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UNITED STATES DEPARTMENT OF THE INTERIOR

**WATER LEVELS AND ARTESIAN PRESSURE
IN OBSERVATION WELLS IN THE
UNITED STATES IN 1943**

PART 4. SOUTH-CENTRAL STATES

Prepared in cooperation with the States of
ARKANSAS, LOUISIANA, OKLAHOMA, and TEXAS
and other agencies

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 989

**PLANNING FILES
HYDROLOGY**

UNITED STATES DEPARTMENT OF THE INTERIOR
J. A. KRUG, Secretary
GEOLOGICAL SURVEY
W. E. Wrather, Director

Water-Supply Paper 989

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PART 4. SOUTH-CENTRAL STATES

BY

O. E. MEINZER, L. K. WENZEL
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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1946

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WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1943

Part 4. SOUTH-CENTRAL STATES

INTRODUCTION

By O. E. Meinzer and L. K. Wenzel

Significance of records of water level and artesian pressure

The rock formations of the earth are great natural underground reservoirs in which a part of the water derived from rain and snow is stored to supply wells and springs and to maintain the flow of streams during periods of fair weather. Water levels in wells register the stages of these natural reservoirs; they show the extent to which water supplies are depleted by drought or by heavy pumping, whether for public waterworks, irrigation, or industrial uses, and the extent to which they are replenished in seasons of abundant rainfall or melting snow. The changes in pressure recorded on flowing wells indicate depletion or replenishment of the artesian reservoirs.

Annual publication of records by Geological Survey

The regular publication of records of water level and artesian pressure in the United States was begun by the Geological Survey in 1935 and has continued yearly since. The records for the entire country were published in a single volume each year through 1939. Beginning with 1940 the 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. (See fig. 1.) The following table gives the numbers of these reports. This series of water-supply papers is in a sense an inventory, year by year, of the ground-water supplies of such parts of the country as have been covered.

Water-supply papers on water levels and artesian pressure in observation wells in the United States

Year	North-eastern States	South-eastern States	North-central States	South-central States	North-western States	South-western States and Hawaii
1935	777	777	777	777	777	777
1936	817	817	817	817	817	817
1937	840	840	840	840	840	840
1938	845	845	845	845	845	845
1939	886	886	886	886	886	886
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

Scope of present volume

The present volume covers the south-central States and gives records of water level and artesian pressure in about 1,470 observation wells of the Geological Survey and cooperating agencies in Arkansas, Louisiana, Oklahoma, and Texas. Of these wells, 20 are equipped with automatic water-stage recorders. For some wells not previously reported complete records of water level are given in this volume, including those for the years before 1943. For wells whose previous records have been published this volume gives only the current records. If a complete description of a well has been published in a previous report, only the well number or the well number and a brief identifying description are given in this report. The numbers in parentheses immediately following a well number are those of the water-supply papers in which earlier records of that well are given and the pages on which they appear. An asterisk indicates that a description of the well is given in the paper whose number is so marked. This report includes about 7,240 individual determinations of water level and artesian pressure.

Land-surface datum

Hitherto, in Geological Survey reports, the water levels and artesian heads for some wells have been given in feet above or below the measuring points and for other wells in feet above or below sea level or above or below various assumed datum planes. It was considered inadvisable to adopt a standard procedure in expressing water levels and artesian heads until after a period of trial with datum planes of different kinds. The time has now come, however, for the adoption of a uniform practice as to

datum in making the records to be published in the annual water-level reports. It has become evident that the water levels in each well should be expressed with reference to a permanent datum plane established for that well in order to preserve the continuity of the record if the measuring point is changed. The chief objection to the use of datum planes other than land surface has

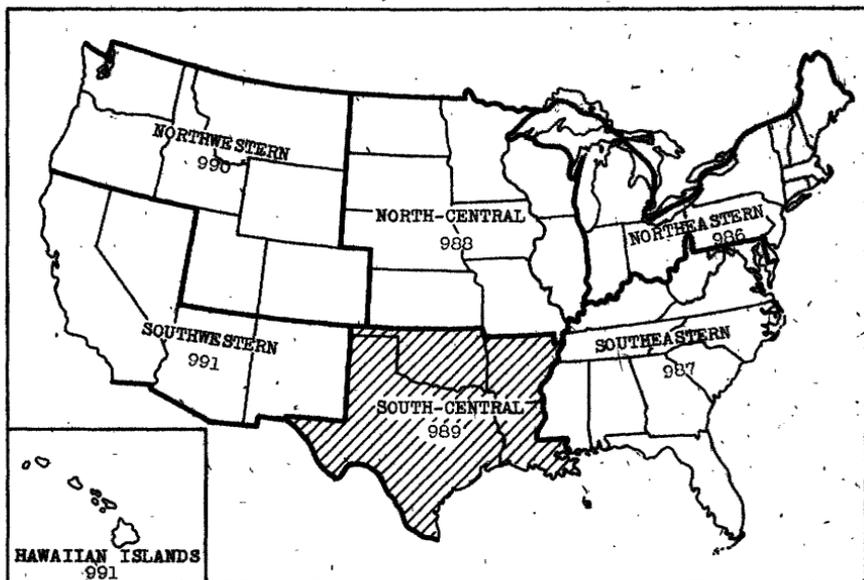


Figure 1.--Outline map of the United States showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1943. The shaded section represents the part of the country covered by this volume.

been that the significance of the water level with respect to the land surface is thereby concealed. It appears, however, that this objection can be overcome by using a precise datum plane that approximates the land surface.

The adoption of land-surface datum planes as the standard to be used in expressing water levels and artesian heads will not prevent the use of other datum planes for the summary tables and for maps and graphs in the annual water-level reports or in other reports. The use of the sea-level datum and the 10-foot datum planes are to be encouraged for purposes of study and interpretation, but the land-surface datum planes will be used exclusively for publishing original records. Bench marks must be established,

as heretofore, near each observation well to prevent the loss of the precise record if the measuring point or the well itself is destroyed. New data as to the positions of the measuring point and of the bench marks, in feet above or below land-surface datum plane, will be published in the appropriate annual reports.

In accordance with the above, the water levels and artesian heads for all wells listed in this report are given in reference to land-surface datum planes. If the water levels or artesian heads are referred to land-surface datum for the first time, a conversion factor is given in the descriptive matter preceding them in order to facilitate comparison of the older and newer records. Wherever the conversion factor is given in the report for 1942, it is not repeated in this report.

Network of key observation wells

During 1942 the Geological Survey established a network of key observation wells in order to make available current information on general ground-water conditions over the country. These wells were selected because the fluctuations of water level in them are believed to be typical, and they represent the general fluctuations that occur in the parts of the country in which the wells are situated. At the end of 1942 the network included about 130 wells in 40 States. About 40 of the wells were established expressly for the network in 1942; the other 90 were selected from wells measured regularly in connection with cooperative ground-water investigations. The coverage of the country is still far from adequate, and it is expected that some wells not now included will be added to the network from time to time.

General summary of changes in ground-water level in 1943 in the south-central part of the United States

In 1943 the precipitation in all the States that make up the south-central section was below normal. The fluctuations of both water level and artesian pressure in wells depend, however, on many factors besides the amount of precipitation. In certain of the observation wells there are fluctuations caused by differences in the rate of pumping or artesian flow from other wells in the area, but most of the observation wells are not noticeably affected by pumping or artesian flow.

Acknowledgments

Acknowledgments for effective services in the preparation of this water-supply paper are due Miss Dorothy M. Ireland, Mrs. Susan H. Washburn, and Mrs. Bertha K. Dale. Miss Ireland had general charge of the assembling of the several reports and did all of the offset typing; Mrs. Washburn edited all of the reports; and Mrs. Bertha K. Dale prepared the illustrations.

ARKANSAS

GRAND PRAIRIE REGION

By R. G. Kazmann and Kyle Engler

The Grand Prairie region of Arkansas comprises Arkansas County, large parts of Lonoke and Prairie Counties, and small parts of Jefferson and Monroe Counties. Measurements of depth to water level in wells in this area were continued in 1943 in cooperation with the Arkansas Agricultural Experiment Station. This is the seventeenth successive year in which a well-measurement program has been conducted in this region, the first measurements having been made in September 1927 by the Federal Geological Survey, in cooperation with the Arkansas Geological Survey. The work in 1943 was done by employees of the State Agricultural Experiment Station under the supervision of Kyle Engler, assisted by L. C. Cartér.

A discussion of the conditions affecting the ground-water resources of the Grand Prairie region, where rice is extensively cultivated and must be irrigated, and an account of the early pumping operations and their effects on the general static level of the ground water are given in an earlier report, ^{1/} which contains also records of 18 wells from the time of their first measurement. Later reports bring these records up-to-date and add the records of other wells as measurements in them are begun.

The trend of water level or artesian head from year to year in the Grand Prairie region may be determined by annual measurements made in the spring, as late as possible but before pumping for rice irrigation is begun. Accordingly, for most of the wells in most years only the single measurement in the spring has been made. In some years, however, measurements were also made in the fall, after the irrigation season had ended. These give some idea as to the effects of pumping during the preceding summer, but, because local irregularities due to that pumping have not been straightened out, they are not so conclusive as measurements made during the following spring. Owing to the war, no measurements were made in the ^{1/} United States in 1935, with statements concerning previous work and results: U. S. Geol. Survey Water-Supply Paper 777, pp. 5-8, 1936.

fall of 1943. For well 280, which is equipped with an automatic water-stage recorder, measurements are given of the depth to water level at the times when the recorder charts were changed, which was generally once a week. A continuous record of the fluctuations of water level in this well has been obtained since August 1928.

In general, the difference in the fluctuations of water level from place to place throughout the region is due chiefly to differences in quantity of water pumped for irrigation in the various parts of the region, but the greatest differences, which occur in the extreme southeastern part of the region, probably are due to differences in the stage of the White River. The water levels in all wells in the Grand Prairie region fluctuate as a result of changes in atmospheric pressure, at times as much as 0.8 foot in 24 hours and more than 1 foot in a few days. To make accurate comparisons of the water level on corresponding dates in different years, corrections for such fluctuations must be made by comparing the atmospheric pressures, as determined from barograph records at some place nearby, at the time of measurements in the successive years.

In accordance with new standards adopted by the Geological Survey the measuring point at each well is being tied in to a datum plane that is approximately the land surface at the well. Inasmuch as a number of wells have not yet been tied in, the measurements in these wells for 1943 are not included in this report. Only the wells the elevations of whose measuring points have been determined relative to the land surface are included. The measuring points of all other wells in which measurements have been made will be tied in to land-surface datum as soon as possible. The measurements will then be corrected to the new datum and published.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Arkansas County

280 (*777, pp. 13-14; 817, pp. 4-5; 840, p. 14; 845, pp. 8-9; 886, p. 11; 909, p. 10; 939, pp. 6-7; 947, p. 9). Fred Hederich. NW¹/₄NW¹/₄ sec. 3, T. 3 S., R. 5 W. Measuring point, top of pit, at land surface. Equipped with automatic water-stage recorder. Comparison of the record for 1943 with the records for previous years may be made by reference to a graph, showing the lowest water level reached each day from August 1928, when the recorder was installed, to the end of 1937. (See Water-Supply Paper 840, p. 9.)

280. Fred Hederich--Continued.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Jan. 2	12:05 p.m.	91.52	July 2	4:40 p.m.	93.21
9	11:25 a.m.	91.52	10	8:05 a.m.	92.69
16	2:45 p.m.	90.75	17	6:25 p.m.	95.93
23	1:50 p.m.	91.03	24	2:05 p.m.	96.22
30	1:30 p.m.	91.51	30	10:50 a.m.	95.67
Feb. 6	2:40 p.m.	91.30	Aug. 7	1:30 p.m.	96.65
13	3:55 p.m.	91.59	14	2:15 p.m.	94.44
20	5:10 p.m.	91.05	21	6:05 p.m.	95.68
27	2:05 p.m.	91.43	28	2:50 p.m.	96.37
Mar. 6	1:30 p.m.	91.08	Sept. 5	2:00 p.m.	94.20
13	4:40 p.m.	91.30	10	7:30 p.m.	94.33
20	1:00 p.m.	91.35	20	10:10 a.m.	93.65
27	12:50 p.m.	90.91	25	2:35 p.m.	93.58
Apr. 4	1:30 p.m.	91.40	Oct. 2	6:45 p.m.	93.24
10	12:45 p.m.	91.00	9	3:35 p.m.	93.13
17	12:01 p.m.	91.30	16	5:50 p.m.	93.26
23	6:40 p.m.	91.09	23	5:45 p.m.	92.92
30	3:00 p.m.	91.17	30	12:35 p.m.	92.90
May 7	2:10 p.m.	90.86	Nov. 6	12:30 p.m.	92.70
15	11:20 a.m.	90.98	13	12:10 p.m.	93.25
22	8:35 a.m.	91.18	20	6:40 p.m.	92.70
30	11:00 a.m.	91.21	27	11:10 a.m.	92.83
June 5	10:00 a.m.	91.55	Dec. 4	11:35 a.m.	93.05
12	5:05 p.m.	94.75	11	5:10 p.m.	92.80
19	4:25 p.m.	95.25	18	12:01 p.m.	92.75
26	2:45 p.m.	95.50	27	11:55 a.m.	92.68

The following table gives the highest and lowest water levels reached during the period 1938-43, in feet below land surface. The high stages are due, in part, to extremely low atmospheric pressure. The water levels given in the table are not corrected for barometric fluctuations.

Year	Date	Lowest water level	Date	Highest water level
1938	Sept. 4	93.90	Feb. 18	87.71
1939	Aug. 21	94.86	Jan. 29	88.00
1940	Aug. 6	94.69	Apr. 17	89.12
1941	Aug. 17	94.90	Apr. 21	89.58
1942	Aug. 3	94.72	Apr. 9	90.10
1943	Aug. 27	96.92	May 24	90.84

205 (*777, p. 12; 817, p. 5; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). D. F. Fowler. Near NW. corner sec. 4, T. 2 S., R. 5 W. Measuring point is 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 22, 8:30 a.m., 95.74.

210 (*845, p. 10; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). W. H. Kornbaum. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 2 S., R. 5 W. Measuring point is 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 23, 6:20 a.m., 92.45.

245 (*909, p. 11; 939, p. 7; 947, p. 9). J. W. Darrough. Near NW. corner sec. 22, T. 2 S., R. 4 W. No measurements made in 1943.

261 (*777, p. 13; 817, p. 5; 886, p. 11; 939, p. 7; 947, p. 9). W. M. Trice. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 2 S., R. 3 W. Measuring point, top of pit, 0.8 foot above land surface. No measurements made in 1943.

274 (*909, p. 12; 939, p. 7; 947, p. 9). W. W. Crum. NW $\frac{1}{4}$ sec. 29, T. 3 S., R. 6 W. Measuring point, top of pit, east side, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 5, 2:45 p.m., 21.45.

293 (*845, p. 10; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). J. C. Gleason. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 3 S., R. 5 W., a short distance south of railroad. No measurements made in 1943.

304 (*845, p. 11; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). A. A. Tindall. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 3 S., R. 5 W. Well destroyed; measurements discontinued.

305 (*909, p. 12; 939, p. 7; 947, p. 9). Pearl Clow. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 3 S., R. 5 W. No measurements made in 1943.

311 (*840, p. 18; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). W. J. Schrock. NW $\frac{1}{4}$ sec. 5, T. 3 S., R. 4 W. Measuring point is 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 7, 10:25 a.m., 101.35.

318 (*777, p. 15; 817, p. 5; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 9). University of Arkansas. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 3 S., R. 4 W. Measuring point is 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 11, 11:20 a.m., 86.00.

344 (*840, p. 18; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). F. T. Hill. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 3 S., R. 4 W. Measuring point is 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 7, 2:40 p.m., 92.01.

353 (*840, p. 19; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). R. L. Mitchell. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 3 S., R. 3 W. No measurements made in 1943.

355 (*909, p. 13; 939, p. 7; 947, p. 10). W. A. Fehrenbaker. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 3 S., R. 3 W. Measuring point, top of pump base, 0.3 foot above land surface. No measurements made in 1943.

362 (*909, p. 13; 939, p. 7; 947, p. 10). H. Bothe Estate. NW $\frac{1}{4}$ sec. 22, T. 3 S., R. 2 W. Measuring point, top of pump base, 0.5 foot above land surface. No measurements made in 1943.

364 (*909, p. 14; 939, p. 7; 947, p. 10). J. T. McWilliams. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 3 S., R. 2 W. Measuring point, top of pump base, at land surface. No measurements made in 1943.

374A (*886, p. 12; 947, p. 10). Charles W. MacDougall. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 4 S., R. 5 W. No measurements made in 1943.

378 (*886, p. 13; 939, p. 7; 947, p. 10). Yeske. Near SE corner sec. 13, T. 4 S., R. 5 W. Measuring point, top of pump base, 0.2 foot above land surface. No measurements made in 1943.

392A (*777, p. 15; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). Fred E. Hillman. SW $\frac{1}{4}$ sec. 1, T. 4 S., R. 4 W. No measurements made in 1943.

412 (*840, p. 19; 845, p. 12; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). Fred Dupslaff. NW $\frac{1}{4}$ sec. 5, T. 4 S., R. 2 W. Measuring point, top of outer raised rim of pump base, at land surface. No measurements made in 1943.

414 (*840, p. 19; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). J. T. McWilliams. Near NE corner sec. 11, T. 4 S., R. 2 W. No measurements made in 1943.

415 (*909, p. 14; 939, p. 7; 947, p. 10). J. W. Watkins. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 4 S., R. 2 W. Measuring point, top of outer raised rim of pump base, at land surface. No measurements made in 1943.

437 (*886, p. 13; 909, p. 11; 939, p. 7; 947, p. 10). B. L. Williams. Near SW corner sec. 7, T. 5 S., R. 4 W. No measurements made in 1943.

440 (*845, p. 11; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). American Southern Trust Co. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 5 S., R. 4 W. Measuring point, base of pump at hole on north side, at land surface. No measurements made in 1943.

456 (*777, p. 15; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). E. W. McCuskey. Near NW corner NE $\frac{1}{4}$ sec. 13, T. 5 S., R. 3 W. Measuring point, top of raised rim of pump base, 0.5 foot above land surface. No measurements made in 1943.

457 (*939, p. 8). Missouri State Life Insurance Co. (?) SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 5 S., R. 3 W. Measuring point, top of pit, at land surface. Well destroyed; measurements discontinued.

461 (*886, p. 13; 909, p. 11). Dewitt Bank & Trust Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 5 S., R. 2 W. Measuring point, bottom edge of hole in side of pump, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 3:35 p.m., $\frac{a}{61.18}$.

475 (*840, p. 20; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7). Ben Lowe. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 6 S., R. 3 W. Measuring point, top of pump base, 0.5 foot above land surface. No measurements made in 1943.

491 (*909, p. 16; 939, p. 7; 947, p. 10). Cunningham & Felt. Spanish grant 2358, equivalent to sec. 24, T. 7 S., R. 4 W. Measuring point, top of pump base, about 0.1 foot above land surface. No measurements made in 1943.

492 (*909, p. 16; 939, p. 7; 947, p. 10). A. M. Lowe. SE corner sec. 3, T. 7 S., R. 3 W. Measuring point, top of iron plate on which pump rests, at land surface. No measurements made in 1943.

499 (*777, p. 16; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). Quandt & Lowe. Spanish grant 2300, equivalent to sec. 27 or 34, T. 7 S., R. 3 W. No measurements made in 1943.

501 (*777, p. 16; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). W. J. Bohnert. SW $\frac{1}{4}$ (?) sec. 32, T. 7 S., R. 3 W. No measurements made in 1943.

506 (*840, p. 22; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). J. M. Satchfield. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T. 7 S., R. 2 W. No measurements made in 1943.

507 (*777, p. 17; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 11; 909, p. 11; 939, p. 7; 947, p. 10). J. M. Satchfield. Near SW corner sec. 16, T. 7 S., R. 2 W. Measuring point, top of pit, at land surface. No measurements made in 1943.

* 514 (*909, p. 17; 939, p. 7; 947, p. 10). J. M. Satchfield. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 7 S., R. 2 W. No measurements made in 1943.

B87 (*909, p. 17; 939, p. 7; 947, p. 10). W. E. Boyd. Center north side sec. 31, T. 2 S., R. 5 W. Measuring point, hole north side, 1.9 feet above land surface. No measurements made in 1943.

B91 (*909, p. 17; 939, p. 7; 947, p. 10). Enders. SE $\frac{1}{4}$ sec. 10, T. 2 S., R. 4 W. Measuring point, hole in west side, 0.4 foot above land surface. No measurements made in 1943.

B110 (*909, p. 17; 939, p. 7; 947, p. 10). N $\frac{1}{2}$ sec. 20, T. 3 S., R. 5 W. Measuring point, hole in southwest side, 0.5 foot above land surface. No measurements made in 1943.

B133 (*909, p. 17; 939, p. 7; 947, p. 10). Snow Wilson (Goetz). SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 4 S., R. 5 W. Measuring point, top of pit, 0.4 foot above land surface. No measurements made in 1943.

B171 (*909, p. 17; 939, p. 7; 947, p. 10). South side sec. 13, T. 5 S., R. 3 W. Measuring point, edge of pit on east side, 0.5 foot above land surface. No measurements made in 1943.

