....	16.30	16.05	23.30	32.50	42.10	50.70	55.10	52.20	.....
21	27.65	23.45	.....	16.30	16.35	23.70	32.90	42.45	51.00	55.15	51.60	.....
22	27.60	23.30	.....	16.10	16.75	24.20	33.30	42.85	51.40	55.15	50.95	.....
23	27.40	23.05	19.20	16.10	17.20	24.70	33.65	43.25	51.50	55.20	50.25	.....
24	27.20	22.95	19.10	16.00	17.60	25.05	34.00	43.70	51.75	55.20	49.60	36.10
25	27.10	22.75	19.05	15.90	18.00	25.35	34.35	44.10	52.00	55.25	48.95	.....

Su-3--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	26.90	22.55	18.95	15.85	18.25	25.50	34.70	44.45	52.25	55.30	48.20	.....
27	26.80	22.40	18.80	15.80	18.25	25.70	35.10	44.85	52.50	55.35	47.55	.....
28	26.70	22.30	18.65	15.75	17.90	25.85	35.45	45.20	52.70	55.35	46.85	34.25
29	26.55		18.50	15.65	17.65	26.10	35.85	45.55	52.95	55.35	46.20	34.10
30	26.45		18.25	15.60	17.60	26.40	36.15	45.90	53.10	55.35	45.50	38.85
31	26.30		18.20		17.50		36.50	46.35		55.35		33.65

Trumbull County

T-2. Copperweld Steel Corp. 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 50.80 below lsd, Oct. 18, 19, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.50	38.92	39.95	41.43	42.30	45.90	.....	47.50	48.25	45.05	49.50	45.95
2	37.05	39.25	40.37	41.70	43.45	45.95	47.25	.....	.....	46.95	49.40	45.40
3	37.69	39.23	40.23	41.61	43.82	45.90	.....	47.50	.....	48.15	48.75	45.60
4	37.85	38.87	40.21	40.80	44.36	45.80	.....	47.25	.....	49.30	48.05	46.45
5	38.03	38.61	40.58	40.25	44.27	45.70	.....	47.60	47.35	50.30	48.10	46.95
6	37.82	38.73	40.91	40.27	44.37	45.45	45.55	46.45	.....	50.70	48.10	46.75
7	37.42	39.07	41.05	40.26	44.74	45.05	.....	46.30	.....	50.70	47.80	47.15
8	37.36	39.42	41.13	39.28	44.79	45.05	.....	46.30	.....	50.30	48.45	47.40
9	37.28	39.55	41.54	38.93	44.65	44.75	.....	46.70	47.35	50.40	48.90	47.15
10	37.49	39.50	41.68	39.08	44.60	44.35	.....	.....	.....	49.80	48.90	46.80
11	37.70	39.22	41.58	39.40	44.64	44.75	46.15	.....	.....	49.75	48.25	46.85
12	37.58	39.00	41.25	39.92	44.41	45.20	46.15	47.39	48.15	50.10	48.50	47.05
13	37.57	39.62	41.58	40.33	44.10	45.20	46.75	.....	48.45	50.25	49.35	47.25
14	37.00	39.18	41.47	40.27	42.80	45.35	46.90	.....	48.40	50.20	49.90	.....
15	37.45	39.40	41.75	40.17	44.21	45.30	46.30	47.60	48.35	50.20	49.85	.....
16	37.90	39.40	41.86	40.37	44.73	44.95	47.20	47.70	47.80	50.40	49.25	.....
17	37.92	39.60	42.42	40.58	44.93	44.70	.....	47.65	46.95	50.75	49.25	.....
18	38.38	39.60	42.00	40.76	44.65	45.10	48.20	47.35	47.00	50.80	48.75	.....
19	38.82	39.58	41.27	41.47	43.56	46.45	.....	46.60	46.90	50.80	48.95	46.90
20	39.17	39.68	41.27	.....	43.89	46.80	.....	46.65	46.90	50.35	49.40	46.85
21	38.50	39.32	41.55	.....	44.65	46.65	.....	46.95	47.05	50.20	49.30	46.60
22	38.20	39.24	41.86	.....	45.33	46.55	47.45	47.00	47.10	49.65	48.70	46.95
23	38.47	.....	42.17	.....	45.23	46.50	47.20	46.85	46.90	49.00	46.30	46.80
24	38.42	.....	42.05	.....	44.17	46.45	47.20	47.00	46.30	48.75	46.35	46.05
25	38.68	.....	41.65	43.02	43.48	.....	47.15	47.00	46.55	48.25	46.35	45.65
26	38.92	.....	.....	43.53	42.85	46.75	47.20	46.55	46.40	48.25	46.25	45.95
27	38.73	.....	.....	43.66	42.92	47.15	47.35	46.95	46.45	48.05	46.55	46.35
28	38.36	39.12	41.46	43.40	44.05	47.45	47.10	47.60	46.40	47.60	46.55	46.30
29	38.30	.....	41.20	43.04	44.95	47.45	46.55	47.70	45.60	49.40	46.80	46.50
30	38.64	.....	41.50	42.22	44.98	.....	47.00	.....	45.20	49.75	46.75	46.55
31	38.85	.....	41.48	.....	45.35	.....	47.40	.....	.....	49.50	.....	46.40

Tuscarawas County

Tu-1. Everett Waltz. Lat. 40°37'09", long. 81°32'00". Drilled unused well in gravel, diameter 4 inches, depth 23 feet. Highest water level 8.09 below lsd, June 11, 1947; lowest 13.54 below lsd, Dec. 11, 1949. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.59	.....	8.50	8.36	.....	10.51	11.62	12.29	12.89	.....	13.30	.....
2	11.63	.....	8.57	8.27	8.41	10.56	11.68	12.32	.....	13.10	13.30	.....
3	11.63	.....	8.62	.....	8.42	10.61	11.70	12.34	.....	13.11	13.30	.....
4	11.41	.....	.....	.....	8.50	10.68	11.71	.....	.....	13.12	13.32	.....
5	.....	.....	.....	.....	8.61	10.72	11.71	12.42	.....	13.14	.....	.....
6	.....	10.58	8.50	.....	8.72	10.77	11.73	.....	.....	13.14	.....	.....
7	.....	10.57	8.50	8.56	8.81	10.82	11.75	12.42	.....	13.14	13.32	.....
8	.....	10.57	8.50	8.62	8.93	10.88	11.78	12.43	12.98	13.14	.....	.....
9	.....	10.58	8.57	8.63	9.02	10.91	11.83	12.45	.....	13.15	.....	.....
10	.....	10.58	8.63	8.65	9.10	10.92	.....	12.48	.....	13.16	13.18	.....

Tu-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	10.59	8.67	8.68	9.13	10.95	.....	12.49	.....	13.16	13.18	.....
12	.....	10.59	8.70	8.70	9.18	10.99	.....	12.51	.....	13.17	13.18	.....
13	.....	10.24	8.74	8.70	9.27	11.02	.....	12.53	.....	13.18	13.21	.....
14	.....	9.93	.....	8.70	9.35	11.06	12.10	12.55	.....	13.19	13.21	.....
15	10.20	9.75	.....	.....	9.42	11.09	.....	.....	12.86	13.20	13.20	.....
16	10.28	9.63	8.80	.....	9.50	11.20	.....	.....	12.86	.....	13.18	.....
17	10.00	9.49	8.80	.....	9.57	.....	.....	.....	12.87	.....	13.18	.....
18	9.85	9.41	8.77	8.70	9.64	11.21	.....	.....	12.91	13.25	.....	.....
19	9.75	9.32	8.69	8.78	9.70	11.27	12.10	.....	12.93	.....	.....	.....
20	9.68	9.19	8.59	8.86	9.77	11.30	12.12	12.80	12.96	.....	.....	.....
21	9.65	.....	8.48	8.90	9.84	11.34	12.16	.....	13.01	.....	.....	12.40
22	9.65	.....	8.42	8.95	9.90	11.38	12.18	.....	13.01	13.25	13.18	12.40
23	.....	.....	8.39	8.95	9.97	11.39	12.18	.....	13.03	13.25	.....	12.29
24	9.74	8.34	.....	8.95	.....	11.43	12.18	.....	13.04	13.26	.....	12.18
25	9.77	8.34	.....	8.97	.....	11.45	12.15	12.80	13.04	13.26	.....	12.11
26	9.85	8.31	8.49	.....	.....	11.46	12.17	12.82	13.05	13.26	.....	12.05
27	9.94	8.34	8.52	.....	10.50	11.50	12.20	12.82	13.07	13.27	12.99	11.86
28	10.00	8.41	8.58	.....	.....	11.54	12.23	12.85	13.07	13.27	12.99	11.70
29	10.07	.....	8.59	.....	.....	11.56	12.23	12.86	.....	13.27	.....	11.51
30	10.10	.....	8.58	.....	.....	11.58	12.25	12.88	13.10	13.30	.....	11.51
31	.....	.....	8.50	.....	.....	.....	12.27	12.89	.....	13.30	.....	11.27

Warren County

W-1. WLW Radio Station. 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 6.30 below lsd, Oct. 20-23, 1951. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.95	2.20	1.70	1.18	3.28	.....	3.90	5.15	5.85	6.15	6.05	.....
2	3.00	2.35	1.75	1.25	3.28	.....	3.85	5.20	5.90	6.15	6.00	.....
3	1.90	2.40	1.48	1.50	3.29	.....	3.90	5.20	5.90	6.15	6.00	.....
4	1.80	2.45	.85	1.72	3.29	4.05	4.00	5.25	5.90	6.15	6.00	.....
5	.90	2.50	1.25	1.92	3.38	.....	4.10	5.25	5.95	6.15	6.00	.....
6	1.05	2.35	1.38	2.07	3.40	.....	4.15	5.30	5.95	6.15	6.00	.....
7	1.10	.85	1.58	2.16	3.50	.....	4.25	5.30	5.95	6.20	5.50	.....
8	1.25	1.40	1.88	1.80	3.55	.....	4.30	5.30	6.00	6.20	5.55	.....
9	1.35	1.65	2.09	1.45	3.60	.....	4.40	5.35	6.00	6.20	5.55	.....
10	1.40	1.90	2.23	.75	3.60	.....	4.45	5.35	6.00	6.20	5.50	.....
11	.75	1.95	2.33	.80	3.50	4.05	4.50	5.40	6.00	6.25	5.45	.....
12	.90	.60	2.40	.62	3.00	4.10	4.55	5.40	6.00	6.25	5.40	.....
13	1.05	.65	2.32	.64	3.15	4.10	4.55	5.45	6.00	6.25	5.40	.....
14	.95	.95	.83	.80	3.35	4.15	4.60	5.45	6.00	6.25	4.60	.....
15	.80	1.05	.88	1.30	3.45	4.20	4.65	5.50	6.05	6.25	4.40	.....
16	1.00	.95	.75	1.58	3.55	4.25	4.70	5.50	6.05	6.25	4.15	.....
17	1.10	.90	.98	1.80	3.60	4.30	4.75	5.55	6.10	6.25	3.95	1.45
18	1.15	1.00	.87	1.90	3.70	4.35	4.75	5.55	6.10	6.25	3.80	.....
19	1.30	1.05	.75	2.25	3.75	4.40	4.80	5.60	6.15	6.25	3.75	.....
20	1.50	.80	.85	2.45	3.75	4.45	4.85	5.60	6.15	6.30	3.80	.....
21	1.75	.65	.84	2.58	3.70	4.50	4.85	5.65	6.15	6.30	3.80	.....
22	1.85	.80	1.10	2.56	3.65	4.50	4.90	5.65	6.15	6.30	3.85	.....
23	1.85	1.10	1.15	1.77	3.60	4.55	4.90	5.70	6.05	6.30	3.70	.....
24	1.00	1.20	1.08	2.19	3.30	4.55	4.95	5.70	6.05	6.15	2.20	.....
25	1.45	1.40	1.27	2.52	3.45	4.60	4.95	5.70	6.05	6.05	1.95	.....
26	1.70	1.50	1.47	2.78	3.45	4.60	5.00	5.75	6.05	6.05	1.60	.....
27	1.70	1.70	1.67	2.86	3.30	4.60	5.00	5.75	6.10	6.05	.....	1.15
28	1.50	1.75	1.68	2.99	3.15	4.60	5.05	5.80	6.10	6.05	.....	.....
29	1.40	.....	.76	3.12	.....	4.55	5.05	5.80	6.10	6.05	.....	.....
30	1.85	.....	.79	3.25	.....	4.10	5.10	5.80	6.15	6.05	2.35	.....
31	2.05	.....	1.16	.....	.....	.....	5.10	5.85	6.05	6.05	.....	.....

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 21.35 below lsd, Sept. 20, 1948. Records available: 1947-51.

W-2--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.85	16.60	16.50	15.35	15.20	15.15	15.20	16.40	18.30	17.50	17.30	17.65
2	16.90	.....	16.00	15.30	14.75	14.80	15.50	16.35	18.30	17.60	17.70	17.60
3	17.20	.....	16.10	15.70	14.70	14.80	15.50	16.00	18.40	18.35	17.70	17.20
4	17.20	.....	16.05	15.30	14.70	15.20	.....	16.05	18.45	18.50	.....	17.30
5	17.10	.....	16.25	15.70	15.10	14.80	15.50	16.40	18.25	18.45	17.45	17.65
6	16.90	16.95	15.85	15.20	14.60	14.80	15.15	15.90	18.40	17.70	17.60	17.30
7	16.80	.....	16.90	15.20	15.35	15.60	15.15	.....	18.15	17.30	17.30	17.75
8	16.90	.....	16.35	15.20	15.35	15.10	15.60	16.50	18.20	17.60	17.75	17.30
9	17.00	.....	16.80	15.20	15.10	15.00	15.30	16.55	.....	18.50	17.40	17.70
10	17.50	.....	16.30	15.50	14.70	14.80	15.40	16.05	18.35	17.60	17.70	.....
11	17.35	16.85	15.75	.....	14.90	14.80	15.75	16.10	18.05	17.70	17.20	17.55
12	17.00	16.40	15.70	15.00	15.00	14.90	15.40	16.50	18.25	17.65	17.60	17.30
13	17.25	16.40	16.15	15.40	14.60	14.75	15.40	16.45	18.20	17.20	17.30	17.75
14	16.40	16.70	15.80	15.00	14.60	14.85	15.80	16.70	18.30	17.45	17.80	17.10
15	17.10	16.80	17.10	15.40	15.55	14.70	15.35	17.20	17.50	17.55	17.40	17.70
16	16.60	16.80	16.30	15.20	15.50	15.05	16.05	16.30	17.50	17.20	17.80	.....
17	17.00	16.30	15.70	15.35	15.70	14.75	15.90	16.80	18.10	17.65	17.40	.....
18	16.65	16.35	15.60	14.90	15.90	15.20	15.50	17.25	18.30	17.60	17.60	.....
19	16.75	18.25	15.65	15.25	15.50	15.30	15.60	17.10	18.30	17.65	17.75	.....
20	16.75	16.40	15.90	15.00	14.95	15.50	15.60	16.40	18.40	17.65	17.40	17.70
21	17.50	16.20	16.40	14.75	15.40	15.00	15.65	17.00	18.30	17.30	.....	.....
22	16.70	16.30	15.80	14.85	15.80	15.45	16.00	17.05	18.40	17.25	17.80	.....
23	16.60	16.10	15.45	14.85	14.95	15.50	15.60	17.10	17.50	17.60	.....	.....
24	16.65	16.00	16.35	14.80	15.30	15.00	16.10	16.85	18.10	17.40	17.40	.....
25	16.90	16.25	15.45	14.80	15.35	15.40	15.65	18.10	17.50	17.75	17.55	17.00
26	16.55	16.20	15.50	14.80	14.80	15.10	16.10	18.35	17.50	17.75	17.85	17.90
27	17.10	16.45	15.55	14.70	.....	15.20	16.15	17.80	18.25	17.30	17.40	17.20
28	16.60	15.95	15.90	14.70	15.10	15.10	16.55	18.05	17.70	17.55	18.75	17.45
29	16.60	.....	15.40	14.60	14.80	15.90	.....	18.00	17.50	17.20	17.45	17.10
30	16.55	.....	16.30	14.70	14.90	15.25	15.75	18.30	17.60	17.60	17.85	17.45
31	16.85	.....	15.40	.....	14.75	.....	15.85	18.30	17.60	17.65	.....	17.10

Washington County

Wa-1. Marietta Osteopathic Clinic. Fourth and Putnam Sts. 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: 1942-51.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.70	22.68	20.76	21.17	22.50	25.01	26.10	27.30	27.80	27.40	.....	27.90
2	24.75	22.50	21.05	20.65	22.18	25.12	25.90	27.30	27.85	27.45	28.25	27.90
3	25.16	22.00	21.34	20.16	22.34	25.25	26.10	27.25	27.70	27.45	.....	27.50
4	24.80	21.37	21.34	20.12	22.57	25.20	26.20	27.20	27.50	27.45	.....	27.90
5	24.50	21.70	20.90	20.27	22.68	25.16	26.05	27.20	27.45	27.70	28.30	27.95
6	24.00	22.08	20.40	20.42	22.81	25.13	25.80	27.00	27.70	27.50	28.30	27.95
7	22.51	22.25	19.93	21.13	23.00	25.25	25.15	27.20	27.70	27.50	28.30	27.95
8	22.51	22.25	19.87	21.05	23.10	25.25	26.30	27.35	27.40	27.50	28.30	27.95
9	22.57	22.37	19.82	21.25	23.23	25.55	26.30	27.45	27.50	27.45	28.30	27.90
10	22.70	22.50	20.05	21.35	23.35	25.60	26.35	27.45	27.60	.....	28.25	27.80
11	22.95	22.72	20.45	21.47	23.35	25.65	26.50	27.50	27.60	.....	28.25	27.70
12	23.42	22.73	20.55	21.47	23.35	25.55	26.55	27.55	27.65	.....	28.20	27.55
13	23.15	22.65	21.02	21.50	23.35	25.45	26.45	27.55	27.60	27.45	28.20	27.50
14	23.13	22.42	21.12	21.90	23.57	25.45	26.65	27.60	27.45	27.45	28.25	27.45
15	22.90	22.30	21.27	21.32	23.45	25.20	26.70	27.60	27.40	27.45	28.25	27.45
16	22.30	21.75	21.30	21.03	23.78	24.90	26.75	27.60	27.60	27.50	28.25	27.45
17	21.60	21.50	21.30	20.95	23.85	24.95	26.80	27.50	27.60	27.50	28.25	27.45
18	21.18	21.42	21.31	21.13	23.95	25.15	26.85	27.65	27.40	27.50	28.25	27.55
19	21.84	21.32	21.32	21.42	24.05	25.40	26.85	27.70	27.40	27.50	28.25	27.60
20	21.58	21.22	21.20	22.29	24.12	25.60	26.75	27.60	27.40	27.50	28.25	27.55
21	21.68	21.25	21.00	22.29	24.50	25.75	26.85	27.60	27.40	.....	28.25	27.60
22	21.60	21.05	20.97	22.20	24.38	25.90	27.00	27.60	27.40	.....	28.25	27.45
23	21.43	21.03	21.56	22.20	24.40	25.95	27.05	27.40	27.65	.....	28.25	27.30
24	21.65	20.67	21.50	22.15	24.30	26.00	27.00	27.35	27.45	.....	28.25	27.15
25	21.87	20.04	21.30	22.14	24.35	26.00	26.95	27.50	27.45	.....	28.20	27.00

Wa-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	22.03	20.14	21.35	22.25	24.39	26.05	27.10	27.70	27.45	.....	28.15	26.95
27	22.34	20.40	21.55	22.35	24.46	26.00	27.10	27.50	27.45	28.20	28.00	26.85
28	22.47	20.57	21.70	22.85	24.53	26.15	27.20	27.70	27.45	28.25	27.95	26.75
29	22.52		21.70	22.89	24.60	26.15	27.20	27.60	27.45	28.25	27.90	26.70
30	22.63		21.50	22.60	24.64	26.05	27.25	27.60	27.40	.....	27.85	26.70
31	22.67		21.92		24.70		27.25	27.75		.....		26.65

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 7.50 below lsd, Apr. 1, 1951; lowest 19.00 below lsd, Aug. 31, 1951. Records available: 1951. Apr. 1, 7.50.

Daily lowest water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		15.25	18.90	16.40	16.85	.....
2	.....	15.40	18.80	15.70	.....	.....
3	.....	15.50	17.00	16.85	.....	.....
4	.....	15.50	17.10	16.90	.....	.....
5	.....	15.20	18.00	16.90	16.80	.....
6	.....	15.20	17.30	17.00	.....	14.80
7	.....	15.50	17.30	16.60	.....	14.80
8	.....	15.60	17.20	16.80	.....	13.80
9	.....	15.70	17.00	16.70	.....	12.35
10	14.40	15.90	17.00	16.75	16.20	10.80
11	14.50	15.90	17.00	16.80	15.00	10.25
12	14.45	15.60	17.05	16.75	16.15	10.80
13	14.40	16.00	17.05	16.80	16.00	11.80
14	14.35	16.70	16.90	16.80	15.90	11.15
15	13.35	16.70	16.90	16.90	15.80	11.65
16	14.30	16.65	16.85	16.75	15.75	.....
17	14.60	17.70	16.60	16.75	15.60	.....
18	.....	17.10	16.80	16.90	.....	11.80
19	.....	17.20	16.80	16.95	15.50	.....
20	14.80	17.40	16.80	16.90	.....	.....
21	14.80	17.60	16.90	16.80	15.45	.....
22	14.60	17.40	16.90	16.90	14.10	.....
23	14.45	17.10	16.05	17.05	15.15	.....
24	14.60	17.60	16.80	17.10	14.90	.....
25	14.70	17.30	16.80	17.00	14.55	13.30
26	14.75	17.35	16.60	17.00	14.80	.....
27	14.90	18.10	16.70	17.20	15.00	.....
28	15.00	18.00	16.80	16.80	15.05	9.50
29	15.00	18.80	16.60	16.90	15.00	.....
30	14.90	18.85	16.60	16.75	15.00	9.65
31	15.10	19.00		16.75		.....

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

Williams County

Wm-1. City of Bryan. Lat. 41°20', long. 84°30'. Drilled unused well in gravel, diameter 8 inches, depth 118 feet. Highest water level 1.20 below lsd, Nov. 23, 1951; lowest 11.89 below lsd, Aug. 9, 1951. Records available: 1951.

Daily lowest water level from recorder graph*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.11	.....	7.03	5.82	5.37
2	11.22	.....	.....	6.02	3.80
3	9.11	5.40	4.24
4	10.97	6.85	3.95	5.05
5	9.44	.....	9.19	.....	4.45
6	9.85	.....	7.95	6.74	5.22
7	9.61	.....	11.33	11.20	6.35	7.43	5.94
8	9.50	7.34	11.53	10.24	6.61	8.46	5.21
9	8.04	11.89	8.72	7.54	8.48	4.00
10	8.78	.....	.....	7.15	7.40	5.20

Wm-1--Continued.

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	....	....	9.62	....	9.38	7.15	5.88	5.93
12	....	....	8.91	....	....	7.60	5.48	5.21
13	....	....	8.52	....	....	....	5.80	....
14	....	....	8.89	....	....	5.65	5.19	....
15	....	....	7.46	....	....	6.35	4.69	....
16	....	....	9.21	....	....	6.38	5.67	....
17	....	....	9.05	....	....	6.30	4.72	....
18	....	....	9.76	....	....	....	4.10	....
19	....	....	10.29	....	....	10.09	4.14	5.80
20	....	....	10.38	....	9.74	....	5.80	5.85
21	....	....	10.35	....	9.41	5.85	5.54	....
22	8.25	....	8.85	....	9.33	5.47	3.81	....
23	8.27	....	10.07	....	8.30	6.29	4.55	....
24	8.04	....	10.13	....	7.94	5.83	4.05	5.85
25	8.41	....	10.45	....	8.98	6.59	5.05	....
26	8.08	....	11.22	8.41	8.29	6.70	5.05	....
27	....	....	11.66	7.85	....	5.48	5.05	....
28	....	....	10.89	10.93	9.43	4.54	5.20	3.85
29	....	....	8.81	11.45	8.24	4.38	5.71	4.40
30	....	....	9.91	11.61	11.22	4.37	6.18	4.10
31	....	....	10.90	....	....	4.19	....	3.00

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

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 28.36 below lsd, Dec. 31, 1951; lowest 35.70 below lsd, Sept. 25, 1951. Records available: 1951.

Daily lowest water level from recorder graph

Day	Sept.	Oct.	Nov.	Dec.	Day	Sept.	Oct.	Nov.	Dec.
1	34.40	31.55	33.20	17	....	31.70	31.50	31.90
2	31.80	31.90	30.60	18	....	31.55	30.70	32.65
3	36.85	32.65	32.75	19	....	31.15	33.70	32.60
4	32.60	30.60	33.55	20	....	31.35	32.85	32.00
5	32.20	31.40	33.50	21	....	30.45	34.25	31.80
6	34.10	31.30	32.90	22	....	31.20	34.50	31.40
7	31.30	31.50	32.80	23	....	31.65	34.10	31.30
8	31.75	31.45	32.75	24	32.60	31.50	34.30	31.35
9	32.05	31.35	30.50	25	35.70	31.90	30.90	30.00
10	32.00	32.10	32.65	26	35.60	31.40	31.25	31.80
11	32.20	30.50	32.35	27	31.55	32.00	34.60	32.50
12	31.80	31.20	33.10	28	31.80	30.70	33.85	31.70
13	32.25	31.40	31.75	29	34.85	31.75	35.55	31.65
14	30.70	31.80	31.40	30	35.15	33.35	33.55	31.45
15	31.60	33.85	32.10	31	....	32.05	....	33.10
16	31.55	34.25	....	....	....	....	....	....

PENNSYLVANIA

By J. C. Kammerer

Scope of Water-Level Program

The observation-well program in Pennsylvania was continued in 1951 in cooperation with the State Topographic and Geologic Survey. The main new area of water-level study in 1951 was the Brandywine Valley in Chester and Delaware Counties. Conditions in Beaver and Northampton Counties are reported for the first time. Water-level measurements were tabulated for 97 wells in 35 counties. Nineteen wells are equipped with recording gages, 65 wells were measured at weekly or biweekly intervals, and 13 wells were measured at irregular intervals. Locations of observation wells are shown on figure 27, except those in downtown Pittsburgh and in southern Philadelphia, which are shown on figures 23 and 24, respectively.

Two ground-water reports were published during 1951 by the Pennsylvania Topographic and Geologic Survey:

Van Tuyl, D. W., and Klein, N. H., 1951, Ground-water resources of Beaver County, Pa.: Pennsylvania Topog. and Geol. Survey, 4th ser., Bull. W9, 84pp.

Van Tuyl, D. W., 1951, Ground water for air conditioning at Pittsburgh, Pa.: Pennsylvania Topog. and Geol. Survey, 4th ser., Bull. W10, 34 pp.

Figure 25 shows the location and bulletin number of county and regional ground-water reports prepared by the U. S. Geological Survey and published by the Pennsylvania Topographic and Geologic Survey. Bulletins W1 through W6 were published between 1933 and 1939, and Bulletin W8, the first of the county reports, was published in 1949. Bulletin W7, published in 1941, summarized some of the information contained in the first 6 bulletins.

Measurements in about 25 water-table wells within or near the boundaries of the Susquehanna River basin in Pennsylvania were made available each week to the Pennsylvania Water and Power Company, Baltimore, Md. From these data and similar records in adjacent parts of the basin in New York and Maryland, company engineers calculated a weekly figure known as the "Susquehanna ground-water index," which was used in forecasting the minimum fair-weather stream flow at the company's hydroelectric plants.

Interpretation of Water-Level Fluctuations

Ground-water levels in most areas of Pennsylvania distant from heavily pumped wells followed generally the local patterns of precipitation, declining during dry periods, and rising after soaking rains except during most of the growing season when the greater part of the precipitation was returned to the atmosphere by evaporation and transpiration. In areas of large ground-water pumpage, such as Pittsburgh and Philadelphia, water-level fluctuations followed closely the local trends of pumping, declining as pumping rates increased, recovering as pumping rates decreased.

Depths to water in 25 water-table observation wells in 22 counties of Pennsylvania in areas distant from heavily pumped wells were converted each week to heights above assumed datum planes and then averaged. Figure 26 is the resulting graph, showing 1951 levels and the average and extreme weekly levels of the period 1932-50 inclusive, together with monthly precipitation for 1951 and for the 64-year average 1888-1951. The assumed datum plane for each well used to prepare figure 26 is 10 feet above the depth-to-water below land-surface datum on November 28, 1931, as measured or estimated.

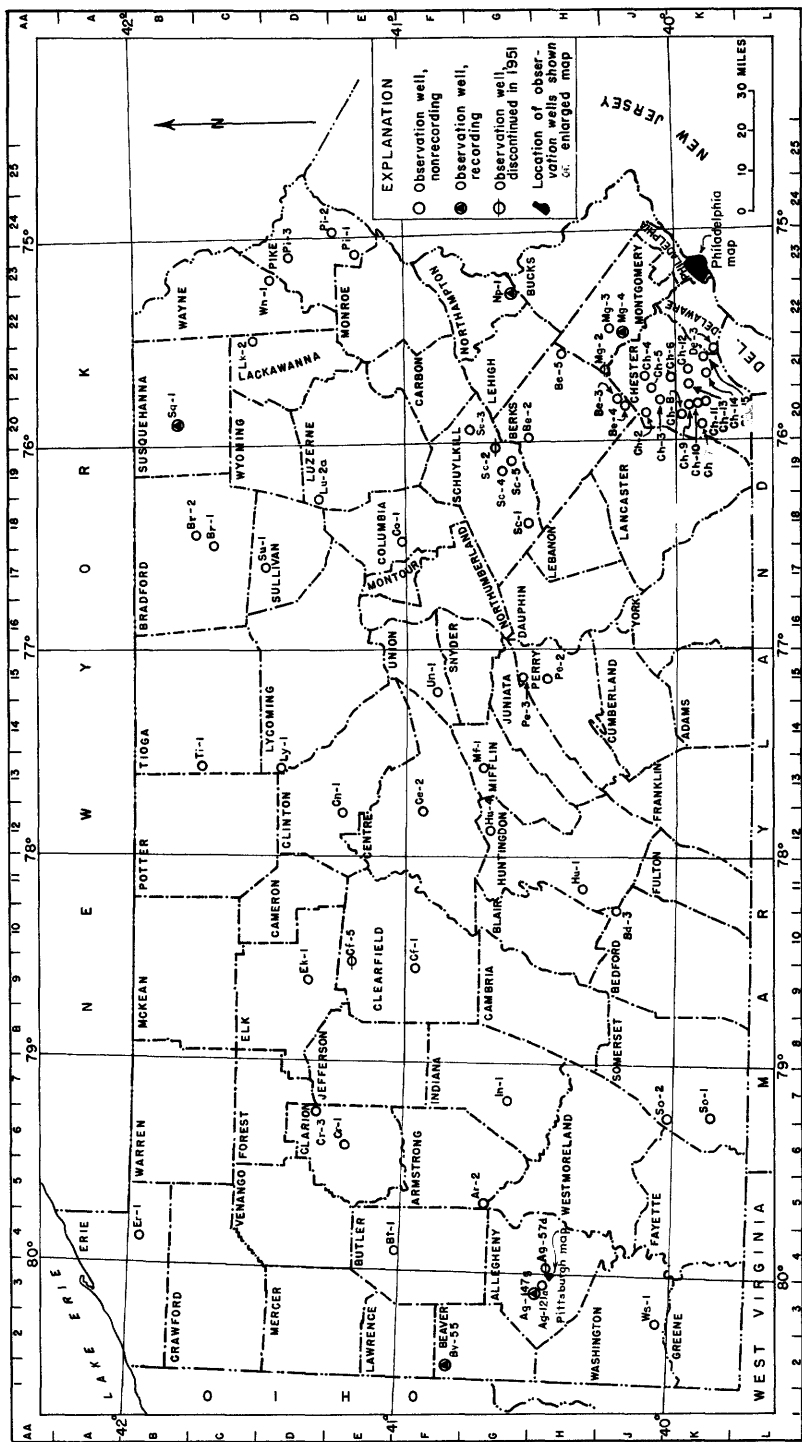


Figure 22. -- Location of observation wells in Pennsylvania, 1951, excepting parts of Philadelphia and Pittsburgh.

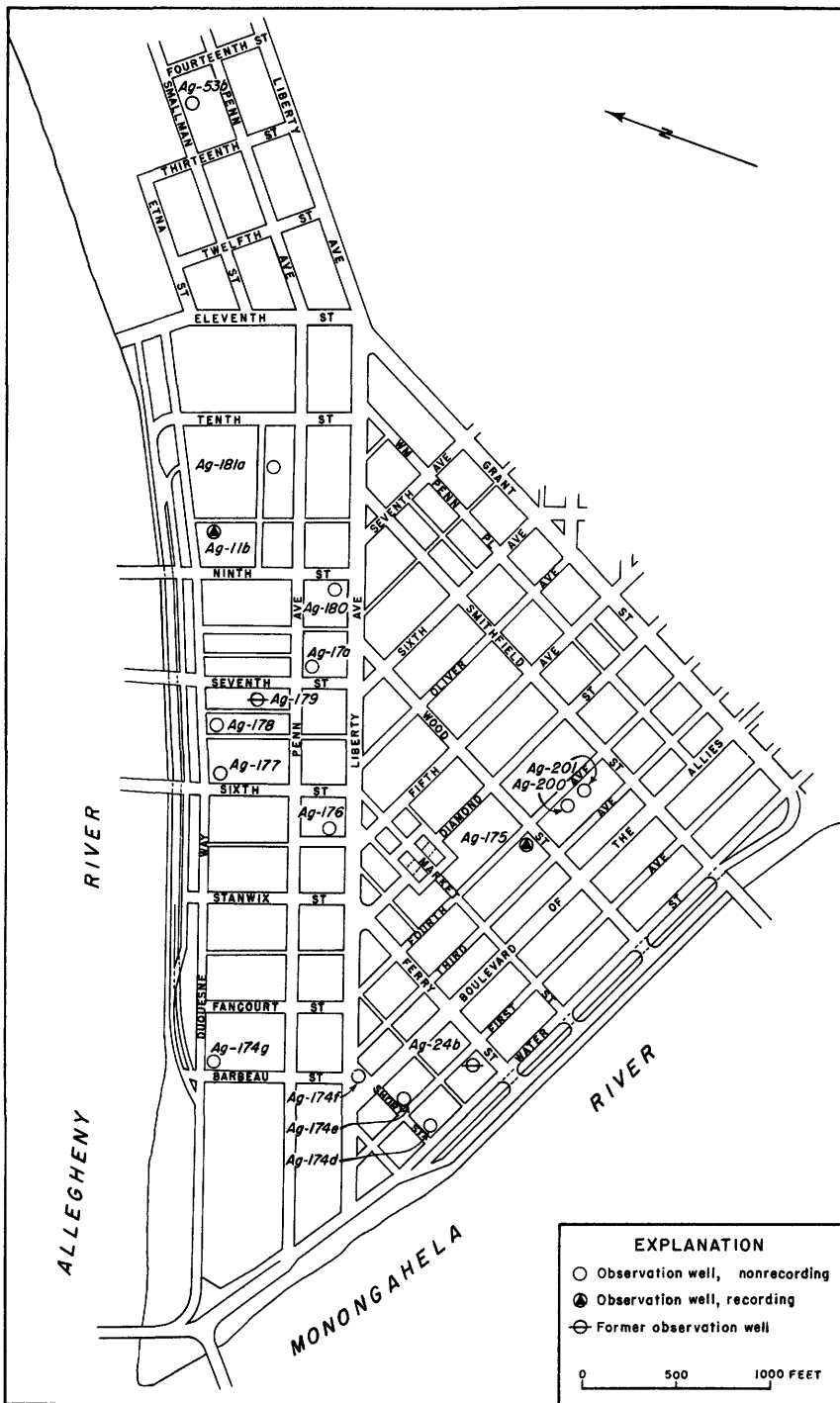


Figure 23.--Location of observation wells in Triangle area of Pittsburgh, Pennsylvania, 1951.

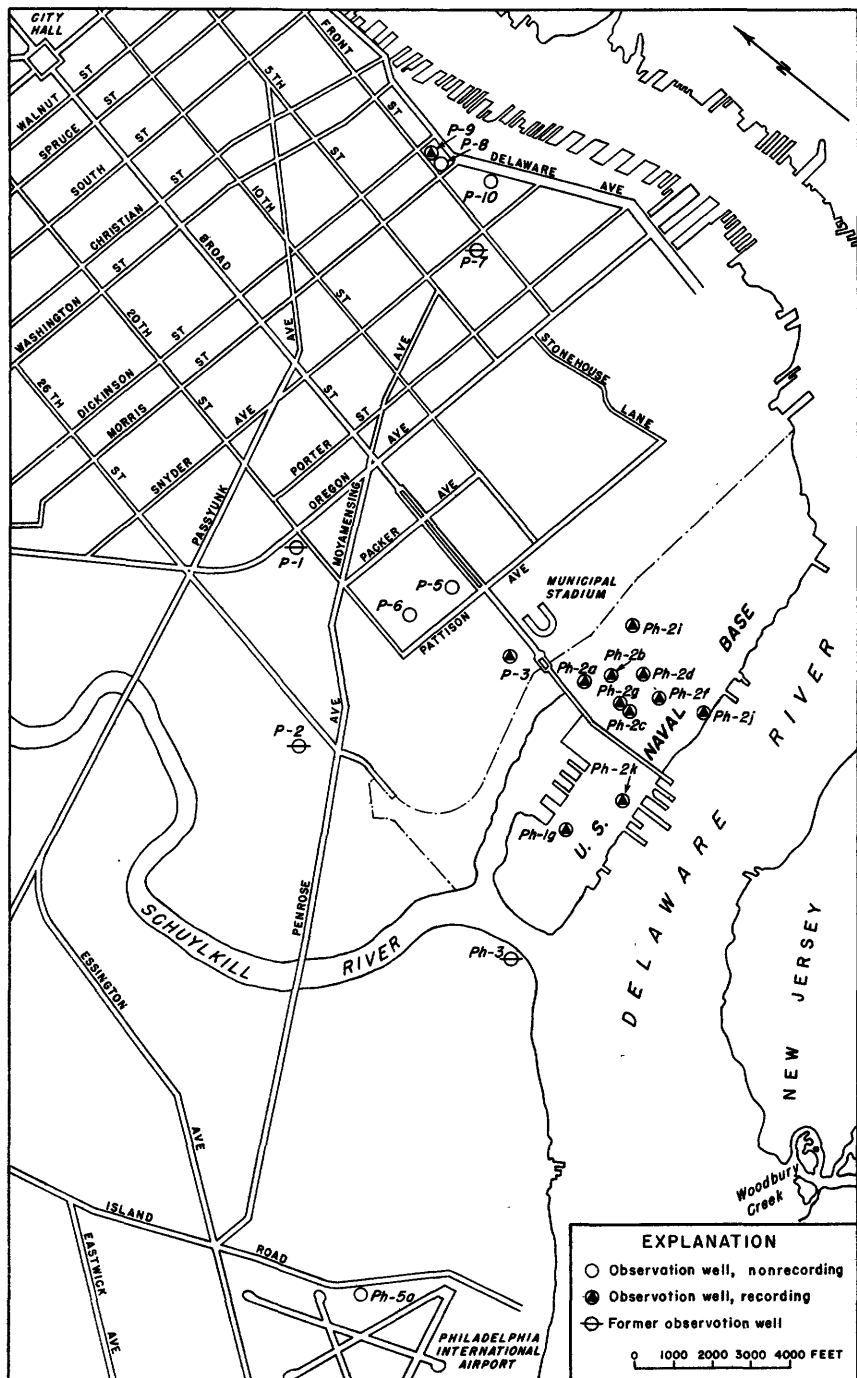


Figure 24. --Location of observation wells in southern part of Philadelphia County, 1951.