B189 (*909, p. 18; 939, p. 7; 947, p. 10). W. J. Bohnert. NW $\frac{1}{4}$ sec. 32, T. 7 S., R. 3 W., on State Highway 1. Measuring point, edge of hole, in side of pump. No measurements made in 1943.

B192 (*909, p. 18; 939, p. 7; 947, p. 10). Sec. 5, T. 8 S., R. 3 W. Measuring point, edge of outer raised rim of base on east side, about 1 foot above land surface. No measurements made in 1943.

a. Measured through discharge pipe.

Jefferson County

270 (*840, p. 17; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). V. D. Harlin. NW $\frac{1}{4}$ (?) sec. 24 (?), T. 3 S., R. 7 W. No measurements made in 1943.

Lonoke County

1 (*840, p. 15; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). NW. corner sec. 11, T. 2 N., R. 9 W. No measurements made in 1943.

5 (*909, p. 18; 939, p. 9; 947, p. 10). Carl Lilly. SE. corner SW $\frac{1}{4}$ sec. 31, T. 3 N., R. 7 W. Measuring point, top of raised outer flange of pump base, 0.6 foot above land surface. No measurements made in 1943.

8 (*840, p. 16; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). Owner unknown. Near NW. corner sec. 4, T. 2 N., R. 8 W. Measuring point is 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 11:30 a.m., 51.25.

10 (*777, p. 8; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). G. G. Fitch. Near NW. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 2 N., R. 8 W. Measuring point, top of pit, at land surface. No measurements made in 1943.

19 (*909, p. 19; 939, p. 9; 947, p. 10). Charles G. Miller. SW $\frac{1}{4}$ sec. 26, T. 2 N., R. 8 W. Measuring point, bottom of hole in side of pump, about 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 3:00 p.m., 51.46.

27 (*909, p. 19; 939, p. 9; 947, p. 10). J. T. Kelly. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 2 N., R. 7 W. Measuring point is 0.7 foot above land surface. No measurements made in 1943.

28 (*840, p. 16; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). G. Koch. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 2 N., R. 7 W. Measuring point, top of pump base, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: May 2, 3:05 p.m., 69.18.

37 (*909, p. 19; 939, p. 9; 947, p. 10). SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 2 N., R. 7 W. Measuring point, bottom of hole in side of pump, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 3:10 p.m., 57.81.

61 (*886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). Lonoke County Bank, Bishop farm. 15 miles north of SW. corner SW $\frac{1}{4}$ sec. 4, T. 1 N., R. 8 W. Measuring point, bottom of hole in side of pump, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 10:55 a.m., 49.18.

78 (*886, p. 15; 909, p. 18; 939, p. 9; 947, p. 10). J. L. Ducharme. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 1 N., R. 7 W. Well destroyed; measurements discontinued.

126 (*777, p. 10; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). Vennum & Patterson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 1 S., R. 7 W. Measuring point is 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 8:30 a.m., 38.36.

127 (*840, p. 17; 845, p. 9; 886, p. 14; 909, p. 18; 939, p. 9; 947, p. 10). Vennum & Patterson. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 1 S., R. 7 W. Measuring point is 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 8:15 a.m., 35.75.

Monroe County

178 (*909, p. 20; 939, p. 9; 947, p. 10). Kreimeir Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 1 S., R. 4 W. Measuring point is 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 23, 5:25 p.m., 72.69.

193 (*886, p. 15; 909, p. 20; 939, p. 9; 947, p. 10). Hugh H. Burns. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 1 S., R. 3 W. Measuring point, top of pit, about 0.8 foot above land surface. No measurements made in 1943.

Prairie County

45 (*909, p. 20; 939, p. 9; 947, p. 10). Frank Dvorak. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 2 N., R. 6 W. Measuring point is 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 24, 5:55 p.m., 76.00.

55 (*777, p. 9; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). George Jensen (?). Near SW. corner sec. 13, T. 2 N., R. 5 W. Measuring point is 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 23, 4:10 p.m., 59.16.

88 (*886, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). Herman Hardke. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 1 N., R. 6 W. Measuring point is 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 22, 12:10 p.m., 61.31.

97 (*909, p. 21; 939, p. 9; 947, p. 10). J. A. Papan. SW. corner sec. 20, T. 1 N., R. 6 W. Measuring point is 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 22, 11:00 a.m., 61.35.

100 (*840, p. 16; 845, p. 9; 836, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). George Ballo. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T. 1 N., R. 6 W. Measuring point is 0.5 foot above land surface. No measurements made in 1943.

110 (*909, p. 21; 939, p. 9; 947, p. 10). F. W. Sickel. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 1 N., R. 5 W. Measuring point is 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 28, 2:45 p.m., 80.35.

122 (*836, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). George Randall. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 1 N., R. 4 W. Measuring point is 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 23, 1:20 p.m., 76.35.

135 (*777, p. 11; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). C. D. Hohe. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 1 S., R. 6 W. Measuring point is 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 21, 1:55 p.m., 45.48.

144 (*777, p. 11; 817, p. 5; 840, p. 15; 845, p. 9; 886, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). Powell. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 1 S., R. 5 W. Measuring point is 2.1 feet above land surface. No measurements made in 1943.

201 (*845, p. 10; 886, p. 16; 909, p. 20; 939, p. 9; 947, p. 10). NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 2 S., R. 6 W., a short distance south of old railroad grade. Measuring point is 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 21, 12:50 p.m., 46.81.

LOUISIANA

By P. H. Jones, W. J. Drescher, and M. C. Pole

PROGRAM OF WORK

An investigation of the ground-water resources of Louisiana by the Geological Survey, United States Department of the Interior, in cooperation with the Geological Survey, Louisiana Department of Conservation, has been in progress since May 1938. Detailed reports have been prepared on Rapides, Grant, La Salle, Caddo, Bossier, Jefferson Davis, and Acadia Parishes; special studies have been made at Alexandria, Bunkie, Colfax, Natchitoches, Baton Rouge, New Orleans, Camp Livingston, Camp Beauregard, Camp Claiborne, and Camp Polk; and preliminary surveys have been made in East Baton Rouge, Tangipahoa, and St. Tammany Parishes. In connection with the study of ground-water conditions in the rice-irrigation region in the southwestern part of the State, the Louisiana Department of Public Works entered into the cooperation in 1943, and additional work was begun in Lafayette and Calcasieu Parishes.

As part of the general investigation of ground-water resources, the systematic observation of water levels in key wells throughout the State was continued in 1943. In all, 1,426 individual measurements of water level were made during the year in 126 wells in 19 parishes. (See fig. 2.) Weekly measurements were made in 7 wells in Rapides Parish, 7 wells in East Baton Rouge Parish, and 1 well in St. Charles Parish, and monthly measurements were made in 53 wells in the area covered by Acadia, Allen, Calcasieu, East Baton Rouge, Evangeline, Jefferson Davis, and West Baton Rouge Parishes. Measurements were made at irregular intervals in 58 other wells. All measurements were made by or under the supervision of members of the technical staff engaged in ground-water investigations with the exception of those for well Sc-6 at Norco, well Al-29 at Elizabeth, and some of the wells near Baton Rouge; measurements in these wells were obtained through the cooperation of J. L. Davies, of the Shell Oil Co., W. E. Emigh, of the Calcasieu Sulphate Paper Co., and H. P. Connell, of the Baton Rouge Water Works Co., respectively.

Much of the observation-well program during the 3-year period 1940-43 has been directly concerned with water supplies for military establishments and war plants. (See figs. 2 and 3.) Records were continued in 1943 for wells at Camp Livingston, Camp Beauregard, and Camp Claiborne, as well as for many industrial wells at chemical plants in Baton Rouge and Lake Charles. A detailed report on ground-water conditions at Camp Polk and North Camp Polk ^{1/} was submitted to the Corps of Engineers, United States Army, July 1, 1943. About the same time a report embodying the results ^{2/} of a 3-year investigation in the rice-irrigation region was transmitted to the Louisiana Department of Conservation for publication. During the fall, the well records and water analyses for wells in Caddo and Bossier Parishes were issued in mimeographed form by the Louisiana Department of Public Works. On December 1, 1943, a final report ^{3/} on the ground-water exploration project at Alexandria was completed.

FLUCTUATIONS OF WATER LEVEL

Northern Louisiana.--No ground-water investigations were made in northern Louisiana during 1943 and only one key well was measured. In this well, which is located near the paper mills at Bastrop, in Morehouse Parish (see figs. 2 and 3), no appreciable change in water level from the preceding year is indicated.

Central Louisiana.--Observations were continued in 1943 on 20 wells in Rapides, Grant, La Salle, and Avoyelles Parishes. The measurements of water level made in the 20 wells in these four parishes were apportioned as follows: 342 in 14 wells in Rapides Parish, 6 in 3 wells in Grant Parish, 3 in 2 wells in La Salle Parish, and 2 in 1 well in Avoyelles Parish. The water levels, on the days they were measured, in wells in Grant, La Salle, and Avoyelles Parishes, where consumption is small, were at stages comparable to their stages on the corresponding days in 1942.

^{1/}Maher, J. C., Guyton, W. F., Drescher, W. J., and Jones, P. H., Ground-water conditions at Camp Polk and North Camp Polk, La.: U. S. Geol. Survey, 29 pp., 1943. (Typewritten report in open files.)

^{2/}Stanley, T. B., Jr., and Maher, J. C., Ground-water resources of Jefferson Davis and Acadia Parishes, La., prepared in cooperation with the Geological Survey of the Louisiana Department of Conservation: U. S. Geol. Survey, 44 pp., 1943. (Typewritten report in open files.)

^{3/}Maher, J. C., and Jones, P. H., Ground-water exploration and development in the Bayou Rapides well field, Alexandria, La., prepared in cooperation with the Geological Survey of the Louisiana Department of Conservation: U. S. Geol. Survey, 26 pp., 1943. (Typewritten report in open files.)

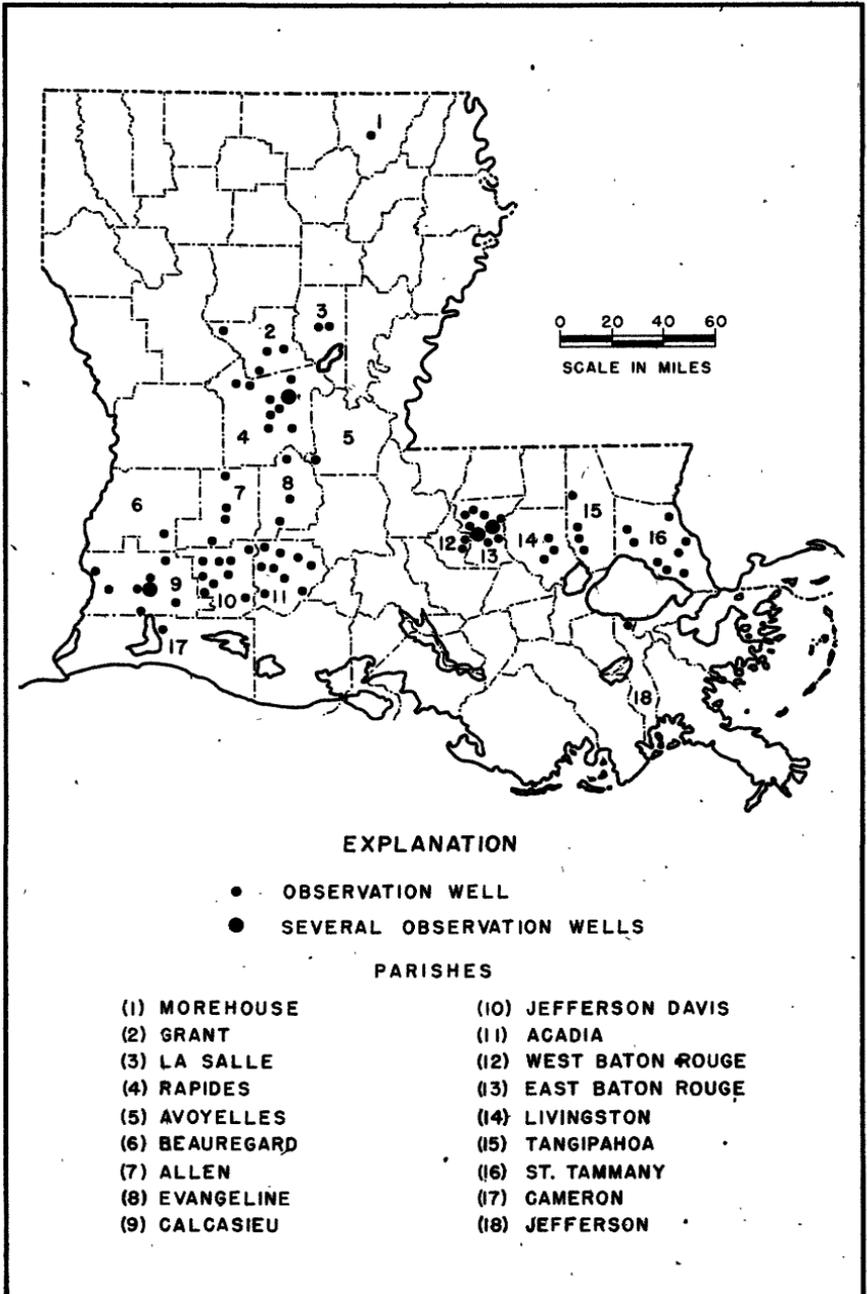


Figure 2.--Map of Louisiana showing location of observation wells.

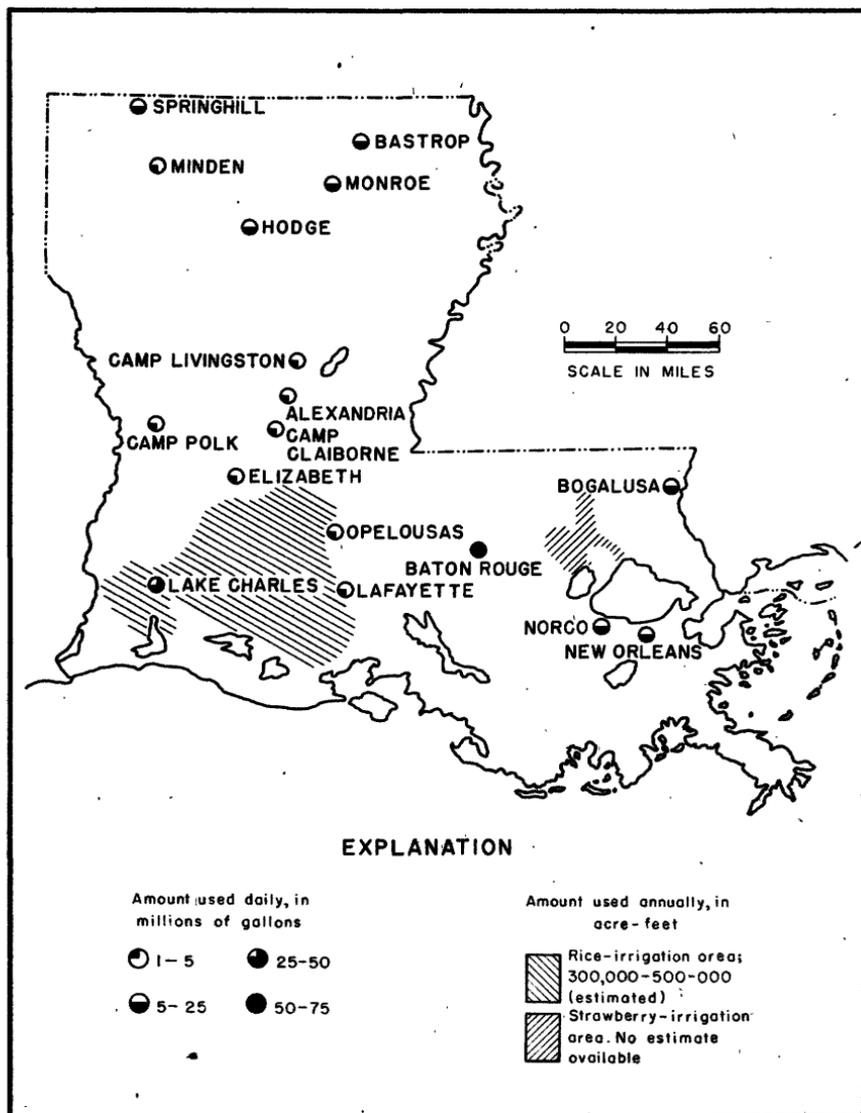


Figure 3.--Map of Louisiana showing areas in which large amounts of ground water are used.)

The water levels in wells in Rapides Parish in and near Alexandria continued to decline until August (see graphs of fluctuations in wells 26 and 35 in fig. 4), when the pumpage from municipal wells within the city limits was reduced. This reduction of pumpage was made possible by the completion of the Bayou Rapides well field, 6 miles northwest of the city. The water levels in wells 26 and 35 recovered about 25 and 14 feet, respectively, during the period September 1, 1943, to January 1, 1944. Despite these rises, the average weekly water level in well 26, near the Monroe Street pumping station, was 18.15 feet lower than in 1942 and 48.89 feet lower than in 1939, and in well 35, near the City Park pumping station, was 13.90 feet lower than in 1942 and 52.41 feet lower than in 1939. By means of the following table, a comparison may be made of the average weekly water levels in each of these wells during the period 1939-43.

Average weekly water level, in feet below measuring point, in wells 26 and 35, at Alexandria, La., 1939-43

<u>Year</u>	<u>Well 26</u>	<u>Well 35</u>
1939	96.95	99.57
1940	98.20	108.43
1941	107.92	118.87
1942	127.69	138.08
1943	145.84	151.98

At Camp Livingston there are both deep and shallow wells. The water level in well 344, screened in a deep Miocene sand, ranged in stage during 1943 from 180 to more than 200 feet below the land surface, fluctuating with the irregular use of the deep wells to supplement the surface-water supply from Big Creek. In well 381, which taps the relatively undeveloped shallow Pleistocene sand and gravel, the water level declined about $1\frac{1}{2}$ feet. This may be attributed, in part, to the deficiency of rainfall during the year. In December, when there was an increase in precipitation, a slight recovery began.

At the end of 1943 the water levels in the deep wells at Camp Claiborne were at about the same stage as at the end of 1942--70 feet below the land surface. Very little water has been used from the deep wells since the shallow Pleistocene wells were developed, in 1941. Relatively small declines of water level have taken place in these shallow wells, as indicated by the fact that the level in well 368 declined only 4 feet in 1943 and only 15 feet in the $2\frac{1}{2}$ -year period ending December 31, 1943, despite the constant pumping of 400 gallons a minute from well 367, which is only 50 feet away.

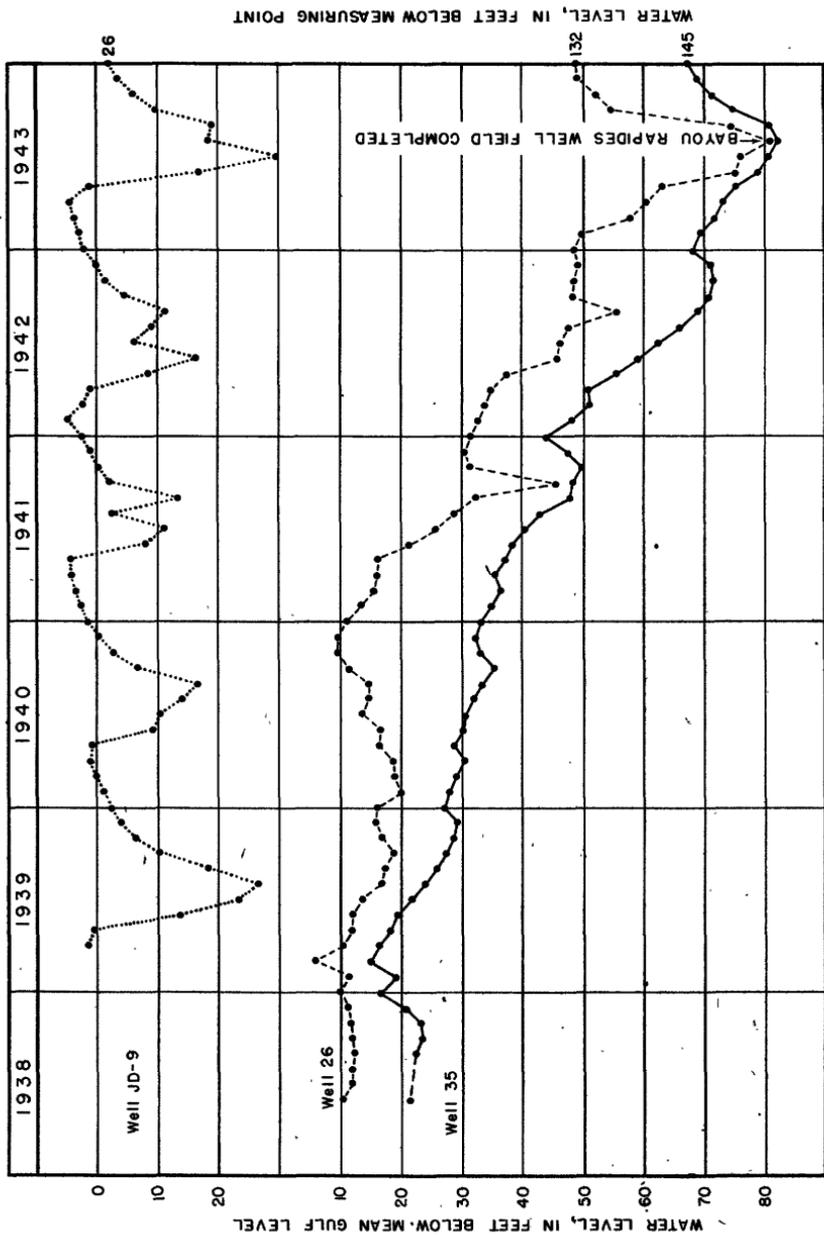


Figure 4.--Graphs showing fluctuations of water level in well 9 in Jefferson Davis Parish and wells 26 and 35 in Rapides Parish, 1938-43.

Southwestern Louisiana.--Monthly observations of water level were made in 6 wells in Calcasieu Parish, 3 wells in Jefferson Davis Parish, 2 wells in Allén Parish, and 1 well each in Acadia and Evangeline Parishes. In addition, observations were made at irregular intervals on 8 wells in Acadia Parish, 5 wells in Jefferson Davis Parish, 4 wells in Calcasieu Parish, 2 wells each in Allen and Evangeline Parishes, and 1 well each in Beauregard and Cameron Parishes. Water-level recorders were operated on wells Cu-13, Cu-22, and Cu-34, in the Lake Charles industrial area of Calcasieu Parish, on well JD-9, near Welsh, in Jefferson Davis Parish, and on well Al-29, at Elizabeth, in Allen Parish.

Rainfall during the summer of 1943 was below normal, and water levels in the rice-irrigation wells were lower than in 1942 both because of this and because of the increased pumpage. Listed below are the average monthly water levels, by years, during the period 1939-42, in well JD-9, a typical well in this part of the State. From this list it will be seen that the average monthly water level in this well was 3.80 feet lower in 1943 than in 1942. (See also fig. 4.)

Average monthly water level, in feet below measuring point, in well JD-9, near Welsh, La., 1939-43

1939	32.97
1940	29.49
1941	26.39
1942	28.56
1943	32.36

Water levels in the vicinity of the industrial area at Lake Charles continued to decline in 1943, owing to the increase in industrial pumpage. The industrial wells are completed at depths of approximately 200 feet, 500 feet, and 700 feet. The water-bearing formations are Pleistocene sands and gravels that dip in a southerly direction and correlate with the thick beds of Pleistocene sand and gravel that furnish water for rice irrigation to the east of Lake Charles.

Southeastern Louisiana.--In Livingston and Tangipahoa Parishes, 21 measurements of artesian head were made in 11 wells less than 700 feet deep and in 1 well 1,750 feet deep. The shallow wells in Tangipahoa Parish showed declines ranging from 0.5 foot to about 4 feet, owing largely to the unusually dry weather during the strawberry growing season and the resultant increase in the use of ground water for irrigation. Crops that

were not irrigated were in large part lost. The deep well Li-16, at Holden, still had a greater artesian head than any other observation well in the State. However, the reading for 1943 of 50 pounds per square inch (115 feet) indicates a loss of 5 pounds (11 feet) during the year and about 11 pounds (25 feet) since 1939.

In St. Tammany Parish, 15 measurements made in 8 key wells showed only minor changes, slight declines being recorded in some wells and slight rises in others. In Jefferson Parish the water level in the "700-foot" sand, from which semibrackish water is drawn for industrial use in New Orleans, also remained fairly constant. Samples of water from wells in this sand in New Orleans did not reveal any decided change in chloride content.

In March 1943 a water-level recorder was installed at Norco, St. Charles Parish, in an abandoned "400-foot" well (Sc-6) at the Shell Oil Co. refinery, where large quantities of semibrackish to brackish water are pumped for use in cooling operations. The decline of 2 feet recorded during the last 9 months of 1943 is not regarded as particularly serious in view of the increased consumption.

The observation-well program in Baton Rouge and vicinity was expanded in 1943 to include 46 key wells in East Baton Rouge Parish and 3 wells in West Baton Rouge Parish, in which, together, 792 measurements were made during the year. Of these, 369 measurements in 39 of the newly established observation wells were supplied by the Baton Rouge Water Works Co. These wells, ranging in depth from about 400 to 2,250 feet, are screened in the same sands that supply the local industrial and municipal needs. Because of the constantly increasing demands of newly completed industrial plants, the maximum daily consumption of ground water during the summer of 1943 probably exceeded by 10 to 20 percent the maximum reported in 1942, which was 53 million gallons.

The greatest declines of water level in 1943 were recorded for wells in the "400-foot" and "600-foot" sands, which supply the larger part of the water used in cooling operations. Figure 5 shows the decline of the water levels in wells EB-15, EB-74, and EB-128, which are screened in these sands. The following table provides a convenient means of comparing the average weekly water level in each of these wells, by years, during the period 1941-43.

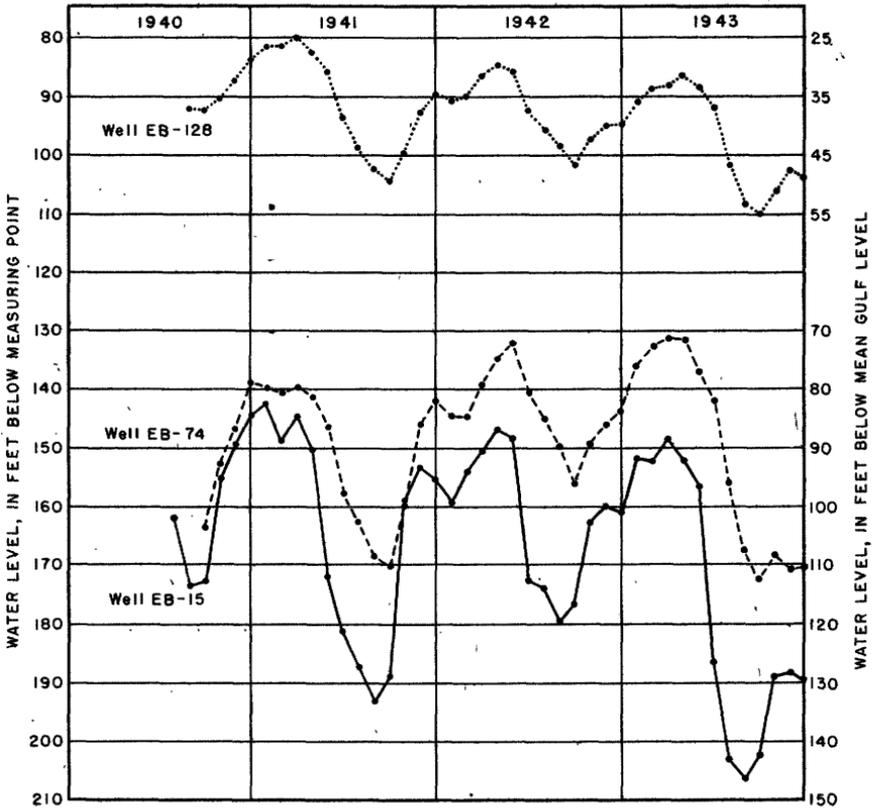


Figure 5.--Graphs showing fluctuations of water level in three wells in East Baton Rouge Parish, 1940-43.

Average weekly water level, by years, in feet below measuring point, and net change in water level, in feet with reference to measuring point, in six wells at Baton Rouge, La., 1941-43

Year	EB-15	EB-22	EB-45	EB-53	EB-74	EB-128
1941	163.30	167.65	147.65	130.12	151.37	90.91
1942	162.73	167.21	148.83	125.18	143.66	92.43
1943	175.89	179.43	159.07	132.72	150.28	96.67
Net change	-12.59	-11.78	-11.42	-2.60	-1.09	-5.76

The rapid increase in the number of wells for industrial use in the water sands ranging in depth from 1,500 to 2,550 feet has resulted in a pronounced lowering of water level and artesian head in these aquifers. Since the wartime construction began, many such wells have been drilled. As a result of the increased pumpage, the water levels have fallen below the land surface for the first time in several large wells in the industrial area. A change from suction pumps to deep well turbines was necessary in some wells to maintain the water supply. Declines of 5.6 feet to 24 feet were observed in wells deeper than 1,500 feet.

The wells least affected by the increased industrial pumpage range from 1,000 to 1,500 feet in depth and include many hundreds of small domestic wells scattered throughout the two parishes. Only small declines, ranging from 0.5 foot to 4.6 feet, were observed in these wells.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Acadia Parish

Ac-5 (*886, p. 232; 909, p. 28; 939, p. 16; 947, p. 20). Mrs. W. S. Bruner. NW $\frac{1}{4}$ sec. 15, T. 8 S., R. 2 E. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 3.70 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 1:20 p.m., 40.66; May 17, 3:10 p.m., 50.00; Sept. 28, 3:00 p.m., 50.68.

Ac-7 (*886, p. 233; 909, p. 28; 947, p. 20). Lozen Leger. NE $\frac{1}{4}$ sec. 9, T. 10 S., R. 2 E. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 2.9 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 1:50 p.m., 25.11; Sept. 28, 2:06 p.m., 32.73.

Ac-22 (*886, p. 233; 909, p. 28; 939, p. 16; 947, p. 20). Harry Frey. Sec. 19, T. 7 S., R. 1 E. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 3.5 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 12:20 p.m., 39.17; Sept. 28, 3:25 p.m., 52.40.

Ac-34 (*886, p. 233; 909, p. 29; 939, p. 16; 947, p. 20). Dr. F. N. Hayes. SW $\frac{1}{4}$ sec. 10, T. 7 S., R. 2 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 6.4 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 4:25 p.m., 38.44; Sept. 28, 4:59 p.m., 50.19.

Ac-35 (*886, p. 233; 909, p. 29; 939, p. 16; 947, p. 20). Onezime Doucet. NW $\frac{1}{4}$ sec. 22, T. 8 S., R. 2 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 2.2 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 3:50 p.m., 34.90; Sept. 28, 4:35 p.m., 46.40.

Ac-40 (*886, p. 234; 909, p. 29; 939, p. 16; 947, p. 21). H. A. Kerr. NE $\frac{1}{4}$ sec. 1, T. 9 S., R. 1 W. Measuring point is level with land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 21	3:01 p.m.	28.05	July 30	2:50 p.m.	49.81
29	10:30 a.m.	27.69	Aug. 30	3:00 p.m.	49.29
Feb. 26	11:15 a.m.	27.00	Sept. 28	3:55 p.m.	38.32
Mar. 29	2:50 p.m.	26.10	Oct. 29	11:30 a.m.	35.80
Apr. 30	11:40 a.m.	29.03	Nov. 26	2:10 p.m.	33.76
May 25	2:30 p.m.	48.15	Dec. 28	2:30 p.m.	31.71
June 28	2:30 p.m.	48.99			

Ac-56 (*886, p. 234; 909, p. 29; 939, p. 17; 947, p. 21). Henry Bieber. NW $\frac{1}{4}$ sec. 36, T. 7 S., R. 1 E. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 4.3 feet. Water level, in feet below land-surface datum, 1943: Jan. 21, 12:55 p.m., 43.34.

Ac-175 (*886, p. 235; 909, p. 30; 939, p. 17; 947, p. 21). Leon Lappleau. North line sec. 46, T. 10 S., R. 2 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 12.25 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 1:30 p.m., 8.28; Oct. 1, 2:15 p.m., 15.44.

Ac-179 (*886, p. 235; 909, p. 30; 939, p. 17; 947, p. 21). Dr. F. N. Hayes. NW $\frac{1}{4}$ sec. 34, T. 8 S., R. 1 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 6.5 feet. Water levels, in feet below land-surface datum, 1943: Jan. 21, 3:20 p.m., 30.86; Sept. 28, 4:10 p.m., 42.28.

Allen Parish

Al-7 (*909, p. 30; 939, p. 17; 947, p. 21). M. Carroll. NW $\frac{1}{4}$ sec. 36, T. 4 S., R. 4 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 3.6 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 10:40 a.m., 49.01; May 14, 10:00 a.m., 47.00; Sept. 16, 11:10 a.m., 49.78; Oct. 29, 4:30 p.m., 35.16.

Al-16 (*909, p. 31; 939, p. 17; 947, p. 21). Sam Fisher. SE $\frac{1}{4}$ sec. 22, T. 5 S., R. 4 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 5.6 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 11:10 a.m., 38.04; Sept. 16, 11:35 a.m., 39.51.

Al-17 (*909, p. 31; 939, p. 17; 947, p. 21). Town of Kinder. Abandoned air-lift well located near south wall of waterworks building, in Kinder. Measuring point is 4.69 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 29	4:10 p.m.	31.52	July 30	11:30 a.m.	33.95
Feb. 25	4:50 p.m.	31.10	Aug. 30	11:30 a.m.	34.36
Mar. 29	11:40 a.m.	30.55	Sept. 28	11:00 a.m.	34.06
Apr. 30	5:45 p.m.	30.00	Nov. 26	11:00 a.m.	33.72
May 28	10:50 a.m.	31.69	Dec. 28	10:30 a.m.	33.27
June 28	11:00 a.m.	33.19			

Al-29 (*909, p. 31; 939, pp. 17, 18; 947, p. 21). Calcasieu Sulphate Paper Co. In Elizabeth, east of paper mill. Measuring point is 2.65 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Jan. 28	11:30 a.m.	49.70	July 30	8:45 a.m.	51.95
Feb. 24	10:00 a.m.	50.52	Aug. 27	.....	52.85
Apr. 2	12:30 p.m.	51.87	Oct. 1	8:30 a.m.	51.95
30	9:45 a.m.	50.90	29	8:00 a.m.	51.05
May 28	10:45 a.m.	51.00	Dec. 3	8:00 a.m.	48.75
July 2	8:00 a.m.	51.10	28	8:15 a.m.	44.35

Avoynes Parish

Av-18 (*845, p. 146; 886, p. 236; 909, p. 31; 939, p. 18; 947, p. 22). Haas Investment Co. On Shirley Plantation, on parish line, in sec. 28, T. 1 S., R. 2 E. Measuring point is 1.55 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: July 17, 5:10 p.m., 21.27; Dec. 10, 3:47 p.m., 25.65.

Beauregard Parish

Be-2. Southern Pacific Railway. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 6 S., R. 8 W., 400 yards south of U. S. Highway 190, 40 feet west of railroad tracks. Abandoned drilled well, diameter 6 inches, depth about 200 feet. Measuring point, top of 6-inch casing, 0.2 foot above land-surface datum. Water levels in feet below land-surface datum, 1943: Aug. 12, 42.35; Sept. 8, 42.52.

Calcasieu Parish

Cu-2 (*909, p. 32; 939, p. 18; 947, p. 22). Town of Vinton. Westernmost of three air-lift wells at ice plant, in Vinton. Measuring point is 3.0 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: July 16, 2.39; Sept. 8, 4.34; Dec. 30, 4.28.

Cu-5 (*909, p. 32; 939, p. 18; 947, p. 22). Jim Turner. SE $\frac{1}{4}$ sec. 8, T. 8 S., R. 8 W. Measuring point is 1.7 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 29	3:05 p.m.	9.33	Sept. 8	4:24 p.m.	14.84
May 14	12:00 noon	8.33	Oct. 1	8:20 a.m.	14.27
July 27	1:15 p.m.	14.51	26	3:45 p.m.	14.15
Aug. 12	10:00 a.m.	13.66			

Cu-8 (*909, p. 32; 939, p. 18; 947, p. 22). Krause & Managan Lumber Co., Ltd. SE $\frac{1}{4}$ sec. 15, T. 9 S., R. 9 W. Measurements discontinued.

Cu-13. Magnolia Petroleum Co. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, T. 10 S., R. 9 W., 1.5 miles south of U. S. Highway 90, 200 feet east of gravel road. Abandoned drilled well, diameter 12 to 6 inches, depth 716 feet. Measuring point, top of doorsill, 0.31 foot above concrete base, 0.7 foot above land-surface datum. Water-stage recorder installed Jan. 21, 1943.

Water level, in feet below land-surface datum, 1943
(From recorder charts beginning Jan. 21)

Jan. 5	.....	11.73	July 6	4:00 p.m.	22.86
21	.....	12.45	29	2:00 p.m.	15.83
Feb. 25	11:17 a.m.	12.60	Aug. 27	1:35 p.m.	14.24
Mar. 26	12:45 p.m.	13.71	Oct. 1	10:15 a.m.	14.35
Apr. 29	1:33 p.m.	17.18	26	1:05 p.m.	13.88
May 27	1:05 p.m.	20.56	Nov. 26	8:50 a.m.	14.89
June 25	1:45 p.m.	22.50	Dec. 30	1:00 p.m.	13.55

Cu-18. W. T. Burton. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 10 S., R. 9 W., 3.6 miles south of U. S. Highway 90, on west bank of Calcasieu River. Abandoned drilled well, diameter 4 inches, depth 330 feet. Measuring point, top of 2- to 4-inch reducer, 2.3 feet above land-surface datum.

Cu-18. W. T. Burton--Continued.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	.....	27.86	July 29	3:00 p.m.	29.88
21	.....	27.10	Aug. 27	2:40 p.m.	31.31
Feb. 25	.....	27.55	Sept. 10	11:30 a.m.	31.64
Mar. 26	1:50 p.m.	27.63	Oct. 1	12:00 noon	31.39
Apr. 29	3:20 p.m.	27.76	26	2:00 p.m.	31.66
May 26	2:20 p.m.	28.75	Nov. 26	9:50 a.m.	31.79
June 25	2:45 p.m.	29.43	Dec. 30	1:50 p.m.	32.05

Cu-19. Bell Estate. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 10 S., R. 10 W., 2.5 miles south of U. S. Highway 90, 150 feet east of Highway 104. Abandoned drilled well, diameter 7 $\frac{1}{2}$ to 4 inches, depth 488 feet. Measuring point, top of casing, 0.8 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	.....	5.01	Aug. 19	9:10 a.m.	12.98
21	.....	5.21	Sept. 10	10:40 a.m.	13.66
Feb. 24	.....	5.80	Oct. 1	11:40 a.m.	13.80
Mar. 26	2:25 p.m.	5.96	26	2:30 p.m.	12.75
Apr. 29	4:00 p.m.	6.09	Nov. 26	10:08 a.m.	11.90
May 26	3:00 p.m.	6.67	Dec. 30	2:15 p.m.	12.37

Cu-22. Magnolia Petroleum Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 10 S., R. 9 W., 2.4 miles south of U. S. Highway 90, 0.6 mile east of State Highway 382. Abandoned drilled well, diameter 13-3/8 to 7 inches, depth 560 feet. Water-stage recorder installed Apr. 21, 1943. Measuring point, floor of recorder shelter, 1.62 feet above top of casing, 2 $\frac{1}{2}$ feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Apr. 21	4:30 p.m.	7.70	Sept. 10	11:50 a.m.	17.74
May 26	1:40 p.m.	10.36	Oct. 1	10:50 a.m.	18.23
June 25	2:15 p.m.	12.96	26	1:35 p.m.	13.62
July 29	2:30 p.m.	13.84	Nov. 26	9:25 a.m.	12.77
Aug. 27	2:08 p.m.	16.46	Dec. 30	1:25 p.m.	14.00

Cu-59. Thomas Simmons. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 9 S., R. 9 W., 0.75 mile northwest of West Lake. Abandoned drilled well, diameter 3 to 2 $\frac{1}{2}$ inches, depth 167 feet. Measuring point, top of casing, 1.2 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 21	.....	64.10	July 29	1:20 p.m.	69.38
Feb. 25	.....	66.35	Aug. 27	1:15 p.m.	70.35
Mar. 26	12:30 p.m.	60.29	Sept. 9	3:35 p.m.	70.33
Apr. 20	11:30 a.m.	65.75	Oct. 1	9:55 a.m.	70.54
29	1:20 p.m.	66.43	26	12:30 p.m.	68.42
May 26	12:50 p.m.	67.78	Nov. 26	8:20 a.m.	70.40
June 25	1:30 p.m.	68.16	Dec. 30	12:40 p.m.	69.76

Cu-120. Mathieson Alkali Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 11 S., R. 10 W., 0.25 mile east of Ellender Ferry, 60 feet south of State Highway 104. Abandoned drilled well, diameter 4 inches, depth 700 feet. Measuring point, top of 4- to 1-inch bushing, 1.0 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Aug. 19, 4.32; Sept. 8, 10:04 a.m., 5.07.

Cu-170. A. L. Gayle. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 11 S., R. 8 W., 1.25 miles south of State Highway 42, 4 miles west of Holmwood. Domestic drilled well, diameter 4 inches, depth 285 feet. Measuring point, top of casing, 1 $\frac{1}{2}$ feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Sept. 29, 13.60.

Cu-222. Hardy Johnson. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 9 S., R. 13 W., at site of old roundhouse, 2 miles southwest of Starks. Abandoned drilled well, diameter 6 to 4 inches, depth 400 feet. Measuring point, top of 4- to 2-inch bushing, 2.0 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 7, 2.76.