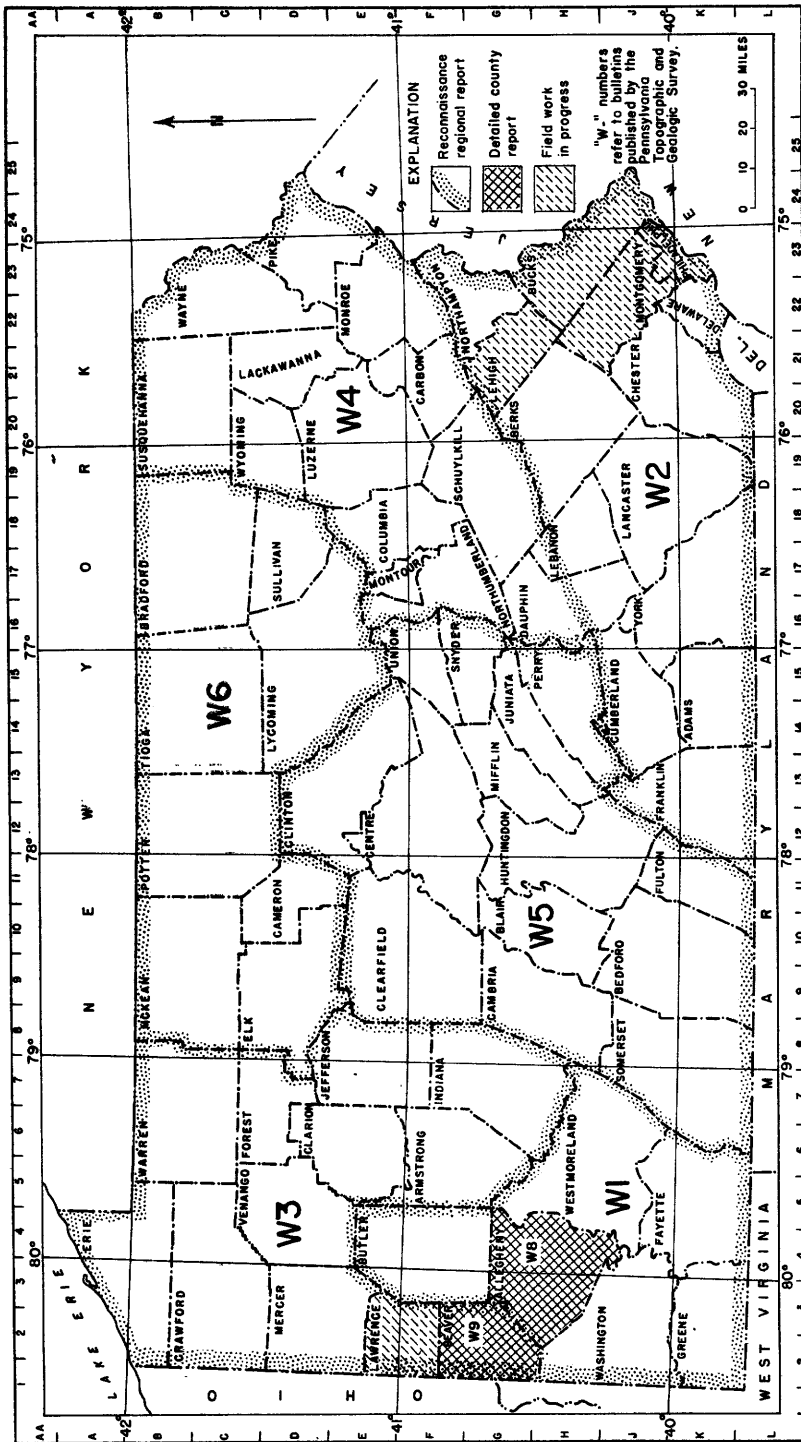


Figure 25. --Areas in Pennsylvania for which ground-water reports have been published or where field work is in progress.

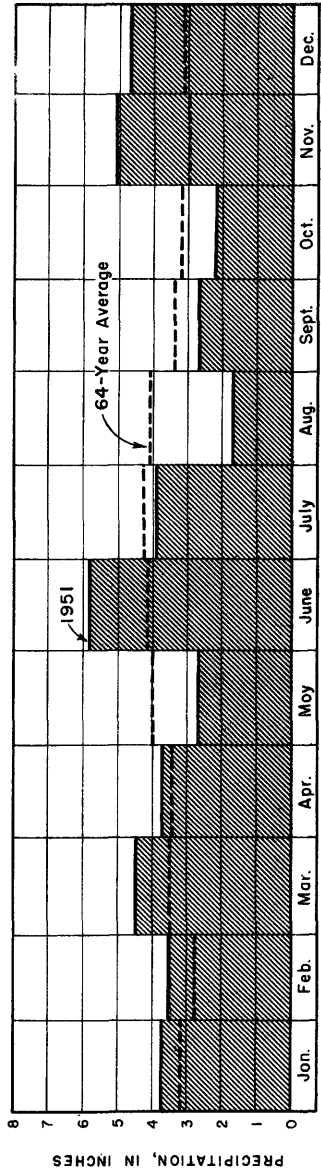
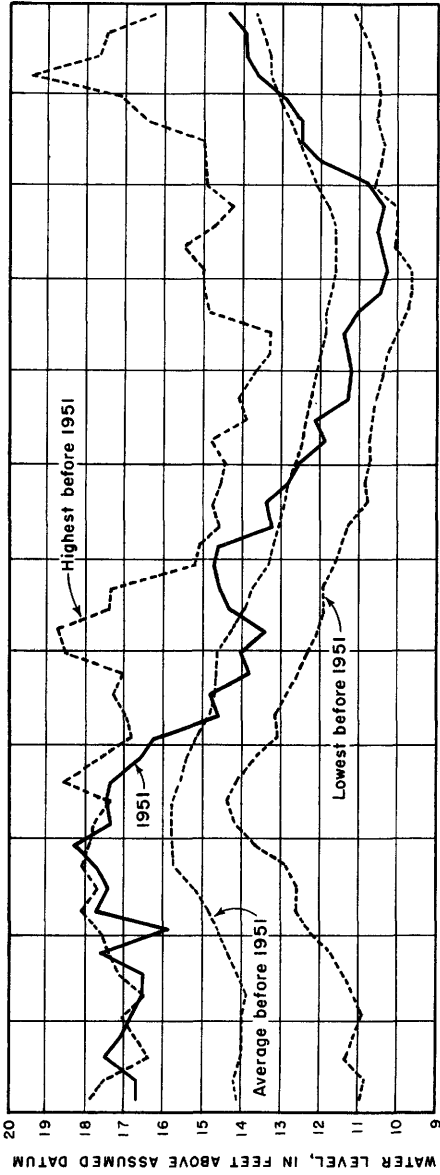


Figure 26. --Average weekly water levels in 25 water-table wells in Pennsylvania distant from areas of heavy pumpage and monthly statewide precipitation, 1951.

Assumed datum planes of 25 wells included in the 1951 averages in figure 26.

New well number	Former well number	Depth of assumed datum below land-surface datum (feet)	New well number	Former well number	Depth of assumed datum below land-surface datum (feet)
Bd-3	116	65.58	Mg-2	126	38.53
Br-1	81	15.15	Pe-2	61	27.03
Br-2	82	64.32	Pe-3	110	14.80
Bt-1	120	22.85	Sc-1	72	35.27
Ce-2	124	28.94	Sc-2	127	22.23
Cr-1	103	25.84	So-1	16	25.80
Cf-4	123	32.12	Su-1	105	35.57
Co-1	75	26.92	Sq-1	100	20.19
Ek-1	118	24.15	Ti-1	106	30.19
Er-1	1	25.57	Un-1	122	20.44
Hu-1	47	36.16	Ws-1	112	44.49
Lk-2	102	20.23	Wn-1	83	26.32
Mf-1	117	32.54			

Statewide precipitation was above average from November 1950 through April 1951, and ground-water levels were accordingly near or at new highs during a number of weeks of that period. Fluctuations of water level during the remainder of 1951 followed the pattern of low precipitation in May, sixth wettest June of record, second driest August of record, below-average precipitation in September and October, and a very wet November-December period. Only the high June precipitation interrupted the normal downward trend of water levels during the growing season.

Similar comparisons of ground-water levels with precipitation in 1951 may be made for four wells individually by referring to figure 27, except that precipitation is shown totaled by weeks instead of by months. Geographically the Clarion well is in west-central, the Gaines well in north-central, the Montrose well in northeast, and the Pine Grove well in east-central Pennsylvania. The unusually high water level in well Ti-1, Gaines, in early July is a result of 4 weeks of heavy precipitation. Also, the more nearly normal level occurred in each of the other 3 wells where most of the summer precipitation failed to reach the water table because it was returned to the atmosphere by evapotranspiration.

Ground-water levels in the unconsolidated sand and gravel aquifer underlying downtown Pittsburgh (between the Allegheny and Monongahela Rivers) declined during most of the first 8 months of 1951, then rose steadily to fairly high levels by early November. Extremely high ground-water levels early in 1951 were the result of high river levels. The top line of the graph on figure 28 shows water levels in 1 well in the Pittsburgh Triangle area from 1945 through 1951. Much of the pumpage of ground water in the Triangle area is for air conditioning and therefore the pumpage usually reaches a maximum during July or August. As a result, the lowest ground-water levels occur during July and August. The average of low levels for 1951 was about the same as that for 1950. Ground-water levels were from 1 to 3 feet lower at the end of 1951 than at the end of 1950, but were only about one-half foot below levels of 1949.

Ground-water levels in the unconsolidated sand and gravel aquifers underlying Philadelphia were generally somewhat lower than in 1950 but higher than in the 5 or 6 years preceding 1950. The lower part of figure 28 shows the wide variation in water levels which occurred during 1951. Water levels in well Ph-249, for example, reached a new low on May 18 and a new high on December 2. This extreme range of fluctuation was caused by correspondingly large variations in rates of pumping in southeastern Philadelphia.

The water level in well Ph-18, on the northern boundary of the U. S. Naval Base, reflects mainly the effect of withdrawals from 7 wells at the Base, as shown on the bottom graph of figure 28. Note that pumpage at the Naval Base during 1951 was greater than in the latter part of 1950 but not so great as in the years preceding 1950. A contributing cause to the decrease in use of ground water in Philadelphia in recent years, especially in the Naval Base, has been the increase of the dissolved solids content of the water, the iron content in particular. In contrast to the large fluctuations in wells in southeastern and southern Philadelphia, the water level in well Ph-30 at Philadelphia International Airport in the southwestern part of the city has varied but little during the past 6 years (figure 28). Well Ph-30 is 3 miles west of any heavily pumped wells, and still farther from the area of heavy pumping in southeastern Philadelphia.

Acknowledgments

Water-level data and interpretations for Allegheny County were prepared by D. W. Van Tuyl. Water-level measurements in several wells were made by personnel of the Quality of Water Branch and of the surface Water Branch of the Federal Survey during the course of water-sampling and stream-gaging field work. Most of the measurements in wells outside the Philadelphia and Pittsburgh areas are made by voluntary or paid observers, who forward to the

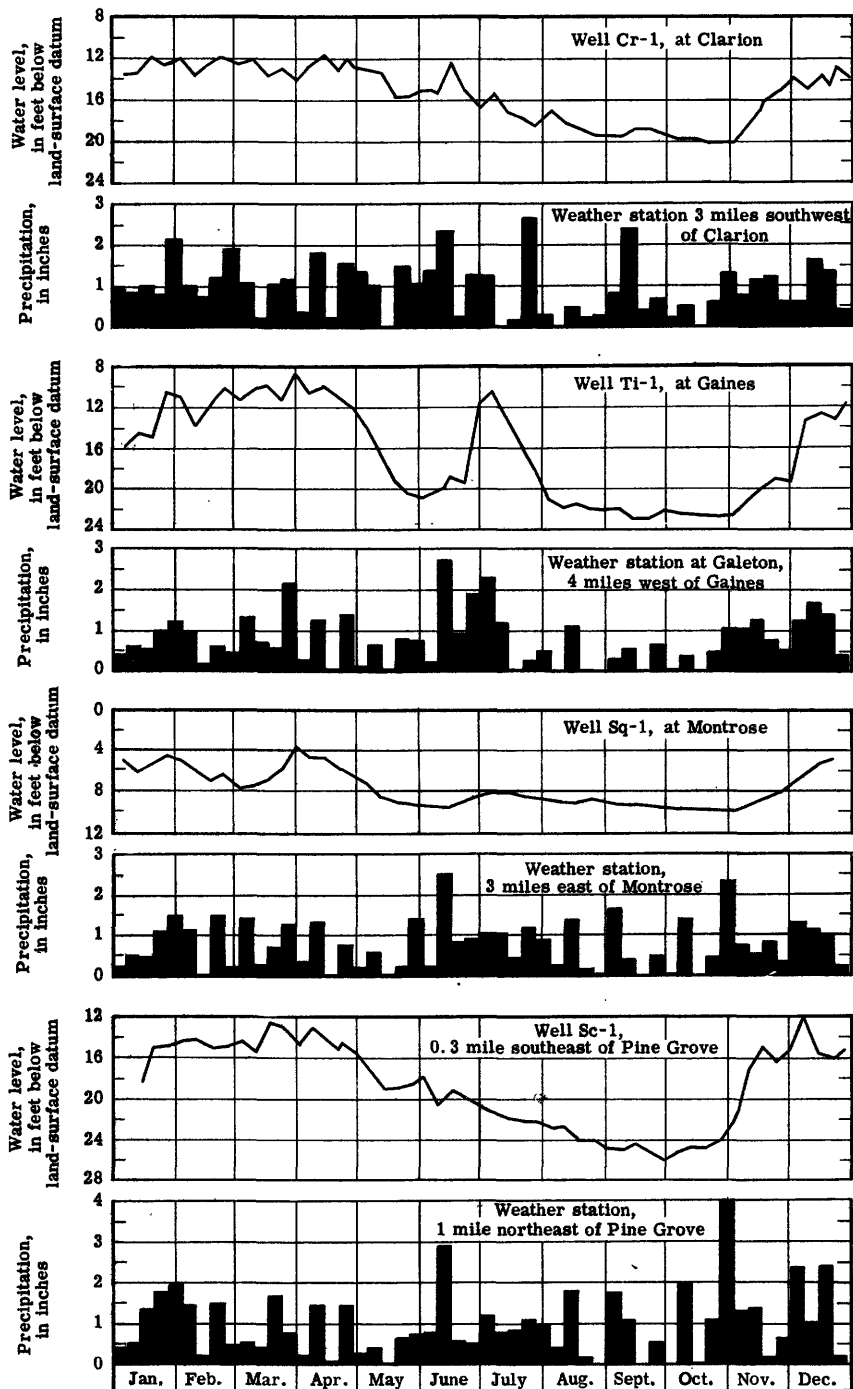


Figure 27. --Precipitation and weekly water levels in four wells in areas distant from heavy pumpage, 1951.

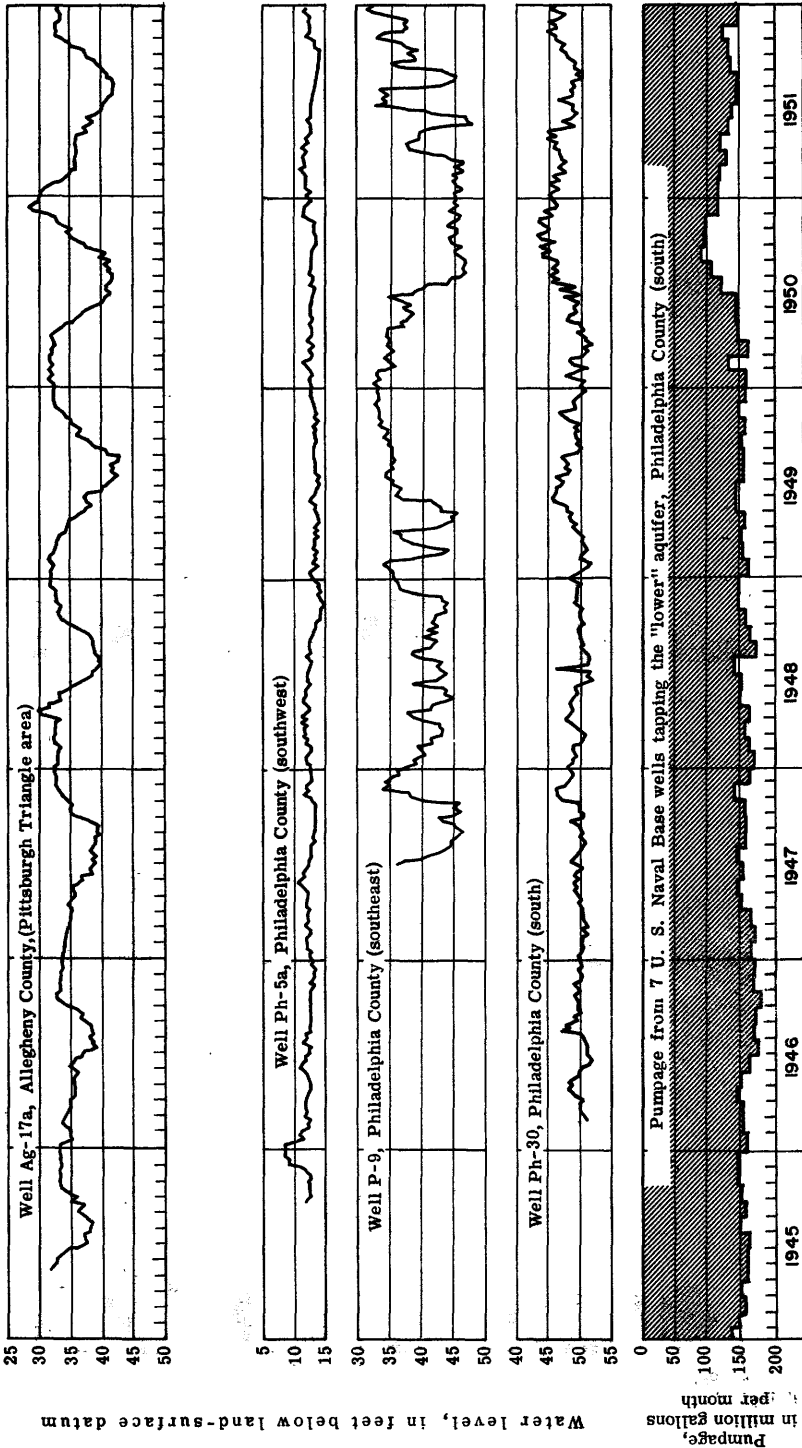


Figure 28. --Weekly water levels in four wells in Philadelphia and Pittsburgh and monthly pumpage at the U. S. Naval Base, Philadelphia, 1945-51.

Philadelphia office by postal card the depth-to-water data obtained each week at the wells near their homes. Special acknowledgment is due the 32 voluntary observers. The name of each is given in the descriptive information preceding the tabular water-level data for the well in which measurements were made.

Well-Numbering System

A new well-numbering system and location-numbering system for Pennsylvania wells are introduced in this report. Both the new number and the former number are given in the description of each well. Each well number consists of a two-letter abbreviation of the name of the county in which the well is located, a hyphen, and a number consecutively assigned to the well. The small letter "l" is not used in county abbreviations nor as the final small letter of a well number, to avoid confusion with the typewritten number "1". In Allegheny and Beaver Counties, small letters ("a", "b", "c", etc.) have been used as the final part of some well numbers in order to indicate each of a series of wells in the same well field. The location-numbering system consists of a series of letters and numbers which define the northwest corner of a square area one-tenth of a mile on a side, within which area the well is located. On the side and top margins of the State well-location map, figure 22, are respectively capital letters A through L (omitting I) and consecutive numbers 1 through 25. These same letters and numbers were used on an index of topographic mapping needs prepared in 1945 by the Pennsylvania State Planning Board. Each letter-number combination defines an area (or "quadrangle") 15 minutes of latitude and 15 minutes of longitude on a side. For example, Pittsburgh is partly in H3 and partly in H4. In the location-numbering system the capital letter and number are followed by a small "a", "b", "c", or "d", corresponding to the northwest, northeast, southwest, or southeast quarter of the 15-minute quadrangle, and the location-number then represents a $7\frac{1}{2}$ -minute quadrangle. Thus, a location number H3b or H4a enables one to find a well quickly on a map such as figure 22. The remaining part of the location number consists of a hyphen and a 4-digit number. The first pair of digits represents a distance in tenths of miles south from the north border of the $7\frac{1}{2}$ -minute quadrangle defined by the first half of the location number. The second pair represents a distance east from the west border. The point defined by these distances is the northwest corner of the square area (0.1 mile on a side) in which the well is located. For example, a well located by "H3b-3965" is within a tenth of a mile south and east of a point 3.9 miles south and 6.5 miles east of the northwest corner of quadrangle H3b.

Well Descriptions and Water-Level Measurements

All water-level measurements are below land-surface datum. In this report all tabular water-level data from recorder charts are expressed as daily "lowest" water levels instead of as daily "noon" water levels used in annual reports from 1944-50. Most of the 1944-50 records on file have been revised accordingly and figures in this report which are based on data from recorder graphs are plotted entirely from "weekly lowest" figures. Water-level tabulations and graphical data in this report are therefore expressed in terms of greater depth than in previous reports, but generally not more than 1 foot lower on any given day. Four exceptions are wells Ag-14g, Ph-18, Ph-19, and Ph-20, for which records in this report are generally from 0.5 foot to 4 feet lower.

Allegheny County

Ag-11b. Formerly A-10. Atlas Paste Co. 920 Duquesne Way, Pittsburgh. Location no. W4a-3700; lat. $40^{\circ}26'40''$, long. $79^{\circ}59'50''$. Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 62 feet. Land-surface datum is about 730 feet above msl. Highest water level 27.92 below lsd, Dec. 12, 1950; lowest 41.88 below lsd, Aug. 1, 1946. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.02	34.30	36.10	35.82	36.19	37.68	.....	.....	38.40	35.70	32.77	32.25
2	30.57	33.72	35.60	35.88	36.46	37.76	.....	40.07	38.22	35.74	32.83	32.22
3	30.23	33.78	35.57	35.65	36.62	37.61	.....	40.04	37.94	35.80	32.59	32.40
4	30.25	33.78	35.54	35.94	36.72	38.00	.....	39.84	37.90	35.82	32.44	32.55
5	29.94	33.92	35.38	35.94	36.65	38.10	39.33	39.53	37.88	35.87	32.93	32.62
6	29.79	34.05	35.79	35.92	36.46	38.26	39.25	39.43	37.88	35.83	32.60	32.72
7	29.75	34.28	35.40	35.65	36.56	38.34	39.14	39.41	37.88	35.60	32.81	32.86
8	29.87	34.45	35.42	35.63	36.56	38.35	38.85	39.43	37.60	35.81	.....	32.87
9	30.00	34.57	35.47	35.62	36.69	38.32	39.05	39.42	37.33	35.43	.....	32.65
10	30.55	34.62	35.44	35.77	36.54	38.28	39.23	39.50	37.30	.....	.....	32.80
11	30.70	34.61	35.38	35.88	.....	38.44	39.45	39.42	37.34	35.40	.....	32.73
12	30.88	34.74	35.31	35.95	.....	38.54	39.62	39.10	37.42	34.33	.....	32.82
13	30.62	34.84	35.36	36.00	.....	38.68	39.73	39.20	37.53	34.74	.....	32.69
14	30.60	34.90	35.45	35.95	.....	38.45	39.74	39.27	37.63	34.50	.....	32.66
15	30.81	34.83	35.52	35.65	.....	38.56	39.40	39.32	37.46	34.92	32.46	32.70

Ag-11b--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	31.05	34.88	35.59	35.97	.....	38.32	39.75	39.39	37.26	34.75	32.44	32.66
17	31.72	.....	35.85	36.01	36.99	38.22	39.84	39.43	37.23	34.36	32.31	32.50
18	31.98	.....	35.60	36.06	37.23	38.40	40.00	39.24	37.12	34.33	32.05	32.56
19	32.16	.....	35.57	36.12	37.26	38.46	40.05	38.99	37.08	34.12	32.34	32.58
20	31.86	.....	36.05	36.23	37.15	38.67	40.12	39.01	37.06	34.02	32.36	32.68
21	31.90	35.80	36.22	36.09	37.54	38.74	40.00	39.03	37.11	33.82	32.32	32.60
22	32.00	35.70	35.72	35.86	37.74	38.87	39.64	39.10	37.00	33.88	32.04	32.55
23	32.16	35.86	36.20	35.86	37.90	38.82	39.88	39.02	36.82	33.98	32.26	32.48
24	32.41	35.85	35.78	35.79	37.86	38.62	39.94	38.87	36.69	34.00	32.06	32.35
25	32.74	35.50	35.70	35.85	37.90	38.94	40.03	38.63	36.67	33.82	32.03	32.30
26	32.95	.....	35.80	35.85	37.66	39.05	40.05	38.36	36.52	33.66	32.28	32.52
27	33.14	.....	35.86	35.83	37.73	39.24	.....	38.33	36.50	33.55	32.10	32.50
28	33.22	.....	35.90	35.76	37.83	39.30	.....	38.40	36.30	33.32	32.66	32.45
29	33.37	.....	36.20	35.66	37.72	.....	.....	38.46	36.06	33.28	32.72	32.38
30	33.53	.....	36.30	35.98	37.40	.....	.....	38.48	35.77	33.20	32.48	32.15
31	33.65	.....	35.95	.....	37.52	.....	.....	38.54	.....	33.13	.....	32.34

Ag-17a. Formerly A-7. Stanley Theater. Penn Ave. and Seventh St., Pittsburgh. Location no. H3b-3965; lat. 40°26'30", long. 80°00'00". Drilled water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 101 feet (about 32 feet into rock). Land-surface datum is about 735 feet above msl. Highest water level 28.24 below lsd, Dec. 12, 1950; lowest 42.75 below lsd, Aug. 18, 1949. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	30.50	Apr. 5	35.72	July 12	a42.50	Oct. 11	36.77
11	30.46	12	35.60	19	41.68	18	34.86
18	31.50	19	35.76	Aug. 2	41.98	25	34.50
25	32.90	26	35.76	9	a41.22	Nov. 1	33.16
Feb. 1	34.05	May 3	37.42	16	41.46	8	32.30
8	34.72	10	36.96	24	40.53	15	32.44
15	35.02	17	37.48	30	40.28	21	32.58
21	35.70	24	38.55	Sept. 6	39.60	29	32.64
Mar. 1	35.68	31	37.60	13	39.22	Dec. 6	33.07
8	35.60	June 7	39.13	20	38.40	13	33.30
15	35.65	14	39.75	27	37.64	20	33.04
22	35.84	21	40.10	Oct. 4	37.10	27	32.68
29	35.95	July 5	40.60				

a Pumping.

Ag-53b. Formerly A-15. Hardie Bros. Co. Fourteenth and Smallman Sts., Pittsburgh. Location no. H4a-3604; lat. 40°26'50", long. 79°59'30". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 14 inches, depth 70 feet. Land-surface datum is about 735 feet above msl. Highest water level 35.72 below lsd, Apr. 23, 1948; lowest 44.37 below lsd, July 27, 1950. Records available: 1948-51.

Jan. 4	38.25	Mar. 29	41.72	June 21	43.30	Oct. 18	41.25
11	37.34	Apr. 5	41.50	July 5	43.80	25	40.46
18	38.20	12	41.63	12	43.92	Nov. 1	40.70
25	38.80	19	41.82	19	44.20	8	40.32
Feb. 12	40.45	27	41.98	Aug. 30	43.25	15	40.16
15	40.76	May 3	42.14	Sept. 6	43.02	21	40.09
21	41.07	10	42.50	13	42.80	29	40.06
Mar. 1	41.07	17	42.72	20	42.62	Dec. 6	40.19
8	40.88	24	43.08	27	42.42	13	40.26
15	41.14	31	43.26	Oct. 4	41.40	20	40.26
22	41.48	June 7	43.46	11	41.58	27	40.14

Ag-57d. Formerly A-16. Otto Milk Co. 24th and Smallman Sts., Pittsburgh. Location no. H4a-3109; lat. 40°27'10", long. 79°58'50". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 60 feet. Land-surface datum is about 733 feet above msl. Highest water level 30.58 below lsd, Dec. 7, 1950; lowest 37.83 below lsd, June 8, 1950. Records available: 1948-51. Measurement discontinued.

Jan. 4	34.88	Feb. 21	35.80	Mar. 29	35.66	May 3	35.94
11	32.90	Mar. 1	35.38	Apr. 5	34.88	10	36.50
18	33.98	8	34.70	12	35.38	17	37.10
25	34.34	15	35.26	19	35.50	24	36.70
Feb. 12	35.68	22	35.48	27	35.74	31	36.42
15	35.92						

Ag-121a. Formerly A-17. Liquid Carbonic Corp. 3101 Preble Ave., Pittsburgh. Location no. H3b-1944; lat. 40°28'20", long. 80°02'20". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 10 inches, depth 50 feet, screen 42-50. Land-surface datum is about 725 feet above msl. Highest water level 20.28 below lsd, Oct. 22, 1951; lowest 29.58 below lsd, July 28, 1949. Records available: 1949-51. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	c25.10	Apr. 19	23.27	July 20	c26.96	Nov. 5	c21.42
24	c24.54	May 3	c27.68	Aug. 30	c26.47	19	20.88
Feb. 19	c25.42	17	c29.15	Sept. 14	c26.55	Dec. 3	20.48
Mar. 1	c27.82	31	c29.18	27	c26.00	17	21.62
23	c28.54	June 18	24.90	Oct. 11	c24.77	29	c24.22
Apr. 5	c28.40	July 5	c27.93	22	20.28		

c Nearby well being pumped.

Ag-147g. Formerly A-19. West View Municipal Water Authority. Neville Island, Pittsburgh. Location no. H3b-0428; lat. 40°29'30", long. 80°04'20". Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 60 feet. Land-surface datum is 725.51 feet above msl. Highest water level 23.30 below lsd, Aug. 4, 1950; lowest 44.40 below lsd, Feb. 24, 1948. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.5	36.2	36.5	41.0	41.6	38.7	31.5	33.5	....	36.3	35.2	38.5
2	41.5	36.2	36.5	41.2	41.7	39.0	35.6	34.3	....	36.4	34.8	38.4
3	41.0	35.9	36.5	41.4	41.7	39.2	36.8	34.9	....	36.2	34.2	38.8
4	36.5	36.1	36.6	41.6	41.7	39.2	32.9	35.5	....	36.0	34.2	39.1
5	36.3	36.2	36.6	42.2	41.4	40.1	32.3	33.0	37.5	36.7	34.2	39.1
6	34.7	36.2	35.8	42.2	41.1	40.1	32.4	34.5	37.9	36.3	35.6	39.6
7	35.2	36.2	40.6	42.2	40.9	39.8	32.9	....	38.4	36.0	36.2	39.6
8	35.7	36.2	41.4	42.4	40.6	40.2	33.3	....	38.7	36.0	36.5	39.1
9	35.9	36.1	41.6	42.4	40.2	40.4	33.4	....	35.4	36.1	36.6	38.6
10	35.7	36.0	42.2	42.3	40.0	40.5	35.7	....	36.5	36.2	36.7	38.7
11	35.6	35.9	42.4	42.3	39.8	40.4	35.8	....	38.4	36.2	36.8	38.7
12	35.5	35.8	42.4	42.2	39.6	40.6	34.4	....	38.9	35.9	36.8	38.6
13	35.5	35.7	42.3	42.3	39.6	40.8	35.2	....	38.8	35.0	36.9	38.6
14	35.2	36.2	41.0	42.3	39.6	40.9	35.4	....	38.5	34.9	37.0	38.1
15	35.8	36.6	40.0	42.3	39.7	40.4	34.2	39.6	36.8	34.8	37.1	....
16	35.8	36.7	40.2	42.5	39.8	40.3	37.4	38.8	34.2	34.8	37.1	....
17	36.0	36.8	40.2	....	39.9	40.6	39.5	39.5	33.8	34.8	37.2	....
18	36.2	35.0	40.2	....	40.1	40.6	41.5	39.8	35.1	34.4	37.3	37.9
19	36.3	35.3	40.2	....	40.1	40.0	41.6	39.7	35.8	35.4	37.3	38.3
20	36.4	35.4	40.2	....	40.1	39.8	41.1	39.8	36.1	35.6	37.4	38.5
21	36.6	35.7	40.7	....	40.0	40.0	40.8	39.8	36.2	35.8	37.6	38.6
22	36.7	35.9	41.0	....	39.6	40.2	40.7	38.3	36.2	35.6	37.7	39.0
23	36.6	35.9	40.9	....	39.4	40.2	40.2	39.4	36.3	35.8	37.8	39.0
24	36.6	36.0	40.8	....	39.4	40.2	40.4	39.7	36.1	35.9	37.9	39.1
25	36.6	36.2	40.1	....	39.2	40.0	40.4	39.9	35.6	38.5	38.2	39.2
26	36.6	36.2	39.8	....	38.5	39.3	40.4	40.0	35.5	39.2	38.4	39.2
27	36.5	36.4	40.4	40.5	38.0	36.6	40.3	40.0	35.5	38.3	38.4	39.2
28	36.5	36.5	40.4	40.4	37.8	35.0	39.9	38.7	35.6	38.6	38.5	39.2
29	36.3		40.4	40.5	37.7	34.5	39.6	....	35.7	38.6	38.6	39.2
30	36.3		40.4	41.2	37.6	32.4	39.5	....	35.8	36.3	38.6	39.2
31	36.3		40.7		38.0		37.0	....		35.9		39.2

Ag-174d. Formerly A-3. City of Pittsburgh, well 4. Water and Short Sts., Pittsburgh. Location no. H3b-4162; lat. 40°26'20", long. 80°00'20". Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 35 feet. Land-surface datum is 730.50 feet above msl. Highest water level 15.60 below lsd, Apr. 15, 1948; lowest 28.39 below lsd, Mar. 16, 1946. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	23.75	Mar. 8	25.30	May 10	25.96	July 19	26.62
11	23.48	15	25.60	17	25.92	Aug. 2	26.64
18	23.76	22	25.69	24	26.34	9	26.51
25	24.15	29	25.74	31	26.12	16	26.48
Feb. 1	e25.00	Apr. 5	25.16	June 7	26.26	24	26.37
8	e24.85	12	25.44	14	e26.40	30	26.10
15	24.93	19	25.45	21	26.10	Sept. 6	25.95
21	25.34	26	25.69	July 5	26.53	13	25.86
Mar. 1	25.50	May 3	25.90	12	26.51	20	25.84

Ag-174d--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 27	25.75	Oct. 25	24.90	Nov. 21	25.52	Dec. 13	25.73
Oct. 4	25.78	Nov. 1	24.44	29	25.45	20	25.60
11	25.59	8	24.17	Dec. 6	25.67	27	25.34
18	25.05	15	24.48				

e Estimated.

Ag-174e. Formerly A-2. City of Pittsburgh, well 5. First Ave. and Short St., Pittsburgh. Location no. H3b-4162; lat. 40°26'20", long. 80°00'20". Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 36 feet. Land-surface datum is 731.84 feet above msl. Highest water level 18.10 below lsd, Apr. 15, 1948; lowest 30.52 below lsd, June 30, 1949. Records available: 1945-51.

Jan. 4	25.40	Apr. 5	27.00	July 12	28.85	Oct. 11	27.70
11	25.12	12	27.22	19	29.00	18	27.02
18	25.43	19	27.27	Aug. 2	29.02	25	26.70
25	25.82	26	27.41	9	28.94	Nov. 1	26.07
Feb. 1	26.64	May 3	27.85	16	28.90	8	25.74
8	26.49	10	28.10	24	28.77	15	26.08
15	26.88	17	28.06	30	28.48	21	27.15
21	27.27	24	28.52	Sept. 6	28.30	29	27.30
Mar. 1	27.30	31	28.38	13	28.12	Dec. 6	27.55
8	27.24	June 7	28.48	20	28.00	13	27.67
15	27.53	14	28.65	27	27.85	20	27.55
22	27.55	21	28.38	Oct. 4	27.68	27	27.27
29	27.60	July 5	29.00				

Ag-174f. Formerly A-1. City of Pittsburgh, well 6. Liberty Ave. and Short St., Pittsburgh. Location no. H3b-4062; lat. 40°26'20", long. 80°00'20". Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 36 feet. Land-surface datum is 730.94 feet above msl. Highest water level 17.68 below lsd, Apr. 15, 1948; lowest 30.04 below lsd, Aug. 18, 1949. Records available: 1945-51.

Jan. 4	24.94	Apr. 5	26.50	July 12	28.70	Oct. 11	27.15
11	24.72	12	26.72	19	28.90	18	26.40
18	25.08	19	26.80	Aug. 2	28.90	25	26.13
25	25.44	26	27.02	9	28.72	Nov. 1	e25.50
Feb. 1	26.34	May 3	27.72	16	28.71	8	25.20
8	e26.20	10	27.70	24	28.41	15	25.72
15	26.55	17	27.72	30	28.19	21	27.22
21	26.95	24	28.20	Sept. 6	27.94	29	27.05
Mar. 1	27.06	31	27.68	13	27.88	Dec. 6	27.36
8	26.84	June 7	28.20	20	27.56	13	27.36
15	27.16	14	28.15	27	27.46	20	27.16
22	27.10	21	28.35	Oct. 4	27.57	27	e26.86
29	27.16	July 5	28.55				

e Estimated.

Ag-174g. Formerly A-14. City of Pittsburgh, well 7. Duquesne Way and Barbeau St., Pittsburgh. Location no. H3b-3962; lat. 40°26'30", long. 80°00'00". Drilled observation water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 40 feet. Land-surface datum is 723.65 feet above msl. Highest water level 0.33 below lsd, Apr. 15, 1948; lowest 18.63 below lsd, July 14, 1949. Records available: 1948-51.