Cameron Parish

Cn-8. Broussard Estate. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 12 S., R. 9 W., 100 yards south of State Highway 931, 0.5 mile east of State Highway 211. Abandoned drilled well, diameter 6 inches, depth 744 feet. Measuring point, top of 2-inch nipple in 6- to 2-inch bushing on top of casing, 2.0 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Aug. 21, 0.87; Sept. 9, 12:50 p.m., 1.67.

East Baton Rouge Parish

EB-15 (*909, p. 32; 939, p. 19; 947, p. 23). Standard Oil Co. of Louisiana. At Baton Rouge refinery, southeast of tank 67. Measuring point is 1.4 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Jan. 1	10:10 a.m.	157.65	July 9	12:00 noon	192.00
8	10:00 a.m.	155.23	16	9:45 a.m.	195.90
15	9:55 a.m.	153.57	23	9:23 a.m.	193.90
22	8:35 a.m.	152.22	30	9:20 a.m.	201.57
29	10:15 a.m.	150.11	Aug. 6	9:23 a.m.	202.83
Feb. 5	10:40 a.m.	149.35	12	5:12 p.m.	204.03
12	10:15 a.m.	147.07	20	11:20 a.m.	203.45
19	10:05 a.m.	149.64	27	11:00 a.m.	202.71
26	4:05 p.m.	151.20	Sept. 3	9:45 a.m.	205.26
Mar. 5	10:00 a.m.	152.82	11	10:25 a.m.	206.93
12	10:00 a.m.	151.64	17	9:30 a.m.	203.69
19	10:40 a.m.	149.18	24	10:10 a.m.	205.82
26	10:15 a.m.	150.63	Oct. 1	11:10 a.m.	200.82
Apr. 2	10:10 a.m.	147.13	8	10:15 a.m.	192.33
9	10:20 a.m.	148.03	15	3:00 p.m.	184.69
16	10:05 a.m.	149.13	22	11:05 a.m.	189.44
23	10:00 a.m.	148.18	29	10:15 a.m.	187.78
30	10:15 a.m.	150.53	Nov. 5	12:05 p.m.	186.60
May 7	2:35 p.m.	153.95	12	11:25 a.m.	188.10
14	9:40 a.m.	156.00	19	10:35 a.m.	184.68
21	10:55 a.m.	157.55	26	12:15 a.m.	188.10
28	10:30 a.m.	155.06	Dec. 3	10:55 a.m.	187.21
June 4	10:40 a.m.	156.32	10	10:20 a.m.	185.89
11	9:40 a.m.	165.30	17	10:05 a.m.	187.18
18	10:15 a.m.	171.76	24	11:10 a.m.	186.26
25	9:33 a.m.	173.35	31	2:50 p.m.	188.20
July 2	9:22 a.m.	185.31			

EB-22 (*909, p. 33; 939, p. 19; 947, p. 23). Standard Oil Co. of Louisiana. At Baton Rouge refinery, southwest of tank 784. Measuring point is 0.5 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Jan. 1	9:54 a.m.	163.53	Mar. 12	9:45 a.m.	156.07
8	9:40 a.m.	160.50	19	10:25 a.m.	152.29
15	9:35 a.m.	160.93	26	9:55 a.m.	155.24
22	8:25 a.m.	157.86	Apr. 2	9:50 a.m.	154.60
29	9:55 a.m.	158.61	9	9:55 a.m.	156.01
Feb. 5	10:20 a.m.	155.97	16	9:50 a.m.	155.73
12	10:00 a.m.	155.74	23	9:45 a.m.	156.94
19	9:45 p.m.	152.17	30	10:00 a.m.	159.83
26	3:50 p.m.	152.64	May 7	2:15 p.m.	169.49
Mar. 5	9:45 a.m.	152.10	14	9:35 a.m.	166.95

EB-22. Standard Oil Co. of Louisiana--Continued.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
May 21	10:40 a.m.	167.55	Sept. 17	9:10 a.m.	208.51
23	10:15 a.m.	167.23	24	9:50 a.m.	207.72
June 4	10:27 a.m.	168.82	Oct. 1	10:50 a.m.	204.48
11	9:20 a.m.	175.03	8	9:55 a.m.	196.66
18	10:00 a.m.	180.12	16	9:10 a.m.	188.73
25	9:10 a.m.	184.60	22	10:30 a.m.	193.50
July 2	8:55 a.m.	186.67	29	9:55 a.m.	188.79
9	11:45 a.m.	195.00	Nov. 5	11:50 a.m.	190.56
16	9:22 a.m.	197.77	12	11:10 a.m.	189.08
23	9:05 a.m.	200.60	19	10:15 a.m.	182.60
30	9:04 a.m.	203.99	26	11:59 a.m.	185.47
Aug. 6	9:00 a.m.	204.10	Dec. 3	10:40 a.m.	185.65
12	4:55 p.m.	203.95	10	10:05 a.m.	186.49
20	11:05 a.m.	204.93	17	9:50 a.m.	190.13
27	10:40 a.m.	204.33	24	10:47 a.m.	189.17
Sept. 3	9:25 a.m.	207.99	31	2:30 p.m.	187.71
11	9:55 a.m.	208.81			

EB-45 (#909, p. 33; 939, p. 20; 947, p. 24). Standard Oil Co. of Louisiana. At Baton Rouge refinery, east well on dock approach. Measuring point is 15 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 1	10:40 a.m.	132.56	July 9	12:30 p.m.	162.70
8	10:20 a.m.	128.67	16	10:10 a.m.	166.34
15	10:18 a.m.	126.97	23	9:50 a.m.	168.20
22	9:00 a.m.	125.73	30	9:45 a.m.	172.25
29	10:40 a.m.	122.83	Aug. 6	10:00 a.m.	173.85
Feb. 5	11:00 a.m.	123.49	12	5:35 p.m.	175.12
12	10:35 a.m.	121.76	20	11:45 a.m.	175.95
19	10:30 a.m.	124.75	28	11:20 a.m.	175.21
26	4:30 p.m.	127.23	Sept. 3	10:20 a.m.	176.88
Mar. 5	10:25 a.m.	130.65	11	11:00 a.m.	177.19
12	10:23 a.m.	128.50	17	10:50 a.m.	176.50
19	11:05 a.m.	124.90	24	10:35 a.m.	176.75
26	10:35 a.m.	124.99	Oct. 1	11:40 a.m.	164.71
Apr. 2	10:35 a.m.	116.35	8	10:37 a.m.	157.82
9	10:45 a.m.	119.43	15	3:25 p.m.	153.53
16	10:30 a.m.	120.40	22	10:55 a.m.	149.74
23	10:27 a.m.	119.42	29	10:40 a.m.	147.40
30	10:40 a.m.	121.08	Nov. 5	12:25 p.m.	145.97
May 7	3:05 p.m.	123.40	12	11:50 a.m.	146.58
14	10:05 a.m.	125.49	19	11:00 a.m.	142.64
21	11:15 a.m.	131.11	26	12:40 p.m.	146.33
28	10:55 a.m.	127.47	Dec. 3	11:18 a.m.	146.57
June 4	11:06 a.m.	128.15	10	10:45 a.m.	146.37
11	10:10 a.m.	137.78	17	10:24 a.m.	148.44
18	10:40 a.m.	145.35	24	11:35 a.m.	148.90
25	9:55 a.m.	149.77	31	3:08 p.m.	151.30
July 2	9:55 a.m.	154.34			

EB-53 (#909, p. 33; 939, p. 20; 947, p. 24). Standard Oil Co. of Louisiana. At Baton Rouge refinery, west well on dock approach. Measuring point is about 15 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 1	10:30 a.m.	105.57	Feb. 26	4:20 p.m.	95.70
8	10:15 a.m.	100.40	Mar. 5	10:15 a.m.	96.30
15	10:20 a.m.	93.47	12	10:15 a.m.	96.49
22	8:40 a.m.	88.80	19	11:00 a.m.	97.25
29	10:30 a.m.	90.15	26	10:30 a.m.	93.75
Feb. 5	10:55 a.m.	91.90	Apr. 2	10:30 a.m.	91.85
12	10:30 a.m.	97.70	9	10:40 a.m.	89.30
19	10:20 a.m.	93.70	16	10:20 a.m.	91.88

EB-53. Standard Oil Co. of Louisiana--Continued.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Apr. 23	10:20 a.m.	91.80	Sept. 3	10:15 a.m.	151.09
30	10:30 a.m.	96.55	11	10:55 a.m.	153.04
May 7	3:00 p.m.	97.00	17	9:50 a.m.	153.30
14	10:00 a.m.	97.95	24	10:25 a.m.	152.82
21	11:10 a.m.	100.20	Oct. 1	11:30 a.m.	150.06
28	10:45 a.m.	98.50	8	10:30 a.m.	138.43
June 4	11:00 a.m.	97.30	15	3:20 p.m.	131.57
11	10:00 a.m.	99.05	22	10:50 a.m.	134.04
18	10:30 a.m.	91.49	29	10:35 a.m.	144.85
25	9:50 a.m.	97.10	Nov. 5	12:20 p.m.	137.20
July 2	9:45 a.m.	84.40	12	11:40 a.m.	138.11
9	12:20 p.m.	116.00	19	10:50 a.m.	137.90
16	10:00 a.m.	132.20	26	12:30 p.m.	138.10
23	9:40 a.m.	142.45	Dec. 3	11:10 a.m.	137.80
30	9:37 a.m.	146.60	10	10:38 a.m.	139.04
Aug. 6	9:50 a.m.	148.40	17	10:15 a.m.	135.43
12	5:27 p.m.	149.75	24	11:25 a.m.	132.60
20	11:35 a.m.	150.13	31	3:04 p.m.	133.90
27	11:10 a.m.	148.86			

EB-74 (#909, p. 33; 939, p. 21; 947, p. 25). Solvay Process Co. In Baton Rouge, at gate to plant. Measuring point is 0.5 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Jan. 1	9:16 a.m.	142.02	July 9	11:15 a.m.	144.59
8	9:15 a.m.	140.95	16	8:55 a.m.	148.15
15	9:10 a.m.	139.14	23	8:40 a.m.	152.00
22	8:05 a.m.	137.04	30	8:40 a.m.	155.82
29	9:30 a.m.	135.20	Aug. 6	8:40 a.m.	158.85
Feb. 5	9:30 a.m.	134.33	12	6:00 p.m.	161.45
12	9:35 a.m.	134.02	20	10:30 a.m.	164.05
19	9:18 a.m.	133.22	27	10:15 a.m.	165.66
26	3:30 p.m.	132.16	Sept. 3	10:40 a.m.	167.28
Mar. 5	9:15 a.m.	131.68	11	9:25 a.m.	169.05
12	9:13 a.m.	131.40	17	8:45 a.m.	170.39
19	10:00 a.m.	131.27	24	9:15 a.m.	171.25
26	9:25 a.m.	131.02	Oct. 1	10:20 a.m.	172.10
Apr. 2	9:30 a.m.	130.75	8	9:20 a.m.	171.64
9	9:15 a.m.	130.38	15	2:25 p.m.	169.92
16	9:25 a.m.	130.43	22	10:00 a.m.	168.15
23	9:20 a.m.	130.43	29	9:20 a.m.	168.09
30	9:35 a.m.	130.97	Nov. 5	11:15 a.m.	168.38
May 7	1:50 p.m.	131.90	12	10:50 a.m.	169.02
14	9:15 a.m.	133.33	19	10:00 a.m.	169.59
21	10:10 a.m.	134.29	26	11:30 a.m.	170.68
28	9:50 a.m.	136.42	Dec. 3	10:23 a.m.	170.55
June 4	10:05 a.m.	135.30	10	9:40 a.m.	170.53
11	8:38 a.m.	135.68	17	9:25 a.m.	170.55
18	9:35 a.m.	137.16	24	10:18 a.m.	170.40
25	8:45 a.m.	139.45	31	1:50 p.m.	169.70
July 2	8:33 a.m.	141.72			

EB-83. Gulf States Utilities. In Baton Rouge, at power house on Government Street, about 20 feet west of building and 50 feet from street curb. Drilled industrial well, diameter 8 inches, depth 1,821 feet. Measuring point, top edge of $\frac{1}{2}$ -inch fitting in cock, 1.2 feet below land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Feb. 23	.....	+14.80	June 3	.....	+1.1
Apr. 21	.....	+4.9	Nov. 11	.....	-7.71
May 6	.....	+2.4	20	9:10 a.m.	-9.50
20	.....	+2.1	Dec. 21	11:47 a.m.	-9.14

EB-91. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 13 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 1,608 feet. Measuring point, top of 12-inch plate capping well, 3.8 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+13.2	Aug. 5	.....	+0.46
Apr. 20	+9.0	Aug. 27	.....	+4.1
May 4	+5.0	Sept. 24	.....	-3.54
June 19	+4.2	Oct. 27	.....	-4.64
June 3	+3.13	Nov. 23	3:38 p.m.	-6.45
June 22	+3.13	Dec. 21	3:23 p.m.	-4.65
July 16	+2.13			

EB-92. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 11 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 2,224 feet. Measuring point, top of $\frac{3}{4}$ -inch bushing in 12-inch plate capping well, 2.6 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+10.2	Aug. 27	.....	-8.78
Apr. 19	+5.7	Sept. 24	.....	-8.91
June 3	-3.35	Oct. 27	.....	-8.84
July 16	-4.66	Nov. 23	3:30 p.m.	-7.92
Aug. 5	-7.16	Dec. 21	3:14 p.m.	-6.80

EB-94. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 5 at Bogan Place pumping station, Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 1,599 feet. Measuring point, top of 12-inch plate capping well, 2.16 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+10.66	Aug. 5	.....	+2.66
Apr. 19	+8.46	Aug. 27	.....	+2.36
May 4	+8.46	Sept. 24	.....	-2.6
June 19	+6.06	Oct. 27	.....	-1.28
June 3	+5.46	Nov. 23	3:20 p.m.	-2.53
June 22	+4.36	Dec. 21	3:00 p.m.	-1.57
July 16	+4.16			

EB-95. Baton Rouge Water Works Co. In Baton Rouge, well 4 at Lafayette Street station. Abandoned drilled well, diameter 4 inches, depth 2,185 feet. Measuring point, top edge of 4- to 2-inch reducer, 1.1 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Aug. 6	10:25 a.m.	13.69	Oct. 22	9:15 a.m.	13.77
Aug. 14	8:40 a.m.	9.33	Oct. 29	11:05 a.m.	12.07
Aug. 20	8:23 a.m.	14.30	Nov. 5	10:10 a.m.	11.19
Aug. 27	8:45 a.m.	16.30	Nov. 12	12:20 p.m.	10.00
Sept. 3	8:25 a.m.	15.40	Nov. 19	11:17 a.m.	10.49
Sept. 11	11:42 a.m.	19.48	Nov. 26	10:10 a.m.	13.12
Sept. 18	10:00 a.m.	14.75	Dec. 3	12:05 p.m.	9.23
Sept. 24	11:10 a.m.	14.50	Dec. 10	11:37 a.m.	8.59
Oct. 1	8:20 a.m.	10.70	Dec. 17	10:45 a.m.	9.34
Oct. 8	11:10 a.m.	15.36	Dec. 23	9:35 a.m.	7.85
Oct. 15	1:50 p.m.	13.89	Dec. 31	10:35 a.m.	7.55

EB-96. Baton Rouge Water Works Co. In Baton Rouge, well 12 at Lafayette Street station. Drilled public-supply well, diameter 10 inches, depth 2,254 feet. Measuring point, top side of flange around casing at spot marked "X", 3.5 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+20.0	Aug. 3	.....	+1.66
Apr. 19	+14.7	Oct. 1	.....	+1.16
May 6	+12.5	Nov. 27	5:15 p.m.	+1.26
May 19	+10.8	Nov. 26	1:10 p.m.	+1.11
June 3	+8.8	Dec. 23	9:30 a.m.	+4.48

EB-84. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 1 at southeast corner of pumping station at Bogan Place, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 1,600 feet. Measuring point, top edge of $\frac{1}{4}$ -inch plug opening, 0.3 foot above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+9.9	Aug. 5	.....	-1.21
Apr. 20	+4.3	Sept. 27	.....	+1.0
May 4	+3.3	Sept. 24	.....	-8.37
19	+2.3	Oct. 27	.....	-7.54
June 3	+1.5	Nov. 23	4:12 p.m.	-9.17
22	+2.1	Dec. 21	4:03 p.m.	-3.69
July 16	+1.8			

EB-86. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 10 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 2,195 feet. Measuring point, top edge of vertical $\frac{3}{4}$ -inch nipple in 12-inch plate capping well, 1.1 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+9.6	Aug. 27	.....	-11.45
Apr. 20	+3.9	Sept. 24	.....	-11.24
June 3	-3.24	Oct. 27	.....	-10.34
July 16	-6.20	Nov. 23	4:20 p.m.	-10.76
Aug. 5	-9.32	Dec. 21	4:10 p.m.	-8.58

EB-88. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 9 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 2,142 feet. Measuring point, top edge of $\frac{3}{4}$ -inch nipple in 12-inch plate capping well, 0.5 foot above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+6.9	Aug. 27	.....	-9.67
Apr. 19	+1.7	Sept. 24	.....	-10.51
June 3	-2.00	Oct. 27	.....	-9.44
22	-3.88	Nov. 23	4:00 p.m.	-9.20
July 16	-4.67	Dec. 21	3:48 p.m.	-7.47
Aug. 5	-8.17			

EB-89. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 3 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 1,612 feet. Measuring point, $\frac{3}{4}$ -inch plug opening in plate capping 8-inch casing, 0.9 foot above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+6.1	Aug. 5	.....	+0.62
Apr. 19	+3.6	Sept. 27	.....	+1.7
May 4	+4.6	Sept. 24	.....	-4.52
19	+3.6	Oct. 27	.....	-5.24
June 3	+2.5	Nov. 23	3:53 p.m.	-6.19
22	+1.3	Dec. 21	3:35 p.m.	-3.80
July 16	+2.2			

EB-90. Baton Rouge Water Works Co. In Baton Rouge, in W $\frac{1}{2}$ sec. 74, T. 7 S., R. 1 E., well 8 at Bogan Place pumping station, on Lelia Avenue. Drilled public-supply well, diameter 8 inches, depth 2,125 feet. Measuring point, top of 12-inch plate capping well, 2.7 feet above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+12.7	Sept. 24	.....	-11.14
Apr. 20	+5.7	Oct. 27	.....	-9.64
July 16	-5.43	Nov. 23	4:05 p.m.	-9.70
Aug. 5	-9.09	Dec. 21	3:55 p.m.	-7.78
27	-10.02			

EB-101. Suburban Water Co. In Baton Rouge, in sec. 41, T. 6 S., R. 1 W., Garden City subdivision well 1, at Iberia Street and Baton Rouge Avenue. Drilled public-supply well, diameter 4 inches, depth 1,502 feet. Measuring point, top of stake driven next to covered pit at top of well, 0.3 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	8.1	Aug. 5	.....	5.1
Apr. 20	6.4	27	.....	4.2
May 7	6.3	Sept. 22	.....	6.7
19	5.4	Oct. 25	.....	5.1
June 3	5.7	Nov. 22	2:55 p.m.	5.4
21	3.8	Dec. 21	4:40 p.m.	2.0
July 17	5.1			

EB-112. Kean Laundry. In Baton Rouge, about 6 feet north of concrete drive, at end of corrugated iron garage behind laundry on Convention Street, one block west of Park Boulevard. Drilled well, diameter 8 inches, depth 2,254 feet. Measuring point, top edge of fitting in 3/4-inch cock, 0.4 foot above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Apr. 19	.....	+5.1	Nov. 11	.....	-11.84
May 6	.....	+1.8	20	9:20 a.m.	-11.00
20	.....	+7			

EB-125 (*909, p. 34; 939, p. 21; 947, p. 25). Peoples Ice & Fuel Co. In Baton Rouge, at 1931 Railroad Avenue. Water levels, in feet below land-surface datum, 1943: Aug. 27, 9:50 a.m., 137.02; Nov. 19, 9:25 a.m., 124.62; Dec. 31, 10:50 a.m., 109.56.