Jan. 4	10.54	Apr. 12	10.26	July 12	10.47	Oct. 11	11.80
11	10.02	19	10.24	19	10.37	18	11.26
18	9.70	26	10.56	Aug. 2	10.11	25	12.05
25	10.25	May 3	10.92	9	9.94	Nov. 1	11.20
Feb. 15	11.14	10	11.06	16	10.03	8	10.80
21	11.14	17	11.08	24	12.10	15	10.34
Mar. 1	11.36	24	11.25	30	13.00	21	10.30
8	10.53	31	11.42	Sept. 6	14.13	29	9.96
15	11.02	June 7	10.86	13	14.28	Dec. 6	9.90
22	11.20	14	11.12	20	14.07	13	9.83
29	11.24	21	10.86	27	13.36	27	9.30
Apr. 5	10.72	July 5	10.38	Oct. 4	12.54		

Ag-175. Formerly A-13. Columbia Building. Fourth Ave. and Wood St., Pittsburgh. Location no. H3b-4165; lat. 40°26'20", long. 80°00'00". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 8 inches, depth 60 feet. Land-surface datum is about 735 feet above msl. Highest water level 30.69 below lsd, Dec. 10, 1950; lowest 42.95 below lsd, Aug. 3, 4, 1951. Records available: 1947-51.

Ag-175--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.32	35.85	37.17	.....	38.54	39.66	.....	.....	.....	38.78	35.95	36.08
2	33.36	35.85	37.22	.....	38.87	39.88	.....	42.86	.....	38.92	35.82	36.08
3	33.54	35.60	37.18	.....	39.16	39.89	.....	42.95	.....	39.08	35.68	36.07
4	33.66	35.44	37.15	.....	39.28	40.04	.....	42.95	.....	39.24	35.54	36.18
5	33.62	35.61	37.04	36.70	39.28	40.21	41.91	42.90	.....	39.42	35.34	36.26
6	33.08	35.72	36.93	.....	39.20	40.40	41.86	42.50	41.16	39.51	35.30	36.45
7	32.71	35.86	37.00	.....	38.96	40.52	41.80	42.48	41.15	39.48	35.20	36.64
8	32.76	36.00	37.04	.....	38.93	40.63	41.78	42.52	.....	39.14	35.19	36.64
9	33.00	36.12	37.10	.....	39.00	40.77	41.62	42.58	.....	38.92	35.18	36.62
10	33.20	36.15	37.09	.....	38.86	40.78	41.81	42.72	40.54	38.66	35.13	36.56
11	33.42	36.15	37.06	.....	38.80	40.74	41.98	42.78	.....	38.42	35.05	36.56
12	33.58	36.22	37.02	36.84	38.72	40.85	42.19	42.72	.....	38.22	34.94	36.56
13	33.67	36.36	37.09	.....	38.55	40.99	42.32	42.44	40.89	38.04	35.03	36.62
14	33.67	36.46	37.13	.....	38.44	41.12	42.37	42.54	40.96	37.80	35.28	36.61
15	33.75	36.48	37.22	.....	38.69	41.12	42.36	42.66	41.00	37.43	35.29	36.59
16	33.76	36.52	37.29	.....	38.97	41.02	42.20	42.78	40.93	37.41	35.50	36.58
17	33.90	36.61	37.27	.....	39.26	.....	42.38	42.84	40.56	37.46	35.60	36.37
18	34.13	36.62	37.22	.....	39.56	.....	42.48	42.84	40.44	37.50	35.62	36.30
19	34.35	36.76	37.12	37.02	39.75	.....	42.62	42.75	40.36	37.42	35.72	36.30
20	34.50	36.88	37.15	37.08	39.76	.....	42.62	.....	40.35	37.32	35.85	36.26
21	34.55	37.00	37.16	37.07	39.88	41.45	42.52	.....	40.36	37.06	35.94	36.27
22	34.55	37.09	37.22	37.08	40.16	41.62	42.34	.....	40.45	36.80	35.94	36.25
23	34.49	37.03	37.24	37.24	40.30	41.78	42.20	42.23	40.40	.....	35.92	36.14
24	34.64	36.91	37.24	37.50	40.30	41.78	.....	.....	40.02	.....	35.94	35.97
25	34.85	36.84	37.22	37.63	40.28	41.76	.....	.....	39.80	37.02	35.93	35.91
26	35.04	36.96	.....	37.79	40.29	41.93	.....	.....	39.70	36.92	35.84	35.80
27	35.20	37.05	.....	37.85	40.29	42.06	.....	.....	39.70	36.74	35.90	35.81
28	35.27	37.12	.....	37.95	40.04	42.15	.....	.....	39.66	36.58	35.94	35.78
29	35.43	.....	37.33	37.98	39.98	.....	.....	.....	39.42	36.30	36.00	35.74
30	35.58	.....	.....	38.20	39.85	.....	.....	41.64	39.13	36.16	36.07	35.70
31	35.73	.....	.....	.....	39.52	.....	.....	.....	.....	36.05	.....	35.66

Ag-176. Formerly A-21. May Building. 119 Fifth Ave., Pittsburgh. Location no. H3b-4064; lat. 40°26'30", long. 80°00'10". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 8 inches, depth 53 feet. Land-surface datum is 730.5 feet above msl. Highest water level 25.80 below lsd, Dec. 7, 1950; lowest 39.40 below lsd, Aug. 2, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	28.50	Apr. 5	31.88	July 12	37.52	Oct. 11	32.70
11	28.16	12	31.94	19	38.95	18	31.90
18	28.94	19	32.10	Aug. 2	e39.40	25	31.55
25	29.70	26	32.90	9	e38.65	Nov. 1	30.35
Feb. 1	30.90	May 3	34.40	16	e38.00	8	29.70
8	30.99	10	33.80	24	e37.35	15	30.00
15	31.60	17	34.28	30	36.70	21	30.62
21	32.24	24	35.15	Sept. 6	36.08	29	30.70
Mar. 1	32.28	31	33.78	13	35.86	Dec. 6	31.10
8	32.16	June 7	35.40	20	34.92	13	31.28
15	32.36	14	35.98	27	34.45	20	31.00
22	32.24	21	36.70	Oct. 4	34.08	27	30.56
29	32.48	July 5	36.85	.....	.....	.....	.....

e Estimated.

Ag-177. Formerly A-6. Fulton Building. Duquesne Way and Sixth St., Pittsburgh. Location no. H3b-3864; lat. 40°26'40", long. 80°00'10". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 12 inches, depth 67 feet. Land-surface datum is about 733 feet above msl. Highest water level 26.81 below lsd, Dec. 5, 1950; lowest 40.65 below lsd, July 28, 1949. Records available: 1945-51.

Jan. 4	30.51	Mar. 1	34.25	Apr. 26	34.73	June 21	38.80
11	30.45	8	34.15	May 3	37.27	July 5	38.76
18	31.15	15	35.45	10	35.57	12	39.33
25	31.87	22	34.55	17	36.25	19	39.57
Feb. 1	33.01	29	34.75	24	36.65	Aug. 2	40.10
8	32.85	Apr. 5	34.15	31	35.29	9	39.35
15	33.49	12	34.01	June 7	37.29	16	39.81
21	34.35	19	34.27	14	37.47	24	38.03

Ag-177--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 30	38.48	Oct. 4	36.45	Nov. 8	31.61	Dec. 6	32.80
Sept. 6	38.03	11	34.05	15	32.50	13	33.01
13	38.35	18	33.43	21	32.55	20	32.75
20	36.77	25	33.03	29	32.48	27	32.45
27	36.59	Nov. 1	32.13				

Ag-178. Formerly A-8. Pittsburgh Plate Glass Co. 632 Duquesne Way, Pittsburgh. Location no. H3b-3865; lat. 40°26'40", long. 80°00'00". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 3 inches, depth 41 feet. Land-surface datum is about 733 feet above msl. Highest water level 25.77 below lsd, Apr. 16, 1948; lowest 38.30 below lsd, June 29, 1950. Records available: 1946-51.

Jan. 4	28.32	Apr. 5	33.52	July 12	37.32	Oct. 11	33.50
11	28.78	12	33.64	19	37.40	18	32.77
18	29.42	19	33.65	Aug. 2	37.42	25	32.38
25	30.44	26	33.94	9	37.06	Nov. 1	31.50
Feb. 1	31.66	May 3	33.70	16	37.07	8	30.90
8	32.02	10	33.74	24	37.03	15	30.72
15	32.88	17	33.76	30	37.10	21	30.84
21	33.34	24	34.86	Sept. 6	36.17	29	31.00
Mar. 1	33.82	31	34.80	13	35.52	Dec. 6	31.32
8	33.52	June 7	35.66	20	35.33	13	31.52
15	33.78	14	36.06	27	34.87	20	31.63
22	33.90	21	36.62	Oct. 4	33.90	27	31.67
29	34.00	July 5	37.13				

Ag-180. Formerly A-11. Victory Building. Liberty Ave. and Ninth St., Pittsburgh. Location no. H4a-3900; lat. 40°26'30", long. 79°59'50". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 4 inches, depth 61 feet. Land-surface datum is about 736 feet above msl. Highest water level 33.38 below lsd, Dec. 14, 1950; lowest 46.47 below lsd, Aug. 2, 1951. Records available: 1946-51.

Jan. 4	35.24	Apr. 5	41.35	July 12	45.52	Oct. 11	41.28
11	35.32	12	41.05	19	46.27	18	40.10
18	36.50	19	41.22	Aug. 2	46.47	25	39.56
25	37.80	26	41.02	9	45.93	Nov. 1	38.56
Feb. 1	39.14	May 3	41.63	16	45.96	8	37.75
8	39.96	10	41.95	24	45.59	15	37.40
15	40.52	17	42.03	30	44.96	21	37.40
21	40.86	24	43.44	Sept. 6	44.46	29	37.40
Mar. 1	41.20	31	43.15	13	43.78	Dec. 6	37.70
8	41.10	June 7	43.78	20	43.34	13	38.02
15	41.00	14	44.45	27	42.66	20	38.02
22	41.17	21	44.56	Oct. 4	41.76	27	37.79
29	41.25	July 5	45.67				

Ag-181a. Formerly A-18. Federal-Rice Drug Co. 947 Penn Ave., Pittsburgh. Location no. H4a-3801; lat. 40°26'40", long. 79°59'50". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 8 inches, depth 62 feet. Land-surface datum is 732.5 feet above msl. Highest water level 32.45 below lsd, Dec. 12, 1950; lowest 44.60 below lsd, Aug. 2, 1951. Records available: 1949-51.

Jan. 4	34.72	Apr. 5	40.20	July 12	43.96	Oct. 11	39.58
11	34.66	12	40.10	19	44.52	18	38.76
18	35.80	19	40.40	Aug. 2	44.60	25	38.35
25	36.93	26	40.11	9	43.96	Nov. 1	37.47
Feb. 1	38.10	May 3	40.72	16	43.88	8	36.88
8	38.79	10	40.99	24	43.50	15	36.73
15	39.30	17	41.20	30	42.99	21	36.56
21	39.86	24	42.20	Sept. 6	42.38	29	36.60
Mar. 1	39.94	31	41.86	13	42.02	Dec. 6	36.95
8	38.85	June 7	42.65	20	41.62	13	37.18
15	39.90	14	43.09	27	41.10	20	37.00
22	40.18	21	43.06	Oct. 4	40.27	27	36.80
29	40.35	July 5	43.71				

Ag-200. Formerly A-4. Commonwealth Building. 316 Fourth Ave., Pittsburgh. Location no. H3b-4265; lat. 40°26'20", long. 80°00'00". Drilled unused artesian well in shale of Conemaugh formation, diameter 8 inches, depth 99 feet. Land-surface datum is 737.5 feet above msl. Highest water level 35.90 below lsd, Jan. 22, 1948; lowest 58.91 below lsd, Apr. 3, 1946. Records available: 1945-51.

Ag-200--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	49.40	Apr. 5	48.55	July 12	40.60	Oct. 11	47.04
11	48.62	12	48.94	19	41.32	18	48.23
18	42.48	19	49.60	Aug. 2	46.27	25	46.23
25	50.76	26	48.13	9	42.67	Nov. 1	47.90
Feb. 1	50.22	May 3	46.40	16	41.28	8	47.36
8	49.57	10	49.80	24	47.83	15	49.40
15	50.70	17	46.45	30	42.75	21	45.98
21	50.16	24	48.03	Sept. 6	46.14	29	49.39
Mar. 1	46.77	31	44.92	13	45.15	Dec. 6	49.54
8	47.50	June 7	48.08	20	48.70	13	49.16
15	50.62	14	45.15	27	48.96	20	46.90
22	47.82	21	41.18	Oct. 4	50.04	27	46.70
29	52.57	July 5	46.72				

Ag-201. Formerly A-5. Keystone Building. 324 Fourth Ave., Pittsburgh. Location no. H3b-4265; lat. 40°26'20", long. 80°00'00". Drilled unused artesian well in shale of Conemaugh formation, diameter 8 inches, depth 77 feet. Land-surface datum is 737.5 feet above msl. Highest water level 34.40 below lsd, Jan. 22, 1948; lowest 53.93 below lsd, Apr. 3, 1946. Records available: 1945-51.

Jan. 4	45.56	Apr. 5	44.50	July 12	39.15	Oct. 11	43.42
11	44.56	12	44.06	19	39.92	18	43.95
18	39.82	19	45.36	Aug. 2	44.95	25	42.44
25	45.95	26	43.22	9	41.40	Nov. 1	44.24
Feb. 1	45.38	May 3	41.44	16	39.88	8	43.00
8	46.54	10	46.00	24	44.38	15	44.08
15	46.74	17	42.57	30	40.51	21	42.45
21	44.84	24	42.95	Sept. 6	42.96	29	44.58
Mar. 1	43.08	31	41.58	13	42.52	Dec. 6	44.58
8	43.26	June 7	43.93	20	45.78	13	45.32
15	46.12	14	41.12	27	44.68	20	42.20
22	42.96	21	39.52	Oct. 4	45.20	27	44.30
29	47.28	July 5	42.22				

Armstrong County

Ar-2. Formerly 134. Martin J. Cordera. Schenley. Location no. G5a-4744; 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 28.13 below lsd, Mar. 29, 1950; lowest 40.24 below lsd, Aug. 30, 1950. Records available: 1949-51.

Jan. 3	37.00	Apr. 4	32.02	July 4	36.50	Oct. 3	39.71
10	35.02	11	35.87	11	37.99	10	39.60
17	33.90	18	36.00	18	38.65	17	39.69
24	33.50	25	35.05	25	37.96	24	39.68
31	36.65	May 2	35.05	Aug. 1	39.40	31	39.55
Feb. 7	34.58	9	37.90	8	39.43	Nov. 7	39.17
14	32.02	16	37.59	15	39.51	14	39.21
21	30.13	23	38.26	22	39.53	21	38.60
28	34.00	30	37.90	29	39.55	28	38.00
Mar. 7	32.05	June 6	37.63	Sept. 5	39.80	Dec. 5	37.66
14	36.45	13	34.90	12	39.80	12	37.90
21	37.00	20	37.05	19	39.34	19	38.50
28	36.89	27	38.13	26	39.67	26	37.67

Beaver County

Bv-55. Mrs. F. E. Duff. Pennsylvania route 51, Darlington. Location no. F2c-4540; lat. 40°48'30", long. 80°25'20". Drilled unused water-table well in sand and gravel of Pleistocene age, diameter 6 inches, depth 45 feet. Land-surface datum is about 915 feet above msl. Recording gage installed May 5, 1949. Highest water level 13.48 below lsd, Apr. 3, 1951; lowest 18.57 below lsd, Nov. 26, 28, 1949. Records available: 1949-51.

Daily lowest water level from recorder graph, 1949

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.03	16.87	.....	17.60	18.14	18.45	18.55
2	16.06	16.90	16.63	.....	18.15	18.45	18.55
3	h15.46	16.11	16.93	16.67	17.61	18.17	18.46	18.56
4	16.13	.....	.....	17.63	18.18	18.46	18.54
5	15.54	16.16	17.01	16.74	17.66	18.19	18.47	18.55

Bv-55--Continued.

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	15.57	.....	17.05	16.78	17.68	18.20	18.47	18.56
7	15.60	.....	16.83	16.81	17.71	18.22	18.48	18.56
8	15.62	.....	16.79	16.85	17.73	18.24	18.48	18.56
9	15.66	16.34	16.79	16.88	.....	18.24	18.49	18.56
10	15.71	16.36	.....	.....	.....	18.25	18.49	18.56
11	h15.05	15.76	16.40	16.36	.....	.....	18.25	18.51	18.53
12	16.41	16.28	.....	17.82	18.27	18.51	18.48
13	16.44	16.25	.....	.....	18.28	18.51	18.39
14	16.46	16.25	.....	.....	18.30	18.51	18.34
15	16.49	16.26	.....	.....	18.31	18.52	18.31
16	16.53	16.28	.....	.....	.....	18.52	18.31
17	16.02	16.57	16.30	.....	.....	.....	18.52	18.33
18	16.06	16.60	.....	17.17	17.95	.....	.....	18.30
19	16.09	16.64	.....	17.19	17.97	.....	18.53	18.28
20	h15.26	16.06	16.67	16.35	.....	18.00	18.35	18.54	18.24
21	16.06	16.67	16.36	17.26	18.02	18.36	18.54	18.23
22	16.02	16.68	16.38	17.30	.....	18.36	18.55	18.20
23	15.90	16.70	16.42	17.33	.....	.....	18.55	18.20
24	15.85	16.73	16.43	17.37	18.06	.....	18.55	18.20
25	h15.32	15.85	16.72	16.44	17.41	18.07	.....	18.56	18.20
26	15.86	16.73	16.49	.....	18.10	18.41	18.57	18.20
27	15.90	16.75	16.55	17.48	18.11	18.41	18.56	18.18
28	h15.35	.....	16.77	16.60	17.49	18.12	.....	18.57	18.16
29	16.81	16.63	17.53	.....	.....	18.55	18.14
30	16.84	16.59	17.56	18.14	.....	18.53	18.14
31	15.99	.....	.....	17.58	.....	18.45	.....	18.14

h Tape measurement.

* No record for January, February, and March.

Daily lowest water level from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.13	15.36	.....	13.74	14.26	15.54	16.58	17.37	17.94	17.61	17.98	16.81
2	18.13	15.32	.....	13.79	14.28	15.60	16.62	17.40	17.88	17.64	17.99	16.76
3	18.07	15.36	.....	13.81	.....	15.63	16.64	17.43	17.83	17.68	17.99	16.54
4	18.00	15.35	.....	13.77	.....	.....	16.65	17.46	17.81	17.69	17.88	15.81
5	17.88	15.36	.....	13.71	14.40	.....	16.68	17.49	17.83	17.72	17.66	15.64
6	17.63	15.34	.....	.....	14.46	.....	16.61	17.52	17.85	17.75	17.59	15.44
7	17.25	15.38	.....	.....	14.51	15.78	16.61	17.55	17.87	17.77	17.55	15.21
8	17.08	15.43	14.35	.....	14.58	15.82	16.66	17.59	17.90	17.78	17.52	14.76
9	16.94	15.33	14.42	.....	14.60	15.85	16.69	17.62	17.93	17.79	17.49	14.55
10	16.76	15.28	14.50	.....	14.62	15.89	16.72	17.65	17.90	17.77	17.46	14.38
11	16.43	15.28	14.50	13.81	14.66	15.91	16.75	17.67	17.91	17.79	17.44	14.27
12	16.30	15.28	14.51	13.86	14.69	15.96	16.78	17.70	17.76	17.78	17.42	14.23
13	16.14	15.24	14.48	13.92	14.72	15.99	16.80	17.71	17.61	17.79	17.41	14.22
14	16.00	14.98	14.53	13.99	14.75	16.03	16.83	17.76	17.52	17.79	17.41	14.24
15	15.90	14.58	14.54	14.03	14.80	16.09	16.86	17.76	17.42	17.77	17.42	14.24
16	15.78	14.49	14.54	14.08	14.86	16.11	16.88	17.80	17.38	17.77	17.40	14.31
17	15.66	14.38	14.56	14.11	14.89	16.17	16.92	17.82	17.36	17.77	17.40	14.35
18	15.58	14.29	14.60	14.18	14.93	16.21	16.95	17.84	17.35	17.78	17.39	14.41
19	15.56	14.22	14.63	14.24	14.98	16.24	16.98	17.74	17.35	17.80	17.38	14.46
20	15.55	14.22	14.64	14.27	15.05	16.30	17.01	17.68	17.37	17.82	17.28	14.51
21	15.52	14.18	14.62	14.34	15.10	16.33	17.05	17.68	17.37	17.83	17.19	14.59
22	15.49	14.08	14.56	14.41	15.16	16.38	17.09	17.70	17.37	17.83	17.12	14.62
23	15.49	13.98	14.40	14.41	15.16	16.41	17.11	17.73	17.37	17.85	17.08	14.68
24	15.49	13.98	14.30	14.42	15.18	16.44	17.14	17.77	17.40	17.87	17.06	14.70
25	15.45	14.01	14.25	14.42	15.22	16.42	17.17	17.79	17.42	17.90	16.99	14.75
26	15.45	14.02	14.16	14.28	15.26	16.39	17.20	17.82	17.46	17.91	16.96	14.78
27	15.43	14.08	13.93	14.23	15.30	16.42	17.23	17.83	17.49	17.92	16.94	14.87
28	15.40	14.05	13.85	14.27	15.35	16.46	17.26	17.86	17.55	17.93	16.91	14.93
29	15.38	.....	13.85	14.28	15.39	16.50	17.30	17.89	17.57	17.94	16.86	14.97
30	15.42	.....	13.83	14.25	15.42	16.54	17.32	17.91	17.59	17.96	16.83	15.02
31	15.36	.....	13.80	.....	15.48	.....	17.36	17.93	.....	17.97	.....	15.10

Bv-55--Continued.

Daily lowest water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.07	14.44	13.73	13.50	14.14	15.48	16.52	16.95	17.84	18.16	18.38	17.72
2	15.10	14.50	13.76	13.50	14.16	15.53	16.54	16.97	17.86	18.18	18.38	17.72
3	15.10	14.53	13.76	13.48	14.18	15.57	16.55	17.00	17.88	18.19	18.38	17.72
4	14.92	14.56	13.72	13.51	14.22	15.63	16.56	17.02	17.91	18.21	18.37	17.72
5	14.74	14.64	13.58	13.56	14.29	15.68	16.50	17.05	17.92	18.22	18.39	17.70
6	14.71	14.65	13.56	13.58	14.34	15.70	16.46	17.10	17.93	18.23	18.39	17.69
7	14.69	14.63	13.52	13.58	14.41	15.74	16.48	17.10	17.96	.....	18.38	17.68
8	14.70	14.68	13.51	13.62	14.46	15.79	16.50	17.14	17.98	.....	18.28	17.68
9	14.70	14.72	13.58	13.63	14.52	15.82	16.56	17.17	17.99	.....	18.26	17.61
10	14.72	14.76	13.61	13.68	14.56	15.84	16.60	17.20	18.02	.....	18.24	17.54
11	14.71	14.76	13.62	13.72	14.58	15.88	16.63	17.23	18.03	.....	18.24	17.50
12	14.73	14.73	13.64	13.72	14.64	15.93	16.67	17.26	18.05	.....	18.24	17.47
13	14.76	14.44	13.66	13.70	14.72	15.98	16.69	17.31	18.06	18.30	18.24	17.46
14	14.74	14.25	13.63	13.72	14.77	15.98	16.72	17.34	18.06	18.30	18.24	17.46
15	14.60	14.24	13.65	13.75	14.82	16.00	16.74	17.35	17.96	18.31	18.24	17.46
16	14.42	14.19	13.68	13.80	14.85	16.04	16.80	17.40	17.96	18.32	18.23	17.46
17	14.39	14.13	13.71	13.84	14.91	16.08	16.83	17.43	17.97	18.33	18.21	.....
18	14.32	14.08	13.71	13.86	14.97	16.13	16.86	17.45	18.01	18.34	18.19	.....
19	14.24	14.04	13.71	13.92	15.02	16.16	16.89	17.48	18.04	18.36	18.18	.....
20	14.17	13.95	13.63	13.98	15.06	16.22	16.93	17.51	18.07	18.36	18.19	.....
21	14.15	13.87	13.55	14.01	15.14	16.27	16.95	17.54	18.08	18.36	18.19	.....
22	14.14	13.78	13.53	14.01	15.17	16.30	16.98	17.56	18.08	18.37	18.20	.....
23	14.12	13.73	13.50	13.98	15.17	16.33	16.94	17.60	.....	18.38	18.19	.....
24	14.10	13.69	13.52	13.96	15.17	16.36	16.80	17.63	.....	18.38	18.09	17.16
25	14.12	13.65	13.55	13.97	15.21	16.39	16.79	17.65	.....	18.39	17.98	17.12
26	14.17	13.62	13.60	14.03	15.24	16.42	16.82	17.67	.....	18.39	17.90	17.02
27	14.22	13.67	13.61	14.04	15.27	16.45	16.86	17.70	.....	18.39	17.84	16.92
28	14.27	13.71	13.63	14.04	15.30	16.48	16.86	17.74	.....	18.38	17.78	16.86
29	14.36		13.63	14.05	15.34	16.50	16.85	17.76	18.15	18.36	17.76	16.81
30	14.42		13.60	14.10	15.39	16.52	16.88	17.79	18.15	18.37	17.74	16.79
31	14.44		13.53		15.44		16.91	17.82		18.37		16.66

Bedford County

Bd-3. Formerly 116. W. M. Hoffman. Norris and Liberty Sts., Saxton. Location no. J10b-2363; 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 44.38 below lsd, Apr. 16, 1948; lowest 53.99 below lsd, Feb. 13, 1948. Records available: 1941-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	51.02	Apr. 13	49.96	July 6	51.54	Oct. 6	52.94
12	50.92	20	49.94	13	51.45	12	53.04
19	49.95	27	50.61	20	51.58	19	53.07
26	50.16	May 4	50.55	27	51.61	26	53.14
Feb. 2	49.86	11	50.93	Aug. 3	51.76	Nov. 2	53.15
9	49.19	18	51.06	10	51.79	9	53.18
16	50.07	25	51.16	17	51.93	16	53.26
23	46.50	June 1	51.36	24	52.12	23	53.27
Mar. 2	48.09	8	51.96	31	52.26	30	53.25
9	49.16	11	51.18	Sept. 7	52.44	Dec. 7	53.19
16	49.38	15	50.46	14	52.61	14	53.14
23	49.56	22	50.98	21	52.76	21	53.17
30	51.37	30	51.18	28	52.79	28	53.02
Apr. 6	48.56	July 6					

Berks County

Be-2. Formerly 128. Howard Dubois. Near Berne. Location no. G20c-6206; lat. 40°32'00", long. 75°59'10". Dug unused water-table well in Martinsburg shale, diameter 4 feet, depth 11 feet. Land-surface datum is 355.84 feet above msl. Highest water level 5.34 below lsd, Feb. 15, 1950; lowest 9.41 below lsd, Aug. 25, 1949. Records available: 1948-51.

Jan. 5	7.76	Jan. 26	6.00	Feb. 23	6.93	Mar. 16	7.79
12	5.68	Feb. 9	6.87	Mar. 2	8.27	22	7.60
19	7.65	16	8.34	9	8.33	Apr. 6	5.39

Be-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 13	6.64	July 20	8.60	Sept. 28	9.00	Nov. 2	7.86
20	6.80	Aug. 17	8.32	Oct. 15	8.74	14	7.81
May 18	8.66	31	8.70	26	8.84	Dec. 4	8.07
July 13	8.75						

Be-3. Formerly F4a. Commonwealth of Pennsylvania. French Creek State Park. Near Elverson. Location no. J20b-3547; 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. Paul H. Walker, voluntary observer. Highest water level 22.43 below lsd, June 22, 1948; lowest 38.88 below lsd, Dec. 30, 1949. Records available: 1948-51.

Jan. 5	34.75	Apr. 6	27.20	July 6	29.66	Oct. 5	34.30
12	34.49	13	26.70	13	29.89	12	34.30
19	33.92	20	26.53	20	30.14	19	35.08
26	33.38	27	26.33	27	30.35	26	35.41
Feb. 2	33.11	May 4	26.03	Aug. 3	30.56	Nov. 2	35.71
9	32.54	11	26.22	10	31.02	9	35.78
16	31.91	18	26.88	17	31.35	16	35.69
23	31.01	25	27.27	24	31.35	23	35.89
Mar. 2	30.26	June 1	27.99	31	32.18	30	35.06
9	29.45	7	28.40	Sept. 7	32.60	Dec. 14	36.05
16	28.82	15	28.77	14	33.05	21	35.81
23	28.09	22	29.23	21	33.53	28	35.53
30	27.60	29	29.61	28	33.95		

Be-4. Formerly F4b. Commonwealth of Pennsylvania. French Creek State Park. Near Elverson. Location no. J20b-4426; 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 694.30 feet above msl. Paul H. Walker, voluntary observer. Highest water level 5.40 below lsd, Jan. 28, 1949; lowest dry, Aug. 12, 1949. Records available: 1948-51.

Jan. 5	10.68	Apr. 6	8.03	July 6	10.27	Oct. 5	16.05
12	11.55	13	6.20	13	11.90	12	16.30
19	9.29	20	8.72	20	12.64	19	16.45
26	8.16	27	9.96	27	13.11	26	16.62
Feb. 2	7.52	May 4	10.88	Aug. 3	13.49	Nov. 2	16.53
9	7.37	11	11.60	10	13.96	9	12.98
16	8.31	18	12.21	17	14.32	16	13.51
23	6.63	25	12.46	24	14.70	23	13.91
Mar. 2	9.09	June 1	12.85	31	14.90	30	13.65
9	9.06	7	12.35	Sept. 7	15.18	Dec. 7	10.42
16	9.23	15	10.59	14	15.42	14	12.63
23	7.68	22	12.15	21	15.65	21	8.64
30	8.44	29	12.07	28	15.85	28	8.66

Be-5. Formerly 133. Joseph A. Witman. State Route 100, Bally. Location no. H21b-6720; lat. 40°24'00", long. 75°35'10". Dug unused water-table well in Hardyston quartzite, diameter 36 inches, depth 18 feet. Land-surface datum is about 470 feet above msl. Highest water level 9.10 below lsd, Apr. 2, 1951. Records available: 1949-51.

Jan. 3	12.76	Mar. 26	10.44	May 28	12.28	Aug. 6	14.25
15	12.03	Apr. 2	9.10	June 4	12.58	13	14.60
22	11.78	8	9.50	11	12.78	Nov. 5	14.25
29	11.20	16	9.90	21	13.25	12	13.25
Feb. 12	10.62	23	9.68	25	13.20	19	13.54
26	9.88	30	10.24	July 16	13.35	26	13.73
Mar. 5	11.48	May 7	10.62	23	13.67	Dec. 10	14.45
12	12.24	14	11.40	29	13.96	17	14.02
19	12.43	21	11.95				

Bradford County

Br-1. Formerly 81 or W6-70. Mrs. Charlotte Payne. Monroeton. Location no. C18a-2806; lat. 41°42'20", long. 76°29'10". Dug unused water-table well in alluvium of Recent age, diameter 36 inches, depth 6 feet, cased with stone. Land-surface datum is about 780 feet above msl. Highest water level 1.27 below lsd, Mar. 31, 1951; lowest dry several times in 1932, 1936, 1939, 1941-43. Records available: 1931-44, 1946-51.

Jan. 5	1.30	Jan. 26	1.55	Feb. 15	1.85	Mar. 9	1.48
12	1.49	Feb. 2	1.60	23	1.48	17	1.31
19	1.50	9	1.98	Mar. 2	1.60	27	1.85

Br-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 31	1.27	May 25	3.42	July 14	3.78	Sept. 22	5.89
Apr. 7	1.78	June 1	3.44	21	4.55	29	6.10
14	1.83	8	3.45	28	4.60	Oct. 5	6.14
20	2.01	14	3.09	Aug. 11	5.80	12	6.14
27	2.15	15	2.73	31	5.25	20	6.16
May 4	2.35	23	2.70	Sept. 8	5.50	26	6.11
12	2.47	July 7	3.92	15	5.78	Nov. 3	5.74
18	3.09						

Br-2. Formerly 82 or W6-52. C. Holon. East Towanda. Location no. B18c-7333; lat. 41°46'00", long. 76°26'00". Dug unused water-table well in shale of Chemung formation and/or in deposit 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: 1931-51.

Jan. 6	30.65	Apr. 1	25.88	July 1	45.98	Oct. 14	53.76
11	30.88	8	27.65	8	46.52	17	53.98
13	31.36	15	25.67	15	47.10	22	54.36
20	29.47	22	30.72	22	47.65	28	54.77
28	29.99	26	32.33	29	48.18	Nov. 4	55.28
Feb. 3	30.72	29	33.26	Aug. 5	48.68	11	55.72
10	30.86	May 6	36.50	12	49.15	18	56.15
15	32.07	13	38.74	19	49.58	25	56.78
18	31.76	20	40.61	26	50.02	29	57.02
25	29.23	27	41.83	Sept. 2	50.47	Dec. 2	57.19
Mar. 4	28.78	June 3	42.96	10	51.15	9	57.58
10	27.28	7	43.51	16	51.61	17	57.93
17	27.19	10	43.92	23	52.16	23	57.98
24	25.77	17	44.71	30	52.70	31	55.98
27	27.01	24	45.43	Oct. 7	53.19		

Butler County

Bt-1. Formerly 120. Ralph W. Wick. West Sunbury. Location no. E4c-8154; lat. 41°00'20", long. 79°53'40". Dug unused water-table well in shale of Conemaugh formation, diameter 4 inches, depth 18 feet, cased with stone. Land-surface datum is about 1,400 feet above msl. Highest water level 6.84 below lsd, Mar. 14, 1942; lowest 11.22 below lsd, Oct. 5, 1946. Records available: 1941-51.

Jan. 6	7.98	Apr. 7	8.20	July 7	8.77	Oct. 13	10.40
13	8.20	14	7.60	14	9.00	20	10.50
20	7.30	21	8.60	21	8.20	27	10.60
27	8.10	28	8.17	28	8.70	Nov. 3	10.97
Feb. 3	7.90	May 6	8.50	Aug. 4	9.00	10	10.60
10	8.20	12	8.90	11	9.20	24	9.20
17	8.60	19	9.00	18	9.60	Dec. 1	8.60
24	7.90	26	9.10	25	9.70	8	8.40
Mar. 3	7.00	June 2	9.10	Sept. 1	10.00	15	8.30
10	7.10	5	9.16	8	10.91	22	8.70
17	8.70	9	9.30	15	10.91	26	7.80
24	8.10	16	8.61	22	10.91	29	8.00
31	7.40	30	9.00	Oct. 6	10.30		

Centre County

Ce-2. Formerly 124. G. C. Benner. Milesburg. Location no. F12b-4047; lat. 40°56'20", long. 77°47'00". Dug unused water-table well in Helderberg limestone, diameter 4 feet, depth 22 feet. Land-surface datum is about 698 feet above msl. Highest water level 1.98 below lsd, Apr. 17, 1948; lowest 19.52 below lsd, Oct. 22, 1951. Records available: 1946-51.

Jan. 1	8.67	Mar. 12	4.56	May 21	13.41	July 23	10.41
8	8.00	19	5.57	27	14.38	30	13.98
15	7.71	26	6.00	June 4	14.02	Aug. 6	15.02
22	5.40	Apr. 2	3.40	11	12.32	13	13.54
31	4.98	9	4.14	12	10.62	20	15.16
Feb. 5	6.80	16	4.98	18	4.99	27	16.63
12	3.60	23	7.12	25	9.86	Sept. 3	17.22
19	4.86	30	8.23	July 2	12.54	10	16.50
26	5.95	May 7	10.40	9	10.11	17	17.74
Mar. 5	3.81	14	12.41	13	11.70	24	18.35

Ce-2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 1	18.72	Oct. 29	18.08	Nov. 25	17.82	Dec. 17	15.88
9	18.48	Nov. 12	17.85	Dec. 3	18.16	24	13.96
15	18.90	18	17.88	10	17.72	31	13.10
22	19.52						

Chester County

Ch-2. Lewis R. Shingle. Near Honeybrook. Location no. J20d-0709; lat. 40°06'50", long. 75°51'20". Dug unused water-table well in granodiorite or quartz monzonite of pre-Cambrian age, diameter 36 inches, depth 15 feet, cased with stone. Land-surface datum is about 640 feet above msl. Lewis R. Shingle, voluntary observer. Highest water level 9.24 below lsd, Dec. 26, 1951; lowest 13.28 below lsd, Oct. 30, 1951. Records available: 1951.

Sept. 25	12.57	Oct. 23	13.18	Nov. 20	11.48	Dec. 11	10.64
Oct. 2	12.77	30	13.28	27	11.35	18	10.83
9	12.93	Nov. 6	12.73	Dec. 4	11.33	26	9.24
16	13.03	13	11.44				

Ch-3. Fred M. Anderson. U. S. route 322, near Brandywine Manor. Location no. J20d-4839; lat. 40°03'20", long. 75°48'00". Dug unused water-table well in granodiorite of pre-Cambrian age, 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 27.98 below lsd, Dec. 10, 1951. Records available: 1951.

Aug. 29	28.07	Oct. 1	29.06	Oct. 29	29.90	Nov. 26	28.98
Sept. 10	28.07	8	29.10	Nov. 12	29.99	Dec. 3	28.46
17	28.65	15	29.40	19	29.93	10	27.98
24	28.84	22	29.60				

Ch-4. G. Richland Rebmann, Jr. Near Ludwigs Corner. Location no. J21c-0838; lat. 40°06'40", long. 75°40'30". Dug unused water-table well in quartz monzonite of pre-Cambrian age, diameter 4 feet, depth 30 feet, cased with stone. Highest water level 23.08 below lsd, Apr. 26, 1951; lowest 28.83 below lsd, Oct. 23, 1951. Records available: 1951.

Apr. 26	23.08	Sept. 4	27.66	Oct. 2	28.38	Nov. 27	26.94
Aug. 14	26.86	11	27.96	9	28.55	Dec. 7	26.65
21	27.10	18	27.90	16	28.66	11	26.50
28	27.35	25	28.20	23	28.83	17	25.53

Ch-5. Richard Cadbury. Near Glenmore. Location no. J21c-2001; lat. 40°05'40", long. 75°44'50". Dug unused water-table well in quartz monzonite of pre-Cambrian age, diameter 30 inches, depth 12 feet, cased with stone. Land-surface datum is about 560 feet above msl. Richard Cadbury, voluntary observer. Highest water level 2.73 below lsd, Dec. 29, 1951; lowest 9.47 below lsd, Nov. 3, 1951. Records available: 1951.

Oct. 23	9.10	Nov. 10	8.59	Dec. 1	8.03	Dec. 22	3.73
27	9.32	17	8.35	8	7.45	29	2.73
Nov. 3	9.47	24	8.20	15	6.94		

Ch-6. John J. Englerth. 700 E. Lancaster Ave. Downingtown. Location no. J21c-7630; lat. 40°00'40", long. 75°41'30". Dug unused water-table well in Ledger dolomite, diameter 4½ feet, depth 20 feet, cased with stone. Land-surface datum is about 270 feet above msl. John J. Englerth, voluntary observer. Highest water level 14.32 below lsd, Dec. 30, 1951; lowest 18.55 below lsd, Sept. 10, 1951. Records available: 1951.

Aug. 20	18.24	Sept. 17	18.36	Nov. 4	17.36	Dec. 3	16.80
27	18.32	26	18.54	11	16.40	11	16.27
Sept. 3	18.41	Oct. 17	18.52	20	16.66	30	14.32
10	18.55	22	18.53				

Ch-7. D. L. Gibbs. Near Cochranville. Location no. K20a-7146; 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 34.67 below lsd, Dec. 7, 1951; lowest 36.89 below lsd, Oct. 23, 1951. Records available: 1951. Sept. 26, 36.33; Oct. 23, 36.89; Dec. 7, 34.67.

Ch-8. John Robinson. Near Sadsburyville. Location no. K20b-1001; 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. John Robinson, voluntary observer. Highest water level 10.50 below lsd, Nov. 5, 1951; lowest 17.49 below lsd, Oct. 23, 1951. Records available: 1951.

Ch-8--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 23	17.49	Nov. 11	14.70	Dec. 3	14.68	Dec. 24	12.37
29	17.44	19	14.80	10	13.77	31	12.63
Nov. 5	10.50	25	14.75	18	13.70		

Ch-9. C. Raymond Young. Near Coatesville. Location no. K20b-3329; 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. Mr. C. Raymond Young, voluntary observer. Highest water level 14.00 below lsd, Nov. 1, 1951; Records available: 1951.

Aug. 21	19.04	Oct. 13	20.97	Nov. 1	14.00	Nov. 24	17.50
Sept. 26	20.06	22	20.82	13	18.75	Dec. 6	17.40

Ch-10. Robert J. Kleberg, Jr. Doe Run. Location no. K20b-5932; lat. 39°54'50", 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. Burnett Wilson, voluntary observer. Highest water level 12.24 below lsd, Dec. 28, 1951; lowest 16.10 below lsd, Oct. 12, 19, 26, 1951. Records available: 1951.

Aug. 24	15.37	Sept. 28	15.97	Nov. 2	15.35	Dec. 7	13.60
31	15.58	Oct. 5	16.00	9	15.00	17	13.75
Sept. 7	15.65	12	16.10	16	14.30	21	12.57
14	15.75	19	16.10	23	14.55	28	12.24
21	15.85	26	16.10	30	14.20		

Ch-11. J. E. Ryan. Near Doe Run. Location no. K20b-7632; 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. Sam Reyner, voluntary observer. Highest water level 12.24 below lsd, Dec. 31, 1951; lowest 13.85 below lsd, Oct. 29, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 31, 1950	13.20	Sept. 4, 1951	13.34	Oct. 15, 1951	13.78	Nov. 26, 1951	13.10
July 9, 1951	12.64	10	13.40	23	13.50	Dec. 3	13.10
16	12.76	17	13.50	29	13.85	10	12.86
23	12.78	24	13.60	Nov. 5	13.46	19	12.82
Aug. 21	13.18	Oct. 1	13.80	12	13.15	21	12.38
27	13.18	8	13.78	19	13.10	31	12.24

Ch-12. Thomas P. Harney. Near West Chester. Location no. K21a-3149; 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. Thomas P. Harney, voluntary observer. Highest water level 37.10 below lsd, July 10, 1951; lowest dry, Dec. 7, 1951. Records available: 1951. July 10, 37.10; Sept. 26, 38.77; Oct. 4, 38.77; Oct. 11, 38.88; Oct. 18, 39.13; Dec. 7, dry.

Ch-13. Everett S. Barr. Near Embreeville. Location no. K21a-3512; 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 14.46 below lsd, Apr. 23, 1951; lowest 17.20 below lsd, Sept. 26, 1951. Records available: 1951. Apr. 23, 14.46; Aug. 21, 16.13; Sept. 26, 17.20; Dec. 7, 14.92.

Ch-14. John T. Crossland. Near Hamorton. Location no. K21a-7841; 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. Mr. John T. Crossland, voluntary observer. Highest water level 20.49 below lsd, June 5, 1951; lowest 23.90 below lsd, Nov. 13, 1951. Records available: 1950-51.

Aug. 22, 1950	22.42	Aug. 21, 1951	22.19	Oct. 8, 1951	23.17	Nov. 19, 1951	22.90
June 5, 1951	20.49	Sept. 3	22.50	15	23.25	26	22.82
12	20.70	10	22.59	24	23.46	Dec. 3	22.70
19	20.72	18	20.99	29	23.50	10	22.59
July 5	21.20	24	21.97	Nov. 5	23.40	17	22.45
14	21.50	Oct. 1	22.82	13	23.90	25	21.86
18	21.60						

Ch-15. W. C. Appleton. Near Chadds Ford. Location no. K21b-7407; 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. Miss Appleton, voluntary observer. Highest water level 23.95 below lsd, Aug. 11, 1950; lowest 27.08 below lsd, Sept. 26, 1951. Records available: 1950-51. Aug. 11, 1950, 23.95; July 31, 1951, 25.50; Sept. 26, 1951, 27.08; Dec. 7, 1951, 25.68.

Clarion County

Cr-1. Formerly 103. John G. Meisinger. 614 Wood St., Clarion. Location no. E6a-2560; 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. H. F. Brooks, voluntary observer. Highest water level 11.36 below lsd, Apr. 9, 1938; lowest 20.76 below lsd, Sept. 23, 1944. Records available: 1932-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	13.46	Apr. 14	11.73	July 14	17.22	Oct. 13	19.68
13	13.30	21	13.17	18	17.56	20	20.01
20	11.77	25	12.01	21	17.84	27	20.08
27	12.60	28	12.71	27	18.42	Nov. 3	19.93
Feb. 3	12.00	May 5	12.96	Aug. 4	16.96	10	18.05
10	13.54	12	13.34	11	18.21	13	17.35
17	12.20	19	15.70	18	18.77	17	16.03
24	11.91	26	15.58	25	19.32	24	15.17
Mar. 3	12.39	June 2	14.95	28	19.41	Dec. 1	13.80
10	12.05	5	15.00	Sept. 1	19.46	8	14.81
11	12.34	9	15.40	8	19.48	15	13.41
17	13.64	16	12.40	15	18.78	19	14.56
24	12.98	23	15.31	22	18.78	22	12.59
31	14.01	30	16.73	29	19.19	29	13.80
Apr. 7	12.60	July 7	15.43	Oct. 6	19.72		

Cr-3. Formerly F14. Commonwealth of Pennsylvania. Cook Forest Park, near Cooksburg. Location no. D7c-2511; 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. Paul R. Beattie, voluntary observer. Highest water level 45.5 below lsd, Mar. 16, May 5, 1951; lowest 90.0 below lsd, Nov. 9, 1951. Records available: 1950-51.

Jan. 7	58.4	Apr. 7	46.0	June 30	48.8	Sept. 29	75.0
12	56.6	14	46.5	July 7	49.6	Oct. 6	76.0
19	52.2	21	48.4	15	50.3	13	81.2
26	53.4	28	46.2	20	51.0	20	85.0
Feb. 2	47.7	May 5	45.5	27	53.1	27	86.0
9	48.7	12	46.2	Aug. 4	56.4	Nov. 3	89.0
16	48.4	19	47.3	10	58.4	9	90.0
23	46.8	26	49.4	18	59.6	16	87.0
Mar. 2	45.7	June 2	49.0	24	63.7	24	83.1
9	47.6	5	47.3	31	66.2	Dec. 1	86.0
16	45.5	9	48.4	Sept. 8	70.4	14	88.0
23	46.2	15	48.6	15	69.0	22	87.0
31	46.6	22	47.8	22	67.2	29	87.0

Clearfield County

Cf-4. Formerly 123. Jared I. McNaul. Curwensville. Location no. F9b-2051; 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 17.67 below lsd, Mar. 5, 1951; lowest 21.40 below lsd, Aug. 31, 1946. Records available: 1946-51.

Jan. 1	19.54	Mar. 19	19.35	June 4	19.17	Aug. 13	20.38
8	18.48	26	19.41	6	20.19	20	20.42
15	18.69	Apr. 2	18.24	11	20.22	27	20.49
22	17.92	9	19.06	18	19.97	Sept. 3	20.55
29	18.94	16	19.07	26	19.14	10	20.57
Feb. 5	18.91	23	19.52	July 2	19.18	17	20.59
12	18.38	30	18.92	9	20.00	24	20.64
19	18.51	May 7	19.54	16	20.19	Oct. 1	20.65
26	18.97	14	19.92	23	20.28	8	20.72
Mar. 5	17.67	21	20.00	30	20.23	15	20.79
11	18.54	28	19.03	Aug. 6	20.32	22	20.96

Cf-4--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 29	20.92	Nov. 19	20.75	Dec. 10	20.11	Dec. 24	20.14
Nov. 5	20.84	26	20.63	17	20.20	31	20.06
12	20.80	Dec. 3	20.46				

Cf-5. Formerly F15. Commonwealth of Pennsylvania. Moshannon State Forest, near Penfield. Location no. E9b-3659; lat. 41°11'50", long. 78°30'30". Drilled unused water-table well in sandstone of Pottsville formation, diameter 6 inches, depth 148 feet. Land-surface datum is about 1,610 feet above msl. Highest water level 11.45 below lsd, May 11, 1951; lowest 14.91 below lsd, Aug. 18, 1950. Records available: 1950-51. Measurement discontinued.

Jan. 5	12.99	Feb. 9	12.37	Mar. 9	11.51	Apr. 27	11.48
12	12.90	15	12.59	16	11.50	May 4	11.47
26	12.79	23	11.99	Apr. 6	11.53	11	11.45
Feb. 2	12.35	Mar. 2	11.50	13	11.51		

Clinton County

Cn-1. Formerly F12. Commonwealth of Pennsylvania. Sproul State Forest, Renovo. Location no. E12b-0653; 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. Clarence F. Billotte, voluntary observer. Highest water level 44.2 below lsd, Jan. 13, 1951; lowest 52.7 below lsd, Dec. 1, 1951. Records available: 1950-51.

Jan. 6	44.9	Apr. 14	44.8	July 7	47.2	Oct. 6	49.0
13	44.2	21	44.8	14	47.2	13	49.0
20	46.3	28	44.8	21	47.8	20	50.1
27	46.2	May 5	44.8	28	47.8	27	50.2
Feb. 3	46.1	12	44.8	Aug. 4	47.8	Nov. 3	50.0
10	46.3	19	44.8	11	47.8	10	50.1
17	46.1	26	44.8	18	47.8	17	49.8
24	46.0	June 2	46.4	25	48.8	24	51.9
Mar. 3	46.0	9	47.5	Sept. 1	48.9	Dec. 1	52.7
10	45.0	13	47.6	8	49.0	8	52.1
17	44.9	16	47.2	15	49.0	15	52.2
24	44.7	23	47.2	22	49.0	22	52.0
31	44.5	30	47.2	29	49.0	29	51.9
Apr. 7	44.8						

Columbia County

Co-1. Formerly 75 or W4-971. Fred E. Walters. Fernville. Location no. E18c-8318; 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 7.28 below lsd, Sept. 2, 1933; lowest 16.91 below lsd, Dec. 15, 1931. Records available: 1931-51.

Jan. 6	12.65	Apr. 14	12.93	July 7	13.37	Oct. 6	15.35
13	12.57	21	13.05	14	13.49	13	15.04
20	12.37	28	12.90	21	14.09	20	15.35
27	12.34	May 5	13.43	28	14.37	27	15.53
Feb. 3	12.39	12	13.75	Aug. 4	14.81	Nov. 3	12.93
5	12.29	19	13.90	11	14.80	10	13.33
10	12.45	26	13.93	18	14.79	17	13.45
17	12.47	June 2	14.05	25	15.45	24	13.38
Mar. 3	12.39	9	14.25	Sept. 1	15.41	Dec. 1	13.36
11	12.59	14	13.25	8	15.44	8	12.94
17	12.76	16	13.40	15	15.51	15	13.36
24	12.79	23	13.22	22	15.75	22	11.87
31	12.51	30	13.33	29	15.89	29	12.55
Apr. 7	11.87						

Delaware County

De-3. Michael S. Ebert. Near Elam. Location no. K21d-2125; 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. Mr. Michael S. Ebert, voluntary observer. Highest water level 13.36 below lsd, Dec. 24, 1951; lowest 19.83 below lsd, Nov. 5, 1951. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 11, 1950	17.64	July 16, 1951	17.72	Sept. 17, 1951	18.86	Nov. 12, 1951	19.02
June 5, 1951	17.26	23	17.79	24	19.03	19	18.57
11	17.33	30	17.88	Oct. 1	19.17	26	18.21
18	17.42	Aug. 6	18.01	8	19.33	Dec. 3	17.90
25	17.49	20	18.27	15	19.48	10	17.42
July 2	17.57	27	18.41	22	19.64	17	16.99
9	17.65	Sept. 3	18.55	29	19.78	24	13.39
13	18.13	10	18.70	Nov. 5	19.83	31	13.69

Elk County

Ek-1. Formerly 118. Mrs. Elizabeth Ernst. Near Kersey. Location no. D9d-0909; 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 8.12 below lsd, June 11, 1943; lowest 12.90 below lsd, Nov. 2, 1951. Records available: 1941-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.67	Apr. 13	8.80	July 6	10.15	Oct. 5	12.40
12	9.68	20	8.85	13	10.40	12	12.64
19	9.25	27	8.86	20	10.65	19	12.64
26	9.11	May 4	8.89	27	10.89	26	12.70
Feb. 2	9.20	11	9.05	Aug. 3	10.90	Nov. 2	12.90
9	9.34	18	9.40	10	11.20	9	12.89
16	9.04	25	9.65	17	11.36	16	12.48
23	8.97	June 1	9.89	24	11.70	23	12.10
Mar. 2	8.96	6	9.86	31	11.70	30	11.70
9	8.77	8	9.87	Sept. 7	11.70	Dec. 7	11.15
16	8.89	15	9.85	14	11.90	14	11.10
23	8.86	22	9.90	21	11.99	21	10.90
30	8.81	26	10.02	28	12.31	28	10.60
Apr. 6	8.72						

Erie County

Er-1. Formerly 1. Mrs. Grace P. Estes. Near Carters Corners. Location no. B4b-3203; 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. Julius Horvath, voluntary observer. Highest water level 8.63 below lsd, June 8, 1947; lowest dry, Sept. 8 - Dec. 1, 1934. Records available: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	12.21	Apr. 29	12.09	July 19	16.93	Oct. 14	17.86
Feb. 2	13.24	May 13	16.24	29	17.31	28	17.94
18	11.59	June 6	17.26	Aug. 12	17.50	29	17.75
Mar. 4	11.40	10	17.51	30	17.51	Nov. 11	15.82
8	11.44	24	17.28	Sept. 9	17.86	29	12.13
18	12.78	July 12	16.71	30	17.81	Dec. 2	11.83
Apr. 8	11.49	15	17.02				

Huntingdon County

Hu-1. Formerly 47 or W5-599. Fred M. Schell. Near Aitch and Marklesburg. Location no. H11c-1559; 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 at land-surface datum, Mar. 15, 1941; lowest 26.25 below lsd, Oct. 1, 1932. Records available: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	20.34	Feb. 10	19.40	Mar. 17	19.10	Apr. 21	19.19
13	20.26	17	19.44	24	19.52	28	20.23
20	19.98	24	16.86	31	17.20	May 5	20.59
27	18.96	Mar. 3	18.47	Apr. 7	16.86	12	21.07
Feb. 3	19.29	11	18.48	14	18.61	19	21.39

Hu-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 26	21.46	July 21	21.37	Sept. 15	21.95	Nov. 10	22.54
June 2	21.22	28	21.05	22	22.25	17	22.32
9	21.59	Aug. 4	20.80	29	22.33	24	22.11
11	21.38	11	21.14	Oct. 6	22.44	Dec. 1	21.36
16	18.55	18	21.36	13	22.51	8	20.79
23	18.98	25	21.75	20	22.64	15	20.90
30	20.09	Sept. 1	21.62	27	22.86	22	20.76
July 7	21.05	8	21.73	Nov. 3	22.92	29	20.78
14	21.46						

Hu-4. Formerly F11. Commonwealth of Pennsylvania. Logan State Forest, near Pine Grove Mills. Location no. G12b-4404; lat. 40°41'10", long. 77°51'50". Drilled unused water-table well in shale or sandstone of Clinton formation, diameter 6 inches, depth 73 feet. Land-surface datum is about 1,060 feet above msl. W. M. Eckley, voluntary observer. Highest water level 21.18 below lsd, Mar. 30, 1951; lowest 40.79 below lsd, Oct. 27, 1951. Records available: 1950-51.

Jan. 5	37.01	Apr. 14	37.07	July 6	39.07	Oct. 5	40.63
12	37.83	20	37.85	13	39.35	12	40.75
19	36.67	27	37.69	20	39.48	19	40.75
26	37.09	May 4	37.51	27	39.49	27	40.79
Feb. 2	37.32	12	38.11	Aug. 3	39.65	Nov. 2	40.74
9	37.57	18	37.94	11	39.88	9	40.34
16	37.26	25	37.95	17	39.89	16	39.74
23	36.57	June 1	38.37	24	40.05	23	39.89
Mar. 3	37.12	8	38.78	31	40.14	30	38.99
9	37.01	12	37.78	Sept. 7	40.21	Dec. 7	38.01
16	37.11	15	36.21	14	40.28	14	38.46
23	37.11	22	38.21	21	40.44	21	38.44
30	21.18	29	38.73	28	40.59	28	38.48
Apr. 6	37.21						

Indiana County

In-1. Formerly 200 or W3-535. Commonwealth of Pennsylvania. Indiana State Teachers' College, Indiana. Location no. G7c-0547; 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. Recording gage removed May 18, 1951. N. F. Sawyer, voluntary observer. Highest water level 75.10 below lsd, June 9, 1951; lowest 87.03 below lsd, Oct. 19, 1946. Records available: 1944-47, 1949-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.2	77.5	....	77.4	....	....	....	....	h82.0	....	....	h83.6
2	78.2	77.2	....	....	....	h76.6	....	....	....	....	....	....
3	78.2	77.7	....	....	76.3	....	....	....	....	....	h84.6	....
4	78.0	77.5	....	....	76.2	....	....	h78.9	....	....	....	....
5	e77.7	77.6	....	....	76.0	....	....	....	....	....	....	....
6	e78.1	77.8	....	e77.4	76.1	h76.0	....	....	....	h83.6	....	....
7	78.1	77.7	....	77.3	76.2	....	h77.5	....	....	....	....	....
8	77.9	77.5	....	....	76.2	....	....	....	h82.5	....	....	h83.4
9	78.1	77.8	....	77.3	76.4	h75.1	....	....	....	....	....	....
10	78.1	77.9	....	77.3	76.4	....	....	....	....	....	h84.6	....
11	78.0	77.6	....	77.3	76.4	....	....	h80.5	....	....	....	....
12	78.0	....	....	77.3	e76.5	....	....	....	....	....	....	....
13	78.2	....	....	77.4	....	....	....	....	....	h83.9	....	....
14	78.1	....	....	e77.2	....	....	h78.2	....	....	....	....	....
15	77.6	....	....	e76.9	....	....	....	....	h82.7	....	....	h82.8
16	77.6	h78.5	....	....	....	h75.6	....	....	....	....	....	....
17	77.8	e78.5	e78.5	....	....	....	....	....	....	....	h84.5	....
18	77.7	78.5	78.4	e77.0	h76.3	....	....	h81.1	....	....	....	....
19	77.5	78.7	78.3	77.0	h76.4	....	....	....	....	....	....	....
20	77.4	78.7	78.2	76.8	....	....	....	....	....	h84.2	....	....
21	77.6	79.1	e78.0	77.2	....	....	h78.9	....	....	....	....	....
22	77.7	79.2	77.8	....	....	....	....	....	h82.9	....	....	h82.4
23	77.7	78.8	77.9	....	....	h76.5	....	....	....	....	....	....
24	77.5	e78.7	77.7	....	....	....	....	....	....	....	h83.9	....
25	77.3	....	77.6	....	h76.5	....	....	h81.7	....	....	....	....

In-1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	77.3	....	77.7	....	....	....	....	....	....	....	....	....
27	77.3	....	77.7	....	....	....	....	....	....	h84.4	....	....
28	77.5	....	77.6	e76.6	....	....	h78.4	....	....	....	....	....
29	77.4	....	77.5	76.5	....	....	....	....	h83.3	....	....	h81.6
30	77.5	....	77.4	....	....	h77.2	....	....	....	....	....	....
31	77.5	....	77.5	....	....	....	....	....	....	....	....	....

e Estimated.

h Tape measurement.

Lackawanna County

Lk-2. Formerly 102 or W4-146. Orval J. Ransom. Near Carbondale. Location no. C22c-4709; 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 1.05 below lsd, Dec. 8, 1950; lowest 13.10 below lsd, Oct. 15, 1943. Records available: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	2.51	Apr. 13	1.50	July 6	4.74	Oct. 5	11.28
12	4.40	20	4.00	13	6.02	14	10.95
19	3.93	27	4.30	20	7.06	19	10.40
26	3.24	May 4	5.50	27	8.04	26	10.45
Feb. 2	3.52	12	6.55	Aug. 3	8.61	Nov. 3	7.35
9	4.69	18	7.00	11	9.25	8	4.05
17	5.20	25	7.48	17	9.65	16	4.85
23	3.20	June 1	7.95	24	9.90	24	4.14
Mar. 2	4.55	9	7.28	31	10.25	29	5.10
9	3.15	15	6.56	Sept. 7	10.44	Dec. 7	2.42
16	3.25	22	6.00	14	10.78	14	4.41
23	2.98	25	5.83	21	10.83	21	5.82
30	2.49	29	5.78	29	11.25	28	5.05
Apr. 6	3.55						

Luzerne County

Lu-2a. Formerly F9a. Commonwealth of Pennsylvania. Ricketts Glen State Park, near Red Rock. Location no. D18d-5152; 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. Warren A. Cope, voluntary observer. Highest water level 9.29 below lsd, Dec. 31, 1949; lowest dry, Oct. 14 - Dec. 9, 1949, Nov. 17, 1951. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	13.15	Mar. 30	10.10	June 15	16.00	Aug. 31	22.96
12	12.46	Apr. 6	11.17	22	12.58	Sept. 7	20.24
19	12.20	13	10.66	29	11.85	14	20.75
26	10.42	20	11.65	July 6	12.06	21	21.49
Feb. 2	10.37	27	11.76	14	12.95	28	22.02
9	10.80	May 4	12.65	20	13.14	Oct. 5	22.13
16	11.96	11	13.66	27	15.40	Nov. 17	(f)
23	10.74	18	14.53	Aug. 3	16.76	26	22.00
Mar. 2	11.22	25	15.22	10	16.86	30	21.54
9	11.79	June 1	14.70	17	18.17	Dec. 7	14.80
16	11.80	8	17.19	24	18.26	28	12.44
26	10.85	14	16.00				

f Dry.

Lycoming County

Ly-1. Formerly F10. Commonwealth of Pennsylvania. Tiadaghton State Forest, near Slate Run. Location no. D13b-2229; 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. George B. Will, voluntary observer. Highest water level 16.97 below lsd, Dec. 11, 1950; lowest 30.75 below lsd, Nov. 19, 1951. Measurements published for 1949 and 1950 should be increased by 6.0 feet. Records available: 1949-51.

Ly-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	21.61	Apr. 2	18.58	July 9	23.81	Oct. 8	28.00
8	21.71	9	17.70	16	24.08	14	28.85
15	21.50	16	18.76	23	24.30	22	28.85
22	21.80	23	19.72	Aug. 7	24.65	29	28.00
29	21.15	May 7	21.66	13	25.60	Nov. 5	28.70
Feb. 5	21.46	14	22.54	20	25.85	19	30.75
12	21.68	28	23.01	27	26.56	26	29.80
19	21.57	June 5	23.41	Sept. 10	26.90	Dec. 3	30.00
26	20.58	13	23.60	17	27.81	10	27.70
Mar. 12	19.88	18	22.79	25	27.42	17	24.70
19	20.22	25	22.71	Oct. 2	28.55	31	25.25
26	20.86	July 2	23.36				

Mifflin County

Mf-1. Formerly 117. Charles C. Naginey. Naginey. Location no. G13b-3237; lat. 40°42'10", long. 77°33'10". Dug unused water-table well in limestone of Ordovician or Cambrian 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 23.66 below lsd, Sept. 25, 1948. Records available: 1941-42, 1946-51.

Jan. 7	15.84	Apr. 14	13.55	July 8	20.75	Oct. 6	22.79
14	16.84	23	14.39	14	21.62	16	22.81
21	14.89	29	15.49	23	21.15	20	22.55
28	14.76	May 5	16.60	30	21.20	27	22.13
Feb. 5	16.02	14	17.57	Aug. 4	21.49	Nov. 3	21.27
11	15.90	21	18.10	13	19.88	10	19.54
18	15.47	26	18.59	19	21.91	17	19.60
25	15.04	June 2	20.36	27	21.56	24	21.50
Mar. 4	15.86	11	16.46	Sept. 2	22.46	Dec. 1	20.67
11	15.96	12	16.36	8	20.20	8	21.53
18	16.70	17	14.62	15	22.47	15	17.51
26	16.44	25	16.14	22	22.67	22	16.34
Apr. 1	8.08	30	17.85	29	22.65	29	16.77
8	14.83						

Montgomery County

Mg-2. Formerly 126. Commonwealth of Pennsylvania. Pottsgrove Mansion, King and High Sts., Pottstown. Location no. J21a-0147; lat. 40°14'50", long. 75°39'30". Dug domestic water-table well in sandstone or Brunswick shale, diameter 4 inches, depth 30 feet. Land-surface datum is 158.36 feet above msl. Highest water level 21.04 below lsd, May 14, 1948; lowest 27.34 below lsd, Aug. 25, 1950. Records available: 1948-51. Measurement discontinued.

Jan. 5	25.06	Feb. 9	22.74	Mar. 16	24.32	Apr. 26	24.68
11	24.64	15	23.84	23	23.13	27	24.88
12	24.95	16	24.25	29	24.14	May 4	25.08
19	23.94	23	22.61	30	24.04	10	25.08
25	22.55	Mar. 1	23.82	Apr. 6	23.71	11	25.07
26	23.09	2	23.88	13	22.52	18	25.44
Feb. 2	22.51	9	24.11	20	24.41	25	24.91

Mg-3. Formerly 131. Gottfried Ott. Near Schwenksville. Location no. J22a-0622; lat. 40°14'20", long. 75°27'20". Dug unused water-table well in Brunswick shale, diameter 4 feet, depth 29 feet. Land-surface datum is about 170 feet above msl. Highest water level 6.65 below lsd, Dec. 22, 1949; lowest 13.80 below lsd, Oct. 21, 1949. Records available: 1948-51.

Jan. 11	10.15	Mar. 1	8.93	May 11	9.64	Oct. 15	9.24
25	7.76	29	8.40	June 22	9.21	23	10.65
Feb. 15	8.91	Apr. 12	9.00				

Mg-4. Collegeville-Trappe Joint Water Works. West First Ave., Trappe. Location no. J22a-4018; lat. 40°11'30", long. 75°27'50". Drilled unused artesian well in Brunswick shale, diameter 8 inches, depth 275 feet. Land-surface datum is about 220 feet above msl. Recording gage installed May 2, 1949. Water levels are affected by pumping of other municipal wells. Mr. Charles J. Smedley, voluntary observer. Highest water level 28.61 below lsd, May 4, 1949; lowest 78.55 below lsd, Dec. 9, 1949: Records available: 1949.

Daily lowest water level from recorder graph, 1949*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	43.7	....	48.5	59.8	63.2	71.9	76.5
2	35.7	44.0	....	....	60.1	63.5	70.3	77.0
3	35.8	38.1	....	....	55.4	59.6	72.5	75.8
4	30.7	42.8	....	....	59.9	64.2	72.6	76.8
5	37.1	43.4	....	....	60.0	64.4	70.6	77.1
6	37.1	37.3	....	50.2	55.4	61.6	72.6	76.6
7	31.6	41.8	....	49.4	59.8	65.4	73.1	76.9
8	36.4	42.5	....	55.2	60.1	64.3	72.1	78.2
9	33.5	36.8	....	55.9	55.3	61.1	73.8	78.6
10	31.7	40.6	....	50.7	60.1	66.2	74.2	76.6
11	38.0	41.3	....	55.6	60.4	66.5	72.4	76.7
12	38.7	36.0	....	57.2	55.7	64.0	74.2	77.8
13	33.6	41.8	....	52.5	60.1	67.2	74.7	77.5
14	39.7	42.2	....	57.4	60.3	67.5	72.2	77.8
15	39.9	36.8	....	57.7	55.6	65.8	75.0	76.8
16	34.7	41.4	....	....	60.3	67.6	75.4	78.1
17	41.4	42.0	....	58.0	60.6	67.7	73.4	78.2
18	42.0	36.5	....	58.7	55.8	66.0	75.5	75.4
19	36.6	40.6	....	53.5	60.8	68.7	75.8	74.5
20	43.0	41.0	....	58.6	61.0	69.2	74.2	75.7
21	43.0	36.4	....	59.1	56.6	67.2	75.2	75.7
22	37.2	41.0	....	55.0	60.9	69.3	74.9	73.1
23	43.0	41.9	....	59.4	60.2	69.7	75.2	74.6
24	43.2	37.0	....	59.9	56.2	67.4	75.6	74.6
25	37.9	41.8	....	55.3	60.0	70.3	75.2	71.1
26	43.4	42.3	46.8	60.1	60.5	70.6	72.4	72.8
27	43.7	37.7	51.8	60.3	56.8	69.3	73.4	69.9
28	37.6	43.4	....	55.0	62.2	71.3	74.4	69.9
29	42.1	....	....	59.6	62.6	71.7	74.2	71.2
30	42.8	....	53.0	59.9	58.6	70.2	74.5	70.6
31	37.7	....	53.4	54.9	....	71.8	....	67.8

* No record for January, February, and March.

Daily lowest water level from recorder graph, 1950

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.2	61.5	32.4	19.1	36.1	40.3	41.5	47.7	43.8	45.4	58.2	41.5
2	68.7	61.9	27.6	18.2	31.9	35.7	41.9	43.8	47.8	49.3	54.0	41.6
3	66.9	60.4	33.0	....	37.0	....	37.1	46.8	48.2	47.3	e58.5	e34.9
4	69.3	56.2	33.8	....	37.6	....	40.6	46.8	44.0	46.7	e58.5	....
5	69.8	56.4	34.0	....	33.2	32.7	41.1	41.4	48.7	e51.1	58.0	....
6	68.1	56.6	34.3	....	37.8	....	37.2	45.2	48.3	e51.1	58.4	....
7	69.3	52.2	35.4	....	38.3	....	42.0	45.2	44.8	47.8	55.2	....
8	69.8	56.5	35.8	....	34.0	32.7	40.2	40.7	49.6	e51.2	53.6	....
9	67.3	56.5	30.5	....	39.0	36.8	38.3	45.0	49.8	e51.2	58.2	e22.6
10	69.3	49.7	34.8	....	39.4	35.2	42.5	45.3	49.1	48.7	58.5	....
11	69.7	51.0	35.1	....	34.6	35.7	42.7	40.8	49.4	e51.2	53.9	....
12	68.1	51.4	33.7	....	....	33.2	38.7	45.4	45.8	e51.2	54.1	....
13	69.1	44.6	34.0	....	....	31.6	43.3	45.8	44.7	50.0	....	....
14	69.4	44.4	29.6	24.5	40.2	30.5	43.5	41.4	48.6	....	....	....
15	67.6	44.2	26.9	29.8	40.5	....	39.3	45.6	48.7	....	58.0	....
16	68.1	34.1	32.0	30.4	41.5	....	43.5	45.8	44.4	51.0	58.5	....
17	67.6	34.2	32.2	25.9	42.0	30.2	43.7	41.3	48.0	....	55.3	e22.1
18	....	34.2	26.8	31.9	37.7	....	39.8	45.7	48.3	....	59.2	....
19	....	26.9	31.2	32.3	42.5	30.9	44.5	46.0	43.7	....	....	....
20	68.2	31.8	31.5	27.6	42.6	30.0	44.7	41.7	47.5	....	....	e22.6
21	68.6	32.2	26.4	33.4	37.3	35.0	40.6	46.4	47.4	....	61.7	e22.0
22	67.1	25.8	29.6	33.8	42.8	35.2	45.0	46.8	42.8	52.4	62.2	e25.4
23	67.5	30.8	e29.0	33.0	43.0	31.0	45.5	42.5	47.0	56.7	e59.0	....
24	68.1	31.4	20.7	e33.6	38.1	....	41.1	46.8	47.3	57.4	e59.0	e22.7
25	68.4	26.7	e21.0	....	42.3	....	46.0	46.9	43.2	52.8	55.7	....

Mg-4--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	66.5	e30.0	e20.9	29.6	42.5	....	46.1	42.6	47.6	57.8	51.8	....
27	68.3	e29.9	18.3	35.6	37.8	....	41.8	46.7	48.4	e58.5	44.6	e23.9
28	66.8	31.8	23.0	36.1	41.9	....	46.4	46.9	44.4	e58.5	43.1	....
29	65.5		23.1	31.3	42.2	e39.3	46.6	43.1	48.9	55.0	43.2	....
30	65.8		18.0	35.8	37.0	39.5	42.5	47.7	49.6	53.3	37.1	....
31	63.8		22.8		41.5		47.4	45.6		57.7		....

e Estimated.

Daily lowest water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	20.5	20.5	23.7	....	45.8	50.4	e51.4	58.8	62.9	70.3	37.2
2	26.1	e20.4	26.5	24.2	....	46.2	50.5	e51.1	54.0	60.0	70.4	37.6
3	31.8	....	26.7	19.4	35.0	46.0	45.5	48.4	57.8	63.7	66.2	32.2
4	32.1	19.6	25.4	25.2	35.1	46.6	50.0	e51.2	58.2	64.3	63.7	36.9
5	28.3	19.7	25.8	25.3	30.0	44.7	50.0	....	54.1	60.8	63.2	37.4
6	e31.7	....	22.1	20.0	34.8	42.0	46.5	49.4	57.7	65.1	60.6	32.0
7	....	e24.0	21.4	25.6	35.3	46.4	50.5	53.8	58.2	65.6	58.1	36.1
8	28.6	e24.0	27.3	25.9	31.3	46.6	51.3	54.1	54.4	62.0	58.1	36.4
9	34.2	....	27.8	20.9	37.4	41.8	46.8	50.3	58.8	65.7	50.6	30.6
10	34.8	e23.5	22.9	27.0	38.0	45.3	51.8	56.0	59.1	66.2	49.2	e29.9
11	29.9	19.2	27.6	27.1	32.9	45.6	52.4	56.5	54.9	62.7	49.5	....
12	35.6	19.8	28.2	21.9	38.5	42.1	47.6	51.4	60.0	66.6	43.3	....
13	35.8	e23.4	23.4	27.6	39.0	46.0	53.3	56.0	60.1	66.8	46.0	....
14	....	....	29.0	27.6	34.4	46.2	53.7	56.3	55.8	66.2	46.5	e31.0
15	....	21.3	29.5	27.2	39.9	....	48.6	51.3	60.1	66.5	40.3	29.5
16	29.1	....	24.5	27.3	40.3	45.7	54.2	56.1	60.4	65.3	43.6	33.7
17	27.0	....	29.5	23.4	36.2	46.4	54.5	56.3	55.8	64.9	e44.6	33.7
18	e31.6	e24.5	30.1	29.2	41.7	42.0	49.1	52.0	60.4	67.9	38.2	28.2
19	32.4	....	24.9	29.3	42.1	45.6	e51.7	e52.1	60.6	68.3	41.2	31.9
20	26.8	21.9	28.9	24.7	41.3	46.6	....	....	56.2	65.8	41.9	32.0
21	31.7	24.6	29.0	30.2	41.7	42.2	48.7	....	60.4	67.9	36.2	35.2
22	32.2	e24.5	22.2	30.5	38.4	47.2	52.1	....	60.6	68.2	38.9	23.8
23	27.2	18.7	26.3	25.4	38.1	48.6	52.3	....	56.1	67.0	37.5	23.9
24	30.0	23.5	26.4	e29.6	44.0	43.1	48.7	....	61.1	66.4	33.4	17.1
25	30.0	23.9	26.3	....	43.8	48.0	47.5	57.7	61.4	69.3	37.1	16.5
26	22.4	18.6	26.4	26.8	44.7	48.3	53.2	58.1	57.2	69.6	37.4	23.4
27	....	24.8	22.4	32.8	45.4	50.4	53.2	53.4	62.0	67.1	32.6	17.2
28	....	25.2	21.6	31.2	40.0	51.6	47.9	57.8	62.3	69.5	37.8	23.5
29	21.3	....	26.4	31.9	44.0	52.0	51.9	58.0	58.8	69.8	38.0	....
30	e24.0	....	26.4	32.3	44.5	46.5	52.2	53.6	62.7	68.7	32.4	24.4
31	....	....	20.1	....	40.7	....	47.7	58.4	....	68.3	....	18.5

e Estimated.

Northampton County

Np-1. H. Richard Gault. Near Hellertown. Location no. G22d-1955; lat. 40°35'50", long. 75°16'10". Dug unused water-table well in Byram granite gneiss, diameter 4 feet, depth 41 feet, cased with stone. Land-surface datum is about 610 feet above msl. Recording gage installed July 14, 1951. H. Richard Gault, voluntary observer. Highest water level 21.07 below lsd, Dec. 30, 1951; lowest 31.54 below lsd, Nov. 4, 1951. Records available: 1951.

Daily lowest water level from recorder graph*

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.90	26.63	28.72	....	....
2	25.93	26.75	28.76	....	25.97
3	25.80	26.81	28.83	....	25.98
4	25.80	26.90	28.90	31.54	....
5	25.75	26.98	28.95	....	25.75
6	25.64	27.02	29.02	....	25.87
7	25.51	27.05	29.13	....	25.88
8	27.15	29.25	....	25.88
9	27.23	29.30	....	25.88
10	25.22	27.28	29.40	....	....
11	27.35	29.40	....	....
12	27.43	29.50	30.08	25.77
13	27.48	29.60	29.36	25.80
14	24.56	....	27.52	e29.70	28.45	25.80
15	24.67	....	27.58	....	....	....

Np-1--Continued.

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	24.77	.....	27.70	.....	.....	.....
17	24.90	.....	27.73	.....	.....	.....
18	24.98	25.62	27.80	.....	26.68	.....
19	25.08	25.70	27.88	.....	26.58	.....
20	25.23	25.76	27.98	.....	26.50	.....
21	25.29	25.82	28.04	.....	.....	.....
22	25.35	.....	28.10	.....	.....	.....
23	25.45	.....	28.18	.....	.....	e24.00
24	25.55	.....	28.22	.....	.....	22.35
25	.....	26.21	28.25	.....	.....	21.48
26	.....	26.25	28.35	.....	25.83	.....
27	.....	e26.35	28.40	.....	25.90	.....
28	25.78	26.43	28.46	.....	25.90	.....
29	25.85	26.50	28.56	.....	25.86	.....
30	25.87	26.56	28.70	.....	.....	21.20
31	25.90	26.60	.....	31.20	.....	21.35

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

e Estimated.