EB-128 (*909, p. 34; 939, p. 21; 947, p. 25). Ice Service, Inc. In Baton Rouge, at 135 South 15th Street. Measuring point is 1.0 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Jan. 1	8:38 a.m.	92.97	July 9	12:50 a.m.	93.80
8	8:30 a.m.	91.83	16	8:30 a.m.	96.21
15	8:25 a.m.	90.83	23	8:10 a.m.	98.53
22	7:15 a.m.	89.96	30	8:10 a.m.	100.59
29	9:00 a.m.	89.68	Aug. 6	8:07 a.m.	102.68
Feb. 5	8:38 a.m.	89.05	12	6:20 p.m.	103.80
12	9:04 a.m.	88.43	20	8:07 a.m.	105.23
19	8:45 a.m.	87.54	27	9:30 a.m.	106.52
26	3:00 p.m.	87.55	Sept. 3	8:40 a.m.	107.20
Mar. 5	8:40 a.m.	88.12	11	8:45 a.m.	108.16
12	8:40 a.m.	88.77	17	8:15 a.m.	108.33
19	9:25 a.m.	88.58	24	8:45 a.m.	108.85
26	8:40 a.m.	87.73	Oct. 1	9:35 a.m.	108.85
Apr. 2	9:00 a.m.	87.09	8	8:50 a.m.	108.09
9	8:43 a.m.	85.69	15	3:50 p.m.	106.97
16	9:00 a.m.	85.29	22	9:30 a.m.	106.05
23	8:50 a.m.	87.06	29	8:35 a.m.	105.14
30	9:00 a.m.	85.36	Nov. 5	10:35 a.m.	104.12
May 7	1:20 p.m.	85.75	12	10:20 a.m.	103.18
14	8:50 a.m.	86.40	19	9:33 a.m.	102.40
21	9:10 a.m.	87.03	26	9:25 a.m.	102.83
28	9:20 a.m.	87.21	Dec. 3	9:52 a.m.	101.77
June 4	9:35 a.m.	87.26	10	9:08 a.m.	102.08
11	8:03 a.m.	87.53	17	9:00 a.m.	102.45
18	8:50 a.m.	88.44	24	9:50 a.m.	102.56
25	8:05 a.m.	90.14	31	1:10 p.m.	102.74
July 2	8:05 a.m.	91.94			

EB-282. Town of Zachary. In Zachary, in $N\frac{1}{2}$ sec. 40, T. 5 S., R. 1 E., about 20 feet north of sunken reservoir behind water plant. Drilled public-supply well, diameter 6 inches, depth 1,324 feet. Measuring point, top edge of 2 $\frac{1}{2}$ -inch tee in discharge line, 3.5 feet above land surface.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	12.8	Aug. 6	.....	6.5
Apr. 20	11.2	28	.....	6.0
May 6	10.4	Sept. 23	.....	5.2
20	9.8	Oct. 25	.....	4.5
June 2	9.7	Nov. 22	1:40 p.m.	4.1
21	8.9	Dec. 22	3:00 p.m.	4.2

EB-283. Town of Zachary. In Zachary, in $N\frac{1}{2}$ sec. 40, T. 5 S., R. 1 E., about 75 feet northeast of sunken reservoir behind water plant. Drilled public-supply well, diameter 4 inches, depth 1,800 (?) feet. Measuring point, top side of 4-inch line from well to reservoir at point where $\frac{1}{2}$ -inch faucet connects, about 0.4 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: Aug. 18, 12:00 noon, 26.85; Nov. 22, 1:50 p.m., 26.16; Dec. 22, 3:05 p.m., 25.93.

EB-299. Staring & Kirby. In Baton Rouge, at corner of Istrouma Avenue and Haber Street, Capitol Heights. Drilled public-supply well, diameter 4 inches, depth 1,245 feet. Measuring point, $\frac{1}{2}$ -inch fitting in cock below 4-inch valve, 1.55 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 23	.....	18.15	Aug. 5	.....	14.75
Apr. 19	.....	17.45	27	.....	14.15
May 6	.....	16.95	Sept. 22	.....	14.85
20	.....	16.85	Oct. 25	.....	14.15
June 3	.....	16.85	Nov. 20	9:45 a.m.	16.05
22	.....	16.65	Dec. 22	9:55 a.m.	16.95
July 17	.....	15.35			

EB-300. Scheinuk Florist. In Baton Rouge, in $W\frac{1}{2}$ sec. 82, T. 7 S., R. 1 E., at junction of Jefferson Highway and Government Street. Drilled domestic and irrigation well, diameter 4 inches, depth 1,241 feet. Measuring point, top of 2 $\frac{1}{2}$ -inch bushing in line from well, level with land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 23	.....	8.8	Aug. 5	.....	5.3
Apr. 19	.....	8.0	27	.....	5.1
May 6	.....	7.7	Sept. 22	.....	5.6
20	.....	7.6	Oct. 25	.....	5.1
June 3	.....	7.7	Nov. 20	10:10 a.m.	5.4
22	.....	7.1	Dec. 22	10:10 a.m.	4.5
July 17	.....	5.9			

EB-301. Mrs. H. B. Witter. At Baton Rouge, in $W\frac{1}{2}$ sec. 91, T. 7 S., R. 1 E., behind barn at Cedar Lodge Plantation, on Jefferson Highway. Drilled domestic well, diameter 4 inches, depth 1,281 feet. Measuring point, top of 2-inch tee at well, 1.4 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 23	.....	17.0	Aug. 5	.....	13.8
Apr. 19	.....	16.1	27	.....	13.8
May 6	.....	14.7	Sept. 22	.....	13.7
20	.....	15.9	Oct. 25	.....	13.6
June 3	.....	15.6	Nov. 20	10:25 a.m.	15.0
22	.....	15.3	Dec. 22	10:15 a.m.	15.2
July 17	.....	13.2			

EB-302. H. A. Bozsmán. NW. corner sec. 3, T. 7 S., R. 2 E., 3.5 miles east of intersection of U. S. Highways 61 and 190, on south side of Highway 190, behind residence. Drilled domestic well, diameter 2 inches, depth 1,340 feet. Measuring point, top of 1½-inch tee at top of casing, 1.2 feet above concrete well base next to casing, 1.8 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	33.1	Aug. 5	.....	30.2
Apr. 21	32.7	Aug. 28	.....	29.9
May 7	32.4	Sept. 23	.....	30.5
19	32.1	Oct. 26	.....	29.8
June 2	31.8	Nov. 20	2:15 p.m.	31.0
July 16	30.8	Dec. 22	10:30 a.m.	31.5

EB-303. Greenwell Springs Sanitarium well 1. E½ sec. 49, T. 5 S., R. 2 E., on east side of State Highway 37, 60 feet northwest of water tower, east of well 2. Drilled public-supply well, diameter 4 inches, depth 1,189 feet. Measuring point, ¼-inch plug opening in tee, 1.4 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 24	.....	24.9	Aug. 5	.....	24.7
Apr. 21	.....	25.3	28	.....	24.2
May 7	.....	25.7	Sept. 23	.....	24.4
19	.....	25.3	Oct. 26	.....	23.6
June 2	.....	26.0	Nov. 22	10:10 a.m.	25.8
21	.....	25.5	Dec. 22	10:50 a.m.	25.8
July 16	.....	25.1			

EB-304. Greenwell Springs Sanitarium well 2. E½ sec. 49, T. 5 S., R. 2 E., northeast of main hospital building, west of well 1. Drilled public-supply well, diameter 6 inches, depth 1,765 feet. Measuring point, ¼-inch plug opening in tee, 1.4 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 24	.....	71.5	Aug. 5	.....	69.2
Apr. 21	.....	69.2	28	.....	68.1
May 7	.....	69.2	Sept. 23	.....	67.5
19	.....	69.8	Oct. 26	.....	62.2
June 2	.....	70.4	Nov. 22	10:12 a.m.	64.9
21	.....	67.5	Dec. 22	10:48 a.m.	65.1
July 16	.....	69.8			

EB-305. Dr. I. M. Lee. SW. corner sec. 66, T. 6 S., R. 1 E., on south side Greenwell Springs road, behind house. Drilled domestic well, diameter 2 inches, depth 1,150 (?) feet. Measuring point, top of 2½-inch cross at top of casing, 2.6 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 25	.....	20.5	July 16	.....	18.0
Apr. 21	.....	20.1	Aug. 5	.....	17.5
May 8	.....	19.7	Sept. 23	.....	17.7
19	.....	19.4	Oct. 27	.....	15.8
June 2	.....	19.2	Nov. 20	11:30 a.m.	18.6
21	.....	18.7	Dec. 22	1:20 p.m.	17.5

EB-306. A. G. Hernandez. NW¼ sec. 66, T. 6 S., R. 1 E., on north side Greenwell Springs road, in stockyard. Drilled domestic well, diameter 4 inches, depth 1,168 feet. Measuring point, top edge of concrete trough below faucet, about 1.8 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Feb. 25	.....	19.9	July 16	.....	18.0
Apr. 21	.....	19.8	Aug. 5	.....	17.4
May 8	.....	19.2	Sept. 23	.....	17.2
19	.....	19.0	Oct. 27	.....	16.5
June 2	.....	19.0	Nov. 20	3:20 p.m.	20.1
21	.....	18.8	Dec. 22	1:37 p.m.	16.9

EB-307. W. W. Bynum. Center of sec. 48, T. 6 S., R. 1 E., on east side of Pearce Lane about 0.5 mile north of Greenwell Springs road. Drilled domestic well, diameter 4 inches, depth 1,166 feet. Measuring point, top of 2-inch tee, 1.8 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	24.8	Aug. 5	.....	20.9
Apr. 21	24.8	Aug. 28	.....	20.4
May 8	23.0	Sept. 23	.....	20.6
May 19	22.6	Oct. 27	.....	20.2
June 2	22.8	Nov. 20	3:45 p.m.	24.6
June 21	22.4	Dec. 20	2:05 p.m.	23.9
July 16	21.6			

EB-308. W. E. Hanks. SW $\frac{1}{4}$ sec. 50, T. 6 S., R. 1 E., on north side Greenwell Springs road about 0.1 mile east of U. S. Highway 61. Drilled domestic well, diameter 4 inches, depth 1,174 feet. Measuring point, top of 4-inch tee, level with land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	16.3	Aug. 5	.....	12.3
Apr. 21	15.4	Aug. 28	.....	11.3
May 8	15.0	Sept. 22	.....	12.1
May 19	15.0	Oct. 27	.....	11.4
June 21	14.7	Nov. 22	9:25 a.m.	13.0
July 16	13.1	Dec. 20	1:45 p.m.	13.6

EB-310. H. B. Witter. NE $\frac{1}{4}$ sec. 74, T. 6 S., R. 1 W., University Place, about 0.3 mile west of U. S. Highway 61, just west of Louisiana & Arkansas Railway. Drilled public-supply well, diameter 4 inches, depth 1,395 feet. Measuring point, top of 2-inch tee in concrete box around well, 2.5 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	10.4	Aug. 6	.....	4.9
Apr. 20	8.7	Aug. 28	.....	6.2
May 6	6.8	Sept. 23	.....	7.1
May 20	6.8	Oct. 25	.....	7.7
June 2	7.9	Nov. 22	2:45 p.m.	6.4
June 21	5.5	Dec. 22	3:50 p.m.	5.8

EB-311. Suburban Water Co. well 2. In Baton Rouge, in sec. 42, T. 6 S., R. 1 W., at corner of Evangeline and "A" Streets, Istrouma subdivision. Drilled public-supply well, diameter 4 inches, depth 1,498 feet. Measuring point, top of iron pntle set in northwest corner of concrete pit, about 0.6 foot above land-surface datum.

Water level, in feet with reference to land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	+5.6	July 17	.....	+0.7
Apr. 20	+3.5	Aug. 27	.....	+ .9
May 7	+2.9	Sept. 22	.....	+2.1
May 19	+2.3	Oct. 28	10:00 a.m.	+3.5
June 3	+1.5	Nov. 22	3:15 p.m.	-.27
June 21	-.24	Dec. 22	4:15 p.m.	-.85

EB-312. Baton Rouge Water Works Co. In Baton Rouge, at intersection of North Highlands Drive and North Highlands Parkway, North Highlands subdivision. Abandoned drilled well, diameter 4 inches, depth 1,370 feet. Measuring point, top of 4-inch fitting in valve, 2.1 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	19.6	Aug. 5	.....	15.8
Apr. 20	17.5	Aug. 27	.....	14.9
May 7	16.9	Sept. 22	.....	16.6
May 19	16.2	Oct. 28	.....	15.0
June 3	16.2	Nov. 22	3:30 p.m.	17.7
June 21	14.6	Dec. 23	10:20 a.m.	16.8
July 17	15.2			

EB-314. A. A. Morvant. N $\frac{1}{2}$ sec. 54, T. 5 S., R. 1 E., on south side of Levy Lane, 1.3 miles west of Plank Road. Drilled domestic well, diameter 2 inches, depth 1,560 feet. Measuring point, top of 2-inch plug, about 0.2 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	26.3	June 21	.....	19.9
Apr. 20	24.0	Nov. 9	.....	13.2
May 6	21.4	Nov. 22	1:10 p.m.	15.1
May 20	21.7	Dec. 21	4:15 p.m.	14.5
June 2	21.2			

EB-315. E. J. Morgan. Center of sec. 96, T. 6 S., R. 1 E., at Zion City. Drilled public-supply well, diameter 3 inches, depth 1,960 feet. Measuring point, center of $\frac{1}{2}$ -inch overflow pipe, 0.3 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	22.9	Nov. 22	12:00 noon	8.8
Apr. 21	17.7	Dec. 23	11:00 a.m.	9.0
Nov. 9	6.4			

EB-316. East Baton Rouge Parish School Board. S $\frac{1}{2}$ sec. 5, T. 6 S., R. 2 E., at Central High School, on State Highway 270 about 3 miles southwest of Greenwell Springs. Drilled public-supply well, diameter 4 inches, depth 1,171 feet. Measuring point, top of 4-inch plug, about 0.6 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	23.2	Aug. 5	.....	20.7
Apr. 21	22.5	Aug. 28	.....	20.3
May 7	22.3	Sept. 23	.....	20.6
May 19	22.1	Oct. 25	.....	20.4
June 2	22.1	Nov. 22	10:40 a.m.	20.1
June 21	21.6	Dec. 22	11:30 a.m.	20.6
July 16	21.6			

EB-317. H. H. Edwards. SW $\frac{1}{4}$ sec. 6, T. 6 S., R. 2 E., on east side of Joor road, 0.25 mile north of State Highway 270. Drilled domestic well, diameter 2 inches, depth 1,176 feet. Measuring point, center of 2 $\frac{1}{2}$ -inch valve, about 1.6 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	23.7	July 16	.....	21.1
Aug. 21	23.0	Aug. 5	.....	20.8
May 8	22.6	Sept. 23	.....	21.1
May 19	22.2	Oct. 27	.....	20.4
June 2	22.2	Nov. 20	4:30 p.m.	23.7
June 21	21.8	Dec. 22	12:10 p.m.	21.8

EB-318. Tom Morgan. North side sec. 24, T. 6 S., R. 1 E., west side of Joor road, 0.25 mile north of Comite River. Drilled domestic well, diameter 2 inches, depth 1,277 feet. Measuring point, top of 2-inch ell, about 1.5 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	25.3	Aug. 5	.....	22.0
Apr. 21	24.4	Aug. 28	.....	21.6
May 8	23.9	Sept. 23	.....	22.0
May 19	24.8	Oct. 27	.....	21.4
June 2	23.4	Nov. 20	4:15 p.m.	23.1
June 21	23.0	Dec. 20	2:45 p.m.	22.0
July 16	22.4			

EB-319. W. H. Carpenter. Center of sec. 30, T. 6 S., R. 1 E., on west side of State Highway 276, 0.25 mile north of State Highway 270. Drilled domestic well, diameter $2\frac{1}{2}$ inches, depth 1,383 feet. Measuring point, top of $\frac{1}{2}$ -inch discharge pipe, level with land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	21.9	Aug. 28	.....	19.2
Apr. 21	21.6	Sept. 23	.....	19.5
May 7	20.1	Oct. 26	.....	19.0
19	21.0	Nov. 22	11:25 a.m.	19.9
June 2	21.0	Dec. 20	3:15 p.m.	19.2
21	20.0			

EB-320. C. R. Core. NW $\frac{1}{4}$ sec. 36, T. 5 S., R. 1 E., on east side of State Highway 276 at bend in road. Drilled domestic well, diameter $2\frac{1}{2}$ inches, depth 1,310 feet. Measuring point, top of wheel of closed 2-inch valve, 0.2 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	21.4	Aug. 28	.....	18.2
Apr. 21	21.0	Sept. 23	.....	18.5
May 7	20.6	Oct. 26	.....	18.1
19	20.1	Nov. 22	11:00 a.m.	20.2
June 2	20.1	Dec. 21	3:00 p.m.	18.3
21	19.5			

EB-321. J. B. Carney. On east side of sec. 89, T. 5 S., R. 1 W., on south side of road, 0.1 mile west of Bayou Baton Rouge, 0.3 mile west of U. S. Highway 61. Drilled domestic well, diameter $2\frac{1}{2}$ inches, depth 1,460 feet. Measuring point, center of $\frac{1}{2}$ -inch valve fitting, 2.25 feet above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Apr. 20	27.85	Aug. 28	.....	21.45
May 6	26.85	Sept. 23	.....	20.95
20	26.25	Oct. 25	.....	20.15
June 2	26.35	Nov. 22	2:10 p.m.	22.55
21	25.55	Dec. 20	4:50 p.m.	21.85
Aug. 6	22.25			

EB-322. T. E. Charlton. SE. corner sec. 29, T. 5 S., R. 1 E., on west side of Plank Road at Lavy Lane. Drilled domestic well, diameter $2\frac{1}{2}$ inches, depth 1,970 feet. Measuring point, $3/4$ -inch bushing on $1\frac{1}{2}$ -inch line from well, 0.1 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
May 20	59.5	Sept. 23	.....	57.2
June 2	58.9	Oct. 25	.....	56.7
21	58.4	Nov. 22	12:40 p.m.	54.9
Aug. 6	58.9	Dec. 22	2:30 p.m.	53.9
28	58.4			

EB-323. Standard Ice Box Co. On west side of sec. 42, T. 7 S., R. 1 W., between Third Street extension and Illinois Central Railroad. Drilled domestic well, diameter 4 inches, depth 1,514 feet. Measuring point, top of 4-inch pipe away from well, level with land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 23	7.2	Aug. 5	.....	4.4
Apr. 20	7.4	28	.....	4.3
May 6	7.1	Sept. 22	.....	4.7
19	7.2	Oct. 26	.....	5.2
June 3	8.0	Nov. 22	4:30 p.m.	5.1
22	7.6	Dec. 23	10:05 a.m.	5.4
July 16	5.1			

Evangeline Parish

Ev-1 (*886, p. 236; 909, p. 34; 939, p. 22; 947, p. 26). John La Haye. SW $\frac{1}{4}$ sec. 20, T. 4 S., R. 1 E. Measuring point is 2.1 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 21, 11:05 a.m., 38.51; Sept. 28, 6:05 p.m., 51.68.

Ev-2 (*886, p. 236; 909, p. 34; 939, p. 22; 947, p. 26). Dorestant Ardoin. North line sec. 37, T. 6 S., R. 1 W. Measuring point is 2.5 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Jan. 21, 10:35 a.m., 42.30.

Ev-4 (*909, p. 35; 939, p. 22; 947, p. 26). Rock Island Railway. SW $\frac{1}{4}$ sec. 31, T. 1 S., R. 1 E. Measuring point is 1.2 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 21	10:00 a.m.	30.01	July 30	5:05 p.m.	28.13
29	9:10 a.m.	25.83	Aug. 30	5:30 p.m.	25.65
Feb. 26	9:30 a.m.	31.75	Sept. 28	6:30 p.m.	22.40
Mar. 29	4:00 p.m.	26.02	Oct. 29	10:00 a.m.	32.45
Apr. 30	9:30 a.m.	30.82	Nov. 26	4:00 p.m.	30.95
May 25	4:05 p.m.	29.75	Dec. 28	4:40 p.m.	27.92
June 28	4:00 p.m.	28.67			

Grant Parish

G-2 (*845, p. 146; 886, p. 236; 909, p. 35; 939, p. 22; 947, p. 26). Carnahan, Hunthunce, & Hargiss. Sec. 5, T. 5 N., R. 3 W. Measuring point is 1 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Feb. 22, 4:20 p.m., 6.77; June 17, 3:55 p.m., 7.06; Oct. 21, 3:30 p.m., 10.20.

G-21 (845, p. 146; 886, p. 236; 909, p. 36; 939, p. 23; 947, p. 26). U. S. Dept. of Agriculture. In Pollock, at Catahoula Fire Tower. Measuring point is 5.9 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Nov. 11, 5:15 p.m., 134.82.

G-27 (*845, p. 146; 909, p. 36; 939, p. 23; 947, p. 26). 4-H Club camp. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 6 N., R. 1 E., in Fishville. Measuring point is 1.0 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: June 18, 3:50 p.m., 2.63; Dec. 27, 4:30 p.m., 2.60.

G-38 (*836, p. 237; 909, p. 36; 939, p. 23; 947, p. 26). Grant Utilities Co. In Montgomery, northwest well behind power plant. Measurements discontinued.

Jefferson Parish

Jf-12 (*947, p. 26). Fourth Jefferson drainage district. At New Orleans pumping station 1, about 1.25 miles west of parish line, on Lake Pontchartrain. Measuring point is 1.67 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: June 22, 11:30 a.m., 15.40.

Jefferson Davis Parish

JD-6 (*939, p. 24; 947, p. 27). Latrielle Estate. NW $\frac{1}{4}$ sec. 22, T. 8 S., R. 4 W. Measurements discontinued.

JD-9 (*845, p. 147; 886, p. 238; 909, p. 37; 939, p. 24; 947, p. 27). Calcasieu-Marine National Bank. NW $\frac{1}{4}$ sec. 34, T. 9 S., R. 4 W. Water-stage recorder removed June 26. Measuring point is 0.6 foot above land-surface datum.

JD-9. Calcasieu-Marine National Bank--Continued.