Perry County

Pe-2. Formerly 61 or W5-822. Bertha Demaree. 29 North Third St., Newport. Location no. H15a-1461; lat. 40°28'40", long. 77°08'00". Dug unused water-table well in weathered sandstone of Chemung formation, diameter 36 inches, depth 20 feet, cased with stone. Land-surface datum is about 400 feet above msl. Readings published for 1949 and 1950 should be subtracted from 27.03. Mrs. Frances K. Fry, voluntary observer. Highest water level 7.58 below lsd, Apr. 27, 1940; lowest 18.59 below lsd, May 28, 1943. Records available: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	13.21	May 26	14.08	July 18	14.49	Sept. 30	15.76
Feb. 12	13.27	June 4	14.58	28	14.13	Oct. 3	15.95
Feb. 10	12.41	9	14.74	Aug. 4	14.41	28	16.24
Mar. 1	11.39	12	14.51	18	14.75	31	15.53
17	13.74	16	14.22	26	14.73	Nov. 25	15.98
Apr. 2	12.40	22	14.04	Sept. 2	14.95	Dec. 7	15.14
May 9	13.39	25	14.13	9	15.45	8	15.18
12	13.52	July 1	14.00	15	14.98	23	14.92
20	13.45						

Pe-3. Formerly 110 or W5-782. I. L. Zeigler. Near Millerstown. Location no. G15c-4363; 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 1.63 below lsd, May 7, 1943; lowest 9.33 below lsd, Dec. 11, 1939. Records available: 1936-48, 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 13, 1948	3.86	Nov. 11, 1948	3.71	May 8, 1951	2.50	Aug. 22, 1951	2.80
Oct. 10	4.11	Feb. 26, 1951	2.49	June 11	2.08	Oct. 3	4.60
Nov. 10	3.35	Apr. 5	2.47	July 13	2.70	Dec. 3	2.70

Philadelphia County

Ph-5. Formerly N-5. U. S. Navy Department, Naval Base. Porter Ave. and Fifth St. West, 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 caused by tidal loading 1.4 feet. Highest water level 31.5 below lsd, Nov. 25, 1950; lowest 52.0 below lsd, Feb. 3, 1950. Records available: 1943-51. Measurement discontinued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.0	42.0	.....	.....	42.5	49.5	43.0	49.5	49.5	46.0	45.5	43.0
2	39.0	43.5	.....	.....	43.0	48.0	46.5	49.5	46.5	47.5	45.5	40.0
3	40.0	41.0	.....	.....	44.5	42.5	47.5	49.0	42.5	47.0	44.0	41.0
4	41.0	38.5	.....	.....	44.5	47.0	45.0	48.0	47.5	.....	39.5	41.0
5	42.5	41.5	.....	.....	42.5	49.0	47.0	44.5	48.5	.....	43.5	.....

Ph-5--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	40.5	42.0	....	....	41.0	50.0	....	46.5	49.5	....	44.0	....
7	37.0	42.5	....	....	44.0	50.0	46.0	48.0	49.5	....	44.0	....
8	40.	42.5	....	....	43.0	49.5	42.5	48.0	48.5	....	45.0	42.5
9	....	42.0	....	....	44.0	47.5	46.5	48.5	44.5	....	45.5	40.5
10	43.5	42.0	....	....	45.0	42.5	48.5	48.5	44.0	....	43.5	40.5
11	43.5	38.5	....	....	45.0	45.5	48.5	48.5	47.0	46.0	38.5	44.0
12	43.5	44.0	....	....	44.5	47.5	49.5	43.5	48.0	46.5	37.5	46.0
13	43.5	44.0	....	46.0	42.0	47.5	49.5	47.0	49.5	45.5	42.0	44.5
14	39.5	43.5	....	44.5	44.5	48.0	48.5	49.0	49.0	43.5	42.0	45.0
15	37.5	44.0	....	41.0	....	49.0	44.0	49.0	48.0	e46.0	44.0	42.5
16	40.5	44.0	....	42.5	....	46.0	47.0	49.0	45.0	....	43.5	42.0
17	....	43.5	....	44.0	....	42.0	49.5	49.0	48.0	48.0	42.0	45.0
18	40.0	40.0	....	44.0	....	46.0	49.5	49.0	48.0	47.0	41.5	46.0
19	40.5	39.5	....	44.0	....	49.0	49.0	44.0	49.0	46.0	42.5	47.5
20	40.0	43.0	....	43.0	....	48.5	48.5	48.0	49.0	44.5	43.0	47.5
21	35.5	42.5	....	41.5	....	50.0	47.5	50.0	49.0	41.0	45.0	46.5
22	39.5	43.0	....	41.0	....	e50.0	43.0	50.0	47.0	44.0	....	46.0
23	39.5	41.0	....	43.0	47.0	50.0	47.5	49.5	42.5	44.5	42.0	43.5
24	40.0	41.0	....	42.5	47.0	46.5	49.0	49.0	45.0	47.0	41.5	42.0
25	42.0	40.5	....	42.5	46.5	46.5	49.5	48.0	46.5	47.5	40.5	37.5
26	42.0	....	....	44.0	45.0	47.0	49.0	42.5	47.0	47.0	....	40.0
27	42.0	....	....	45.0	41.5	49.0	49.5	46.5	47.5	44.5	....	....
28	36.5	....	....	44.5	45.5	50.0	49.5	49.0	48.0	41.5	....	....
29	40.0	....	....	41.0	48.5	49.0	46.5	49.0	46.5	44.0	....	....
30	40.5	....	....	42.0	47.5	48.5	47.5	49.5	43.0	45.5	43.5	41.5
31	41.5	....	....	....	47.0	....	49.0	49.5	....	46.0	....	39.5

e Estimated.

Ph-11. Formerly NO-1 or A. U. S. Navy Department, Naval Base. Davis Ave. and Second St. East, 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. Land-surface datum is 9.41 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.2 foot. Highest water level 27.31 below lsd, Nov. 25, 1950; lowest 37.01 below lsd, Mar. 10, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.7	32.1	32.9	....	31.9	33.5	32.5	34.1	34.7	32.7	32.5	32.4
2	31.5	32.9	33.1	....	31.8	33.5	32.5	34.1	34.0	32.9	32.2	31.0
3	31.5	32.9	33.0	....	32.0	32.0	32.8	33.8	31.8	33.3	32.0	31.6
4	31.9	31.2	31.1	32.0	32.0	32.3	32.7	33.6	32.9	33.4	30.1	31.6
5	32.5	32.3	31.7	32.7	31.6	33.3	32.2	32.2	34.1	33.4	32.2	32.2
6	32.3	32.4	32.6	33.0	30.5	33.9	33.3	32.2	34.4	33.2	32.4	32.5
7	30.9	32.4	32.6	32.9	31.9	34.1	33.3	33.0	34.4	31.6	32.5	32.5
8	31.4	32.4	32.8	31.0	32.0	34.1	31.8	33.0	34.2	32.8	32.5	32.4
9	32.5	32.6	33.3	31.4	31.6	33.8	32.6	33.4	33.2	33.2	32.7	31.0
10	33.0	32.7	33.1	32.7	32.3	31.7	33.7	33.8	32.6	33.3	32.7	31.1
11	33.1	32.2	32.5	32.7	32.4	32.5	33.8	33.8	33.6	32.9	29.9	32.1
12	33.3	32.1	31.6	32.4	32.1	33.6	34.2	32.5	33.8	33.1	29.4	32.8
13	33.3	32.9	32.3	32.5	31.0	33.6	34.4	33.3	34.5	32.9	31.4	33.0
14	31.9	33.3	32.1	32.5	32.2	33.5	34.4	34.1	34.5	31.8	31.5	33.4
15	31.0	33.6	32.5	31.2	33.1	33.8	33.0	34.5	34.0	32.6	32.3	33.0
16	32.0	33.8	32.7	31.4	33.3	33.7	33.1	34.5	32.6	32.8	32.3	31.3
17	32.3	33.8	32.5	32.4	34.0	32.4	32.2	34.8	33.5	33.5	31.8	32.3
18	32.3	32.4	32.0	32.4	34.0	32.7	34.5	34.7	33.6	33.5	31.0	32.6
19	32.5	31.8	31.7	31.9	33.2	33.6	34.5	32.5	34.1	32.6	31.4	33.7
20	32.4	32.9	32.3	31.8	31.1	33.8	34.2	33.3	34.3	32.1	32.0	33.7
21	30.6	32.9	33.0	31.8	31.2	34.0	34.2	34.1	34.4	30.8	32.8	33.2
22	31.5	32.6	33.0	30.2	32.1	....	31.7	34.6	33.8	32.1	32.8	32.4
23	32.1	31.9	33.1	31.3	32.2	....	32.9	34.6	31.4	32.7	31.8	31.8
24	32.1	32.3	32.1	31.6	32.0	....	33.8	34.1	32.1	33.1	31.8	31.3
25	32.5	32.4	30.2	31.9	32.4	....	34.1	33.8	33.3	33.5	30.7	30.0
26	32.5	31.1	....	32.1	32.3	....	34.0	31.9	33.8	33.5	31.5	30.9
27	32.6	32.2	....	32.3	30.7	....	33.9	33.3	33.8	33.4	32.2	31.7
28	31.1	32.5	....	32.1	31.5	34.0	34.0	34.2	33.7	30.8	32.6	32.5
29	31.8	....	....	30.0	32.9	33.9	....	34.2	33.7	31.9	32.7	32.6
30	32.1	....	....	31.6	32.9	33.5	....	34.6	31.9	32.4	32.7	32.4
31	32.2	....	....	....	32.6	....	33.5	34.7	....	32.6	....	31.9

Ph-12. Formerly NO-2 or B. U. S. Navy Department, Naval Base. Barracks Ave. and extension of Third St. East, 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 110 feet, cased to 94, screen 94-104. Land-surface datum is 10.44 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.2 foot. Highest water level 27.70 below lsd, Nov. 25, 1950; lowest 36.17 below lsd, Mar. 10, 1950. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	31.6	32.9	30.2	31.8	32.9	31.5	33.3	33.6	32.5	32.0	31.3
2	....	32.8	32.9	31.5	31.6	32.7	32.4	33.1	32.4	32.6	31.6	30.4
3	31.6	32.5	32.5	31.5	32.0	31.3	32.4	32.9	31.1	32.6	30.3	31.6
4	31.5	31.0	....	32.0	32.0	31.9	31.9	32.7	32.9	32.7	29.7	31.0
5	....	32.5	....	32.6	31.3	32.9	31.8	31.5	33.3	32.7	31.8	31.8
6	....	32.5	....	32.6	30.3	33.3	32.9	31.8	33.3	32.3	....	32.1
7	....	32.1	32.3	32.4	32.0	33.5	32.9	32.4	33.3	31.0	31.3	32.1
8	....	....	32.7	30.5	31.9	33.4	31.1	32.3	33.4	....	32.2	31.3
9	....	....	32.6	31.5	31.9	32.8	32.6	32.7	31.9	....	32.3	30.7
10	32.7	....	32.5	32.4	32.3	31.1	33.2	33.1	32.5	32.4	31.6	31.2
11	32.8	....	32.0	32.1	32.4	32.4	33.3	32.8	33.0	32.3	29.5	31.8
12	33.0	....	31.6	32.3	31.8	33.3	33.5	31.4	33.3	32.7	29.3	32.2
13	33.0	....	31.8	32.2	30.7	33.1	33.7	32.8	33.6	31.9	....	32.7
14	31.8	33.2	31.6	31.8	32.6	33.1	33.1	33.3	33.5	31.2	....	32.8
15	31.2	33.4	32.5	30.6	32.9	33.3	31.8	33.4	32.6	32.4	....	31.1
16	32.2	33.4	32.5	31.5	32.9	32.8	33.0	33.4	31.7	32.3	....	31.1
17	32.1	33.4	32.3	32.2	33.5	31.4	33.6	33.7	33.0	32.8	....	31.8
18	32.3	31.8	31.7	31.8	33.1	32.8	33.8	33.2	32.8	32.4	....	32.0
19	32.5	32.3	31.8	31.9	32.6	33.3	33.5	31.4	33.4	31.8	....	33.1
20	32.0	32.7	32.4	31.7	30.7	33.3	33.6	32.5	33.6	31.3	....	32.8
21	30.5	32.3	32.6	31.8	31.3	33.4	33.5	33.1	33.6	30.4	32.1	31.8
22	....	31.9	32.9	30.3	31.7	33.6	31.2	33.6	32.5	31.8	31.9	31.3
23	....	31.8	32.7	31.3	31.6	33.1	32.6	33.5	30.7	32.0	31.6	31.4
24	32.0	32.4	31.4	32.0	31.8	32.2	33.1	33.3	32.3	32.3	32.0	30.9
25	32.3	32.7	30.2	31.7	32.2	32.8	33.3	32.6	32.6	32.8	30.5	30.1
26	32.5	31.5	32.2	....	31.7	33.2	33.1	31.1	33.2	32.7	31.3	30.9
27	32.5	32.3	32.1	....	30.5	33.4	33.2	32.8	33.1	31.9	31.9	31.4
28	31.0	32.2	32.3	....	31.8	33.4	33.2	33.3	33.0	30.0	32.2	32.0
29	32.2	....	32.5	....	32.7	32.9	31.9	33.3	32.7	31.8	32.4	31.9
30	32.2	....	32.2	31.7	32.0	32.8	31.7	33.6	31.2	31.9	32.2	31.3
31	32.2	....	31.7	....	32.4	....	32.8	33.7	....	32.0	....	31.1

Ph-13. Formerly NO-3 or C. U. S. Navy Department, Naval Base. Near Second St. East, League Island, Philadelphia. Lat. 39°53'30", long. 75°10'20". Drilled observation artesian well in sand and gravel of Pleistocene age, diameter 8 inches, depth 73 feet, cased to 54, screen 54-63. Land-surface datum is 11.83 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.1 foot. Highest water level 25.81 below lsd, Sept. 22, 1947; lowest 31.23 below lsd, Mar. 11, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	28.8	....	29.0	29.1	29.1	29.4	27.2	27.7	27.7	27.0	29.0
2	....	29.5	....	28.7	29.0	29.1	29.4	27.4	27.7	27.4	27.0	28.8
3	28.6	29.6	....	28.7	28.7	29.1	29.5	27.3	27.6	27.5	26.7	28.9
4	29.0	29.1	....	29.0	28.7	29.0	29.4	27.4	27.4	27.5	26.8	28.8
5	29.4	29.0	....	29.2	28.8	29.0	29.2	27.5	27.6	27.4	27.0	28.5
6	29.3	29.2	....	29.3	28.8	29.2	29.5	27.4	27.6	27.5	27.3	28.7
7	28.9	29.0	28.9	29.2	28.8	29.4	29.5	27.0	27.6	27.6	27.5	28.8
8	28.9	29.5	....	29.0	28.9	29.4	29.5	27.0	27.9	27.3	28.7	28.9
9	29.3	29.7	....	28.8	29.0	29.4	29.2	27.2	27.8	27.6	29.1	28.8
10	29.2	29.7	....	28.9	29.2	29.2	29.3	27.2	27.6	27.8	29.2	28.8
11	29.2	29.5	....	29.2	29.2	29.0	29.5	27.4	27.6	27.5	29.0	28.8
12	29.4	28.8	29.1	29.2	29.1	29.2	29.4	27.3	27.7	27.8	29.1	28.5
13	29.6	29.1	29.0	28.9	29.4	29.3	29.6	27.2	27.7	28.0	28.9	29.3
14	29.5	29.5	28.7	29.0	29.5	29.1	29.6	27.3	27.7	27.9	28.7	29.4
15	28.6	29.7	28.7	29.0	29.5	29.2	29.6	27.3	27.7	27.6	28.9	29.1
16	29.1	29.7	29.0	29.0	29.3	29.4	29.4	27.3	27.7	27.5	28.9	29.6
17	29.3	29.6	29.4	28.8	29.5	29.4	29.4	27.5	27.5	27.5	28.9	29.6
18	29.1	29.4	29.5	29.3	29.6	29.2	29.6	27.5	27.6	27.5	28.9	29.4
19	29.2	29.3	29.5	29.2	29.5	29.2	29.6	27.6	27.8	27.4	29.0	29.6
20	29.2	29.1	29.2	29.5	29.4	29.2	29.5	27.4	27.9	27.2	29.2	29.6

Ph-13--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	29.2	29.0	29.2	29.6	29.0	29.3	28.8	27.3	28.0	27.2	29.3	28.7
22	29.5	29.1	29.5	29.4	28.8	29.3	28.0	27.6	27.9	27.1	29.2	29.2
23	29.5	....	29.5	29.2	28.7	29.4	27.6	27.8	27.6	27.1	28.9	29.4
24	28.8	....	29.0	29.2	28.9	29.4	27.5	27.8	27.7	27.0	29.0	29.2
25	28.8	....	27.9	29.2	28.9	29.1	27.5	27.7	27.4	27.3	29.2	29.2
26	29.0	....	28.5	29.3	29.0	29.3	27.4	27.5	27.8	27.5	28.8	28.7
27	29.1	....	29.2	29.4	28.7	29.3	27.4	27.3	27.7	27.1	29.2	29.0
28	29.1	....	29.3	29.4	28.5	29.5	27.4	27.4	28.0	26.8	29.2	29.1
29	28.9	....	29.3	28.9	28.7	29.5	27.3	27.5	28.1	27.0	29.1	28.8
30	29.4	....	29.2	28.9	28.9	29.5	27.3	27.6	28.0	27.0	29.0	28.6
31	29.5	....	29.0	....	29.0	....	27.1	27.6	....	26.9	....	28.8

Ph-14. Formerly NO-4 or S-2. U. S. Navy Department, Naval Base. Fourth St. East 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 28.58 below lsd, Nov. 25, 1950; lowest 33.22 below lsd, Mar. 10, 31, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.4	30.3	....	30.4	30.3	30.6	30.8	29.9	30.4	30.0	29.6	30.3
2	30.2	31.1	....	30.0	30.3	30.6	30.8	29.9	30.4	29.9	29.6	30.0
3	30.2	31.1	....	30.2	30.1	30.6	30.8	29.9	30.2	30.0	29.1	30.1
4	30.4	30.6	....	30.4	30.0	30.3	30.8	30.0	30.1	30.0	29.2	30.1
5	30.8	30.6	....	30.6	30.0	30.6	30.4	30.0	30.3	30.0	29.7	29.8
6	30.8	30.7	....	30.7	29.9	30.8	30.8	29.8	30.3	30.0	29.8	30.2
7	30.3	30.5	....	30.6	30.2	30.9	30.8	29.6	30.4	30.1	29.3	30.2
8	30.3	30.9	....	30.3	30.3	30.9	30.8	29.5	30.5	30.0	30.0	30.2
9	30.7	31.2	....	30.2	30.3	30.9	30.6	29.7	30.4	30.2	30.4	30.1
10	30.7	31.2	....	30.4	30.5	30.7	30.8	29.9	30.1	30.2	30.4	30.0
11	30.8	31.0	....	30.6	30.5	30.6	30.9	30.1	30.3	30.1	30.0	30.0
12	31.0	30.4	....	30.6	30.3	30.9	30.9	30.0	30.4	30.4	30.0	29.8
13	31.1	30.8	....	30.4	30.6	30.9	31.1	29.9	30.5	30.5	29.8	30.6
14	31.0	31.2	....	30.4	30.8	30.8	31.1	30.1	30.5	30.4	29.8	30.6
15	29.9	31.4	....	30.4	30.8	30.9	31.0	30.1	30.4	30.0	30.1	30.3
16	30.6	31.4	....	30.2	30.8	31.0	30.7	30.1	30.2	30.0	30.0	30.6
17	30.7	31.3	....	30.4	30.9	31.0	31.0	30.2	30.1	30.0	30.0	30.6
18	30.7	30.9	....	30.6	31.0	30.8	31.0	30.2	30.2	30.0	30.0	30.4
19	30.8	30.7	....	30.5	31.0	30.9	31.0	30.2	30.4	29.9	30.2	30.8
20	30.8	30.7	....	30.8	30.6	30.9	30.9	29.9	30.6	29.7	30.4	30.8
21	30.6	30.6	30.6	30.8	30.1	30.9	30.9	29.9	30.6	29.6	30.5	30.0
22	30.9	30.6	31.0	30.6	29.9	31.0	30.3	30.4	30.5	29.5	30.5	30.5
23	30.9	30.6	31.0	30.4	29.9	31.0	29.9	30.6	30.0	29.6	30.1	30.6
24	30.5	....	30.5	30.5	30.1	31.0	30.0	30.6	30.0	29.6	30.2	30.4
25	30.4	....	30.1	30.4	30.3	30.8	30.1	30.5	30.0	30.0	30.3	30.4
26	30.7	....	30.4	30.6	30.3	30.9	30.1	30.2	30.4	30.0	29.8	30.0
27	30.7	....	30.7	30.7	30.0	30.8	30.0	30.0	30.4	29.8	30.4	30.3
28	30.6	....	30.7	30.7	29.9	31.0	30.1	30.2	30.5	29.2	30.4	30.3
29	30.4	....	30.7	30.0	30.3	31.0	29.9	30.3	30.5	29.5	30.3	30.1
30	31.0	....	30.6	30.2	30.3	31.0	29.7	30.8	30.4	29.5	30.3	29.9
31	31.0	....	30.5	....	30.5	....	29.6	30.8	....	29.5	....	30.0

Ph-15. Formerly NO-5 or S-3. U. S. Navy Department, Naval Base. Porter Ave. and Fourth St. East, League Island, Philadelphia. Lat. 39°53'20", long. 75°10'10". Drilled observation artesian well in sand and gravel of Pleistocene 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 28.06 below lsd, Sept. 22, 1947; lowest 32.89 below lsd, Mar. 31, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.3	30.3	....	30.3	30.3	30.5	30.6	29.3	29.8	29.5	29.0	30.3
2	30.2	31.0	....	30.0	30.3	30.5	30.7	29.3	29.8	29.3	29.0	30.1
3	30.1	31.1	....	30.1	30.0	30.5	30.7	29.3	29.6	29.4	28.6	30.1
4	30.4	30.7	....	30.3	30.0	30.2	30.7	29.4	29.5	29.4	28.7	30.1
5	30.7	30.6	....	30.6	30.0	30.4	30.4	29.4	29.6	29.4	29.1	29.8

Ph-15--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	30.7	30.7	....	30.6	30.0	30.6	30.7	29.2	29.7	29.5	29.3	30.1
7	30.3	30.6	....	30.6	30.1	30.8	30.7	29.0	29.7	29.5	28.9	30.2
8	30.3	31.0	....	30.4	30.3	30.8	30.7	28.9	29.9	29.4	29.9	30.2
9	30.6	31.3	....	30.2	30.3	30.8	30.5	29.1	29.8	29.6	....	30.1
10	30.6	31.3	....	30.4	30.4	30.6	30.7	29.2	29.6	29.7	....	30.0
11	30.6	31.0	....	30.5	30.4	30.5	30.8	29.4	29.7	29.5	....	30.0
12	30.9	30.4	....	30.5	30.2	30.7	30.8	29.3	29.8	29.8	....	29.8
13	31.1	30.7	....	30.3	30.5	30.7	31.0	29.2	29.8	30.0	29.9	30.6
14	31.0	31.0	30.0	30.4	30.7	30.5	31.0	29.2	29.8	29.9	30.0	30.7
15	30.0	31.3	30.2	30.4	30.7	30.6	30.9	29.5	29.7	29.5	30.1	30.4
16	30.6	31.3	30.6	30.2	30.6	30.8	30.6	29.4	29.6	29.4	30.1	30.8
17	30.7	31.2	30.8	30.2	30.8	30.8	30.8	29.6	29.5	29.5	30.1	30.8
18	30.6	30.8	30.9	30.6	30.9	30.6	30.9	29.7	29.6	29.5	30.1	30.6
19	30.7	30.7	30.8	30.4	30.9	30.6	30.9	29.7	29.8	29.3	30.3	30.9
20	30.7	30.6	30.6	30.8	30.6	30.6	30.8	29.4	30.0	29.1	30.5	30.9
21	30.6	30.6	30.6	30.8	30.1	30.6	30.5	29.4	30.0	29.1	30.6	30.1
22	30.9	30.6	30.9	30.6	29.9	30.7	29.8	29.7	30.0	29.0	30.5	30.6
23	30.9	....	30.9	30.4	29.8	30.7	29.3	29.9	29.5	29.0	30.1	30.7
24	30.5	....	30.4	30.4	30.1	30.8	29.3	29.9	29.5	28.9	30.3	30.5
25	30.3	....	29.7	30.4	30.2	30.5	29.4	29.8	29.4	29.3	30.4	30.5
26	30.6	....	30.0	30.6	30.2	30.6	29.4	29.6	29.8	29.4	29.9	30.0
27	30.6	....	30.6	30.7	30.0	30.6	29.3	29.3	29.8	29.2	30.4	30.3
28	30.6	....	30.6	30.7	30.0	30.8	29.4	29.5	30.0	28.7	30.4	30.3
29	30.3	....	30.6	30.1	30.2	30.8	29.3	29.6	30.0	28.9	30.3	30.1
30	30.9	....	30.5	30.2	30.2	30.8	29.2	29.7	29.9	28.9	30.3	29.9
31	30.9	....	30.4	30.4	30.4	30.4	29.0	29.7	29.7	28.9	30.0	30.0

Ph-16. Formerly NO-6 or S-4. U. S. Navy Department, Naval Base. Second St. East, and Preble Ave., League Island, Philadelphia. Lat. 39°53'30", long. 75°10'20". Drilled observation artesian well in sand and gravel of Pleistocene age, diameter 3 inches, depth 94 feet, cased to 52, screen 52-62. Land-surface datum is 10.63 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.1 foot. Highest water level 25.84 below lsd, Sept. 22, 1947; lowest 30.58 below lsd, Mar. 31, 1950. Records available: 1945-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.4	....	....	28.3	28.3	28.4	28.6	27.1	27.6	27.4	26.8	28.2
2	28.3	28.8	....	27.9	28.2	28.4	28.7	27.2	27.6	27.2	26.8	....
3	28.1	29.0	....	28.0	28.0	28.4	28.7	27.1	27.4	27.3	26.5	....
4	28.4	28.5	....	28.2	28.0	28.2	28.7	27.3	27.3	27.2	....	....
5	28.7	28.4	....	28.4	28.0	28.4	28.4	27.2	27.4	27.2	....	27.7
6	28.6	28.6	....	28.5	28.0	28.5	28.7	27.2	27.4	27.4	....	28.1
7	28.2	27.8	....	28.5	28.1	28.7	28.8	26.9	27.5	27.4	26.9	28.1
8	28.3	28.8	....	28.3	28.3	28.7	28.7	26.8	27.7	27.2	28.0	28.2
9	28.6	29.0	....	28.1	28.3	28.7	28.5	27.0	27.6	27.4	28.3	28.1
10	28.6	29.0	....	28.3	28.4	28.5	28.7	27.1	27.4	27.6	28.4	28.0
11	28.6	28.8	....	28.4	28.4	28.4	28.7	27.3	27.4	27.4	28.2	28.0
12	28.9	28.2	....	28.5	28.4	28.6	28.7	27.2	27.6	27.7	28.2	27.8
13	29.0	28.5	....	28.3	28.7	28.6	28.9	27.0	27.6	27.9	28.0	28.6
14	28.9	28.9	....	28.4	28.8	28.5	29.0	27.2	27.6	27.8	27.8	28.7
15	27.9	29.1	....	28.4	28.7	28.8	28.9	27.2	27.6	27.4	28.1	28.4
16	28.6	29.1	....	28.2	28.6	28.8	28.6	27.1	27.6	27.4	28.1	28.9
17	28.7	29.0	....	28.2	28.8	28.7	28.8	27.3	27.3	27.3	28.1	....
18	28.5	28.7	....	28.5	28.9	28.6	28.8	27.4	27.5	27.3	28.1	....
19	28.6	28.6	....	28.4	28.8	28.6	28.8	27.4	27.6	27.2	28.3	28.9
20	28.6	28.5	....	28.7	28.5	28.6	28.7	27.2	27.8	27.0	28.4	28.9
21	28.6	28.0	28.3	28.8	28.1	28.6	28.3	27.1	27.8	27.0	28.6	28.0
22	28.9	28.4	28.8	28.6	27.9	28.7	27.7	27.5	27.8	26.9	28.5	28.6
23	28.9	28.4	28.8	28.4	27.8	28.7	27.3	27.7	27.4	26.9	28.1	28.7
24	28.3	....	28.3	28.4	28.1	28.7	27.2	27.7	27.5	26.8	28.3	28.5
25	28.1	....	27.6	28.4	28.1	28.5	27.3	27.6	27.2	27.1	28.4	28.5
26	28.4	....	28.0	28.5	28.2	28.6	27.3	27.4	27.6	27.3	27.9	28.0
27	28.4	....	28.5	28.6	28.0	28.6	27.2	27.1	27.5	27.0	28.4	28.2
28	28.5	....	28.5	28.6	27.7	28.7	27.2	27.3	27.8	26.6	28.3	28.3
29	28.2	....	28.5	28.0	28.1	28.8	27.2	27.4	27.9	26.8	28.3	28.1
30	28.7	....	28.4	28.1	28.2	28.7	27.1	27.5	27.8	26.8	28.3	27.9
31	28.8	....	28.3	28.3	28.3	28.3	26.9	27.5	27.5	26.7	28.1	28.1

Ph-18. Formerly NO-8 or D-1. U. S. Navy Department, Naval Base. Patrol Rd., League Island, Philadelphia. 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 12.70 feet above msl. Mean daily range of fluctuation caused by tidal loading, 0.4 foot. Highest water level 33.30 below lsd, Nov. 25, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.2	45.4	46.8	38.4	44.6	48.6	42.7	49.0	49.2	46.4	45.4	43.2
2	43.8	46.5	47.0	44.4	44.6	48.0	44.3	48.8	46.2	47.0	45.0	39.1
3	44.1	45.7	46.2	44.4	44.7	41.9	44.3	47.8	41.8	47.4	44.0	43.2
4	44.8	41.3	43.2	45.7	44.7	46.1	43.9	46.1	47.2	47.2	39.1	41.7
5	45.2	45.3	44.8	44.6	43.5	48.2	45.0	42.9	48.5	47.2	44.8	45.1
6	43.8	45.4	46.1	44.7	41.0	49.3	46.2	46.0	48.8	46.2	45.4	45.1
7	42.2	45.2	46.4	44.6	45.8	49.3	46.2	46.9	48.8	41.8	45.1	45.1
8	....	45.7	46.8	39.4	45.2	49.0	40.0	47.6	48.0	46.5	45.8	43.3
9	44.9	45.8	47.7	42.5	43.8	48.3	45.8	47.7	43.3	46.7	45.6	41.4
10	45.9	45.8	45.9	46.3	44.4	40.4	47.2	48.5	45.9	46.7	45.1	41.3
11	46.6	44.1	44.6	46.0	44.5	46.5	47.2	47.2	47.4	46.0	37.0	45.6
12	46.3	45.9	44.0	45.9	44.7	48.3	48.5	43.0	47.8	45.6	36.3	46.5
13	46.1	46.7	45.7	46.1	41.0	48.0	48.3	47.7	49.1	44.4	42.8	46.2
14	44.0	46.4	45.0	45.6	45.9	48.2	47.5	49.3	48.6	41.6	43.5	46.7
15	42.6	46.8	46.3	....	47.1	48.7	41.9	49.5	46.3	45.4	44.4	44.6
16	44.0	47.4	46.8	....	47.9	47.4	46.8	49.6	43.9	45.6	44.2	40.2
17	45.1	47.3	45.9	....	48.9	40.8	48.4	49.9	47.6	46.9	43.0	43.3
18	44.7	44.5	44.0	....	48.9	46.1	48.7	49.3	47.1	46.6	41.0	45.9
19	44.8	44.4	44.3	43.4	47.0	48.0	48.6	41.5	48.1	44.3	42.1	47.5
20	44.4	46.5	45.7	44.5	39.2	48.0	47.8	47.3	48.8	43.3	44.2	46.6
21	39.8	46.5	46.6	44.5	45.2	48.6	47.8	48.8	48.8	40.0	46.0	45.0
22	44.1	46.1	46.4	38.0	46.2	48.8	41.1	49.2	45.2	44.2	44.3	43.6
23	44.4	44.9	46.7	44.5	47.0	48.8	46.5	49.1	39.8	45.4	43.5	42.4
24	44.6	45.4	44.4	44.1	45.9	44.5	48.2	48.1	45.9	46.7	42.3	40.7
25	45.5	45.7	38.3	44.9	46.2	47.4	48.6	46.0	47.0	47.0	38.6	37.2
26	45.5	42.2	45.2	45.3	44.8	48.6	47.5	40.4	47.7	47.1	43.0	41.1
27	....	45.6	45.4	46.2	41.4	48.5	48.4	47.4	47.7	46.0	43.9	42.7
28	....	46.1	45.7	42.0	45.7	48.0	48.0	49.0	47.8	40.2	45.4	44.3
29	....	....	46.2	37.7	47.6	47.4	....	48.7	47.1	44.7	45.7	45.0
30	....	....	46.6	44.8	46.0	47.0	....	49.5	41.8	45.6	45.0	43.8
31	44.7	....	45.4	....	47.0	....	....	50.1	....	45.7	....	43.2

Ph-19. Formerly NO-9 or D-2. U. S. Navy Department, Naval Base. Delaware Ave., League Island, Philadelphia. Lat. 39°53'10", long. 75°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 10.68 feet above msl. Mean daily range of fluctuation caused by tidal loading, 2.1 feet. Highest water level 29.55 below lsd, Nov. 25, 1950; lowest 61.0 below lsd, Mar. 11, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	55.2	43.1	51.7	58.5	49.0	59.5	58.4	54.8	53.0	49.2
2	....	53.8	55.2	50.7	51.8	56.8	51.4	57.7	52.4	55.9	e52.0	44.5
3	47.3	....	53.4	51.1	52.2	46.6	51.9	57.4	45.2	56.3	....	48.0
4	48.5	....	46.0	53.7	51.2	54.6	48.9	53.9	55.5	55.9	....	46.5
5	49.8	....	....	53.8	49.0	57.8	54.2	49.2	58.3	55.4	....	51.6
6	47.7	51.9	....	53.8	45.6	59.1	55.0	....	58.7	55.4	....	52.0
7	....	51.9	54.1	52.3	52.6	59.4	53.4	....	58.9	47.5	....	52.1
8	....	....	54.9	44.7	50.1	58.3	45.1	56.9	57.5	53.0	....	49.0
9	....	....	56.9	49.8	50.7	56.9	54.6	57.2	49.8	54.8	....	46.7
10	50.9	....	52.0	53.4	51.6	46.7	56.8	57.6	51.8	54.2	49.9	45.9
11	51.1	....	50.9	52.9	51.1	54.1	57.0	56.3	55.8	52.9	40.4	52.9
12	51.1	....	50.8	53.3	51.0	56.0	58.3	48.8	56.0	52.5	39.4	55.4
13	50.8	....	53.0	53.4	45.6	56.1	58.4	....	58.7	49.8	47.9	54.1
14	....	....	e53.1	53.0	54.2	56.7	56.8	....	57.6	44.9	e49.5	54.8
15	....	53.8	54.8	44.0	56.2	57.7	49.0	59.8	53.8	51.4	....	50.0
16	47.3	54.9	55.3	50.0	57.4	54.0	55.0	60.2	49.8	51.8	e52.0	56.8
17	49.0	54.1	53.4	52.7	59.1	45.0	58.2	60.8	55.8	54.8	47.9	50.4
18	47.9	49.4	48.9	50.7	58.7	53.8	59.2	59.3	56.5	53.0	45.5	54.2
19	48.1	49.4	49.8	49.1	54.1	56.8	56.9	49.6	57.7	51.3	47.3	56.0
20	47.8	53.8	....	49.2	44.3	56.6	57.6	56.6	58.5	48.8	49.4	54.9

Ph-19--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	....	53.6	54.2	49.1	53.4	58.3	56.2	e58.7	58.7	44.2	52.6	54.1
22	....	54.0	53.8	41.9	55.6	58.9	46.8	59.0	53.4	57.3	50.8	51.0
23	47.2	52.3	55.1	51.4	54.9	57.8	53.9	59.0	45.0	59.1	....	49.4
24	48.1	53.0	49.5	51.6	54.4	51.6	57.9	55.4	50.8	53.7	....	46.7
25	49.8	52.1	42.6	51.3	53.8	56.0	58.5	54.3	55.2	54.4	....	41.2
26	49.6	e48.2	52.4	53.5	52.4	57.0	57.3	45.8	56.2	55.0	....	44.7
27	49.7	53.7	51.7	53.1	46.5	57.4	58.5	54.7	55.8	53.6	....	49.2
28	....	53.5	53.0	50.1	53.8	57.5	58.3	58.0	57.6	44.9	52.4	52.1
29	....	....	54.3	42.8	56.7	56.4	50.7	57.8	55.4	51.6	52.8	52.4
30	48.4	....	54.5	51.3	53.5	56.2	54.3	59.2	46.7	53.1	50.6	51.5
31	51.7	....	52.6	....	55.0	....	57.9	59.6	....	53.8	....	50.2

e Estimated.

Ph-20. Formerly NO-10 or D-3. U. S. Navy Department, Naval Base. Third St. West, League Island, Philadelphia. Lat. 39°53'10", long. 75°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 13.26 feet above msl. Mean daily range of fluctuation caused by tidal loading, 1.7 feet. "Land-surface datum" beginning Jan. 1, 1951 is 3.2 feet lower than published records of prior years. Lowest water level 59.54 below lsd, Feb. 3, 1950. Records available: 1946-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	34.7	49.6	53.4	41.0	48.2	56.3	45.0	57.7	56.6	52.6	50.7	50.1
2	42.0	51.8	53.3	47.1	49.3	54.1	51.9	56.5	50.1	54.2	48.9	45.2
3	44.6	45.6	49.3	47.3	51.8	43.1	52.6	56.1	42.4	53.6	45.3	46.4
4	45.8	42.6	43.0	51.5	50.6	52.9	47.8	51.8	54.2	41.9	37.8	46.0
5	46.9	48.6	49.4	53.6	47.0	55.3	52.8	46.1	55.9	51.8	48.1	51.3
6	44.5	49.4	50.3	53.5	42.6	56.6	52.9	52.9	56.5	51.3	50.1	51.6
7	39.4	50.7	50.9	52.0	50.1	56.7	49.8	54.4	56.7	44.1	50.4	51.1
8	44.4	50.7	52.8	44.9	45.4	55.8	52.4	55.2	55.4	52.6	51.5	47.9
9	46.9	48.9	55.1	47.3	50.6	52.0	52.5	55.4	46.0	53.1	51.6	45.9
10	48.2	48.6	47.0	52.3	51.6	43.4	55.5	55.6	49.0	52.5	48.1	45.9
11	48.6	44.4	45.5	51.5	51.6	50.3	55.2	55.0	52.0	49.8	39.0	52.0
12	48.6	....	47.6	51.9	51.2	53.8	56.6	45.2	54.3	49.9	38.3	54.2
13	48.3	....	49.9	52.0	43.0	53.9	57.2	53.8	56.6	48.4	48.3	51.8
14	43.9	50.8	50.2	49.9	51.4	54.3	54.0	56.7	55.7	42.1	47.2	52.3
15	41.1	51.3	52.8	42.0	52.8	55.5	47.7	57.9	53.6	50.0	50.6	48.3
16	44.7	51.7	53.1	48.9	55.0	49.3	53.5	58.2	48.1	51.3	49.6	46.3
17	46.3	50.7	49.6	49.7	57.2	42.8	57.0	58.7	54.7	53.8	47.5	51.6
18	43.4	44.8	44.3	48.1	56.6	50.5	57.7	....	54.0	52.8	44.9	53.2
19	43.5	47.3	48.9	47.8	51.9	55.1	....	45.0	55.6	51.0	48.2	54.8
20	43.2	50.5	51.5	46.3	42.3	54.4	54.9	55.1	56.2	47.1	49.2	54.7
21	35.8	50.1	50.8	45.3	50.7	56.8	51.8	56.8	56.4	41.6	52.2	53.2
22	44.2	50.3	49.9	40.1	44.4	57.2	43.6	57.1	50.7	46.4	47.4	51.9
23	44.1	48.7	52.9	....	53.2	56.7	53.7	57.2	42.3	47.4	47.5	47.8
24	44.8	49.2	44.7	....	53.2	49.1	56.0	55.1	51.2	52.8	46.3	45.5
25	46.9	48.6	40.5	45.6	51.1	55.2	56.9	54.0	52.5	53.5	44.4	39.3
26	46.9	48.8	49.3	48.9	47.8	55.7	55.9	43.1	53.0	53.1	47.4	44.4
27	46.5	49.9	49.5	50.9	43.2	55.4	57.0	53.1	53.8	52.5	48.2	50.0
28	38.2	49.8	49.7	51.1	52.1	56.2	56.8	56.5	55.1	42.0	51.9	55.4
29	45.5	....	52.2	40.9	54.9	54.9	50.8	56.1	51.0	48.3	52.8	56.1
30	45.3	....	52.5	47.7	53.2	54.7	54.0	57.3	43.6	49.6	51.4	52.4
31	49.1	....	48.8	....	53.0	....	56.5	57.8	....	50.1	....	51.6

Ph-30. Formerly P-4. City of Philadelphia. Island Ave. at Philadelphia International Airport, Philadelphia. Lat. 39°52'40", long. 75°13'40". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 30 to 10 inches, depth 198 feet, cased to 117, screen 117-137. Land-surface datum is about 10 feet above msl. Highest water level 8.49 below lsd, Dec. 21, 1945; lowest water level 14.76 below lsd, Nov. 19, 1948. Records available: 1943-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	12.09	Feb. 21	11.10	Apr. 11	11.78	May 29	12.22
10	12.42	28	11.82	18	12.15	June 6	12.62
17	11.85	Mar. 7	11.82	25	12.09	13	12.67
24	11.92	14	11.57	May 2	12.36	20	12.73
31	11.90	21	11.47	9	12.57	27	12.76
Feb. 7	11.68	28	12.08	16	12.52	July 3	12.90
14	11.78	Apr. 4	11.31	23	12.55	11	13.09

Ph-30--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 18	13.11	Aug. 29	13.75	Oct. 10	14.04	Nov. 21	12.54
25	13.07	Sept. 5	13.73	17	13.54	28	12.49
31	13.33	12	13.97	24	13.84	Dec. 5	12.22
Aug. 8	13.39	19	13.85	31	13.41	12	12.30
15	13.52	26	13.97	Nov. 7	12.01	19	12.59
22	13.53	Oct. 5	13.87	13	12.43	26	11.27

Ph-61. Formerly P-3. City of Philadelphia. In 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 15.18 feet above msl. Highest water level 23.29 below lsd, Dec. 3, 1950; lowest 37.09 below lsd, June 16, 1950. Records available: 1943-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.1	29.1	29.9	25.7	28.3	31.2	31.2	34.3	33.7	29.6	29.4	28.8
2	27.9	30.1	30.3	28.1	28.3	30.9	31.9	34.0	30.9	30.2	29.3	26.8
3	....	29.6	29.4	28.3	28.9	27.5	32.5	33.7	....	30.9	28.2	28.4
4	28.8	27.0	27.8	29.1	28.9	29.7	31.6	31.1	....	30.5	25.6	27.8
5	29.0	29.0	28.4	29.5	27.7	30.8	30.8	29.1	31.5	30.4	29.0	29.6
6	28.7	29.2	29.6	29.9	26.4	33.7	32.8	31.6	31.8	30.3	29.6	29.7
7	26.5	29.1	29.7	29.8	29.0	31.4	30.3	32.8	31.8	27.6	29.2	29.7
8	27.2	29.1	30.1	26.3	28.6	31.4	29.3	32.9	31.3	30.3	30.0	28.8
9	28.8	29.3	31.0	28.0	28.5	30.4	31.8	33.6	28.9	30.5	30.0	27.6
10	29.7	29.3	29.2	30.0	29.0	26.7	33.4	33.8	29.3	30.4	29.1	27.6
11	30.0	28.1	28.4	29.5	29.0	30.3	33.4	32.8	30.7	29.9	25.0	29.8
12	30.0	29.8	28.3	29.4	28.7	....	34.2	29.3	31.0	30.0	24.7	30.5
13	29.9	30.2	29.4	29.4	26.6	34.7	34.4	33.2	32.0	29.2	28.2	30.1
14	28.4	30.0	28.8	29.1	28.9	35.0	32.0	....	31.8	27.1	28.2	30.5
15	26.8	30.4	29.8	25.9	29.7	35.5	29.2	34.6	31.5	29.6	29.2	28.8
16	27.9	30.5	30.0	28.3	30.3	33.4	32.2	34.5	29.1	29.9	28.9	27.6
17	28.9	30.4	29.1	29.4	31.6	31.2	34.3	35.0	30.7	30.9	28.2	29.5
18	28.6	28.5	27.5	28.6	31.2	33.9	34.4	35.0	31.0	30.8	27.4	30.2
19	28.7	28.1	28.9	28.6	31.2	35.0	33.4	32.3	31.4	29.7	28.3	31.3
20	28.5	29.7	29.2	28.0	28.1	35.2	....	32.7	31.8	28.9	29.3	31.1
21	26.2	29.7	29.7	27.9	28.8	35.6	....	....	31.9	26.8	30.4	30.0
22	27.7	29.6	29.4	25.2	29.5	35.2	....	34.3	30.2	29.2	29.9	29.3
23	28.4	28.6	30.0	....	29.6	34.0	....	34.0	26.8	29.7	28.6	28.5
24	28.4	28.8	27.8	....	29.3	32.1	....	33.8	....	30.6	28.0	27.0
25	29.2	....	25.4	28.2	29.3	34.6	34.3	32.2	....	30.8	26.8	25.0
26	29.2	....	29.1	28.2	28.5	34.8	33.5	29.2	30.9	30.8	....	27.6
27	29.2	....	28.8	29.1	26.4	35.3	34.0	33.0	30.9	30.5	....	28.9
28	26.8	29.2	29.0	28.6	....	34.3	31.6	33.7	31.3	26.6	30.1	30.2
29	28.2	....	29.7	25.4	30.6	33.5	30.1	34.2	30.9	28.9	30.6	30.5
30	28.7	....	29.7	27.9	29.8	33.1	32.7	34.7	27.5	29.5	29.8	29.3
31	28.6	....	28.8	....	29.9	....	34.0	34.7	....	29.6	....	28.8

Ph-85. Formerly P-5. U. S. Navy Department, Naval Hospital. Pattison Ave. and Broad St., Philadelphia. Lat. 39°54'20", long. 75°10'30". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 24 to 10 inches, depth 147 feet, cased to 108, screen 108-133. Land-surface datum is about 14 feet above msl. Highest water level 24.86 below lsd, Dec. 26, 1951; lowest 30.70 below lsd, Nov. 9, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	25.97	Apr. 11	25.78	July 11	26.17	Oct. 5	26.83
10	26.75	18	25.93	18	27.17	10	26.67
17	26.17	25	25.76	25	27.17	17	26.94
24	25.94	May 2	25.52	31	26.34	24	26.72
31	26.20	9	25.11	Aug. 8	26.87	31	26.06
Feb. 7	25.50	16	26.59	15	27.37	Nov. 7	25.63
14	26.77	23	25.90	22	27.49	13	24.92
21	27.35	29	26.02	29	27.20	21	26.30
Mar. 7	26.33	June 6	27.03	Sept. 5	27.27	28	25.88
14	25.72	13	27.27	12	26.84	Dec. 5	25.50
21	26.52	20	26.70	19	26.91	12	26.18
28	26.23	27	27.68	26	27.00	26	24.86
Apr. 4	26.26	July 3	27.04				

Ph-86. Formerly P-6. U. S. Navy Department, Naval Hospital. Pattison Ave. and 20th St., Philadelphia. Lat. 39°54'20", long. 75°10'40". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 24 to 10 inches, depth 151 feet, cased to 101, screen 101-126. Land-surface datum is about 14 feet above msl. Highest water level 23.73 below lsd, Apr. 8, 1946; lowest 29.19 below lsd, Nov. 9, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	24.91	Apr. 11	24.65	July 11	25.71	Oct. 5	25.73
10	25.50	18	24.62	18	25.74	10	25.63
17	25.10	25	24.45	25	25.76	17	25.93
24	24.89	May 2	24.24	31	25.17	24	25.64
31	25.06	9	24.00	Aug. 8	25.55	31	25.18
Feb. 7	24.54	16	25.01	15	25.95	Nov. 7	24.85
14	25.92	23	24.52	22	26.10	13	24.29
21	26.27	29	24.64	29	25.91	21	25.67
Mar. 7	25.16	June 6	25.36	Sept. 5	25.93	28	24.98
14	24.68	13	25.61	12	25.70	Dec. 5	24.68
21	25.01	20	25.36	19	25.75	12	25.18
28	25.01	27	26.01	26	25.94	26	24.17
Apr. 4	25.02	July 3	25.64				

Ph-248. Formerly P-8. McCahan Sugar Refinery. Water St., between Morris and Tasker Sts., Philadelphia. Lat. 39°55'30", long. 75°08'40". Drilled unused artesian well in sand and gravel of Cretaceous age, diameter 8 inches, depth 105 feet. Land-surface datum is about 13 feet above msl. Highest water level 31.55 below lsd, Dec. 26, 1951; lowest 61.57 below lsd, Sept. 16, 1944. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	48.81	Apr. 4	39.63	June 27	35.10	Sept. 19	35.55
10	49.31	11	38.84	July 3	35.12	26	35.77
17	50.31	18	39.66	11	34.32	Oct. 5	37.00
24	49.53	25	40.22	18	35.73	10	38.40
31	50.43	May 2	39.90	25	34.84	17	42.88
Feb. 7	46.67	9	45.18	31	39.58	24	34.76
14	50.60	16	50.88	Aug. 8	46.58	31	34.19
21	49.60	23	52.51	15	56.80	Nov. 13	34.26
28	52.40	29	52.35	22	55.97	21	39.67
Mar. 7	50.06	June 6	46.42	29	53.20	28	39.35
14	48.07	13	41.67	Sept. 5	35.77	Dec. 12	33.20
21	43.67	20	42.35	12	36.27	26	31.55
28	39.83						

Ph-249. Formerly P-9. Crown Paper Board Co., Inc. 1521 South Front St., 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 28.21 below lsd, Dec. 2, 1951; lowest 47.9 below lsd, May 18, 1951. Records available: 1947-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.2	42.1	45.8	34.4	37.3	43.3	32.3	40.7	37.9	36.6	32.2	35.4
2	43.5	41.4	45.9	35.8	36.1	41.2	33.4	40.6	34.2	33.4	32.1	29.6
3	43.7	41.3	44.2	37.7	39.2	38.6	33.3	40.3	33.0	34.4	31.3	35.1
4	43.4	41.1	42.0	36.4	39.3	40.6	32.4	42.6	33.7	36.9	30.2	36.2
5	44.8	40.0	41.9	36.8	37.6	41.2	32.2	38.3	33.9	37.2	31.2	36.1
6	44.7	41.7	44.1	37.6	35.4	41.6	33.2	38.9	33.7	32.8	31.6	37.1
7	42.9	42.7	44.5	36.7	40.0	39.9	32.5	42.1	35.3	32.4	30.7	35.0
8	43.1	43.8	42.5	34.3	41.2	40.6	32.2	43.4	33.5	37.0	32.9	31.8
9	44.0	44.5	44.2	35.7	40.9	40.6	32.0	44.4	33.4	38.7	32.4	29.4
10	43.8	44.6	44.2	37.2	39.4	36.5	32.6	43.6	35.2	36.7	31.2	30.8
11	45.1	43.4	38.4	35.6	40.6	36.9	34.1	44.0	34.2	32.3	29.2	31.7
12	45.8	43.9	41.2	37.1	40.2	38.4	32.9	38.8	33.7	32.4	33.2	31.9
13	45.2	45.1	42.8	37.5	37.2	38.4	33.0	43.4	33.7	32.5	35.7	32.4
14	43.1	44.9	43.1	34.6	40.8	37.2	33.0	44.8	34.8	31.1	35.9	34.5
15	42.8	46.2	41.4	32.8	44.7	39.8	33.0	43.9	33.0	33.0	36.7	31.3
16	45.0	46.0	43.6	35.1	46.1	39.1	33.4	41.9	32.4	35.3	36.1	30.7
17	44.8	45.6	42.9	37.2	47.4	31.6	33.6	43.4	33.4	36.8	35.7	30.9
18	44.2	44.6	35.0	35.8	47.9	31.3	33.3	39.5	33.8	36.4	30.1	31.0
19	44.1	43.7	38.5	37.3	46.2	31.3	32.9	37.3	34.8	36.2	35.3	32.0
20	43.5	44.5	40.9	39.1	40.6	32.1	33.1	42.7	36.7	32.3	36.9	31.7

Ph-249--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	41.5	44.2	39.0	35.6	44.4	32.5	33.1	44.3	38.4	32.9	37.2	30.6
22	43.2	44.2	37.5	33.5	46.0	32.7	32.7	44.2	34.5	36.0	35.7	31.1
23	43.7	44.0	37.7	36.2	46.0	32.2	33.0	42.8	34.0	32.8	32.1	30.5
24	44.3	44.1	37.6	38.5	46.0	32.0	32.8	43.9	38.2	32.8	30.7	30.0
25	44.6	43.4	35.0	36.7	46.9	33.1	32.8	44.1	33.2	32.9	29.7	29.9
26	44.6	43.7	35.7	39.3	46.5	33.4	32.3	38.9	33.9	32.4	34.2	30.8
27	43.8	45.3	37.9	39.3	44.0	34.1	32.7	40.8	33.7	31.9	36.8	31.0
28	42.9	46.3	36.7	36.4	45.5	33.1	33.0	42.6	37.6	30.6	36.5	30.6
29	42.6		37.1	33.7	46.6	32.9	33.0	42.4	33.3	32.0	36.9	30.5
30	44.8		37.8	37.9	44.9	32.9	36.2	42.2	32.7	32.3	36.6	29.4
31	44.9		36.4		43.4		39.9	39.6		32.0		29.9

Pike County

Pi-1. Formerly F5. Commonwealth of Pennsylvania. Delaware State Forest, near Bushkill. Location no. E23b-5022; lat. 41°10'30", long. 75°04'50". Dug unused water-table well in shale or sandstone of Catskill formation, diameter 24 inches, depth 32 feet. Land-surface datum is about 1,183 feet above msl. Clyde L. Raitt, Jr., voluntary observer. Highest water level 2.00 below lsd, Apr. 30, 1949; lowest 16.33 below lsd, Nov. 23, 1948. Records available: 1948-49, 1951. Oct. 24, 16.09; Nov. 8, 11.03.

Pi-2. Formerly F6. Commonwealth of Pennsylvania. Delaware State Forest, Edgemere. Location no. D24c-8002; lat. 41°15'20", long. 74°59'40". Drilled unused artesian well in shale or sandstone of Catskill formation, diameter 4 inches, depth 297 feet. Land-surface datum is about 1,310 feet above msl. Clyde L. Raitt, Sr., voluntary observer. Highest water level 28.10 below lsd, Jan. 10, 1949; lowest 34.35 below lsd, Oct. 17, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	30.71	Apr. 14	29.70	July 7	30.68	Oct. 6	32.24
13	30.68	21	29.95	14	30.83	14	31.97
20	30.48	28	30.11	21	30.89	20	31.98
27	29.98	May 5	30.27	28	30.20	27	31.93
Feb. 3	29.87	9	30.44	Aug. 4	31.25	Nov. 3	31.35
10	29.88	19	30.79	11	31.58	10	30.50
17	29.86	26	30.82	18	31.49	17	30.12
24	29.68	June 2	30.62	25	31.67	24	30.23
Mar. 3	29.86	9	30.63	Sept. 1	31.77	Dec. 1	30.32
12	29.93	16	30.77	8	32.05	8	30.08
17	30.01	23	30.76	15	31.89	15	30.04
24	29.81	25	30.75	22	31.92	22	29.95
31	29.49	30	30.69	29	31.91	29	29.94
Apr. 7	29.45						

Pi-3. Formerly F7. Commonwealth of Pennsylvania. Delaware State Forest, near Lords Valley. Location no. D23b-5615; 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. Measurements published for 1949 and 1950 should be increased by 7.0 feet. Fred Hatton, voluntary observer. Highest water level 16.38 below lsd, Apr. 1, 1950; lowest 38.76 below lsd, Oct. 23, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	21.70	Apr. 14	18.68	July 16	25.55	Oct. 20	30.56
20	21.18	21	19.90	28	28.10	27	25.13
27	19.32	28	21.30	Aug. 4	30.19	Nov. 3	18.86
Feb. 3	19.62	May 5	21.94	11	30.87	10	17.49
10	19.04	12	23.28	19	30.50	19	19.44
17	19.37	19	24.20	28	30.62	27	19.95
24	18.23	26	24.20	Sept. 10	31.44	Dec. 8	20.07
Mar. 3	20.06	June 18	21.96	23	33.49	15	20.68
10	20.18	23	22.65	Oct. 6	32.55	22	20.13
Apr. 1	16.76	25	22.52	14	29.70	29	20.26
7	18.23						

Schuylkill County

Sc-1. Formerly 72 or W4-913. Nick C. Donofrio. Pine Grove. Location no. G18c-5864; lat. 40°32'20", 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: 1931-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	18.60	Apr. 21	15.19	July 14	21.90	Oct. 13	24.79
20	15.00	22	14.47	21	22.20	20	24.76
27	14.90	29	15.35	28	22.27	27	24.15
Feb. 3	14.50	May 6	17.10	Aug. 4	22.90	Nov. 3	22.20
10	14.34	13	19.00	11	22.70	10	17.09
18	15.06	20	18.87	18	23.95	17	15.00
25	14.87	27	18.66	25	24.00	24	16.30
Mar. 4	14.37	June 2	17.78	Sept. 1	24.90	Dec. 1	15.17
11	15.55	9	20.68	8	25.00	8	12.06
18	12.62	17	19.07	15	24.50	15	15.66
25	13.16	24	19.90	24	25.48	22	16.00
Apr. 1	14.68	30	20.60	29	26.00	28	15.15
8	13.06	July 7	21.37	Oct. 6	25.30		

Sc-2. Formerly 127. Ira Kramer. Near Dreherstown. Location no. G19b-6156; lat. 40°38'40", long. 76°01'00". Dug unused water-table well in shale or sandstone of Cayuga group, diameter 4 feet, depth 11 feet. Land-surface datum is 512.16 feet above msl. Highest water level 6.05 below lsd, Feb. 5, 1951; lowest dry, Sept. 27, Oct. 14, 28, 1948, Aug. 10-26, 1949. Records available: 1948-51. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	6.35	Feb. 22	6.28	Apr. 26	6.42	July 4	6.39
5	6.32	Mar. 1	6.62	May 2	7.72	13	6.70
11	6.36	6	6.30	3	7.72	18	7.80
16	6.32	8	6.33	8	8.25	27	8.86
18	6.36	14	6.82	10	8.44	Aug. 2	7.78
25	6.28	16	6.42	17	9.04	9	8.86
30	6.44	21	6.30	24	8.80	15	6.72
Feb. 1	6.34	27	6.07	31	9.76	23	9.10
5	6.05	28	7.22	June 7	6.57	30	10.26
8	6.28	Apr. 5	6.64	14	7.24	Sept. 6	10.42
13	6.30	11	7.10	21	7.84	17	6.30
15	6.44	19	7.04	28	6.60	20	7.96

Sc-3. Formerly 129. John Perla. Near South Tamaqua. Location no. F20c-8234; lat. 40°45'20", long. 75°56'00". Dug unused water-table well in shale or sandstone of Chemung formation or Portage group, diameter 4 feet, depth 37 feet. Land-surface datum is about 835 feet above msl. Highest water level 12.41 below lsd, Dec. 12, 1950; lowest 29.56 below lsd, Nov. 10, 1948. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	21.41	Aug. 2	22.03	Oct. 15	26.79	Nov. 8	14.04
Feb. 27	18.34	Sept. 14	25.62	19	26.88	Dec. 4	22.06
May 2	22.09	Oct. 6	26.00	Nov. 2	27.00		

Sc-4. Formerly 130. Paul Fritz. Adamsdale. Location no. G19a-7963; 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 2.67 below lsd, Oct. 9, 1950; lowest 9.59 below lsd, Aug. 10, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	5.85	Mar. 19	4.07	June 11	7.38	Sept. 10	7.58
8	3.70	26	4.07	18	7.23	24	7.36
15	3.48	Apr. 9	3.62	25	7.55	Oct. 5	7.70
29	3.83	17	3.78	July 2	7.21	8	7.30
Feb. 8	4.20	24	4.32	16	7.02	15	6.48
13	4.22	May 1	5.04	27	6.47	22	7.22
19	4.15	7	5.68	Aug. 6	7.52	29	5.90
26	4.13	14	6.20	13	7.28	Nov. 26	4.46
Mar. 5	3.40	21	6.73	27	7.62	Dec. 4	5.00
12	4.21	28	7.10	Sept. 4	7.30	10	3.75

Sc-5. Formerly 132. George Mengle. Near Auburn. Location no. G19d-1216; lat. 40°36'20", long. 76°05'30". Dug unused water-table well in Marcellus shale, or shale or sandstone of Hamilton formation or Portage group, diameter 36 inches, depth 34 feet. Land-surface datum is about 490 feet above msl. Highest water level 24.34 below lsd, Dec. 11, 1950; lowest 30.09 below lsd, Dec. 20, 1949. Records available: 1948-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	25.50	Mar. 5	24.89	May 1	24.96	July 2	26.93
8	25.51	12	25.90	7	25.00	Oct. 15	29.31
15	25.12	19	25.12	14	25.34	26	29.42
22	25.67	Apr. 3	24.90	21	25.97	29	29.44
29	25.18	9	25.04	28	25.87	Nov. 14	27.10
Feb. 13	25.06	17	24.83	June 18	26.87	26	27.71
19	25.33	24	24.99	25	26.98	Dec. 10	26.48
26	25.30						

Somerset County

So-1. Formerly 16 or W5-901. N. B. Sanner. Markleton. Location no. K7c-0912; lat. 39°51'40", long. 79°13'30". Dug unused water-table well in weathered coal, shale or sandstone of Allegheny formation, diameter 18 inches, depth 19 feet, cased with tile. Land-surface datum is about 1,680 feet above msl. R. E. Carpenter, voluntary observer. Highest water level 11.02 below lsd, Apr. 12, 1948; lowest 16.99 below lsd, Sept. 24, 1944. Records available: 1931-51.

Jan. 7	12.98	Apr. 16	12.03	July 16	14.05	Oct. 8	16.48
14	13.01	18	12.46	23	14.26	15	16.52
22	13.18	22	12.70	30	14.50	22	16.65
23	13.01	May 1	12.10	Aug. 6	14.82	29	16.71
29	12.38	6	12.15	12	15.10	Nov. 5	16.73
Feb. 5	12.70	14	13.05	20	15.42	12	16.70
12	12.45	21	13.37	22	15.52	15	16.91
19	12.35	28	13.72	26	15.70	19	16.55
26	12.58	June 4	13.95	Sept. 3	15.95	26	15.26
Mar. 4	12.35	11	13.25	10	16.00	Dec. 2	15.96
12	12.85	18	13.15	17	16.10	10	15.50
19	12.55	25	13.25	24	16.25	17	16.05
26	12.75	July 2	13.40	Oct. 1	16.35	24	14.18
Apr. 2	11.72	9	13.70	2	16.39	30	14.80
9	12.30	11	13.87				

So-2. Formerly 115. U. S. National Park Service, Laurel Hill Recreational Area. Near Bakersville. Location no. J7c-8404; 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 2,040.39 feet above msl. Ray Martz, voluntary observer. Highest water level 32.35 below lsd, May 3, 1948; lowest 38.97 below lsd, Aug. 21, 1937. Records available: 1937-51.

Jan. 4	33.84	Apr. 9	33.25	July 9	33.86	Oct. 3	35.57
10	33.99	18	33.23	11	33.95	4	35.59
22	33.87	23	33.27	20	34.08	9	35.70
23	33.90	30	33.13	25	34.25	19	35.84
30	33.81	May 10	33.21	Aug. 2	34.45	25	35.92
Feb. 13	33.62	14	33.30	8	34.55	Nov. 3	35.97
20	33.56	21	33.32	14	34.79	8	35.86
26	33.50	28	33.26	22	35.15	14	35.86
Mar. 7	33.39	28	33.29	23	35.07	20	35.57
12	33.45	June 4	33.46	27	35.23	28	35.69
19	33.39	13	32.73	Sept. 8	35.38	Dec. 6	35.59
22	33.34	20	33.61	12	35.44	13	35.46
26	33.44	28	33.59	19	35.57	20	35.28
Apr. 4	33.24	July 2	33.69	25	35.54	27	35.18

Sullivan County

Su-1. Formerly 105 or W6-425. Carl D. Molyneux. Near Forksville. Location no. C17d-8117; 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, 1935-39, 1941, 1943-44, 1946-49, 1951. Records available: 1935-51.

Su-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	21.19	Apr. 7	22.59	July 7	25.79	Oct. 6	(f)
13	22.58	14	21.73	14	25.92	13	(f)
20	22.36	21	22.91	21	26.03	20	(f)
27	22.91	28	23.77	28	26.68	27	(f)
Feb. 3	23.28	May 5	24.61	Aug. 4	26.96	Nov. 3	(f)
10	22.14	12	24.44	11	(f)	10	25.77
17	23.06	26	24.83	18	(f)	17	25.08
24	22.25	June 2	24.94	25	(f)	24	24.72
Mar. 3	23.02	9	25.22	Sept. 1	(f)	Dec. 1	24.83
10	23.23	14	26.36	8	(f)	8	21.38
17	23.44	16	25.34	15	(f)	15	22.63
24	23.20	23	25.54	23	(f)	29	22.96
31	21.34	30	25.38	29	(f)		

f Dry.

Susquehanna County

Sq-1. Formerly 100 or W4-17. Carlton farm. 43 Prospect St. Montrose. Location no. B20c-2461; lat. 41°50'20", long. 75°52'50". Dug unused water-table well in sand 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 1.80 below lsd, Mar. 18, 1936; lowest 10.40 below lsd, Oct. 6, 13, 1939. Records available: 1930-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.46	5.65	7.46	3.60	6.88	9.49	....	8.87	9.03	9.69	10.05	7.54
2	7.54	4.66	7.63	3.67	6.99	9.50	....	8.89	9.08	9.71	10.05	7.46
3	7.55	e5.10	7.79	3.87	7.09	9.51	....	8.90	9.13	9.73	10.02	7.38
4	7.51	5.41	7.88	4.12	7.24	9.53	....	8.92	9.19	9.74	5.98	7.30
5	5.56	5.67	8.01	4.36	7.41	9.56	....	8.98	9.24	9.76	9.97	7.18
6	5.12	6.00	8.07	4.58	7.60	9.58	....	9.00	9.28	9.78	9.92	6.82
7	5.11	6.04	7.89	4.78	7.81	9.59	....	9.02	9.32	9.79	9.89	6.58
8	5.21	5.18	7.30	4.96	8.00	9.60	....	9.08	9.35	9.80	9.62	6.42
9	....	5.52	7.42	5.14	8.17	9.60	....	9.10	9.36	9.82	9.53	6.31
10	5.58	e6.00	7.54	5.37	8.32	9.63	8.14	9.14	9.37	9.83	9.45	5.97
11	5.66	6.36	7.61	5.56	8.45	9.64	8.14	9.18	9.38	9.85	9.36	5.73
12	....	6.52	7.66	5.68	8.55	9.64	8.16	9.21	9.39	9.87	9.28	5.60
13	e6.20	6.38	7.44	5.35	8.63	9.64	8.18	9.24	9.40	9.88	9.20	5.50
14	6.24	6.34	7.23	4.78	8.71	9.63	8.20	9.28	9.40	9.88	9.10	5.47
15	6.24	6.63	6.63	4.72	8.79	9.61	8.27	9.27	9.41	9.89	9.01	5.45
16	....	6.87	6.78	4.84	8.86	9.57	8.29	9.26	9.42	9.90	8.97	5.43
17	....	e7.05	e6.95	5.00	8.92	9.50	8.32	9.22	9.44	9.90	8.87	5.43
18	....	7.27	7.06	5.18	8.98	9.39	8.38	9.17	9.47	9.90	8.78	5.43
19	....	7.39	7.10	5.34	9.02	9.34	8.40	9.09	9.48	9.90	8.69	....
20	e5.50	6.83	6.72	5.56	9.06	9.29	8.44	9.04	9.46	9.91	8.62	....
21	5.09	6.43	6.14	5.79	9.09	9.23	8.49	8.98	9.50	9.97	8.57	5.57
22	....	5.82	6.22	5.94	9.13	9.17	8.50	8.94	9.52	9.98	8.47	4.96
23	....	6.17	6.27	5.99	9.18	9.12	8.53	8.89	9.54	9.99	8.39	4.79
24	....	6.46	6.02	6.12	9.22	9.07	8.59	8.88	9.57	10.00	8.30	4.80
25	....	6.64	5.08	6.20	9.24	....	8.63	8.88	9.59	10.01	8.12	4.83
26	....	6.84	5.26	6.31	9.28	....	8.69	8.85	9.61	10.02	8.04	4.87
27	e4.65	7.02	5.34	6.43	9.33	....	8.73	8.87	9.62	10.03	7.90	4.94
28	4.89	7.27	5.38	6.51	9.37	....	8.78	8.90	9.64	10.03	7.82	5.00
29	5.16	....	5.35	6.57	9.40	....	8.80	8.92	9.67	10.03	7.73	5.06
30	5.45	....	5.20	6.72	9.43	e8.50	8.82	8.97	9.67	10.04	7.62	5.10
31	5.54	....	3.72	....	9.47	....	8.84	9.00	....	10.04	....	....

e Estimated.

Tioga County

Ti-1. Formerly 106 or W6-495. Lewis Robert Kohler. Gaines. Location no. B13d-8436; lat. 41°45'00", long. 77°33'30". Dug standby 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 8.45 below lsd, Mar. 21, 1936; lowest 24.98 below lsd, Sept. 16, 1939. Records available: 1935-51.

Tl-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	15.74	Apr. 14	10.03	July 7	10.54	Oct. 6	22.39
13	14.55	21	11.13	14	13.12	13	22.45
20	14.96	28	12.04	21	15.52	20	22.55
27	10.58	May 5	13.94	28	18.30	27	22.66
Feb. 3	10.96	12	16.59	Aug. 4	21.18	Nov. 3	22.56
10	13.91	19	19.30	11	21.78	10	21.13
17	11.78	26	20.45	18	21.49	17	19.87
24	10.10	June 2	20.86	25	21.94	24	19.00
Mar. 3	11.33	9	20.40	Sept. 1	22.11	Dec. 1	19.31
10	10.36	13	19.90	8	22.05	8	13.20
17	9.85	16	18.80	15	22.95	15	12.65
24	11.27	23	19.28	22	22.95	22	13.20
31	8.65	30	11.80	29	22.25	29	11.46
Apr. 7	10.50						

Union County

Un-1. Formerly 122. D. R. Pursley. Laurelton. Location no. F15a-8127; 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 5.40 below lsd, Apr. 2, 16, Nov. 28, 1948; lowest 11.18 below lsd, Oct. 26, 1951. Records available: 1946-51.

Jan. 5	5.96	Mar. 30	6.21	June 14	5.56	Oct. 5	10.91
12	5.97	Apr. 7	6.22	23	7.23	26	11.18
19	6.38	13	6.25	29	7.63	Nov. 9	6.83
26	6.39	20	6.27	July 7	7.64	16	6.77
Feb. 2	6.39	27	6.26	14	8.24	26	6.78
9	6.44	May 4	6.53	19	8.26	30	6.78
16	6.45	11	6.52	27	8.98	Dec. 7	6.76
23	6.35	17	7.15	Aug. 17	8.99	14	6.79
Mar. 2	6.33	26	7.17	24	9.11	21	6.80
10	6.32	June 1	7.44	Sept. 28	10.91	28	6.78
24	6.34	8	7.45				

Washington County

Ws-1. Formerly 112. Albert Mankey. Formerly Mrs. J. B. Luellen. Amity. Location no. J3c-5924; 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 9.09 below lsd, June 22, 1946; lowest 34.84 below lsd, Oct. 1, 1938. Records available: 1936-51.

Jan. 6	12.50	Apr. 23	15.01	July 17	27.77	Oct. 2	31.80
12	11.70	30	12.86	24	27.70	17	31.91
20	12.10	May 7	14.17	Aug. 2	30.33	24	31.40
Feb. 27	12.93	16	14.91	13	31.40	Nov. 7	31.00
Mar. 8	11.31	30	20.41	28	32.07	13	30.41
17	11.82	June 11	17.31	Sept. 4	31.80	14	30.70
24	13.21	18	19.31	11	31.86	20	30.75
31	10.41	25	22.80	18	31.70	28	31.06
Apr. 8	12.91	July 3	20.36	26	31.75	Dec. 5	31.40
16	12.71	10	23.81				

Wayne County

Wn-1. Formerly 83 or W4-115. Arthur H. Tyce. Formerly F. C. and A. H. Tyce. Near Hawley. Location no. D23a-0933; 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, Oct. 25, Nov. 15 - Dec. 20, 1941. Records available: 1931-42, 1944-51.

Wn-1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	8.10	Apr. 14	5.63	July 7	12.00	Oct. 6	15.64
13	8.30	21	7.50	14	11.80	14	15.35
20	8.30	28	8.15	21	12.25	20	15.63
27	7.00	May 5	8.32	28	12.80	27	15.65
Feb. 3	6.30	12	9.25	Aug. 4	13.43	Nov. 3	14.30
10	5.95	19	9.80	11	14.23	10	13.25
17	5.68	26	10.15	18	14.50	17	12.70
24	4.50	June 2	10.33	25	14.85	24	12.30
Mar. 3	5.36	9	10.60	Sept. 1	14.99	Dec. 1	11.70
10	5.52	16	10.75	8	14.50	8	11.40
17	6.10	23	11.15	15	15.30	15	10.70
24	5.94	25	11.23	22	15.37	22	10.50
31	3.80	30	11.10	29	15.50	29	10.50
Apr. 7	5.76						

RHODE ISLAND

By W. B. Allen and D. J. Ryan

Scope of Water-Level Program

The observation-well program in Rhode Island was continued in 1951 in cooperation with the State Port and Industrial Commission. During the year the State cooperating agency was reorganized to the Rhode Island Development Council. One phase of the program includes the maintenance of a State-wide network of observation wells to determine the magnitude and character of water-level fluctuations, and the rate at which the underground reservoirs are being replenished by rainfall or depleted by seepage, evapotranspiration, or pumping from wells. At the end of 1950, the observation well program in Rhode Island included 53 wells. During 1951 water-level measurements in wells Foster 11 and Smithfield 116 were discontinued. At the end of 1951, the program included 51 wells. Of these wells, 4 were measured daily, 22 weekly, 20 monthly, and 5 were equipped with recording gages. The majority of these wells are finished in the glacial drift that mantles the bedrock throughout the State. About two-thirds of the water-level measurements show fluctuations caused by pumping, the rest show natural recharge or discharge. The locations of observation wells are shown in figures 29 and 30.

A reconnaissance report of ground-water conditions for the entire State was completed during the year and is being reviewed for publication. The report describes and illustrates by maps and diagrams the areal distribution and characteristics of the water-bearing deposits. Field work is about two-thirds completed for the detailed investigation of ground-water resources in the Crompton quadrangle and the monthly sampling of chloride content from two industrial pumping plants in the Woonasquatucket River Valley in Providence is being continued. A paper entitled "Technical investigation of additional ground-water supplies in Rhode Island" prepared in 1950, was published in the September Journal of the New England Water Works Association.

Precipitation

Average State-wide precipitation in 1951 was 45.13 inches, or about 5.6 inches more than in 1950 and about 2.5 inches above normal. The precipitation at Providence during the year was 49.02 inches or about 7.6 inches more than in 1950 and about 10.5 inches more than the normal for the preceding 47 years. In general, the temperatures for the State were 2 degrees above normal resulting in slightly above-average losses by evaporation and transpiration. In 1951, with greater precipitation than in the preceding year, conditions were more favorable for recharge of ground-water reservoirs and water levels were higher.

Interpretation of Water-Level Fluctuations

There was an average net rise of 1.73 feet in water levels in 47 wells during 1951, resulting in increased precipitation. A net drop for the year in two of the wells (East Greenwich 3 and Tiverton 31) resulted from pumping. The reason for the net decline in one well and no net change in another well is not apparent.

At the beginning of 1951, ground-water levels were normal or above because of above-normal precipitation from November 1950 through January 1951. From February through April, water levels ranged from normal to below normal. In the southeastern part of the State they reached the lowest recorded stages in March and April (5 years of record).

Above-normal precipitation in May slowed the seasonal decline in water levels that had started at the end of April. In nine wells water levels were above normal for May. Despite the deficient precipitation from June through October, the water levels were at normal stages and higher than in 1950. Heavy rains in November and December recharged the ground-water reservoirs. Thus the year closed with a net increase in ground-water storage.

Acknowledgments

The authors gratefully acknowledge the voluntary measurements made by many individuals on the following wells: Barrington 7; Coventry 32; Cranston 3, 4, 38-41; East Greenwich 3; Exeter 16; Lincoln 181, 337; North Kingstown 26-29; Providence 81, 82, 1111; South Kingstown 83; Tiverton 31, 47; and Warwick 33, 39, 40.