Water level, in feet below land-surface datum, 1943
(From recorder charts Jan. 29 to June 26)

Date	Hour	Water level	Date	Hour	Water level
Jan. 29	1:00 p.m.	21.02	July 23	1:00 p.m.	42.25
Feb. 25	1:45 p.m.	20.28	Aug. 30	1:25 p.m.	42.90
Mar. 29	1:20 p.m.	19.52	Sept. 28	12:30 p.m.	33.51
Apr. 30	4:10 p.m.	22.94	Oct. 29	1:55 p.m.	29.77
May 28	12:20 p.m.	40.80	Nov. 26	12:25 p.m.	27.47
June 26	5:55 p.m.	55.15	Dec. 28	12:01 p.m.	25.42
28	12:40 p.m.	53.65			

JD-11 (#845, p. 147; 886, p. 238; 909, p. 28; 939, p. 24; 947, p. 27). Mrs. T. T. Linscomb. NE $\frac{1}{4}$ sec. 28, T. 7 S., R. 3 W. Measuring point is 4 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 21, 12:10 p.m., 40.30; Sept. 16, 12:00 noon, 51.13.

JD-23 (#845, p. 148; 886, p. 240; 909, p. 38; 939, p. 24, 25; 947, p. 27). Calcasieu-Marine National Bank. NE $\frac{1}{4}$ sec. 4, T. 10 S., R. 6 W. Measuring point is 0.4 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 29	1:35 p.m.	19.63	July 30	12:21 p.m.	26.00
Feb. 25	4:00 p.m.	19.51	Aug. 30	12:45 p.m.	34.04
Mar. 29	12:40 p.m.	18.34	Oct. 1	1:00 p.m.	27.43
Apr. 30	4:40 p.m.	18.07	29	3:25 p.m.	23.12
May 28	11:45 a.m.	25.44	Nov. 26	11:50 a.m.	25.48
June 28	12:05 p.m.	32.37	Dec. 28	11:25 a.m.	23.46

JD-26 (#886, p. 240; 909, p. 38; 939, p. 25; 947, p. 27). I. L. Hebert. NE $\frac{1}{4}$ sec. 21, T. 10 S., R. 3 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land-surface along pipe being 5.2 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 2:00 p.m., 18.95; May 17, 1:10 p.m., 20.90; Sept. 16, 1:15 p.m., 29.70.

JD-42 (#909, p. 39; 939, p. 25; 947, p. 27). Fritz Miller. SE $\frac{1}{4}$ sec. 24, T. 8 S., R. 5 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land surface along pipe being 5.3 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 3:20 p.m., 33.18; May 17, 11:45 a.m., 36.40; Sept. 28, 12:45 p.m., 46.53.

JD-43 (#886, p. 241; 909, p. 39; 939, p. 25; 947, p. 27). Colon Leger. NE $\frac{1}{4}$ sec. 24, T. 8 S., R. 6 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land-surface along pipe being 3.1 feet. Water levels, in feet below measuring point, 1943: Jan. 22, 3:00 p.m., 26.03; Sept. 28, 11:30 a.m., 34.98.

JD-115 (#886, p. 241; 909, p. 39; 939, p. 25; 947, p. 27). Calcasieu-Marine National Bank. NE $\frac{1}{4}$ sec. 34, T. 9 S., R. 5 W. Measuring point is at bottom edge of inclined discharge pipe, the distance from measuring point to land-surface along pipe being 4.8 feet. Water levels, in feet below land-surface datum, 1943: Jan. 22, 2:31 p.m., 25.77; May 14, 3:12 p.m., 31.79; Sept. 28, 12:30 p.m., 39.70.

JD-221 (#947, p. 27). John Ardoin. 1 mile north of overpass on U. S. Highway 165 near Iowa Junction. Measuring point level with land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 29	1:57 p.m.	1.58	July 30	12:00 noon	1.79
Feb. 25	4:25 p.m.	4.65	Aug. 30	12:10 p.m.	5.03
Mar. 29	12:15 p.m.	1.33	Sept. 28	11:45 a.m.	4.60
Apr. 30	5:00 p.m.	5.27	Oct. 29	3:50 p.m.	7.26
May 28	11:20 a.m.	4.05	Nov. 26	11:30 a.m.	5.75
June 28	11:35 a.m.	3.65	Dec. 28	10:55 a.m.	.11

La Salle Parish

La-41 (#886, p. 242; 909, p. 40; 939, p. 26; 947, p. 28). Louisiana Delta Hardwood Lumber Co. NE $\frac{1}{4}$ sec. 8, T. 8 N., R. 3 E. In Trout, at west road entrance to mill. Measuring point is 2.5 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Feb. 22, 2:20 p.m., 27.13; June 18, 4:30 p.m., 27.53.

La-42 (#886, p. 242; 909, p. 40; 939, p. 26; 947, p. 28). Louisiana Delta Hardwood Lumber Co. NE $\frac{1}{4}$ sec. 8, T. 8 N., R. 3 E. In Trout, under derrick at lumber shed. Measuring point is 3 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Nov. 11, 4:30 p.m., 27.77.

Livingston Parish

Li-10 (#909, p. 40; 939, p. 26; 947, p. 28). McCarroll Lumber Co. In Frost, on north side of mill pond. Measuring point is 1.7 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 11:40 a.m., 3.82; Oct. 19, 9:40 a.m., 3.6.

Li-11 (#909, p. 40; 939, p. 26; 947, p. 28). Sharp Civilian Conservation Corps camp. In Springville. Measuring point is 1.1 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 10:15 a.m., 3.18; Oct. 19, 10:20 a.m., 3.1.

Li-16 (#909, p. 40; 939, p. 26; 947, p. 28). J. F. McCarroll. In Holden, 200 feet west of residence. Measuring point is same as that used in 1942 and is the 3/4-inch valve at the well, 3.00 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 13, 6:00 p.m., 125.0; Oct. 19, 5:15 p.m., 115.0.

Morehouse Parish

Mo-1 (#909, p. 40; 939, p. 26; 947, p. 28). Town of Bastrop. At Bastrop, in City Park. Measuring point is level with land-surface datum. Water level, in feet below land-surface datum, 1943: Jan. 4, 1:20 p.m., 72.59.

Rapides Parish

21 (#845, p. 140; 886, p. 245; 909, p. 42; 939, p. 27; 947, p. 29). City of Alexandria. In Alexandria, at Fourth and St. James Streets. Measuring point is 0.2 foot below land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 8	4:40 p.m.	142.26	June 1	4:30 p.m.	164.31
13	12:30 p.m.	145.00	8	5:00 p.m.	165.28
20	5:45 p.m.	144.23	15	4:30 p.m.	164.49
27	4:25 p.m.	149.40	22	10:45 a.m.	165.09
Feb. 4	11:10 p.m.	147.08	29	5:15 p.m.	166.84
10	9:15 a.m.	146.72	July 6	5:00 p.m.	167.28
16	10:30 a.m.	145.15	13	8:05 a.m.	163.10
23	9:55 a.m.	147.49	20	5:00 p.m.	170.07
Mar. 2	4:30 p.m.	150.60	27	8:00 a.m.	171.65
9	11:00 a.m.	151.28	Aug. 3	8:00 a.m.	166.42
16	10:00 a.m.	149.71	10	4:45 p.m.	168.41
23	11:33 a.m.	150.37	17	8:10 a.m.	168.70
30	9:50 a.m.	150.79	24	8:00 a.m.	168.81
Apr. 6	10:10 a.m.	150.89	30	4:45 p.m.	167.63
13	5:00 p.m.	151.87	Sept. 8	5:15 p.m.	162.20
20	11:10 a.m.	152.01	15	8:10 a.m.	151.42
27	7:46 a.m.	148.18	22	8:00 a.m.	148.51
May 4	8:10 a.m.	151.56	29	8:05 a.m.	147.18
11	8:00 a.m.	159.60	Oct. 8	4:55 p.m.	141.57
18	5:35 p.m.	165.09	15	5:30 p.m.	141.22
25	6:00 p.m.	165.11	22	3:00 p.m.	136.70

21. City of Alexandria--Continued.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Oct. 28	2:30 p.m.	133.24	Dec. 2	3:00 p.m.	125.96
Nov. 5	3:30 p.m.	131.57	10	5:10 p.m.	124.89
12	2:00 p.m.	130.21	16	5:15 p.m.	125.15
18	3:40 p.m.	130.83	25	11:30 a.m.	125.30
25	3:00 p.m.	129.03	29	2:15 p.m.	142.59

22 (*845, p. 140; 886, p. 245; 909, p. 42; 939, p. 28; 947, p. 29).

J. N. Balls. Alexandria, Kent Park at Texas Avenue. Measurements discontinued.

26 (*845, p. 140; 886, p. 245; 909, p. 43; 939, p. 28; 947, p. 30).

Missouri Pacific Railroad. In Alexandria, at abandoned roundhouse on North 13th Street. Measuring point is 3 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

(From recorder charts)

Jan. 3	5:47 p.m.	128.97	July 13	7:00 a.m.	157.31
11	6:25 p.m.	129.12	20	7:00 a.m.	159.95
20	5:31 p.m.	129.91	27	6:57 a.m.	163.08
Feb. 3	10:30 a.m.	130.00	Aug. 3	7:00 a.m.	161.40
10	9:00 a.m.	130.05	10	3:00 p.m.	168.66
16	11:00 a.m.	131.29	17	6:55 a.m.	156.97
23	5:00 p.m.	137.18	24	7:00 a.m.	154.62
Mar. 2	5:15 p.m.	138.26	30	7:00 a.m.	154.78
9	4:15 p.m.	137.47	Sept. 8	7:00 a.m.	151.39
16	10:30 a.m.	136.38	15	7:00 a.m.	142.65
23	11:05 a.m.	138.17	22	7:00 a.m.	137.30
30	6:35 p.m.	140.77	29	7:00 a.m.	135.19
Apr. 6	10:45 a.m.	140.05	Oct. 8	5:45 p.m.	154.70
13	10:30 a.m.	141.94	15	5:10 p.m.	133.68
20	7:40 a.m.	143.34	21	4:00 p.m.	133.58
27	6:30 p.m.	143.61	Nov. 5	5:45 p.m.	132.53
May 4	6:35 p.m.	154.24	12	6:00 p.m.	132.21
18	5:15 p.m.	156.60	19	5:35 p.m.	131.35
25	6:45 a.m.	155.55	25	3:40 p.m.	130.84
June 1	8:00 a.m.	155.73	Dec. 2	3:45 p.m.	129.54
8	7:00 a.m.	156.35	9	6:05 p.m.	129.25
15	6:55 a.m.	153.88	16	4:40 p.m.	128.53
22	7:30 a.m.	157.85	25	11:10 a.m.	132.00
29	7:00 a.m.	156.73	31	5:50 p.m.	129.37
July 5	7:00 a.m.	156.50			

35 (*845, p. 141; 886, p. 246; 909, p. 44; 939, p. 29; 947, p. 30).

Fine Products Co. In Alexandria. Measuring point is 2.4 feet above land-surface datum. Water-stage recorder removed Dec. 8, 1942.

Water level, in feet below land-surface datum, 1943

Jan. 8	4:55 p.m.	141.62	May 4	8:10 a.m.	150.80
13	12:45 p.m.	141.63	11	8:10 a.m.	151.55
20	5:59 p.m.	141.41	18	5:50 p.m.	152.56
27	4:10 p.m.	143.45	25	6:15 p.m.	152.26
Feb. 4	11:15 a.m.	144.60	June 1	4:45 p.m.	153.89
10	9:30 a.m.	144.83	8	5:15 p.m.	154.59
16	10:45 a.m.	145.46	15	4:45 p.m.	155.04
23	10:05 a.m.	144.82	22	11:00 a.m.	155.48
Mar. 2	.....	146.63	28	5:30 p.m.	155.57
9	10:45 a.m.	146.92	July 6	5:15 p.m.	155.88
16	10:15 a.m.	147.11	13	8:15 a.m.	156.39
23	11:33 a.m.	147.56	20	5:15 p.m.	156.72
30	9:30 a.m.	147.84	27	8:13 a.m.	156.34
Apr. 6	10:30 a.m.	148.29	Aug. 3	8:15 a.m.	156.83
13	5:15 p.m.	148.76	10	5:00 p.m.	157.33
20	11:00 a.m.	149.49	17	8:20 a.m.	158.18
27	7:59 a.m.	149.97	24	8:20 a.m.	158.39

35. Pine Products Co.--Continued.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Aug. 30	5:00 p.m.	155.90	Nov. 5	3:45 p.m.	146.56
Sept. 8	5:30 p.m.	149.75	12	2:15 p.m.	146.90
15	8:20 a.m.	149.40	18	3:55 p.m.	135.15
22	8:15 a.m.	150.69	25	3:15 p.m.	144.56
29	8:17 a.m.	149.54	Dec. 2	3:15 p.m.	143.89
Oct. 8	5:10 p.m.	155.60	10	5:30 p.m.	143.61
15	5:45 p.m.	156.00	16	5:30 p.m.	144.08
22	3:30 p.m.	156.00	25	11:50 a.m.	144.15
28	2:45 p.m.	146.24	29	2:30 p.m.	142.16

43-A (*845, p. 141; 886, p. 246; 909, p. 44; 939, p. 29; 947, p. 31). Missouri Pacific Railroad. In Alexandria. Measuring point is 6.85 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Dec. 31, 4:55 p.m., 63.19.

67 (*845, p. 142; 886, p. 246; 909, p. 44; 939, p. 29; 947, p. 31). Louisiana Ice & Electric Co. In Lecompte. Measuring point is 2.1 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Dec. 10, 3:10 p.m., 77.77.

89 (*845, p. 142; 886, p. 247; 909, p. 44; 939, p. 29; 947, p. 31). State Colony Farm. SE. corner sec. 39, T. 4 N., R. 2 W. Measuring point is 1.8 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Dec. 16, 3:40 p.m., 10.49.

135 (*845, p. 143; 886, p. 247; 909, p. 45; 939, p. 30; 947, p. 31). At Arbuthnot mill site, sec. 61, T. 5 N., R. 3 W. Measuring point is 1.3 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: Feb. 22, 2:20 p.m., 7.3; June 17, 4:30 p.m., 7.3; Oct. 21, 4:30 p.m., 7.1.

139 (*845, p. 144; 886, p. 248; 909, p. 45; 939, p. 30; 947, p. 31). H. Dearborn. Quarry Station, sec. 1, T. 5 N., R. 4 W. Measurements discontinued.

150 (*845, p. 144; 886, p. 248; 909, p. 45; 939, p. 30; 947, p. 31). Grady Kelly. Sec. 32, T. 4 N., R. 1 W. Measurements discontinued.

183 (*845, p. 144; 886, p. 248; 909, p. 45; 939, p. 30; 947, p. 31). O. T. Oden. 8 miles south of Alexandria on U. S. Highway 165. Measuring point is 0.4 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Sept. 15, 4:30 p.m., 28.95; Dec. 31, 4:25 p.m., 28.66.

184 (*845, p. 144; 886, p. 248; 909, p. 45; 939, p. 30; 947, p. 31). O. T. Oden. 8 miles south of Alexandria on U. S. Highway 165. Measuring point is 2.5 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Sept. 15, 4:35 p.m., 25.48; Dec. 31, 4:30 p.m., 24.93.

207 (*845, p. 145; 886, p. 249; 909, p. 46; 939, p. 31; 947, p. 31). State Hospital for Insane. In Pineville. Measurements discontinued.

208 (*845, p. 145; 886, p. 249; 909, p. 46; 939, p. 31; 947, p. 31). State Hospital for Insane. In Pineville. Measurements discontinued.

219 (*845, p. 145; 886, p. 249; 909, p. 46; 939, p. 31; 947, p. 31). Camp Beauregard. About 5 miles north of Pineville, at south border of camp. Measuring point is level with land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 5	1:05 p.m.	89.15	Feb. 17	2:25 p.m.	86.41
13	11:13 a.m.	89.02	23	10:30 a.m.	86.37
20	4:29 p.m.	89.02	May 18	3:03 p.m.	87.97
27	10:30 a.m.	89.14			

344 (#939, p. 31; 947, p. 32). Camp Livingston. NW. corner sec. 3, T. 5 N., R. 1 E. Measuring point is 2 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	1:35 p.m.	196.01	May 25	7:35 a.m.	179.52
27	11:00 a.m.	198.63	June 1	7:10 a.m.	179.20
Feb. 3	4:30 p.m.	197.32	8	7:45 a.m.	178.96
10	11:00 a.m.	192.39	July 6	7:45 a.m.	193.45
16	1:30 p.m.	189.74	13	7:38 a.m.	194.34
23	11:00 a.m.	189.29	20	7:40 a.m.	194.99
Mar. 2	10:30 a.m.	187.39	Aug. 17	7:25 a.m.	191.97
9	9:45 a.m.	185.39	24	7:40 a.m.	190.16
16	11:25 a.m.	183.95	31	7:40 a.m.	188.70
23	10:18 a.m.	183.02	Sept. 8	7:40 a.m.	187.27
30	11:10 a.m.	184.62	15	7:40 a.m.	186.66
Apr. 6	11:30 a.m.	184.70	22	7:40 a.m.	185.50
13	9:30 a.m.	182.53	29	7:40 a.m.	185.83
20	7:00 a.m.	181.99	Oct. 28	4:00 p.m.	182.18
27	7:15 a.m.	180.73	Nov. 29	3:00 p.m.	179.66
May 4	7:05 a.m.	180.20	Dec. 27	2:35 p.m.	177.69
18	2:20 p.m.	179.87			

347 (#939, p. 32; 947, p. 32). Camp Claiborne. About 200 feet north of South Street and 75 feet west of I Street. Measuring point is 2.6 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 8	1:12 p.m.	64.93	June 15	1:52 p.m.	67.39
Feb. 17	2:25 p.m.	67.23	22	2:06 p.m.	67.73
23	1:53 p.m.	66.51	29	2:00 p.m.	67.96
Mar. 2	1:53 p.m.	66.83	July 6	1:40 p.m.	66.99
9	1:59 p.m.	66.89	16	11:12 p.m.	67.27
16	1:42 p.m.	66.95	20	2:20 p.m.	66.95
23	2:08 p.m.	67.28	27	12:55 p.m.	66.90
30	2:15 p.m.	67.04	Aug. 5	2:06 p.m.	66.97
Apr. 6	2:00 p.m.	67.40	10	2:30 p.m.	67.07
13	1:40 p.m.	67.38	17	1:45 p.m.	68.57
20	2:36 p.m.	66.95	27	9:36 a.m.	68.66
27	2:10 p.m.	67.05	30	1:40 p.m.	68.77
May 4	9:38 a.m.	66.95	Sept. 8	1:50 p.m.	66.41
11	2:58 p.m.	67.01	15	2:10 p.m.	66.51
20	1:44 p.m.	67.09	22	3:08 p.m.	68.84
25	3:20 p.m.	67.15	Oct. 25	3:38 p.m.	68.94
June 1	2:12 p.m.	66.96	Nov. 30	2:40 p.m.	67.27
8	2:29 p.m.	67.31	Dec. 31	2:40 p.m.	68.57

368 (#939, p. 32; 947, p. 33). Camp Claiborne. 50 feet from well 12 (U. S. Geol. Survey well 367). Water-stage recorder removed Oct. 8, 1943. Measuring point is 1.5 feet below land-surface datum.