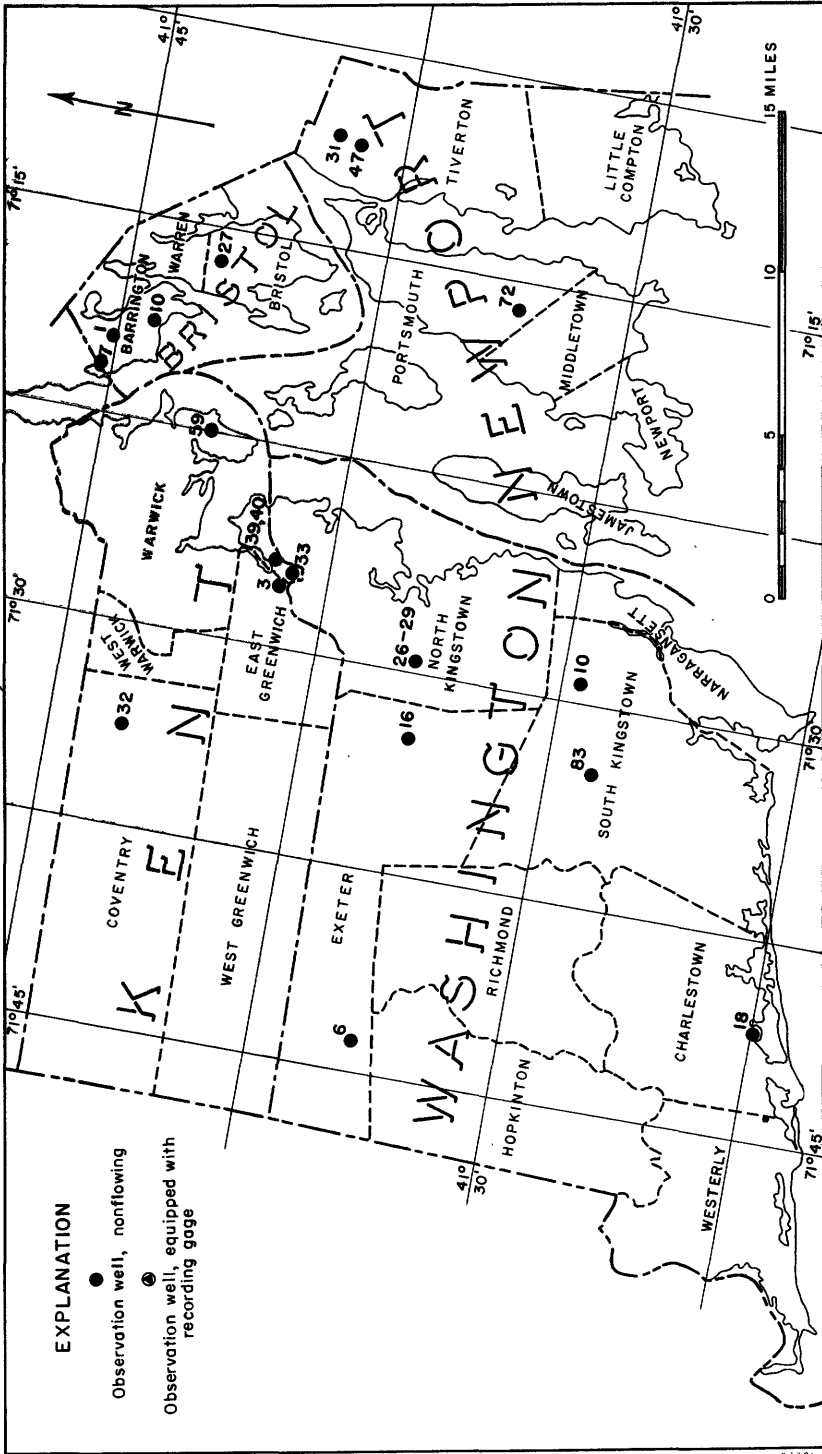


Figure 29. -- Location of observation wells in Bristol, Kent, Newport, and Washington Counties, R. I.

Well-Numbering System

The identifying symbols for wells in Rhode Island consist of the name of the town or city followed by a number, wells in each town or city being 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, May 29, 1948; lowest 46.92, Dec. 15, 1945. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	45.05	Apr. 26	43.80	July 27	44.93	Oct. 30	46.20
Feb. 28	44.39	May 28	44.02	Aug. 30	45.45	Nov. 29	45.57
Mar. 28	44.09	June 28	44.35	Sept. 25	45.84	Dec. 28	44.99

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 54 inches, depth 12 feet. Water level influenced by nearby pumping wells. Land-surface datum is about 15 feet above msl. Highest water level 4.99, June 1, 1948; lowest 10.91, Oct. 31, 1949. Records available: 1947-51.

Jan. 2	7.79	Apr. 2	6.60	July 16	7.43	Oct. 8	8.99
8	7.79	9	6.30	23	7.64	15	8.34
15	7.69	16	6.45	30	7.85	22	9.04
22	7.81	23	6.55	Aug. 6	8.03	28	9.04
29	7.73	30	6.77	15	8.07	Nov. 5	8.27
Feb. 7	7.73	May 7	6.86	20	8.17	13	8.11
10	6.89	14	6.91	27	8.36	18	7.99
19	6.88	21	7.11	Sept. 4	8.05	26	7.91
28	6.79	28	6.70	10	8.55	Dec. 3	7.83
Mar. 5	6.85	June 4	6.77	17	8.69	10	7.82
12	7.05	11	7.91	24	8.82	17	7.80
19	7.00	18	6.82	Oct. 1	8.94	24	7.18
26	6.65	25	7.10				

Barrington 10. Charles Douglas. Lat. 41°43'33", long. 71°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, June 30, 1948; lowest 37.25, Nov. 29, 1951. Records available: 1947-51.

Jan. 29	36.21	Apr. 26	34.11	July 27	34.95	Oct. 30	36.94
Feb. 28	36.31	May 28	34.35	Aug. 30	35.45	Nov. 29	37.25
Mar. 28	35.78	June 28	34.57	Sept. 25	35.79	Dec. 28	36.63

Bristol 27. H. T. Sullivan. Hope and Tupelo Sts. Lat. 41°42'14", long. 71°16'53". Dug unused water-table well in till, diameter 30 inches, depth 260 feet. Land-surface datum is about 120 feet above msl. Highest water level 9.21, Mar. 26, 1950; lowest 18.51, Oct. 30, 1951. Records available: 1949-51.

Jan. 29	11.04	Apr. 26	13.45	July 27	16.67	Oct. 30	18.51
Feb. 28	11.63	May 28	14.28	Aug. 30	17.45	Nov. 29	13.69
Mar. 28	11.67	June 28	15.30	Sept. 25	18.04	Dec. 28	10.61

Kent County

Coventry 32. Kent County Water Authority. Formerly Warwick and Coventry Water Co. Lat. 41°41'15", long. 71°33'48". Driven unused water-table well in sand and gravel, diameter 2½ inches, depth 34 feet. Water level influenced by nearby pumping wells. Land-surface datum is about 230 feet above msl. Highest water level 4.31, Mar. 28, 1949; lowest 11.65, Nov. 15, 1949. Records available: 1948-51.

Jan. 2	9.72	Apr. 4	5.31	July 16	8.07	Oct. 10	8.64
10	9.97	11	6.11	24	7.78	17	8.89
16	9.05	18	6.80	Aug. 1	8.01	24	8.94
24	8.41	24	6.79	7	8.05	30	10.85
30	8.74	May 2	7.68	15	7.89	Nov. 5	10.92
Feb. 7	7.76	8	8.09	22	7.99	14	10.08
13	7.32	16	7.62	28	8.42	21	9.62
21	6.48	23	8.13	Sept. 5	8.06	28	9.03
27	7.32	28	5.79	12	8.06	Dec. 12	8.95
Mar. 6	7.82	June 5	7.09	19	8.25	20	9.64
14	8.43	12	7.98	25	8.39	27	7.42
27	6.42	July 9	7.95	Oct. 2	8.47		

East Greenwich 3. Kent County Water Authority. Formerly East Greenwich Water Co. Lat. 41°38'06", long. 71°28'10". Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 107 feet. Water level influenced by nearby pumping well. Land-surface datum is about 34 feet above msl. Highest water level 4.0, Mar. 24, 26, 1949; lowest 23.5, Aug. 15 to Sept. 11, 1944. Records available: 1944-47, 1949-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.0	8.5	8.5	9.0	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
2	9.0	8.5	8.5	9.0	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
3	9.0	8.5	8.5	9.0	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
4	9.0	8.5	8.5	9.0	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
5	9.0	8.5	8.5	9.2	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
6	9.0	8.5	8.5	9.2	9.7	11.3	12.2	12.5	12.8	13.0	10.5	10.3
7	9.0	8.5	8.5	9.2	9.7	11.4	12.2	12.5	12.8	13.0	10.5	10.3
8	9.0	8.5	8.5	9.2	9.7	11.4	12.2	12.5	12.8	13.0	10.5	10.3
9	9.0	8.5	8.5	9.3	9.7	11.4	12.3	12.6	12.8	13.0	10.5	10.3
10	8.9	8.5	8.7	9.3	9.7	11.4	12.3	12.6	12.8	13.0	10.4	10.3
11	8.9	8.4	8.7	9.3	9.8	11.5	12.3	12.6	12.8	13.0	10.4	10.3
12	8.9	8.4	8.7	9.3	9.8	11.5	12.3	12.6	12.8	13.0	10.4	10.3
13	8.9	8.4	8.7	9.3	9.8	11.5	12.3	12.6	12.8	12.0	10.4	10.3
14	8.9	8.4	8.7	9.3	9.8	11.7	12.3	12.6	12.8	12.0	10.4	10.3
15	8.8	8.4	8.8	9.3	9.8	11.7	12.3	12.7	12.8	12.0	10.4	10.3
16	8.8	8.4	8.8	9.4	9.8	11.7	12.3	12.7	12.8	12.0	10.4	10.3
17	8.8	8.4	8.8	9.4	9.8	11.7	12.3	12.7	12.9	12.0	10.4	10.2
18	8.8	8.4	8.8	9.4	9.8	11.7	12.3	12.7	12.9	12.0	10.4	10.2
19	8.8	8.4	8.8	9.4	10.0	11.7	12.4	12.7	12.9	12.0	10.4	10.2
20	8.8	8.4	8.8	9.5	10.0	11.8	12.4	12.7	12.9	12.0	10.3	10.2
21	8.7	8.4	8.8	9.5	10.0	11.8	12.4	12.7	12.9	11.5	10.3	10.2
22	8.7	8.4	8.8	9.5	10.0	11.8	12.4	12.8	12.9	11.5	10.3	10.2
23	8.7	8.4	8.9	9.5	10.1	11.8	12.4	12.8	12.9	11.5	10.3	10.1
24	8.6	8.5	9.0	9.5	10.1	12.0	12.4	12.8	12.9	11.5	10.3	10.1
25	8.6	8.5	9.0	9.5	10.1	12.0	12.4	12.8	12.9	11.3	10.3	10.1
26	8.6	8.5	9.0	9.5	10.1	12.0	12.5	12.8	13.0	11.3	10.3	10.1
27	8.5	8.5	9.0	9.5	10.1	12.0	12.5	12.8	13.0	11.3	10.3	10.0
28	8.5	8.5	9.0	9.5	10.1	12.0	12.5	12.8	13.0	11.3	10.3	10.0
29	8.5	8.5	9.0	9.5	10.1	12.0	12.5	12.8	13.0	11.3	10.3	10.0
30	8.5		9.0	9.7	10.1	12.2	12.5	12.8	13.0	10.5	10.3	10.0
31	8.5		9.0		10.3		12.5	12.8		10.5		10.0

Warwick 33. Kent County Water Authority. Formerly East Greenwich Water Co. Lat. 41°38'08", long. 71°28'05". Drilled public-supply water-table well in sand and gravel, diameter 18 inches, depth 118 feet. Water level influenced by nearby pumping well. Land-surface datum is about 32 feet above msl. Highest water level 5.0, Dec. 27, 1945; lowest 23.5, Aug. 16 to Sept. 12, 1944. Records available: 1944-47, 1949-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.0	7.5	7.5	8.0	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
2	8.0	7.5	7.5	8.0	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
3	8.0	7.5	7.5	8.0	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
4	8.0	7.5	7.5	8.0	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
5	8.0	7.5	7.5	8.2	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
6	8.0	7.5	7.5	8.2	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3
7	8.0	7.5	7.5	8.2	8.7	9.4	10.2	10.5	10.8	11.0	8.5	8.3
8	8.0	7.5	7.5	8.2	8.7	9.4	10.2	10.5	10.8	11.0	8.5	8.3
9	8.0	7.5	7.5	8.3	8.7	9.4	10.3	10.6	10.8	11.0	8.5	8.3
10	7.9	7.5	7.7	8.3	8.7	9.4	10.3	10.6	10.8	11.0	8.4	8.3
11	7.9	7.4	7.7	8.3	8.8	9.5	10.3	10.6	10.8	11.0	8.4	8.3
12	7.9	7.4	7.7	8.3	8.8	9.5	10.3	10.6	10.8	11.0	8.4	8.3
13	7.9	7.4	7.7	8.3	8.8	9.5	10.3	10.6	10.8	10.0	8.4	8.3
14	7.9	7.4	7.7	8.3	8.8	9.7	10.3	10.6	10.8	10.0	8.4	8.3
15	7.8	7.4	7.8	8.3	8.8	9.7	10.3	10.7	10.8	10.0	8.4	8.3
16	7.8	7.4	7.8	8.4	8.8	9.7	10.3	10.7	10.8	10.0	8.4	8.3
17	7.8	7.4	7.8	8.4	8.8	9.7	10.3	10.7	10.9	10.0	8.4	8.2
18	7.8	7.4	7.8	8.4	8.8	9.7	10.3	10.7	10.9	10.0	8.4	8.2
19	7.8	7.4	7.8	8.4	9.0	9.7	10.4	10.7	10.9	10.0	8.4	8.2
20	7.8	7.4	7.8	8.5	9.0	9.8	10.4	10.7	10.9	10.0	8.3	8.2
21	7.7	7.4	7.8	8.5	9.0	9.8	10.4	10.8	10.9	9.5	8.3	8.2
22	7.7	7.4	7.8	8.5	9.0	9.8	10.4	10.8	10.9	9.5	8.3	8.2
23	7.7	7.4	7.9	8.5	9.1	9.8	10.4	10.8	10.9	9.5	8.3	8.1
24	7.6	7.5	8.0	8.5	9.1	10.0	10.4	10.8	10.9	9.5	8.3	8.1
25	7.6	7.5	8.0	8.5	9.1	10.0	10.4	10.8	10.9	9.3	8.3	8.1

Warwick 33--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	7.6	7.5	8.0	8.5	9.1	10.0	10.5	10.8	11.0	9.3	8.3	8.1
27	7.5	7.5	8.0	8.5	9.1	10.0	10.5	10.8	11.0	9.3	8.3	8.0
28	7.5	7.5	8.0	8.5	9.1	10.0	10.5	10.8	11.0	9.3	8.3	8.0
29	7.5		8.0	8.5	9.1	10.0	10.5	10.8	11.0	9.3	8.3	8.0
30	7.5		8.0	8.7	9.3	10.2	10.5	10.8	11.0	8.5	8.3	8.0
31	7.5		...		...		10.5	10.8		8.5		8.0

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. Water level influenced by nearby pumping well. Land-surface datum is 35.9 feet above msl. Highest water level 9.8, Mar. 21, 1948; lowest 39.8, Sept. 10, 1944. Records available: 1943-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.7	11.4	10.6	10.8	10.8	11.3	12.6	a25.8	15.8	16.3	16.6	12.8
2	11.7	11.3	10.7	10.8	10.8	11.3	12.5	a25.8	15.3	16.3	16.6	12.8
3	11.7	11.0	10.9	10.8	10.8	11.3	a23.8	a25.8	15.3	16.8	16.5	13.0
4	11.7	11.0	10.9	10.8	10.8	11.3	12.4	a25.8	15.3	16.8	a25.2	12.9
5	11.7	11.0	10.8	10.8	10.8	11.3	13.0	15.3	a26.8	16.8	a25.2	12.8
6	12.0	11.0	10.8	10.8	10.7	11.3	13.0	a25.7	a26.8	16.8	a25.2	a25.3
7	12.0	11.0	10.8	10.8	10.7	11.3	13.0	a25.7	15.8	16.8	a25.2	12.8
8	11.6	11.0	10.8	10.8	10.8	11.3	12.3	a25.6	15.7	16.8	18.8	13.3
9	11.8	11.0	10.8	a21.0	10.9	11.3	12.8	a25.6	15.4	16.8	13.8	13.3
10	11.8	10.9	10.8	a21.0	11.8	11.3	a24.8	a25.6	15.4	a26.6	13.3	13.3
11	11.8	10.9	10.8	a21.1	11.7	11.3	a24.8	15.3	a26.5	a26.6	13.3	13.0
12	11.8	10.9	10.7	a21.0	11.7	11.3	a24.9	15.3	a26.5	a26.6	13.3	13.0
13	11.8	10.9	10.7	a21.0	11.3	12.3	a24.9	a26.9	a26.5	a26.6	13.3	13.0
14	11.7	10.9	10.7	10.8	11.3	12.3	12.7	a26.9	a26.5	16.3	13.3	13.0
15	11.6	10.9	10.8	10.8	11.6	12.3	12.7	a27.0	15.8	16.3	13.3	13.0
16	11.7	11.0	10.9	10.8	11.8	12.3	a25.4	a27.0	16.3	a26.6	13.3	13.0
17	11.6	11.0	10.9	10.8	11.8	12.3	a25.4	a26.8	a26.5	a26.6	13.3	a23.4
18	11.7	11.0	11.0	10.8	11.8	12.3	a25.5	16.0	a26.5	16.8	13.3	a24.1
19	11.3	11.0	11.0	10.8	11.8	12.3	a25.4	15.8	15.8	16.8	12.9	a24.1
20	11.3	11.0	11.0	10.8	11.8	a22.7	a25.4	a25.8	15.8	16.7	13.0	12.8
21	11.3	10.8	11.0	10.8	11.8	a22.8	a25.4	a25.8	a26.5	16.7	13.0	12.8
22	11.6	10.8	10.8	10.7	11.7	a22.9	14.3	a25.8	15.8	a27.8	13.0	12.8
23	11.6	10.6	10.8	10.7	11.7	12.8	a25.0	a25.8	15.8	17.3	12.8	11.6
24	11.6	10.6	10.6	10.7	11.6	12.3	a25.4	a25.8	a26.5	17.3	12.8	11.6
25	11.3	10.6	10.4	10.8	11.4	12.3	a25.4	a25.8	a26.6	17.0	12.8	11.6
26	11.3	10.6	10.4	10.8	11.3	12.5	a25.4	14.4	a26.6	16.3	12.8	11.6
27	11.3	10.6	10.4	10.8	11.3	a23.8	a25.4	14.4	a26.6	16.3	12.8	11.6
28	11.3	10.6	10.4	10.8	11.3	a23.8	a25.4	14.4	a26.6	16.6	12.8	11.3
29	11.2	10.4	10.8	11.3	a23.8	a25.4	14.4	16.3	a25.2	12.8	11.5	
30	11.3	10.5	10.8	11.3	a23.8	a25.5	15.8	16.3	a25.2	12.8	11.5	
31	11.3	11.0			11.3		a25.6	15.8		...		11.5

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. Water level influenced by nearby pumping well. Land-surface datum is 31.4 feet above msl. Highest water level 4.5, Apr. 2, 1948; lowest 22.6, Sept. 6, 1944. Records available: 1943-51.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.6	7.6	7.0	7.5	7.3	7.8	8.0	10.8	11.8	12.0	11.8	8.3
2	8.7	7.6	7.0	6.8	7.3	7.8	8.0	10.8	11.8	11.8	11.9	8.3
3	8.7	7.6	7.6	6.8	7.3	7.7	9.0	10.8	11.8	12.8	11.9	8.3
4	8.7	7.6	7.6	6.8	7.3	7.7	9.0	10.8	11.8	12.8	j8.1	8.3
5	8.8	7.6	7.6	6.8	7.3	7.7	9.3	10.8	11.8	12.8	j8.1	8.3
6	8.8	7.8	7.6	6.8	7.3	7.8	9.3	10.8	12.0	12.8	11.8	8.8
7	8.8	7.8	7.6	6.8	7.3	7.8	9.4	11.8	12.0	12.8	11.8	8.8
8	8.8	7.8	7.6	6.8	7.2	7.8	9.3	11.8	12.0	12.8	9.3	8.3
9	8.3	7.8	7.8	6.9	7.3	7.8	9.8	11.3	11.3	12.8	9.8	9.3
10	8.3	7.8	7.8	7.0	8.0	7.8	9.8	11.3	11.3	12.8	9.8	8.3
11	8.3	7.8	7.5	7.1	7.8	7.8	9.8	11.3	11.3	12.8	9.3	8.3
12	8.3	7.8	7.5	7.1	7.8	7.8	10.1	11.3	11.3	12.8	9.3	9.0
13	8.3	7.8	7.6	7.1	7.8	7.8	10.1	11.3	11.6	12.8	9.3	9.0
14	8.3	7.7	7.6	7.3	7.8	7.8	10.2	11.3	11.6	12.8	9.3	9.0
15	8.3	7.7	7.6	7.3	7.8	7.8	10.5	11.3	11.6	12.3	9.3	8.9

Warwick 40--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	8.3	7.7	7.6	6.3	8.0	7.8	10.5	12.6	11.6	12.3	9.3	8.9
17	8.3	7.8	7.6	6.3	8.0	7.8	10.5	12.6	11.8	12.3	9.3	8.9
18	8.3	7.8	7.5	7.3	8.0	7.7	10.5	12.6	11.8	12.3	9.3	9.4
19	8.3	7.0	7.5	7.3	8.0	7.7	10.5	11.8	11.8	12.3	8.8	9.4
20	8.3	7.0	7.5	7.3	8.0	7.7	10.5	11.8	11.8	12.3	8.8	9.4
21	8.3	7.0	7.5	7.2	7.8	7.7	10.8	11.8	11.8	12.3	8.8	8.0
22	8.0	7.0	7.5	7.2	7.7	7.8	10.8	11.8	11.8	12.3	8.8	7.3
23	8.0	7.0	7.5	7.2	7.7	7.8	10.8	11.8	11.8	13.0	8.7	7.3
24	8.0	7.0	7.4	7.2	7.8	7.8	10.8	10.3	11.8	13.0	8.8	7.3
25	8.0	6.9	7.3	7.2	7.7	8.8	10.8	10.3	11.8	13.0	8.8	7.3
26	7.6	7.0	7.4	7.2	7.8	8.0	10.8	10.3	11.8	13.0	8.8	7.3
27	7.6	7.0	7.4	7.2	7.8	9.3	10.8	10.3	11.8	11.8	8.8	7.3
28	7.6	7.0	7.4	7.3	7.8	9.3	10.8	10.3	12.0	11.8	8.8	7.3
29	7.5		7.4	7.3	7.8	9.3	10.8	10.6	12.0	11.8	8.3	7.7
30	7.5		7.4	7.3	7.8	9.3	10.8	10.3	12.0	j8.1	8.3	7.7
31	7.6		7.5		7.8		10.8	11.8		11.8		7.7

j 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 4.42, Mar. 29, 1950; lowest 24.77 Oct. 31, 1949. Records available: 1945-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	4.58	Apr. 27	4.94	July 27	9.58	Oct. 31	17.25
Feb. 26	4.63	May 29	4.49	Sept. 4	12.99	Nov. 30	7.38
Mar. 30	4.80	June 29	6.06	26	14.78	Dec. 28	4.62

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, Feb. 20, 1948; lowest 29.94, Nov. 22, 1949. Records available: 1947-51.

Jan. 2	21.83	Apr. 10	12.99	July 10	21.35	Oct. 9	26.34
9	19.47	17	15.88	17	19.70	16	26.63
16	17.57	24	17.20	24	21.04	23	26.82
23	15.87	May 1	17.67	31	22.06	30	26.92
30	15.21	8	18.14	Aug. 8	22.78	Nov. 6	25.74
Feb. 6	13.66	15	18.76	15	23.37	13	23.89
13	12.79	22	19.24	21	23.62	20	22.01
20	14.68	29	19.49	28	23.98	27	20.25
27	13.74	June 5	19.57	Sept. 4	24.33	Dec. 4	19.05
Mar. 6	15.59	12	19.71	11	24.68	11	18.32
13	16.08	19	20.06	18	25.08	18	18.00
20	16.43	26	20.45	25	25.54	26	13.07
27	13.79	July 3	20.88	Oct. 2	25.98	31	14.15
Apr. 3	14.36						

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. Water level influenced by nearby pumping wells. Land-surface datum is about 250 feet above msl. Highest water level flowing 1948, 1949, 1951; lowest 12.37, Aug. 26, 1950. Records available: 1947-51.

Jan. 8	+2.93	Apr. 9	c1.83	July 15	+0.14	Oct. 8	c7.66
13	+2.93	15	c+1.14	22	+ .03	13	5.05
22	+3.18	21	c+1.06	29	.72	20	c8.02
26	(k)	28	c.41	Aug. 6	1.37	27	c7.38
Feb. 3	(k)	May 6	+2.38	12	1.82	Nov. 3	c5.55
11	(k)	13	c.59	19	1.95	17	+1.54
17	(k)	27	+2.20	27	2.88	25	c.38
25	(k)	June 3	+2.14	Sept. 4	c6.70	Dec. 2	+2.07
Mar. 3	(k)	10	+2.11	10	4.00	9	c+.16
12	(k)	17	c.89	17	c6.40	15	+2.33
17	c+1.20	24	c.65	24	c6.69	22	c+1.20
25	c+2.22	July 8	c.99	30	c7.79	30	c+.61
Apr. 2	(k)						

c Nearby well being pumped.

k 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. Water level influenced by nearby pumping wells. Land-surface datum is about 160 feet above msl. Highest water level flowing, 1948; lowest 16.88, Oct. 16, 1948. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	d+0.23	Apr. 15	0.47	July 22	8.20	Oct. 13	14.02
26	.07	21	.56	29	8.70	20	14.23
Feb. 3	d+.82	28	.37	Aug. 6	d7.05	27	14.24
11	.03	May 6	.62	12	10.30	Nov. 3	13.52
17	.51	13	.30	19	11.74	17	.24
25	.24	27	.90	27	11.30	25	.75
Mar. 3	.46	June 3	.99	Sept. 4	12.69	Dec. 2	.94
12	.29	10	1.04	10	11.79	9	.77
17	.27	17	1.03	17	11.61	15	2.73
25	.09	24	.97	24	13.27	22	1.57
Apr. 2	.84	July 8	5.76	30	15.20	30	.70
9	+ .37	15	7.10	Oct. 8	13.53		

d Nearby well pumped recently.

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 5.23, Dec. 27, 1951; lowest 13.39, Oct. 28, 1949. Records available: 1947-51.

Jan. 31	6.15	Apr. 30	6.91	July 26	10.32	Oct. 30	10.05
Mar. 2	5.89	May 28	6.51	Aug. 31	9.92	Nov. 29	5.48
29	5.68	June 28	8.47	Sept. 25	11.26	Dec. 27	5.23

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. Measurements made ½ hour after pump shut off. Land-surface datum is 65.29 feet above msl. Highest water level 24.5, Aug. 26, 1938; lowest 34.7, Apr. 8, 1951. Records available: 1938-51.

Jan. 7	29.8	Apr. 8	a34.7	July 8	29.0	Oct. 7	29.9
14	29.5	15	27.6	15	28.8	14	29.8
21	29.6	22	27.4	22	29.2	21	29.7
28	a36.3	29	27.0	29	28.7	28	29.7
Feb. 4	29.7	May 6	27.6	Aug. 5	28.5	Nov. 4	30.4
11	29.5	13	27.6	12	28.6	11	30.5
18	28.5	20	27.4	19	28.6	18	30.0
25	28.4	27	27.9	26	28.4	25	29.9
Mar. 4	28.1	June 3	27.6	Sept. 2	30.0	Dec. 2	29.4
11	28.1	10	27.5	9	28.5	9	29.4
18	28.0	17	28.7	16	28.8	16	29.2
25	27.5	24	28.9	23	28.6	23	29.2
Apr. 1	27.7	July 1	28.4	30	30.0	30	29.0

a Pumping.

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. Measurements made ½ hour after pump shut off. Land-surface datum is 65.57 feet above msl. Highest water level 22.3, June 22, 1939; lowest 36.7, Jan. 2, 9, 16, 23, 1949. Records available: 1939-51.

Jan. 7	31.7	Apr. 8	29.6	July 8	31.7	Oct. 7	33.1
14	31.2	15	29.6	15	32.5	14	32.9
21	31.6	22	34.6	22	32.4	21	33.1
28	31.4	29	29.7	29	32.9	28	32.9
Feb. 4	31.7	May 6	30.2	Aug. 5	32.1	Nov. 4	32.9
11	31.2	13	29.6	12	32.3	11	32.7
18	31.2	20	30.0	19	33.2	18	32.4
25	31.3	27	30.1	26	33.1	25	33.0
Mar. 4	31.0	June 3	30.2	Sept. 2	32.9	Dec. 2	31.9
11	31.2	10	30.3	9	32.4	9	32.3
18	30.0	17	31.2	16	32.2	16	32.1
25	29.9	24	31.4	23	32.3	23	31.4
Apr. 2	31.2	July 1	31.9	30	33.2	30	31.1

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. Water level influenced by nearby pumping wells. Land-surface datum is 68.91 feet above msl. Lowest water level 34.0, Sept. 4, 11, 1949. Records available: 1938-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.74	31.36	31.20	30.02	30.13	30.75	31.13	32.21	32.42	32.62	32.85	31.59
2	31.91	31.29	30.85	30.14	30.33	30.66	31.23	32.26	32.26	32.77	32.59	31.52
3	32.24	31.23	30.67	30.43	30.44	30.36	31.45	32.14	32.12	32.83	32.47	31.74
4	32.41	31.14	30.56	30.60	30.33	30.45	31.36	31.88	32.29	32.80	32.33	31.97
5	32.48	31.04	30.79	30.70	29.97	30.82	31.29	31.76	32.51	32.57	32.51	32.03
6	32.33	31.01	31.12	30.73	29.82	31.00	31.53	31.93	32.62	32.49	32.73	31.93
7	31.98	31.17	31.23	30.73	30.00	31.08	31.48	32.93	32.56	32.44	32.82	31.69
8	32.05	31.14	31.23	30.68	30.33	30.97	31.20	32.35	32.32	32.58	32.87	31.55
9	32.31	30.95	31.06	30.57	30.55	30.60	31.31	32.43	32.20	32.74	32.73	31.46
10	32.44	30.86	30.57	30.55	30.61	30.40	31.61	32.38	32.42	32.77	32.40	31.66
11	32.46	30.77	30.26	30.63	30.42	30.60	31.76	32.07	32.66	32.69	32.21	31.84
12	32.15	30.68	30.07	30.68	30.10	30.98	31.83	31.94	32.78	32.51	32.07	31.92
13	31.90	31.00	29.94	30.38	29.91	31.18	31.76	32.05	32.86	32.41	32.22	31.82
14	31.76	31.24	28.90	30.06	30.11	31.29	31.45	32.03	32.78	32.34	32.44	31.65
15	31.94	31.15	29.97	29.86	30.42	31.20	31.30	32.09	32.52	32.56	32.50	31.52
16	32.22	30.88	30.00	29.71	30.59	30.86	31.51	32.35	32.37	32.77	32.39	31.44
17	32.37	30.74	30.00	29.65	30.69	30.67	31.79	32.45	32.54	32.84	32.11	31.66
18	32.38	.....	29.99	29.66	30.59	30.80	31.94	32.41	32.77	32.75	32.95	31.63
19	32.01	.....	29.96	29.66	30.28	31.13	32.00	32.10	32.88	32.54	32.10	31.82
20	31.80	.....	29.99	29.66	30.14	31.31	31.83	32.20	32.93	32.45	32.27	31.74
21	31.62	31.37	29.98	29.62	30.01	31.41	31.56	32.41	32.82	32.39	32.31	31.48
22	31.55	31.46	30.01	29.56	30.38	31.39	31.43	32.51	32.57	32.65	32.21	31.32
23	31.50	31.39	30.01	29.47	30.79	30.97	31.60	32.57	32.45	32.90	31.90	31.23
24	31.47	30.95	29.93	29.49	30.91	30.79	31.88	32.52	32.62	33.00	31.77	31.12
25	31.47	30.73	29.88	29.52	30.78	30.97	32.04	32.24	32.86	32.89	31.68	31.08
26	31.45	30.88	30.11	29.56	30.44	31.27	32.09	32.11	32.97	32.58	31.84	30.97
27	31.68	31.20	30.52	29.57	30.26	31.43	32.00	32.28	33.01	32.45	32.09	30.93
28	31.94	31.32	30.72	29.50	30.44	31.53	31.74	32.52	32.91	32.36	32.20	30.91
29	31.87	.....	30.81	29.42	30.70	31.58	31.61	32.65	32.65	32.60	31.93	30.86
30	31.54	.....	30.70	29.76	30.62	31.46	31.80	32.75	32.52	32.82	31.71	30.81
31	31.43	.....	30.26	.....	30.48	.....	32.08	32.71	.....	32.91	.....	30.85

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. Water level influenced by nearby pumping well. Land-surface datum is 52.43 feet above msl. Highest water level 15.1, May 7, 1946; lowest 25.5, Aug. 29, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	22.0	Apr. 9	19.6	July 9	22.2	Oct. 8	23.9
15	21.6	16	19.5	16	22.5	15	23.8
22	21.6	23	19.3	23	22.4	22	23.7
29	21.5	30	19.4	30	22.6	29	23.6
Feb. 5	21.5	May 7	19.5	Aug. 6	22.7	Nov. 5	23.7
12	20.6	14	19.8	13	23.0	12	22.3
19	20.0	21	19.8	20	23.9	18	22.4
26	20.2	28	20.2	27	23.8	26	22.4
Mar. 5	20.0	June 4	20.3	Sept. 3	23.7	Dec. 3	22.2
12	20.0	11	20.8	10	23.7	10	22.2
19	19.7	18	21.0	17	23.5	17	22.1
26	19.6	25	21.3	24	23.8	24	21.7
Apr. 2	19.7	July 2	21.7	Oct. 1	24.0	31	20.3

Cranston 39. Narragansett Brewing Co. Lat. 41°47'44", long. 71°26'43". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 20 feet. Water level influenced by nearby pumping well. Land-surface datum is 46.03 feet above msl. Highest water level 9.2, June 14, 1948; lowest 15.7, Aug. 29, 1949. Records available: 1946-51.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	12.8	12	11.6	14	11.1	16	13.2				
15	12.9	19	11.3	21	11.1	23	13.2				
22	13.1	26	11.3	28	11.5	30	13.4				
29	13.2	Apr. 2	11.2	June 4	11.6	Aug. 6	13.6				
Feb. 5	13.1	9	11.0	11	11.8	13	13.7				
12	12.1	16	10.8	18	12.1	20	14.3				
19	11.7	23	10.6	25	12.3	27	14.1				
26	11.9	30	10.6	July 2	12.6	Sept. 3	14.1				
Mar. 5	11.6	May 7	11.0	9	12.9	10	14.1				

Cranston 39--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 17	14.1	Oct. 15	14.2	Nov. 12	13.7	Dec. 10	13.0
24	14.4	22	14.2	18	13.6	17	12.6
Oct. 1	14.3	29	14.1	26	13.4	24	12.6
8	14.3	Nov. 5	14.0	Dec. 3	12.9	31	12.6

Cranston 40. Narragansett Brewing Co. Lat. 41°47'44", long. 71°26'43". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 40 feet. Water level influenced by nearby pumping wells. Land-surface datum is 54.02 feet above msl. Highest water level 17.3, June 14, 1948; lowest 22.3, Aug. 29, Sept. 19, 1949. Records available: 1946-51.

Jan. 8	20.2	Apr. 9	18.2	July 9	19.9	Oct. 8	21.2
15	20.1	16	18.1	16	20.2	15	21.1
22	20.0	23	18.0	23	20.3	22	20.9
29	20.0	30	18.0	30	20.4	29	21.0
Feb. 5	19.7	May 7	18.3	Aug. 6	20.7	Nov. 5	20.8
12	19.3	14	18.4	13	20.8	12	20.5
19	18.8	21	18.7	20	21.2	18	20.6
26	19.1	28	18.8	27	21.0	26	20.4
Mar. 5	18.8	June 4	18.9	Sept. 3	21.0	Dec. 3	20.0
12	18.4	11	18.9	10	21.1	10	19.9
19	18.3	18	19.2	17	21.2	17	19.7
26	18.3	25	19.5	24	21.3	24	19.7
Apr. 2	18.2	July 2	19.8	Oct. 1	21.2	31	19.2

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. Water level influenced by nearby pumping well. Land-surface datum is 56.53 feet above msl. Highest water level 17.54, May 7, 1946; lowest 24.2, Sept. 5, 1949. Records available: 1946-51.

Jan. 8	21.9	Apr. 9	20.0	July 9	21.8	Oct. 8	23.0
15	21.9	16	19.9	16	22.1	15	22.9
22	21.4	23	20.0	23	22.3	22	23.2
29	21.3	30	21.0	30	22.4	29	23.2
Feb. 5	21.3	May 7	20.4	Aug. 6	22.5	Nov. 5	23.1
12	21.1	14	20.4	13	22.5	12	22.4
19	19.8	21	20.4	20	22.8	18	22.7
26	19.3	28	20.5	27	22.7	26	22.3
Mar. 5	20.6	June 4	20.6	Sept. 3	22.9	Dec. 3	21.8
12	20.5	11	20.9	10	22.7	10	22.3
19	20.3	18	21.1	17	22.8	17	22.1
26	20.3	25	21.3	24	23.1	24	21.4
Apr. 2	20.2	July 2	21.6	Oct. 1	23.3	31	21.3

Cumberland 129. Thomas Cooney Estate. Lat. 41°58'20", long. 71°27'14". Dug unused water-table well in till. Land-surface datum is about 330 feet above msl. Highest water level 5.42, Mar. 27, 1950; lowest 17.99, Aug. 31, 1949. Records available: 1946-51.

Jan. 31	7.10	Apr. 30	8.48	July 26	13.25	Oct. 30	10.23
Mar. 2	6.58	May 28	7.48	Aug. 31	12.43	Nov. 29	6.95
29	6.58	June 28	10.68	Sept. 25	13.17	Dec. 27	6.59

Cumberland 265. Clarence Lawton. Lat. 41°56'26", long. 71°25'45". Dug unused water-table well in sand and gravel. Land-surface datum is about 130 feet above msl. Highest water level 10.67, Feb. 26, 1948; lowest 17.20, Sept. 29, 1949. Records available: 1946-51.

Jan. 31	11.70	Apr. 30	12.77	July 26	15.33	Oct. 30	14.33
Mar. 2	11.84	May 28	12.76	Aug. 31	15.60	Nov. 29	11.51
29	11.64	June 28	13.90	Sept. 25	15.99	Dec. 27	10.96

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, May 28, 1951; lowest 13.00, Oct. 28, 1949. Records available: 1947-51.