Water level, in feet below land-surface datum, 1943

(From recorder charts Jan. 5 to Oct. 8)

Jan. 5	4:35 p.m.	77.09	Apr. 20	2:55 p.m.	78.84
13	2:03 p.m.	77.24	27	2:30 p.m.	78.97
20	1:30 p.m.	77.34	May 4	10:00 a.m.	79.05
27	2:25 p.m.	77.42	11	3:10 p.m.	79.13
Feb. 4	2:25 p.m.	77.55	20	2:00 p.m.	79.30
10	1:58 p.m.	77.72	25	3:05 p.m.	79.34
17	2:45 p.m.	77.79	June 1	2:30 p.m.	79.48
23	2:15 p.m.	77.85	8	2:45 p.m.	79.57
Mar. 2	2:15 p.m.	78.09	15	2:15 p.m.	79.65
9	2:13 p.m.	78.10	22	2:25 p.m.	79.82
16	2:06 p.m.	78.28	29	3:30 p.m.	79.87
23	2:40 p.m.	77.79	July 6	2:12 p.m.	80.07
30	2:40 p.m.	78.41	13	3:26 p.m.	80.18
Apr. 6	2:30 p.m.	78.49	20	3:30 p.m.	80.26
13	2:05 p.m.	78.69	27	3:55 p.m.	80.41

368 Camp Claiborne--Continued.

Water level, in feet below land-surface datum, 1943
(From recorder charts Jan. 5 to Oct. 8)

Date	Hour	Water level	Date	Hour	Water level
Aug. 5	2:30 p.m.	80.47	Sept. 22	3:30 p.m.	81.21
10	2:50 p.m.	80.60	29	3:30 p.m.	81.31
17	2:00 p.m.	80.65	Oct. 8	2:30 p.m.	81.42
24	3:55 p.m.	80.69	25	3:52 p.m.	74.54
31	2:05 p.m.	80.86	Nov. 30	3:00 p.m.	80.32
Sept. 8	2:15 p.m.	80.99	Dec. 31	3:00 p.m.	81.91
15	2:30 p.m.	81.13			

381 (#947, p. 33). Camp Livingston. About 100 feet west and 60 feet north of well 3NW (U. S. Geol. Survey well 355). Water-stage recorder removed Oct. 8, 1943. Measuring point is 1 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943
(From recorder charts Jan. 5 to Sept. 28)

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	1:55 p.m.	65.74	June 1	7:30 a.m.	66.91
13	11:00 p.m.	65.91	8	7:30 a.m.	67.01
20	5:01 p.m.	66.11	15	7:45 a.m.	67.09
27	11:15 a.m.	66.20	22	5:10 p.m.	67.10
Feb. 3	5:15 p.m.	65.93	29	7:35 a.m.	67.13
10	11:15 a.m.	66.00	July 6	7:30 a.m.	67.17
16	1:45 p.m.	66.30	13	7:25 a.m.	67.31
23	11:15 a.m.	66.16	20	7:30 a.m.	67.23
Mar. 2	10:45 p.m.	66.26	27	7:24 a.m.	67.34
9	10:00 p.m.	66.33	Aug. 3	7:30 a.m.	67.35
16	11:10 a.m.	66.26	10	7:30 a.m.	67.43
23	10:33 a.m.	66.49	17	7:35 a.m.	67.42
30	10:55 a.m.	66.52	24	7:30 a.m.	67.54
Apr. 6	11:48 a.m.	66.30	31	7:30 a.m.	67.60
13	9:50 a.m.	66.58	Sept. 8	7:30 a.m.	67.67
20	7:15 a.m.	66.61	15	7:30 a.m.	67.68
27	7:00 a.m.	66.64	22	7:30 a.m.	67.77
May 4	7:45 a.m.	66.69	28	7:30 a.m.	67.78
11	7:15 a.m.	66.71	Oct. 28	3:45 p.m.	67.94
18	2:40 p.m.	66.85	Nov. 29	3:15 p.m.	68.19
25	7:20 a.m.	66.80	Dec. 27	2:55 p.m.	68.32

St. Charles ParishSc-6. Shell Oil Co. N $\frac{1}{2}$ sec. 6, T. 12 S., R. 8 E., 1,000 feet south of Louisiana & Arkansas Railway tracks. Abandoned drilled industrial well, diameter 24 to 10 inches, depth 404 feet. Measuring point, top of casing, 1.5 feet above land-surface datum. Water-stage recorder installed Mar. 18, 1943.Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Mar. 18	1:20 p.m.	38.95	July 7	7:30 a.m.	40.65
25	2:45 p.m.	39.94	14	7:30 a.m.	40.04
Apr. 1	2:50 p.m.	39.75	21	7:30 a.m.	36.52
8	2:00 p.m.	39.44	28	7:30 a.m.	40.72
16	2:30 p.m.	39.17	Aug. 5	11:00 a.m.	42.35
23	1:30 p.m.	39.45	12	2:00 p.m.	42.42
30	1:30 p.m.	41.83	18	7:30 a.m.	42.03
May 7	1:30 p.m.	40.42	25	7:30 a.m.	42.76
14	1:30 p.m.	41.97	Sept. 1	7:30 a.m.	42.68
19	7:30 a.m.	42.15	8	8:30 a.m.	42.97
26	7:30 a.m.	41.02	15	8:30 a.m.	42.90
June 2	7:30 a.m.	39.52	22	8:30 a.m.	41.00
9	7:30 a.m.	39.23	29	8:00 a.m.	42.02
16	7:30 a.m.	38.59	Oct. 6	11:30 a.m.	42.10
23	7:30 a.m.	39.11	13	9:00 a.m.	41.90
30	7:30 a.m.	39.74	20	9:00 a.m.	42.96

Sc-6. Shell Oil Co.--Continued.

Water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Hour	Water level	Date	Hour	Water level
Oct. 28	10:00 a.m.	43.57	Dec. 1	10:00 a.m.	42.96
Nov. 3	10:00 a.m.	43.68	8	10:00 a.m.	42.90
10	10:30 a.m.	43.39	15	10:00 a.m.	42.37
17	10:00 a.m.	42.85	22	10:00 a.m.	43.23
24	10:00 a.m.	43.68	29	11:00 a.m.	42.29

St. Tammany Parish

St-2 (*886, p. 250; 909, p. 47; 939, p. 32; 947, p. 34). Mayer Israel. At Covington, in NE $\frac{1}{4}$ sec. 7, T. 6 S., R. 11 E. Measuring point is 3.5 feet above land-surface datum. Water level, in feet above land-surface datum, 1943: Mar. 13, 3:10 p.m., 88.5.

St-6 (*886, p. 250; 909, p. 47; 939, p. 32; 947, p. 34). Poitevent & Favre Lumber Co. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T. 7 S., R. 13 E., on south side of Highway 114. Measuring point is level with land-surface datum. Water level, in feet above land-surface datum, 1943: May 13, 10:15 a.m., 5.6.

St-10 (*886, p. 250; 909, p. 47; 939, p. 32; 947, p. 34). State Fish Hatchery. At Lacombe, in sec. 38, T. 8 S., R. 12 E., south wall. Measuring point is level with land-surface datum. Water level, in feet above land-surface datum, 1943: May 12, 12:45 p.m., 34.5.

St-12 (*886, p. 250; 909, p. 47; 939, p. 32; 947, p. 34). Tchefuncte State Park. In park, in sec. 43, T. 8 S., R. 12 E., on golf course. Measuring point is level with land-surface datum. Water level, in feet above land-surface datum, 1943: May 13, 1:40 p.m., 51.5.

St-16 (*886, p. 250; 909, p. 47; 939, p. 33; 947, p. 34). Great Southern Lumber Co. In sec. 20, T. 5 S., R. 13 E., 0.5 mile south and 1.5 miles west of Bush. Measuring point is 4.0 feet above land-surface datum. Water level, in feet above land-surface datum, 1943: May 13, 9:00 a.m., 30.0.

St-88 (*947, p. 34). C. R. Howze. In Slidell, at Teddy Avenue and Eighth Street. Measuring point is 0.6 foot above land-surface datum. Water level, in feet above land-surface datum, 1943: May 13, 12:00 noon, 11.6.

St-867 (*947, p. 34). J. L. Smith. In Covington, at Mississippi and Hancock Streets. Measuring point is 4.8 feet above land-surface datum. Water level, in feet above land-surface datum, 1943: May 13, 2:05 p.m., 103.8.

St-1020 (*947, p. 34). H. D. Howser Estate. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 7 S., R. 14 E., half a mile east of Highway 58. Measurements discontinued.

Tangipahoa Parish

Ta-5 (*886, p. 251; 909, p. 47; 939, p. 33; 947, p. 34). Southern United Ice Co. In Amite, at rear of lot behind ice plant. Measuring point is 4.7 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 13, 4:35 p.m., 5.07; Oct. 19, 4:15 p.m., 5.07.

Ta-7 (*886, p. 251; 909, p. 47; 939, p. 33; 947, p. 34). Town of Ponchatoula. In Ponchatoula, about 50 feet west of pumping station. Measuring point is 0.8 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 2:15 p.m., 8.6; Oct. 19, 2:15 p.m., 9.1.

Ta-8 (*886, p. 251; 909, p. 47; 939, p. 33; 947, p. 34). Louisiana Cypress Lumber Co. In Ponchatoula, about 200 yards west of Highway 122, at railroad spur on road to lumber mill. Measuring point is same as that used in 1942 and is the gage on 1-inch sleeve, 0.5 foot above the land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 1:10 p.m., 4.6; Oct. 19, 1:45 p.m., 6.2.

Ta-10 (*886, p. 251; 909, p. 48; 939, p. 33; 947, p. 34). Williams Lumber Co. 1 mile south of Ponchatoula, at arch across Highway 122. Measuring point is 4.1 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 1:45 p.m., 19.8; Oct. 18, 1:20 p.m., 20.9.

Ta-17 (*886, p. 251; 909, p. 48; 939, p. 33; 947, p. 35). Carl Blumquist. Center of NE $\frac{1}{4}$ sec. 6, T. 6 S., R. 8 E., in field corner. Measuring point is 1.0 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 4:10 p.m., 1.6; Oct. 19, 3:20 p.m., 2.6.

Ta-19 (886, p. 251; 909, p. 48; 939, p. 33; 947, p. 35). V. Stevens. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 7 S., R. 8 E., in field. Measuring point is 0.8 foot above land-surface datum. Water level, in feet above land-surface datum, 1943: May 11, 3:15 p.m., 16.0.

Ta-21 (*886, p. 251; 909, p. 48; 939, p. 33; 947, p. 35). Burns Davis. N $\frac{1}{4}$ irregular sec. 54, T. 7 S., R. 7 E., at shed. Measuring point is 0.8 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 12:30 p.m., 6.4; Oct. 19, 12:00 noon, 8.2.

Ta-23 (*886, p. 251; 909, p. 48; 939, p. 33; 947, p. 35). Otto Bignor. South line of sec. 50, T. 7 S., R. 7 E., in field. Measuring point is 0.4 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 12:10 p.m., 2.7; Oct. 19, 11:30 a.m., 3.6.

Ta-24 (*886, p. 251; 909, p. 48; 939, p. 33; 947, p. 35). Clyde Starkey. Center of sec. 53, T. 7 S., R. 7 E., in field. Measuring point is 0.8 foot above land-surface datum. Water levels, in feet above land-surface datum, 1943: May 11, 11:45 a.m., 4.5; Oct. 19, 11:00 a.m., 5.4.

West Baton Rouge Parish

WBR-4. Town of Port Allen. At Port Allen, in E $\frac{1}{2}$ sec. 67, T. 7 S., R. 1 W., about 40 feet east of municipal swimming pool. Drilled public-supply well, diameter 8 inches, depth 1,800 (?) feet. Measuring point, top of 8-inch tee at well, 1 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 25	26.6	Aug. 6	.....	9.6
Apr. 20	21.2	28	.....	12.7
May 6	20.7	Sept. 23	.....	14.2
20	18.1	Oct. 28	.....	13.0
June 2	14.4	Nov. 23	2:00 p.m.	15.4
21	13.7	Dec. 23	11:50 a.m.	9.1

WBR-5. Town of Port Allen. At Port Allen, in E $\frac{1}{2}$ sec. 67, T. 7 S., R. 1 W., about 20 feet south of reservoir behind pumping plant. Drilled public-supply well, diameter 8 inches, depth 1,338 feet. Measuring point, $\frac{3}{8}$ -inch cock in 8-inch casing, about 0.8 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	34.9	Aug. 6	.....	33.0
Apr. 20	35.6	28	.....	33.0
May 6	34.2	Sept. 23	.....	32.9
20	34.2	Oct. 28	.....	33.0
June 2	36.0	Nov. 23	1:45 p.m.	34.3
21	36.1	Dec. 23	11:40 a.m.	34.4

WBR-10. Poplar Grove Plantation. On east side of sec. 59, T. 6 S., R. 1 W., south side of pond at sugar mill, 0.25 mile west of State Highway 319, 2 miles north of Port Allen. Drilled industrial well, diameter 6 inches, depth 2,082 feet. Measuring point, top edge of 6-inch tee, 0.5 foot above land-surface datum.

Water level, in feet above land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Feb. 24	30.0	Aug. 6	.....	10.8
Apr. 20	23.7	28	.....	10.2
May 6	21.6	Sept. 23	.....	9.5
20	19.8	Oct. 28	.....	9.4
June 2	20.5	Nov. 23	2:30 p.m.	11.2
21	16.2	Dec. 23	11:20 a.m.	11.0

OKLAHOMA

By E. W. Reed and C. L. Jacobsen

PROGRAM OF WORK

The observation-well program in Oklahoma, which was begun as early as 1934 in at least one area, was continued in 1943 by the Geological Survey, United States Department of the Interior, in cooperation with the Oklahoma Geological Survey and the Oklahoma Agricultural and Mechanical College as part of the investigation of the ground-water resources of the State.

The area in which the first observations were made by the Federal Geological Survey is the Stillwater Creek Basin, where the well program was conducted from June 1934 to July 1940 in cooperation with the Soil Conservation Service, United States Department of Agriculture, and has since been continued in cooperation with Dr. H. J. Harper, head of the Department of Agronomy of the Oklahoma Agricultural and Mechanical College, at Stillwater. Dr. M. J. Plice, also of the Department of Agronomy, who made the water-level measurements in 1941 and 1942, continued this work in 1943. The remainder of the ground-water investigation in the State in 1943 was conducted by the Federal Geological Survey in cooperation with the Oklahoma Geological Survey. It includes the Panhandle program, begun in 1937, the Cleveland County program, begun in 1939, the North Canadian River Valley program, begun in 1940, and the Oklahoma County program, begun in 1943.

Brief discussions of the topography and geology of the areas in the State covered by the well-measurement program and their relation to the ground-water resources in those areas have been published by the Federal Geological Survey as follows: Stillwater Creek Basin, in Water-Supply Paper 777; the Panhandle, in Water-Supply Papers 840 and 845; Cleveland County, in Water-Supply Papers 886 and 939; North Canadian River Valley in general, in Water-Supply Paper 909; and Oklahoma County, in the present report.

Progress was made in 1943 in the investigation of the ground-water resources in several of the areas mentioned, especially in the North Canadian River Valley and in Cleveland County. From Cleveland County, which is in the Canadian River Valley, the investigation was extended northward into Oklahoma County, most of which is in the North Canadian River Valley. In addition to the work done in connection with the general investigation, several brief studies of ground-water supplies were made for municipalities and war establishments, and numerous inquiries on ground-water supplies related to the war effort were answered.

The report on Cimarron County, in which the investigation was completed in 1942, was published in 1943 by the Oklahoma Geological Survey as its Bulletin 64. The author of this bulletin, which is entitled "Geology and ground-water resources of Cimarron County", is S. L. Schoff, and it includes a section on Mesozoic stratigraphy by J. W. Stovall. Reports on two of the three counties in the Oklahoma Panhandle--Cimarron and Texas Counties--have now been published. The report on the third county--Beaver--has been postponed for the duration of the war, awaiting the return to the Federal Geological Survey of S. L. Schoff, now on duty with the armed services.

During the year more than 1,300 measurements were made in 168 observation wells in 12 counties. The wells in the Stillwater Creek Basin and those in Oklahoma County were measured monthly, as was also the one well in McClain County. The wells in the Panhandle counties were measured twice during the year--in April and October--except Beaver County well 528, which was measured weekly, and Beaver County wells 573 and 612, which were measured three and four times, respectively, as a part of the North Canadian River Valley group. The North Canadian River Valley wells and the Canadian County wells were measured four times during the year, the former in January, April, July, and October, and the latter in January, April, July, and November. The Cleveland County wells were measured weekly, some of them oftener during the summer. An automatic water-stage recorder was in operation during the year on one well--Cleveland County well 5.

The location of the observation wells in Oklahoma is shown in figure

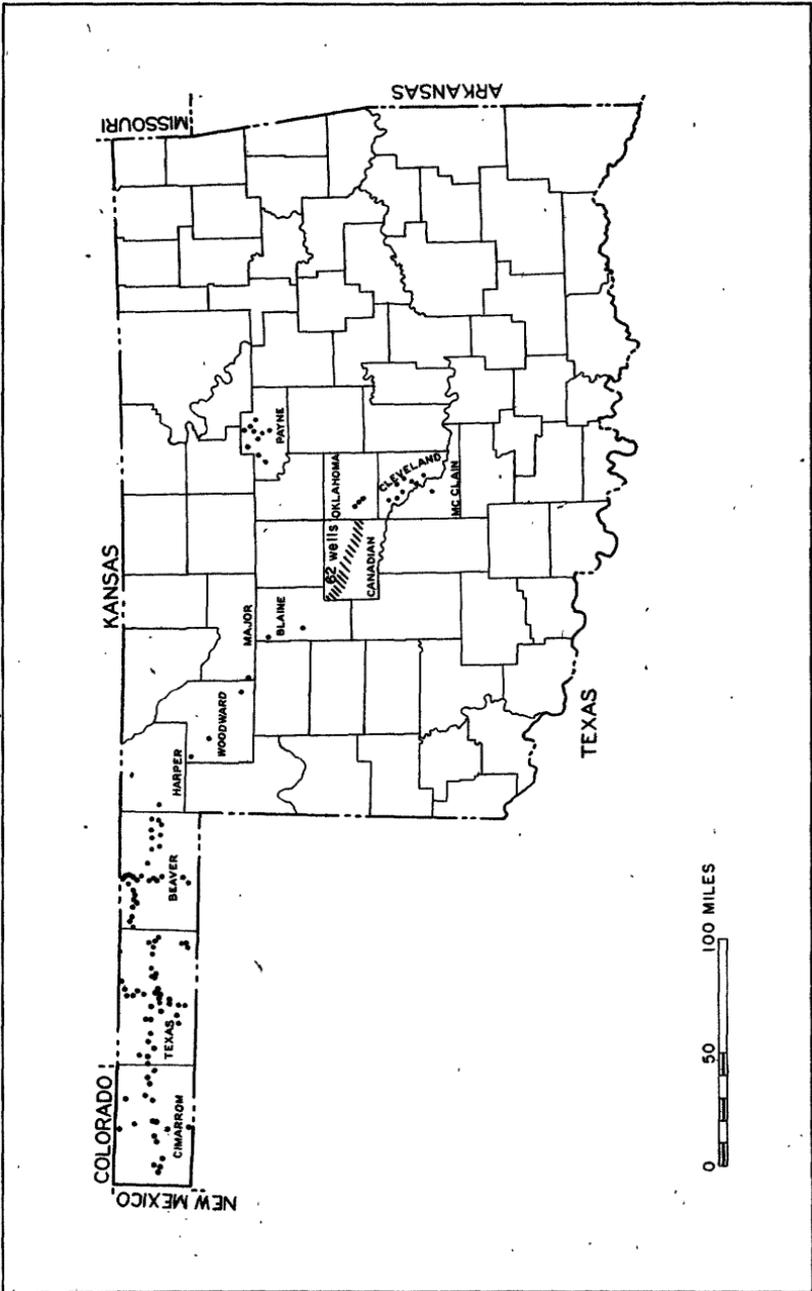


Figure 6.--Map of Oklahoma showing location of observation wells.

PRECIPITATION

The average precipitation in the State during 1943 was 28.88 inches, which is 5.69 inches less than the average for the 52 years of record and 11.08 inches less than the average for 1942. The year was characterized by an unusual distribution of rainfall; for 10 of the months there was a deficiency of rainfall, and for 2--May and December--there was an excess. January was the driest and May the wettest month of the year; they were also the driest January and the wettest May of the period of record. In January the average rainfall for the State was only 0.08 inch, which was 1.36 inches below normal; in May it was 10.27 inches, which was 5.50 inches above normal. The heavy rains of May resulted in record-breaking floods in the eastern part of the State.

The precipitation at the six stations in the Panhandle ranged from 10.54 inches at Kenton to 14.95 inches at Goodwell, and the average was 12.97 inches, which is 5.18 inches below normal. Departures at individual stations ranged from 2.47 inches below normal at Goodwell to 7.49 inches below normal at Kenton.

The average precipitation at the nine stations along the North Canadian River between Oklahoma City and Supply was 22.15 inches, which is 5.53 inches below normal. Total rainfall varied from 19.26 inches at Mutual to 25.51 inches at Oklahoma City. Departures from the normal precipitation ranged from 1.69 inches below normal at Supply to 8.35 inches below normal at Fort Reno.

Norman, in Cleveland County, received 20.14 inches of rain, a deficiency of 13.17 inches; Oklahoma City, in Oklahoma County, received 25.51 inches, a deficiency of 5.64 inches.

At Stillwater, in Payne County, the rainfall was 31.07 inches, which is 2.76 inches below normal.

PUMPAGE

The Panhandle

It is estimated that about 2,050 acre-feet of water was pumped in the Oklahoma Panhandle during 1943, divided among the three counties as follows: Beaver County, 330 acre-feet; Cimarron County, 160 acre-feet; Texas County, 1,560 acre-feet.

Almost twice as much water was pumped in 1943 as in 1942, because 1943 was a hot, dry year and 1942 was a relatively cool, wet year. In 1942, soil-moisture conditions were good during most of the year and irrigation was negligible; but in 1943 soil-moisture conditions were poor during the latter part of the growing season and considerable irrigation was necessary. The greatest increase in pumpage occurred in Texas County, as most of the land under irrigation is in that county. Municipal pumpage in the Panhandle also increased during 1943; it was about one and one-third times as large as in 1942.

Cleveland and Oklahoma Counties

The pumpage in Cleveland County increased greatly in 1943 owing to the establishment of two large Naval bases in the Norman area. In Oklahoma County, also, there is considerable pumpage, large drafts being made on the wells in the vicinity of Oklahoma City by two military establishments and several industries.

FLUCTUATIONS IN WATER LEVEL

The Panhandle

The observation wells in the Panhandle have been arranged, for convenience, by counties, and those in each county by groups according to the aquifers they tap. There are eight groups in all. (See fig. 7 and tables on pp. 53 and 54.) The weighted average water level from measurements of all wells in the Panhandle was 0.16 foot higher in April 1943 than in October 1942, although precipitation was below normal in the 6 months that intervened. During this 6-month period, the average water level in each of the groups, except the group that taps the alluvium in Cimarron County, was higher in April 1943 than in October 1942. Both 1941 and 1942 were wet years, and the water table in the Ogallala formation, the principal aquifer in the Panhandle, rose steadily during this period. The water table in the Ogallala formation, however, is usually 100 feet or more below the land surface, and consequently there is a lag in time between precipitation and the resultant rise in water table. The high water levels of April 1943 are due to the rains of October 1942 and preceding months. The rise in water levels in the wells that tap the redbeds can be similarly explained.