Jan. 29	6.35	Apr. 27	6.27	July 26	10.83	Oct. 30	11.79
Mar. 2	6.43	May 28	5.06	Aug. 31	11.40	Nov. 29	6.25
29	6.20	June 28	8.70	Sept. 25	12.16	Dec. 27	6.14

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 14.38, Mar. 31, 1948; lowest 33.62, Nov. 29, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	23.10	Apr. 27	15.54	July 26	30.58	Oct. 30	29.57
Mar. 2	15.66	May 28	16.99	Aug. 31	24.43	Nov. 29	22.37
29	15.18	June 28	17.47	Sept. 25	26.41	Dec. 27	15.81

Foster 4. Cucumber Hill Well. 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 7.27, Mar. 27, 1950; lowest 16.71, Oct. 28, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	7.95	Apr. 27	8.36	July 26	9.95	Oct. 30	11.14
Mar. 2	7.99	May 28	8.08	Aug. 31	10.59	Nov. 29	7.53
29	8.02	June 28	9.62	Sept. 25	11.08	Dec. 27	7.69

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 7.66, Mar. 31, 1948; lowest 11.48, July 29, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	8.78	Apr. 27	8.92	July 26	10.55	Oct. 30	10.12
Mar. 2	8.65	May 28	8.47	Aug. 31	10.48	Nov. 29	8.42
29	8.53	June 28	9.91	Sept. 25	10.77	Dec. 27	8.17

Foster 11. Mrs. F. A. Cahoon. Lat. 41°46'32", long. 71°41'50". Dug unused water-table well in till, diameter 30 inches, depth 14 feet. Land-surface datum is about 550 feet above msl. Highest water level 5.75; Mar. 27, 1950; lowest 11.48; Oct. 27, 1950. Records available: 1949-51. Jan. 29, 7.20; Mar. 2, 6.59; Mar. 29, 6.54; Apr. 27, 7.90; May 28, 8.90; June 28, 9.25; July 26, 10.29. Measurement discontinued.

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. Water level influenced by nearby pumping wells. Land-surface datum is about 60 feet above msl. Highest water level 2.70, Mar. 20, 1948; lowest 7.22, Oct. 28, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	5.98	Apr. 6	3.04	July 7	6.08	Oct. 6	6.52
13	6.34	13	4.57	13	6.34	12	6.14
20	5.89	20	5.29	20	6.13	20	6.57
27	4.92	27	5.30	27	6.38	27	6.40
Feb. 3	4.28	May 4	5.69	Aug. 3	6.40	Nov. 3	4.44
10	3.26	12	5.71	10	6.48	9	3.60
17	5.02	18	5.86	17	6.24	17	4.17
24	3.81	26	3.96	24	5.55	23	5.47
Mar. 3	5.08	June 1	4.67	31	6.27	30	5.37
9	5.13	8	5.48	Sept. 7	6.05	Dec. 8	5.25
17	4.61	16	5.29	14	6.38	14	5.96
24	4.04	23	5.82	22	6.54	22	2.72
30	4.97	29	6.12	29	6.63	28	4.89

Lincoln 181. Sayles Finishing Plants, Inc. Lat. 41°53'29", long. 71°24'30". Driven unused water-table well in sand and gravel, diameter 3 inches, depth 110 feet. Water level influenced by nearby pumping wells. Land-surface datum is about 60 feet above msl. Highest water level 0.88, May 31, 1948; lowest 4.98, Oct. 24, 1950. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	3.96	Apr. 5	1.50	June 27	2.58	Sept. 27	3.50
9	4.08	10	1.50	July 3	2.67	Oct. 2	3.71
16	3.92	17	1.40	13	2.92	10	3.58
23	3.58	24	1.33	17	3.00	17	3.73
30	3.15	May 1	1.42	24	3.00	24	3.79
Feb. 7	2.83	8	1.42	Aug. 1	3.33	31	3.79
13	2.54	15	1.50	7	3.50	Nov. 12	3.00
20	2.31	22	1.67	15	3.31	20	2.96
28	2.21	29	1.46	23	3.29	27	2.81
Mar. 6	2.00	June 7	1.63	Sept. 6	3.38	Dec. 4	2.96
13	2.00	13	1.92	11	3.17	12	2.92
20	1.83	19	2.00	18	3.54	31	2.83
28	1.83						

Lincoln 337. City of Pawtucket. Sayles Finishing Plants, Inc. Lat. 41°53'23", long. 71°24'41". Jetted unused water-table well in sand, diameter 2 inches, depth 31 feet. Water level influenced by nearby pumping well. Land-surface datum is about 60 feet above msl. Highest water level 9.60, Jan. 4, 1950; lowest 12.07, Nov. 20, 1950. Records available: 1950-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	11.24	Apr. 5	10.32	June 27	10.24	Sept. 27	11.15
9	11.32	10	10.15	July 3	10.32	Oct. 2	11.15
16	11.32	17	10.07	13	10.57	10	11.07
23	11.07	24	9.90	17	10.65	17	10.98
30	11.15	May 1	9.99	24	10.65	24	11.07
Feb. 7	10.90	8	10.15	Aug. 1	10.74	31	11.07
13	10.53	15	10.07	7	10.74	Nov. 12	10.49
20	10.45	22	10.15	15	10.82	20	10.49
28	10.49	29	10.07	23	10.82	27	10.57
Mar. 6	10.40	June 7	10.07	Sept. 6	10.82	Dec. 4	10.65
13	10.40	13	10.07	11	10.99	12	10.65
20	10.40	19	10.15	18	11.07	31	10.15
28	10.24						

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 5.69, Feb. 26, 1948; lowest 11.31, Oct. 28, 1949. Records available: 1947-51.

Jan. 31	7.58	Apr. 30	7.52	July 26	9.88	Oct. 30	8.84
Mar. 2	6.68	May 28	7.49	Aug. 31	9.29	Nov. 29	6.80
29	6.68	June 28	8.57	Sept. 25	9.63	Dec. 27	6.11

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 7.67, Apr. 27, 1949; lowest 9.46, Nov. 3, 1945. Records available: 1944-51.

Jan. 31	8.52	Apr. 26	8.22	July 27	8.69	Oct. 30	9.26
Feb. 28	8.42	May 28	8.25	Aug. 30	8.95	Nov. 29	9.07
Mar. 28	8.31	June 28	8.68	Sept. 25	9.41	Dec. 27	8.53

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. Water level influenced by nearby pumping wells. Land-surface datum is 45.79 feet above msl. Lowest water level 10.20, Oct. 20, 1947. Records available: 1944-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6.91	6.74	6.57	6.27	6.30	6.27	6.67	6.95	7.13	7.16	6.97	5.73
2	6.94	6.73	6.58	6.31	6.30	6.28	6.73	6.97	7.08	7.16	6.89	5.69
3	6.97	6.66	6.54	....	....	6.25	6.77	6.98	7.04	7.17	6.79	5.80
4	6.96	6.63	6.48	6.27	....	6.30	6.72	6.98	7.06	7.16	6.61	6.02
5	6.97	6.64	6.49	6.29	....	6.34	6.75	6.93	7.09	7.16	6.53	6.14
6	6.94	....	6.45	6.27	....	6.37	6.80	7.00	7.11	7.17	6.49	6.32
7	6.88	6.61	6.49	6.21	....	6.41	6.80	7.02	7.06	7.15	6.42	6.46
8	6.84	6.61	6.51	6.15	....	6.42	6.76	7.02	7.04	7.12	6.29	....
9	6.85	6.61	6.51	6.14	6.35	6.42	6.81	7.04	6.99	7.13	6.27	....
10	6.83	6.59	6.50	6.20	6.35	6.38	6.85	7.04	7.04	7.15	6.17	....
11	6.83	6.57	6.50	6.26	6.33	6.46	6.87	7.02	7.07	7.11	6.10	....
12	6.83	6.60	6.54	6.28	6.25	6.51	6.87	6.99	7.11	7.08	6.09	6.76
13	6.87	6.62	6.54	6.23	6.22	6.54	6.88	7.01	7.12	7.08	6.08	6.79
14	6.87	6.66	6.47	6.17	6.29	6.51	6.86	7.01	7.12	7.04	6.09	6.80
15	6.83	6.65	6.43	6.13	6.32	6.50	6.82	7.02	7.10	7.08	6.04	6.75
16	6.89	6.65	6.41	6.14	6.37	6.49	6.86	7.02	7.06	7.12	6.00	6.74
17	6.90	6.61	6.43	6.17	6.43	6.46	6.88	7.02	7.10	7.15	5.95	6.82
18	6.90	6.57	6.45	6.21	6.43	6.48	6.89	7.00	7.13	7.13	5.89	6.79
19	6.90	6.55	6.49	6.23	6.43	6.52	6.85	6.96	7.18	7.12	5.92	6.79
20	6.89	6.57	6.45	6.28	6.37	6.56	6.77	7.03	7.18	7.10	5.90	6.75
21	6.86	6.57	6.41	6.27	6.43	6.58	6.77	7.01	7.16	7.09	5.95	6.66
22	6.93	6.59	6.42	6.24	6.47	6.60	6.74	7.03	7.12	7.14	5.89	6.57
23	6.92	6.59	6.42	6.23	6.50	6.59	6.80	7.06	7.09	7.14	5.87	6.55
24	6.88	6.54	6.38	6.25	6.43	6.54	6.85	7.06	7.10	7.17	5.85	6.57
25	6.83	6.53	6.37	6.26	6.37	6.62	6.90	7.04	7.13	7.08	5.81	6.54

Providence 48--Continued.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	6.85	6.55	6.38	6.26	6.32	6.65	6.90	7.00	7.16	7.03	5.76	6.58
27	6.83	6.56	6.40	6.30	6.26	6.66	6.94	7.04	7.13	6.98	5.79	6.59
28	6.82	6.61	6.39	6.25	6.24	6.70	6.91	7.07	7.16	6.94	5.78	6.61
29	6.82		6.38	6.19	6.25	6.72	6.85	7.09	7.15	6.98	5.78	6.60
30	6.83		6.36	6.27	6.23	6.72	6.90	7.11	7.11	7.00	5.76	6.57
31	6.84		6.28		6.25		6.94	7.12		7.01		6.58

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 15.0, May 29, July 17, 24, Nov. 13, 1949, Dec. 30, 1951; lowest 25.0, Feb. 2, 1947, Aug. 28, Sept. 23, 25, 1949, June 6, 1951. Records available: 1941, 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	18.0	Apr. 8	19.0	July 29	20.5	Nov. 4	18.0
21	18.0	15	18.5	Aug. 19	19.0	12	19.0
Feb. 1	a22.0	22	18.5	26	20.0	25	17.0
12	a18.5	29	19.0	Sept. 3	20.0	Dec. 2	18.0
18	16.5	June 6	a25.0	9	19.0	9	19.0
Mar. 6	a21.5	July 1	17.0	23	20.0	16	18.0
18	19.5	8	19.0	Oct. 15	16.0	25	17.0
25	19.0	15	20.0	21	21.0	30	15.0
Apr. 1	19.0	22	18.0	28	19.0		

a Pumping.

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 about 8 feet above msl. Highest water level 10.0, May 29, July 17, 24, Nov. 13, 1949, Dec. 30, 1951; lowest 22.8, Aug. 4, 1946. Records available: 1946-51.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
7	13.0		Apr. 8	14.0		July 29	16.5		Nov. 4	13.0	
21	13.0		15	13.5		Aug. 19	15.0		12	14.0	
Feb. 1	a17.0		22	13.5		26	15.0		25	13.0	
12	a13.5		29	14.0		Sept. 3	15.0		Dec. 2	13.0	
18	11.5		June 6	a20.0		9	14.0		9	14.0	
Mar. 6	a16.5		July 1	15.0		23	15.0		16	14.0	
18	14.5		8	14.0		Oct. 15	12.0		25	12.0	
25	14.0		15	17.5		21	16.0		30	10.0	
Apr. 1	14.0		22	14.0		28	14.0				

a Pumping.

Providence 94. Providence Gas Co. Sassafras Point plant. Lat. 41°47'58", long. 71°23'33". Drilled unused water-table well in sand, diameter 16 inches, depth 120 feet. Water level influenced by tides and nearby pumping wells. Land-surface datum is 12.32 feet above msl. Lowest water level 28.34, Sept. 1, 1945. Records available: 1944-51.

Daily lowest water level from recorder graph												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.65	17.10	17.03	.....	.....	d12.40	15.90	16.45	16.77	16.19	17.56	16.50
2	17.81	17.63	17.38	.....	16.77	15.84	15.95	16.73	16.59	17.43	17.27	16.53
3	17.28	17.39	17.14	.....	16.96	16.45	16.03	16.74	16.65	17.50	16.82	16.45
4	.....	17.41	17.46	.....	17.13	16.54	16.04	16.73	16.60	17.62	17.23	.....
5	.....	17.60	17.59	.....	17.00	16.33	15.87	16.83	16.63	17.07	17.04	16.40
6	.....	17.73	17.67	.....	17.22	16.31	16.07	16.82	16.66	17.14	17.08	16.63
7	.....	17.52	17.63	.....	16.96	16.35	16.08	16.76	16.30	16.88	16.64	16.63
8	.....	17.75	17.76	.....	16.80	16.30	16.06	17.43	16.45	17.12	.....	.....
9	.....	17.96	17.81	.....	d12.72	16.25	16.01	17.04	16.30	17.31	.....	.....
10	17.81	17.64	17.73	.....	d12.34	16.15	16.95	17.00	16.55	17.31	.....	.....
11	.....	17.30	17.37	10.78	d12.04	16.10	17.02	16.87	17.03	17.60	.....	.....
12	.....	17.00	16.97	16.56	d11.67	15.45	17.09	15.75	16.95	17.75	.....	15.84
13	.....	17.04	16.81	16.32	d11.65	14.93	17.03	15.69	d12.75	17.74	.....	.....
14	.....	17.25	16.62	16.24	15.80	16.10	16.90	17.23	d12.51	17.90	16.76	.....
15	.....	16.99	.....	16.38	16.08	16.32	16.84	17.05	d12.33	17.75	16.91	.....
16	.....	17.19	.....	16.30	16.61	16.58	17.01	17.20	d12.28	17.77	15.93	.....
17	17.51	17.25	.....	16.53	16.66	16.57	16.97	17.06	d12.17	17.83	.....	.....
18	17.36	17.20	.....	16.77	16.61	16.75	17.02	17.00	d12.10	17.43	.....	.....
19	18.19	17.16	.....	16.88	16.94	16.90	16.91	17.02	15.82	17.47	.....	16.16
20	18.21	17.12	.....	17.19	17.10	16.90	16.72	16.99	16.35	17.32	.....	.....
21	17.46	16.99	16.98	17.28	16.89	16.64	16.93	16.5	16.21	17.20	16.65	.....
22	17.49	17.12	.....	17.27	17.43	16.30	16.83	16.77	16.15	17.14	16.68	.....
23	17.54	17.14	.....	17.23	17.44	16.61	16.82	16.46	16.09	17.18	.....	.....

Providence 94--Continued.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
24	16.89	17.20	.....	.....	16.71	16.61	16.73	16.34	16.16	17.20	.....	.....
25	.....	17.11	.....	15.65	16.41	16.50	16.69	16.27	16.04	17.52	.....	.....
26	.....	17.17	.....	.....	16.56	16.54	16.58	16.10	16.28	17.53	.....	16.73
27	.....	17.04	.....	.....	16.62	16.50	16.67	16.35	16.24	17.65	.....	.....
28	.....	16.90	17.46	.....	16.68	16.28	16.52	16.34	16.49	.....	16.93	.....
29	.....	.....	.....	.....	16.38	16.35	16.50	16.49	16.77	.....	17.11	.....
30	.....	.....	.....	.....	16.55	15.91	16.55	16.62	16.66	.....	16.65	.....
31	17.15	.....	.....	.....	16.44	.....	16.64	16.72	.....	16.95	.....	.....

d Nearby well pumped recently.

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 45.74, Dec. 27, 1951; lowest 49.12, Nov. 9, 1945. Records available: 1944-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	46.72	Apr. 26	46.13	July 27	45.90	Oct. 30	46.00
Feb. 28	46.61	May 28	45.94	Aug. 30	45.95	Nov. 29	45.84
Mar. 28	46.41	June 28	45.91	Sept. 25	46.01	Dec. 27	45.74

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. Water level influenced by nearby pumping wells. Land-surface datum is about 10 feet above msl. Lowest water level 16.10, Jan. 16, 1948. Records available: 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.06	10.66	11.00	10.60	9.92	9.33	11.30	10.06	11.60	8.93	10.50	10.16
2	7.91	11.06	11.18	9.90	10.40	9.32	9.05	10.58	11.09	9.65	10.72	9.65
3	9.17	11.06	11.18	10.35	10.77	8.72	7.98	10.69	9.71	10.27	10.73	8.60
4	10.13	10.51	10.65	10.64	10.96	8.83	7.63	10.69	.....	.....	9.88	9.18
5	10.79	9.38	9.80	10.83	10.97	9.72	6.54	10.20	.....	.....	8.36	9.77
6	10.80	10.02	10.24	11.06	10.42	10.53	6.91	8.95	10.36	.....	8.97	10.21
7	10.58	10.49	10.54	11.06	9.38	11.04	6.91	9.15	10.88	.....	9.52	10.47
8	10.10	10.80	10.70	10.48	10.01	11.40	6.44	9.43	10.95	9.10	9.86	10.47
9	10.70	10.96	10.96	9.51	10.63	11.41	5.59	9.67	10.90	9.74	10.05	9.77
10	11.10	10.96	10.96	10.21	11.16	11.21	6.11	9.83	9.48	10.26	10.06	8.33
11	11.38	10.40	10.53	10.79	11.46	10.09	6.66	9.83	10.18	10.59	9.50	8.89
12	11.57	9.53	9.69	11.26	11.46	10.63	7.28	9.78	10.86	10.59	8.40	9.38
13	11.57	9.98	10.15	11.61	10.89	11.08	7.48	9.03	11.32	9.62	8.02	9.78
14	11.07	10.34	.....	11.67	9.98	11.41	7.52	9.00	11.61	10.36	8.89	10.02
15	9.59	10.63	.....	11.32	10.46	11.66	7.29	.....	11.63	7.21	9.55	10.02
16	10.16	10.82	.....	9.89	11.07	11.66	6.78	9.16	11.05	8.23	9.93	9.75
17	10.71	10.83	.....	10.11	11.41	11.25	7.42	9.43	9.86	9.10	9.94	8.70
18	11.13	10.30	.....	10.52	11.57	9.80	7.72	9.42	10.51	9.93	9.40	9.13
19	11.39	8.99	.....	10.79	11.57	10.41	7.76	9.15	11.05	10.53	8.16	9.68
20	11.40	9.65	.....	11.02	10.77	11.08	7.79	7.80	11.45	10.57	8.55	9.99
21	11.01	10.20	10.80	11.02	9.53	11.42	7.85	7.64	11.64	10.18	8.97	9.99
22	9.92	10.54	10.98	10.41	10.23	11.69	7.80	8.05	11.64	9.48	8.98	9.97
23	10.38	10.73	11.10	9.50	10.81	11.70	7.23	8.07	11.16	9.96	8.08	9.03
24	.....	10.73	11.10	10.02	11.10	10.90	7.57	8.70	9.82	10.68	7.88	7.55
25	.....	10.36	10.50	10.48	11.32	9.84	7.90	9.05	10.23	10.95	7.76	5.95
26	.....	9.60	9.35	10.79	11.33	10.62	8.32	9.04	10.67	11.08	7.64	5.58
27	.....	10.17	10.00	11.00	10.71	11.21	8.74	8.75	10.93	11.08	8.55	6.48
28	.....	10.62	10.55	11.01	9.70	11.63	8.80	9.55	11.01	10.35	9.29	6.88
29	.....	.....	10.94	10.61	10.19	11.82	8.61	10.45	11.01	8.79	9.81	6.89
30	.....	.....	11.17	9.38	10.20	11.82	8.41	11.20	10.21	9.46	10.16	6.52
31	10.34	.....	11.17	.....	9.23	.....	9.33	11.58	.....	10.07	.....	5.85

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 9.21, Feb. 16, 1950; lowest 18.40, Nov. 2, 3, 1949. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.09	Jan. 29	10.21	Feb. 26	9.90	Mar. 26	9.94
10	11.09	Feb. 5	9.50	Mar. 5	10.56	Apr. 2	10.13
15	10.80	12	9.70	12	11.04	3	9.54
22	10.35	19	10.35	19	11.32	9	9.75

Providence 1111--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16	10.82	July 10	13.83	Sept. 18	16.26	Nov. 26	11.86
30	12.38	16	13.96	26	16.46	Dec. 3	11.49
May 7	12.69	23	14.08	Oct. 1	16.58	10	11.48
15	13.08	30	14.45	8	16.74	17	10.38
24	13.10	Aug. 6	14.80	15	16.90	18	10.45
28	12.24	13	15.25	22	17.02	19	9.40
June 4	12.50	20	15.43	Nov. 2	17.13	20	9.54
11	13.02	27	15.56	5	16.09	21	9.29
18	13.41	Sept. 4	15.81	12	13.50	24	9.35
25	13.58	10	16.00	19	12.25	31	9.75
July 2	13.72						

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 5.56, Dec. 27, 1951; lowest 15.27, Oct. 28, 1949. Records available: 1947-51.

Jan. 29	7.16	Apr. 30	8.48	July 26	12.49	Oct. 30	13.97
Mar. 1	6.39	May 28	9.19	Aug. 31	13.91	Nov. 29	7.48
29	6.40	June 28	10.84	Sept. 25	14.08	Dec. 27	5.56

Smithfield 116. Semaco Macaroni Co. Georgiaville. Lat. 41°53'17", long. 71°30'26". Drilled unused water-table well in bedrock, diameter 6 inches, depth 72 feet. Land-surface datum is about 130 feet above msl. Highest water level 7.12, Mar. 27, 1950; lowest 9.55, Oct. 28, 1949. Records available: 1947-51. Jan. 31, 7.82; Mar. 2, 7.66; Mar. 29, 7.44. Measurement discontinued.

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. Water level influenced by nearby pumping wells. Land-surface datum is about 285 feet above msl. Highest water level 11.12, Dec. 27, 1951; lowest 16.48, Nov. 29, 1949. Records available: 1945, 1949-51.

Jan. 2	12.19	Apr. 30	11.35	July 26	12.21	Oct. 30	13.22
Feb. 13	11.15	May 28	11.25	Aug. 31	12.64	Nov. 29	11.66
Mar. 1	11.25	June 28	11.69	Sept. 25	12.98	Dec. 27	11.12
29	11.22						

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. Water level influenced by nearby pumping wells. Land-surface datum is about 300 feet above msl. Highest water level 17.94, Dec. 27, 1951; lowest 24.29, Nov. 29, 1949. Records available: 1945, 1949-51.

Jan. 31	18.28	Apr. 30	18.20	July 26	19.19	Oct. 30	20.23
Mar. 1	18.11	May 28	18.02	Aug. 31	19.65	Nov. 29	18.45
29	18.09	June 28	18.58	Sept. 25	20.03	Dec. 27	17.94

Washington County

Charlestown 18. U. S. Navy Dept. 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 15.39, June 2, 1948; lowest 21.43, Oct. 28, Nov. 30, 1949. Records available: 1946-51.

Jan. 29	18.71	Apr. 27	16.58	July 27	18.89	Oct. 31	20.54
Feb. 26	17.04	May 29	17.69	Sept. 4	19.72	Nov. 30	18.78
Mar. 30	16.63	June 29	18.05	26	20.10	Dec. 28	17.63

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. Water level probably influenced by nearby Wood River. Land-surface datum is about 130 feet above msl. Highest water level 4.77, May 29, 1951; lowest 7.49, Sept. 6, 1949. Records available: 1946, 1948-51.

Jan. 29	5.81	Apr. 27	4.94	July 27	6.58	Oct. 31	7.16
Feb. 26	5.06	May 29	4.77	Sept. 4	7.08	Nov. 30	5.58
Mar. 30	5.03	June 29	6.04	26	7.21	Dec. 28	4.86

Exeter 16. State of Rhode Island, Exeter School. Lat. 41°33'07", long. 71°32'37". Driven unused water-table well in sand and gravel, diameter 2½ inches, depth 27 feet. Water level influenced by nearby pumping wells. Land-surface datum is about 100 feet above msl. Highest water level 7.86, June 9, 1948; lowest 14.86, Dec. 29, 1948. Records available: 1946-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	12.73	Apr. 4	8.70	July 4	10.72	Oct. 3	12.74
10	12.69	11	8.58	11	10.90	10	13.10
17	12.24	18	8.83	18	10.99	17	13.38
24	12.14	25	8.98	25	11.26	24	13.33
31	12.08	May 2	9.16	Aug. 1	11.50	31	13.40
Feb. 7	10.93	9	9.49	8	11.60	Nov. 7	12.50
14	10.54	16	9.28	15	11.83	14	12.41
21	10.24	23	9.38	22	12.00	21	12.68
28	10.08	30	9.89	29	12.20	28	12.82
Mar. 7	9.95	June 6	10.19	Sept. 5	12.33	Dec. 5	12.90
14	9.79	13	10.53	12	12.42	12	12.74
21	9.32	20	10.49	19	12.60	19	12.34
28	9.25	27	10.62	26	12.60	26	11.30

North Kingstown 26. North Kingstown Water Commission pumping station. Lat. 41°33'25", long. 71°29'01". Drilled public-supply water-table well in sand and gravel, diameter 12 inches, depth 50 feet. Measurements made about 10 hours after pump shut off. Land-surface datum is about 56 feet above msl. Highest water level 9.40, June 1, 1948; lowest 12.38, Aug. 3, 1949. Records available: 1947-51.

Jan. 3	11.10	Mar. 21	10.48	June 8	11.04	Aug. 17	11.64
10	10.99	28	10.80	13	11.32	23	11.19
17	10.57	Apr. 4	10.20	20	11.03	30	11.55
25	10.57	11	10.78	27	11.39	Sept. 5	11.46
31	10.99	18	10.80	July 6	11.58	12	11.45
Feb. 7	10.80	25	10.63	11	11.99	19	11.53
14	10.86	May 2	10.97	18	11.22	Oct. 4	11.40
21	10.81	9	11.18	25	11.51	10	11.29
28	10.95	16	11.00	Aug. 2	11.61	18	11.34
Mar. 7	10.92	23	11.16	9	11.57	24	11.44
14	11.03	June 1	10.71				

North Kingstown 27. North Kingstown Water Commission observation well 1. Lat. 41°33'25", long. 71°29'01". Driven observation well in sand and gravel, diameter 2½ inches, depth 15 feet. Water level influenced by nearby pumping well. Land-surface datum is about 55 feet above msl. Highest water level 4.98, June 15, 1949; lowest 7.40, July 6, 1949. Records available: 1947-51.

Jan. 3	6.05	Mar. 21	5.60	June 8	6.02	Aug. 17	6.69
10	5.79	28	5.69	13	6.29	23	6.17
17	5.49	Apr. 4	5.40	20	5.92	30	6.53
25	5.56	11	5.71	27	6.33	Sept. 5	6.43
31	5.75	18	5.72	July 6	6.62	12	6.40
Feb. 7	5.66	25	5.55	11	7.12	19	6.53
14	5.74	May 2	5.99	18	6.39	Oct. 4	6.38
21	5.71	9	6.13	25	6.50	10	6.27
28	5.93	16	5.91	Aug. 2	6.69	18	6.30
Mar. 7	5.84	23	6.11	9	6.68	24	6.44
14	5.96	June 1	5.58				

North Kingstown 28. North Kingstown Water Commission observation well 2. Lat. 41°33'25", long. 71°29'01". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 15 feet. Water level influenced by nearby pumping well. Land-surface datum is about 55 feet above msl. Highest water level 6.48; Apr. 4, 1951; lowest 8.98; Apr. 29, 1949. Records available: 1947, 1949-51.

Jan. 3	7.23	Mar. 21	6.60	June 8	7.19	Aug. 17	7.76
10	7.05	28	6.99	13	7.49	23	7.30
17	6.97	Apr. 4	6.48	20	7.16	30	7.67
25	6.67	11	6.98	27	7.52	Sept. 5	7.58
31	7.05	18	6.98	July 6	7.69	12	7.57
Feb. 7	6.98	25	6.80	11	8.13	19	7.65
14	7.03	May 2	7.19	18	7.32	Oct. 4	7.54
21	6.97	9	7.37	25	7.64	10	7.42
28	7.11	16	7.17	Aug. 2	7.72	18	7.48
Mar. 7	7.08	23	7.33	9	7.68	24	7.59
14	7.20	June 1	6.88				

North Kingstown 29. North Kingstown Water Commission observation well 3. Lat. 41°33'25", long. 71°29'01". Driven observation water-table well in sand and gravel, diameter 2½ inches, depth 13 feet. Water level influenced by nearby pumping well. Land-surface datum is about 55 feet above msl. Highest water level 6.50, Dec. 4, 1950; lowest 9.37, Nov. 1, 1949. Records available: 1947-51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	7.25	Mar. 21	6.67	June 8	7.68	Aug. 17	8.33
10	6.99	28	7.00	13	8.02	23	7.70
17	6.65	Apr. 4	6.56	20	7.54	30	8.17
25	6.67	11	7.08	27	8.09	Sept. 5	8.01
31	7.00	18	7.10	July 6	8.29	12	8.00
Feb. 7	6.92	25	6.92	11	8.89	19	8.09
14	6.97	May 2	7.37	18	7.78	Oct. 4	7.90
21	6.93	9	7.70	25	8.20	10	7.77
28	7.07	16	7.41	Aug. 2	8.35	18	7.81
Mar. 7	7.06	23	7.70	9	8.26	24	7.94
14	7.22	June 1	7.17				

South Kingstown 10. Village of Kingston, South and Kinston 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 3.20, Mar. 29, 1950; lowest 14.45, Dec. 1, 1949. Records available: 1947-51.

Jan. 29	5.56	Apr. 27	3.89	July 27	8.55	Oct. 31	12.66
Feb. 26	3.59	May 29	3.60	Sept. 4	10.67	Nov. 30	8.95
Mar. 30	3.40	June 29	5.71	26	11.63	Dec. 28	6.56

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. Water level influenced by nearby pumping wells. Land-surface datum is 92.77 feet above msl. Lowest water level 14.75, Aug. 28, 1949. Records available: 1944, 1948-51.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.10	2.17	1.58	c9.57	1.04	1.03	c10.73	c12.36	c13.11	....	3.26	2.60
2	3.13	2.07	1.56	c9.34	1.04	c9.99	c11.07	c12.42	c13.05	3.39	3.02	2.60
3	3.11	1.79	1.55	1.07	1.06	c9.93	c11.10	c12.44	c12.99	3.39	2.93	2.59
4	3.09	....	1.50	.87	1.06	c9.98	c11.23	c12.21	c12.29	3.37	2.67	2.59
5	3.08	....	1.41	.92	c9.82	c9.95	c11.15	c12.73	c11.88	3.35	2.77	2.58
6	3.06	....	1.44	.95	c9.89	c10.00	c11.39	c12.62	c11.75	3.36	2.82	2.56
7	3.05	....	1.43	.97	c10.08	c10.09	c11.45	c12.62	c11.77	3.36	....	2.54
8	2.97	....	1.46	.97	c10.09	c10.16	c11.79	c12.52	c12.03	3.12	....	2.55
9	2.99	1.86	1.46	.97	c10.27	c10.37	c11.57	c12.52	c11.86	3.16	....	....
10	2.99	1.86	1.45	.97	c10.17	c10.24	c11.70	c12.63	c11.45	3.13	2.58	....
11	2.97	1.85	1.46	.99	c10.09	c9.97	c11.79	c12.62	c11.30	3.15	2.60	....
12	2.97	1.84	1.45	.98	c9.78	c10.39	c11.93	c12.29	c11.19	3.10	2.63	....
13	2.97	1.83	1.47	.96	c9.70	c10.37	c11.52	c12.37	c11.30	....	2.64	....
14	2.96	1.82	1.46	.94	c9.79	c10.19	c11.81	c12.49	c11.25	3.09	2.65	2.54
15	2.84	1.82	1.41	.95	c9.88	c9.81	c12.26	c12.42	c11.39	3.13	2.63	....
16	....	1.81	1.43	.93	c9.91	c9.89	c11.70	c12.54	c11.47	3.18	2.64	....
17	2.64	1.81	1.44	.94	c10.07	c9.65	c11.75	c12.57	c11.15	3.23	....	....
18	2.65	1.79	1.43	.95	c9.99	c10.07	c11.80	c12.58	c11.01	3.26	....	....
19	2.67	1.67	1.42	.85	c10.04	c10.07	c11.74	c12.57	c11.20	3.31	....	....
20	2.67	1.67	1.38	1.00	c10.10	c10.37	c12.03	....	c11.12	3.34	....	....
21	2.67	1.66	c7.64	1.03	c9.97	c10.23	c12.28	c12.67	c11.18	3.34	....	....
22	2.68	1.62	c9.02	1.00	c10.08	c10.45	c11.98	c12.68	c12.07	3.34	....	....
23	2.67	1.54	1.22	.97	c10.11	c10.58	c11.97	....	c12.45	3.35	2.67	....
24	2.62	1.57	1.15	.94	1.36	c10.65	c12.10	c12.88	c12.07	3.35	2.67	....
25	....	1.58	1.13	.95	.93	c10.68	c12.03	c12.86	3.69	3.32	2.67	....
26	....	1.58	1.17	.98	c9.60	c10.72	c12.10	c12.97	3.47	3.29	2.61	....
27	....	1.57	1.17	1.00	c9.47	c10.49	c12.79	c12.90	3.42	3.31	....	....
28	2.17	1.62	1.16	c8.99	c9.47	c10.57	c12.43	c13.02	3.39	3.28	....	....
29	....	....	1.16	1.00	.90	c10.38	c12.33	c12.99	c11.20	3.25	....	....
30	....	....	1.14	1.05	.93	c10.81	c12.43	c13.15	3.60	3.25	2.60	....
31	....	....	c9.77	.99	.99	c12.09	c13.09	....	....	3.26	....	....

c Nearby well being pumped.

VERMONT

By Marvin A. Pistrang

Scope of Water-Level Program

The observation-well program in Vermont, begun in 1942, was continued in 1951. Measurements were made weekly in one observation well in the town of Middlesex, Washington County. Wells were established at Bethel in Windsor County and Newfane in Windham County.

Precipitation

During 1951 precipitation for the State as a whole was 43.90 inches according to records of the U. S. Weather Bureau, or 5.47 inches above normal and 6.12 inches greater than in 1950.

Interpretation of water-Level Fluctuations

Records have shown that water-level fluctuations in Vermont follow a seasonal pattern in response to such factors as temperature and precipitation. In general, the water table declines during the winter when precipitation in the form of snow furnished little ground-water recharge. Occasionally, mild temperatures and rainfall cause a rise in water levels. A sharp rise, ordinarily to the highest levels of the year, usually occurs in March or April due to temperatures high enough to melt the snow cover. This is followed by a water-table decline during the growing season, when vegetal demands for water are greatest. The water table continued to fall until September or October when the end of the growing season is marked by a rise in water levels. This rise normally continues until the onset of freezing weather.

Figure 31 shows weekly water level in an observation well at Middlesex 1 for 1951, together with daily precipitation and maximum and minimum temperature records for the U. S. Weather Bureau station at Montpelier Airport.

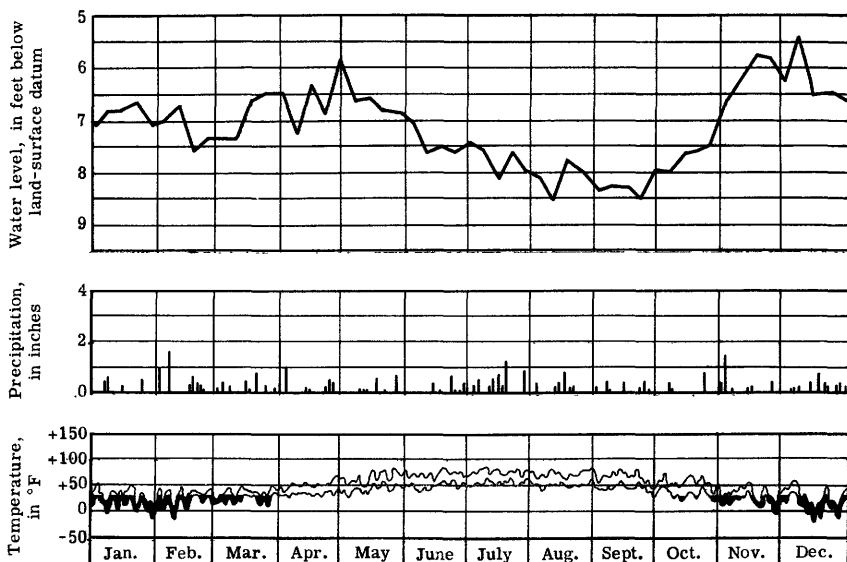


Figure 31. --Weekly water level in an observation well at Middlesex, and daily precipitation and maximum and minimum temperature at Montpelier Airport.

Well-Numbering System

Wells in Vermont are numbered according to the city or town in which they are situated.

Well Descriptions and Water-Level Measurements

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

Washington County

Middlesex 1. Formerly Montpelier 1. Lynford Roy. Formerly Burton Peterson. 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 (revised). Highest water level 4.72 below lsd, May 2, 1945; lowest dry several times in 1944, 1947, 1948, and 1949. Records available: 1942-15.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	7.10	Apr. 9	7.32	July 8	7.61	Oct. 7	8.01
9	6.84	16	6.33	16	8.16	14	7.65
15	6.82	23	6.94	23	7.59	21	7.60
22	6.72	30	5.82	29	7.97	28	7.46
29	7.10	May 7	6.62	Aug. 5	8.11	Nov. 4	6.63
Feb. 5	7.00	14	6.57	12	8.60	11	6.17
12	6.74	21	6.85	19	7.80	18	5.74
19	7.62	28	6.89	26	8.01	25	5.80
26	7.35	June 4	7.11	Sept. 2	8.35	Dec. 2	6.23
Mar. 6	7.35	11	7.67	9	8.25	9	5.36
12	7.34	18	7.54	16	8.28	16	6.50
19	6.64	25	7.62	23	8.52	23	6.44
26	6.54	July 2	7.42	30	7.98	30	6.58
Apr. 2	6.51						

Windham County

Newfane 1. Arthur Brooks. Newfane. Lat. 42°59'05", long. 72°39'23". Dug unused water-table well in glacial drift, diameter 36 inches, depth 9 feet. Land-surface datum is about 550 feet above msl. Highest water level 2.25 below lsd, Nov. 28, 1951; lowest 6.73 below lsd, Oct. 3, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 27	4.67	Aug. 15	6.57	Oct. 3	6.73	Nov. 21	3.84
July 4	5.88	22	5.05	10	3.60	28	2.25
11	6.64	29	4.74	17	4.58	Dec. 5	4.85
18	6.38	Sept. 6	5.32	24	5.19	12	3.72
25	5.99	12	5.67	31	4.86	19	4.07
Aug. 1	6.02	19	5.79	Nov. 7	3.24	26	4.49
8	6.36	26	6.38	14	3.24		

Windsor County

Bethel 1. Tyler & Rice Veneer Mill. Bethel. Lat. 43°49'46", long. 72°37'55". Dug unused water-table well in glacial drift, diameter 6 feet, depth 16 feet. Land-surface datum is about 550 feet above msl. Highest water level 12.46 below lsd, Dec. 11, 1951; lowest 13.96 below lsd, Sept. 25, 1951. Records available: 1951.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 12	13.74	Aug. 7	13.66	Sept. 25	13.96	Nov. 13	12.74
19	13.85	14	13.75	Oct. 2	13.92	20	12.84
26	14.00	21	13.64	10	13.72	27	12.92
July 3	13.74	28	13.73	17	13.76	Dec. 4	12.71
10	13.85	Sept. 4	13.68	23	13.89	11	12.46
17	13.72	12	13.74	30	13.71	18	12.62
24	13.50	18	13.93	Nov. 6	12.76	26	12.48
Aug. 1	13.50						