The water table in the alluvium, unlike that in the redbeds and the Ogallala formation, responds rather rapidly to precipitation. During October 1942 the water-level measurements were made during a period of heavy

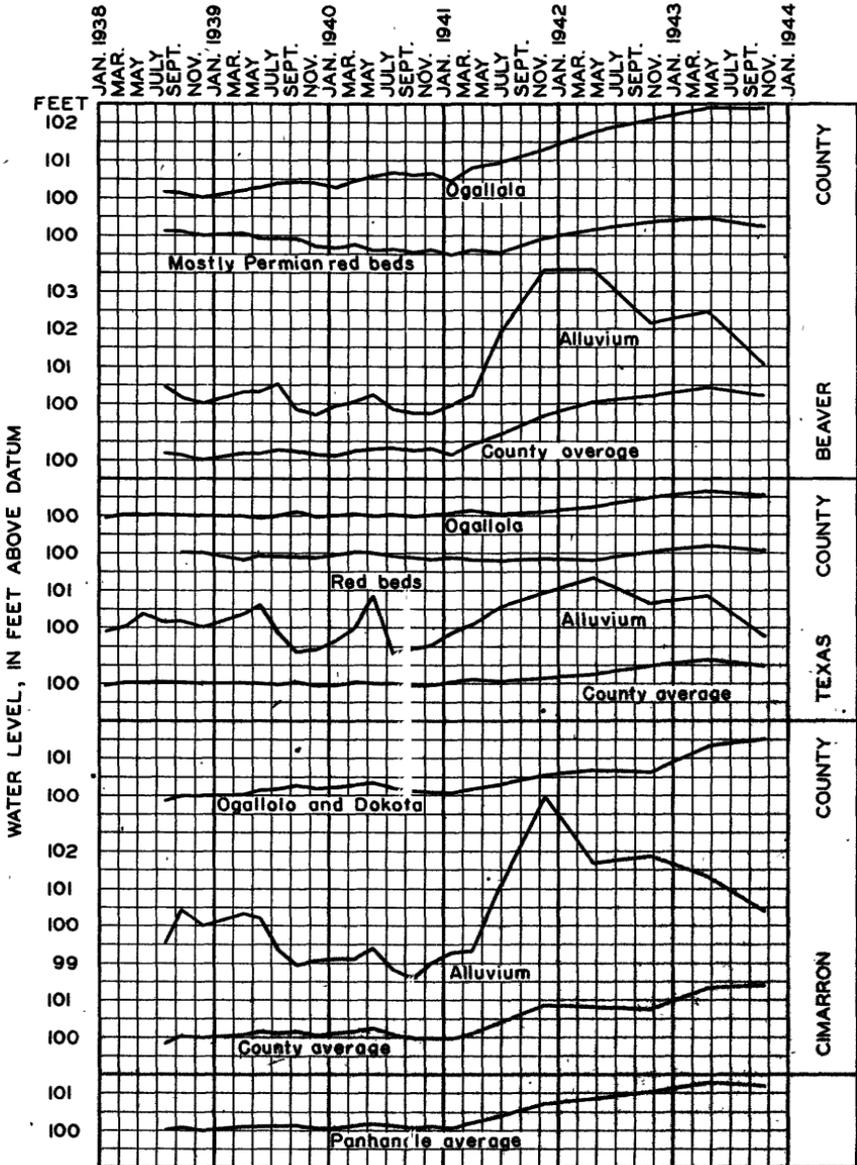


Figure 7.--Graphs showing average water levels in wells tapping water in the different aquifers in the Oklahoma Panhandle, 1938-43.

precipitation, and as the wells in Cimarron County were measured several days later than the wells in Texas and Beaver Counties, the water table in the alluvium, at the time of measurement, was at a relatively higher stage in Cimarron County than in Texas and Beaver Counties. The measurements of April 1943 were made during a dry period, and the stage of the water table was relatively the same in all three counties, but in average water level the wells in the alluvium of Cimarron County showed a net decline and the wells in the alluvium of Texas and Beaver Counties showed a net rise.

In 1943, during the period between the April and the October measurements, all groups of wells in the Panhandle, except the Ogallala-Dakota group in Cimarron County, showed declines in water level. This general decline is the result of the lack of precipitation; in only one month in 1943--December--did all five stations in the Panhandle show above-normal precipitation. The rise in water level in the Ogallala-Dakota group of wells was probably caused by spotty rainfall along the line of these wells, and it is probable that in the rest of Cimarron County the water levels declined.

The following tables present, for comparison, the average water level in October 1942 and in April and October 1943 for each of the eight groups of wells in the Oklahoma Panhandle and the net change in each group from October 1942 to October 1943. The tables serve to continue the record of averages given in similar tables in Water-Supply Papers 909, 939, and 947. An asterisk indicates that the water level is the highest observed during the period of record.

Average water levels in groups of wells in the Oklahoma Panhandle, in feet above assumed datum planes, 1942-43

Date	Beaver County			Texas County			Cimarron County		
	1	2	3	4	5	6	7	8	
Oct. 1942	102.10	100.37	102.14	100.50	100.02	100.67	100.63	101.85	
Apr. 1943	*102.41	*100.48	102.49	*100.64	*100.19	100.87	101.33	101.31	
Oct. 1943	102.38	100.23	101.03	100.53	100.06	99.76	*101.51	100.42	
Net change									
in year	+0.28	-0.14	-1.11	+0.03	+0.04	-0.91	+0.88	-1.43	

1. Wells in northwestern part of Beaver County, tapping water in the Ogallala formation.
2. Wells in southeastern part of Beaver County, tapping water principally in the Permian redbeds.
3. Wells tapping water in alluvium.
4. Wells on the uplands, tapping water in the Ogallala formation.
5. Well 294, tapping water in the Triassic or Permian redbeds.
6. Wells tapping water in alluvium.
7. Wells on the uplands, tapping water in the Ogallala formation and, in some places, in the Dakota sandstone.
8. Wells tapping water in alluvium.

Weighted average water levels in wells in the Oklahoma Panhandle,
by counties, in feet above assumed datum planes, 1942-43

Date	Beaver a/	Texas b/	Cimarron c/	Average d/
Oct. 1942	101.71	100.50	100.75	100.99
Apr. 1943	*101.94	*100.64	101.33	*101.30
Oct. 1943	101.71	100.48	*101.40	101.20
Net change in year	0.00	-0.02	-0.65	+0.21

a Weighted average, in which wells in northwestern part of county represent 65 percent of the total area; wells in southeastern part, 25 percent; and wells in alluvium, 10 percent.

b Weighted average, in which upland wells in Ogallala formation represent 93 percent of the total area; wells in alluvium, 5 percent; and wells in rebeds (Permian to Jurassic?), 2 percent.

c Weighted average, in which upland wells in Ogallala formation and Dakota sandstone represent 90 percent of the total area and wells in alluvium 10 percent.

d Arithmetical average of the three weighted county averages.

Stillwater Creek Basin

Although the wells in the Stillwater Creek Basin were measured only monthly, figure 8 shows that the average water level of the eight most representative wells closely follows changes in precipitation. During the first part of the year, the average water level fluctuated little more than half a foot, but during May, when the area received extremely heavy rainfall--Stillwater had an excess of 9.04 inches--the average water level was the highest ever recorded for this group of wells. It was 0.56 foot higher than the previous high, which occurred in April 1942, and 10.50 feet higher than the lowest on record, which occurred in September 1940. During June and July, which were dry, the average water level declined sharply, reaching a stage below the lowest stage it had reached in 1942, and continued to decline throughout August and September, but less sharply. A slight excess of precipitation in October held the water level constant during that month, but during November it again declined. An excess of precipitation in December caused the water level to rise to a stage only a little lower than its stage in October, and at the end of 1943, it was 1.73 feet lower than at the end of 1942, the total fluctuation during the year being 6.36 feet.

North Canadian River Valley

The wells in the North Canadian River Valley are situated close to the river and, consequently, their water levels follow closely the changes in flow of the river. As only one of the wells was measured more than five times during the year, only general conclusions can be drawn from the measurements. Beaver County well 528, at Beaver, however, was measured weekly throughout the year, and the fluctuations are probably typical of wells on the flood plain of the river. At the end of 1942 the water level in this well was rising, and it continued to rise until the end of March 1943, as a result of continued flow in the river, although the rainfall was deficient. Through April the water level fluctuated little but at the end of that month it began to decline. It declined steadily until the beginning of July, when a local rain caused it to rise more than a foot to its highest stage of the year, which was 0.55 foot higher than at its stage at the beginning of the year. By the end of July, however, it had declined to a stage lower than its stage at the beginning of that month. The sharp decline continued through August but slackened in September and October, and in November the water level reached its lowest stage of the year, 3.55 feet below its highest stage of the year. During December, in response to precipitation, it rose gradually about half a foot, but at the end of the year it was 2.66 feet lower than at the beginning of the year. During the year the decline in other wells ranged from 6.89 to 1.61 feet, and at the end of the year their water levels were, on the average, 3.5 feet lower than at the beginning of the year.

Canadian County

The observation wells in Canadian County were measured four times during the year, in January, April, July, and November. All these wells are located within the North Canadian River Valley, where the alluvium is the principal aquifer. Some of the wells pass completely through the alluvium and tap water in the underlying redbeds. In general, the wells nearest the river show the greatest variation in water level, and as the water table is recharged by the river as well as by direct rainfall on the valley, the several wells need not have similar fluctuations of water level and seldom do. In general, the water levels were higher in January 1943 than in October 1942, but they declined from the beginning of February through April 1943. However, the next measurements, which were made in July 1943, showed

that slightly more than half the wells declined in water level, and the remainder rose. This was due to spotty rainfall, and the declines and rises were in definite groups of wells. During the period July to November, when rainfall was deficient and there was practically no surface runoff to the river, water levels in all the wells declined and, on the average, were 2.7 feet below their stages at the beginning of the year.

Cleveland County

The observation-well program in Cleveland County was expanded considerably during 1943 as a continuation of the investigation of the "Norman water sand". Four wells that tap the Norman water sand were added to the program, making a total of eight wells regularly observed. Seven of the wells are deep, artesian wells that tap the Norman water sand, and the other, Cleveland County well 1, is a shallow dug well on a high terrace of the Canadian River.

The water level in Cleveland County well 1 fluctuated widely during 1943 in response to the irregular rainfall. During the early part of the year, however, it varied little, but in May, in response to the abnormally heavy rainfall, it rose nearly 5 feet, so that on May 22 its stage was only 0.91 foot lower than the highest ever recorded for this well. From this high stage it declined rapidly throughout the summer, having only minor rises, continued to decline during the fall, though less rapidly, and on December 15 reached its lowest stage of the year, which was 8.44 feet lower than its highest stage, reached in May. The above-normal precipitation of December caused it to rise slightly, but the rise was so small that on December 31, 1943, the water level was 4.90 feet below its stage on December 31, 1942.

In 1942, a Naval Air Station was established to the north of Norman, and a Naval Air Technical Training Center to the south. Both these Naval bases and several other fairly large consumers, including the city of Norman, obtain their water supplies from deep wells in the Norman water sand. The increased pumpage resulting, estimated as three times the pumpage in any previous year, caused a large and serious decline of water levels in the area, as shown by the record for well 4, which is an unused well in the Norman city well field. Measurements made in this well show a decline of 107.37 feet from January 4 to September 1, when, unfortunately, measurements had to be discontinued because the water level fell below an obstruction in the casing. During the summer the water level in this well declined at an average rate of 6 feet a week.

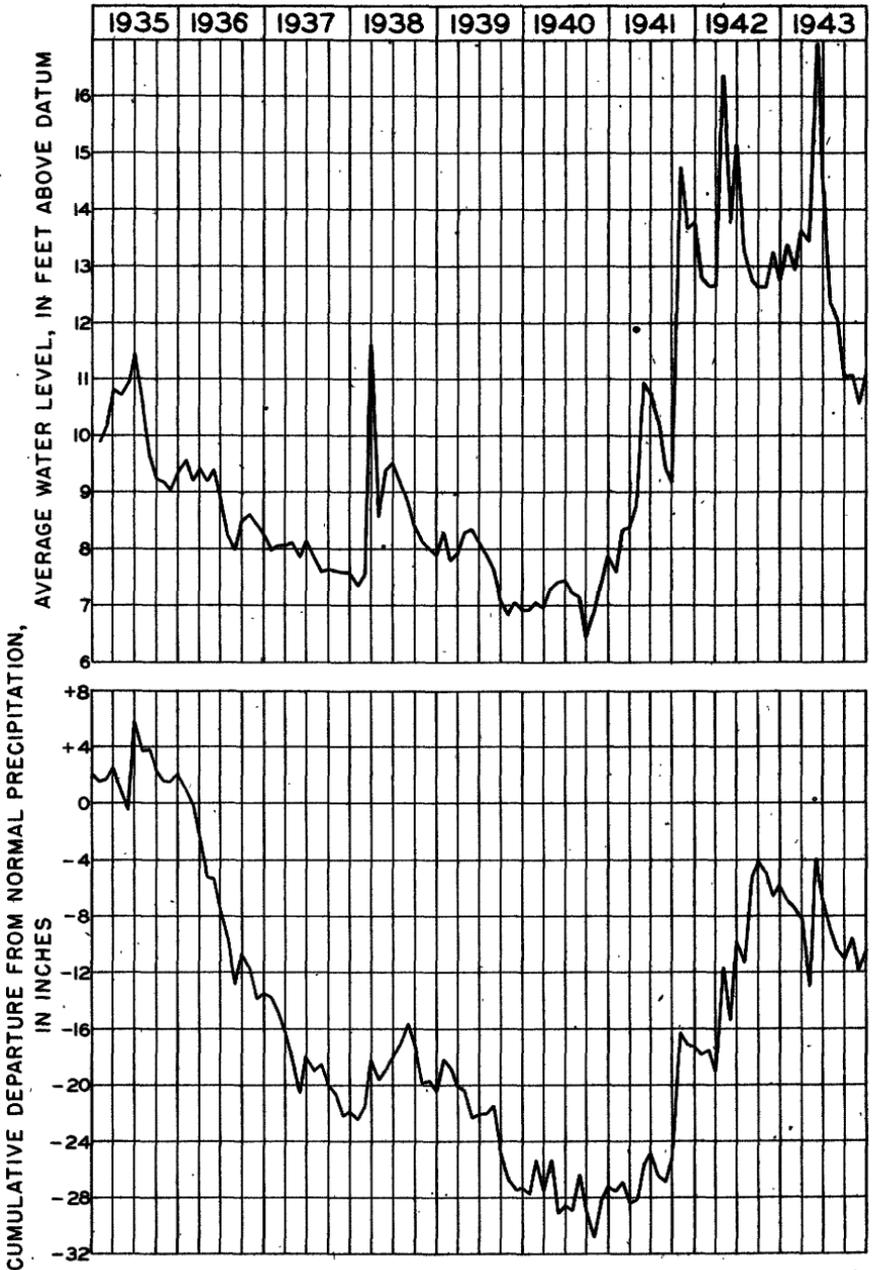


Figure 8.--Graphs showing fluctuations in average water level in wells in the Stillwater Creek Basin, 1935-43, and cumulative departure from normal precipitation at Stillwater, Okla. (computed from January 1931 to January 1944).

The extent of the cone of depression that developed is clearly shown by the records for well 5, which is 5 miles east of Norman, and well 6, which is $3\frac{1}{2}$ miles southeast of the Naval Air Technical Training Center. During the year, the water level in well 5 declined 18.74 feet and that in well 6 declined 21.59 feet. The decline in these two wells is shown by the hydrographs in figure 9. During the first part of the year it is probable that neither of the wells was affected by pumpage in the Norman area; in April and May, however, the effect became apparent in the decline of their water levels, which reached its maximum in August. The decline continued into November in both wells and throughout the year in well 6. The water levels in both wells show the effect of the seasonal decrease of pumpage during the fall.

McClain County

The one observation well in McClain County, about 4 miles northwest of Purcell, was measured monthly during the year. This well taps the Norman water sand but is far enough away from the Norman area to be unaffected by the pumpage. Throughout the year, the water level fluctuated only 0.89 foot, being highest on January 23 and June 12 and lowest on November 27. On December 24, it was 0.65 foot lower than on January 11, when it was first measured.

Oklahoma County

Three observation wells were established in Oklahoma County in 1943--two in Oklahoma City and one about a mile northwest of Britton. All three wells tap artesian water in sands of the lower Permian redbeds at depths of 280 to 312 feet. The upper producing sands are in the Garber sandstone, which is apparently equivalent to the Norman water sand in Cleveland County, and the lower producing sands are in the Wellington formation.

In the Oklahoma City area there are two military establishments and also several industries, both large and small, that utilize ground water from the Garber sandstone and the Wellington formation. It is probable that 150 or more wells in the area interfere with each other to a greater or less extent, and the three observation wells reflect changes in water level that are due to variations in pumpage from surrounding wells.

Fluctuations of water level followed a similar pattern in each of the three observation wells in the county. The fluctuations were characterized by relatively steep declines during the summer, when the pumpage is heavy,

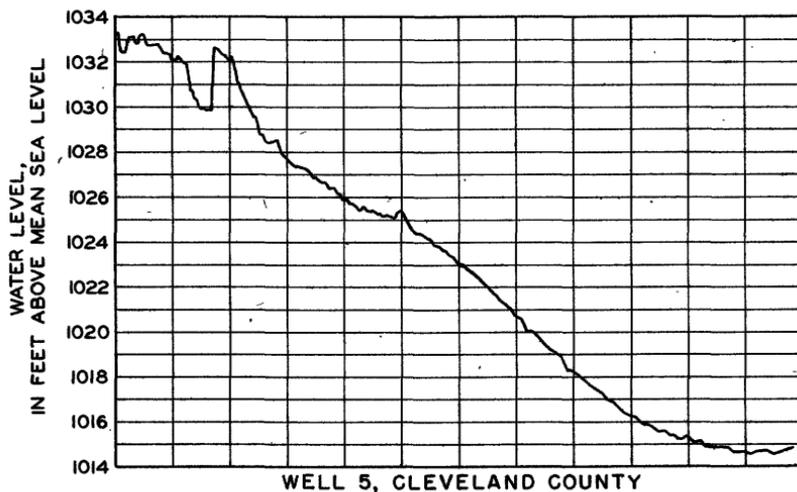
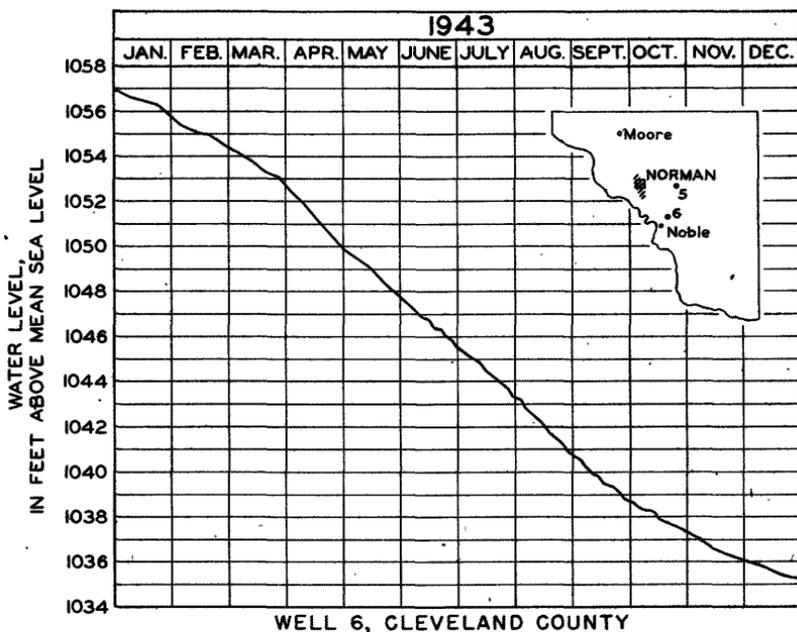


Figure 9.--Graphs showing declines in water level in 1943 in Cleveland County wells 5 and 6 due to pumpage in Norman area.

and gentle rises during the late fall and the winter, when the pumpage decreases. The water level in well 1 declined 14.28 feet between June 21 and November 2; that in well 2 declined 25.89 feet between February 18 and September 30; and that in well 3 declined 45.63 feet between June 21 and August 27. However, between the second date given and December 31, the water level recovered 3.06, 15.19, and 36.32 feet in wells 1, 2, and 3, respectively.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Beaver County

- 62 (*845, p. 391; 886, p. 601; 909, p. 58; 939, p. 46; 947, p. 48). Ray D. Hall. SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 1 N., R. 23 E. Measuring point, south edge of hole in iron disk used as a cover for casing, 0.60 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 23, 161.70.
- 258 (*845, p. 391; 886, p. 601; *909, p. 59; 939, p. 46; 947, p. 48). Frank S. Flynn. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 2 N., R. 24 E. Measuring point, west edge of casing, 1.00 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 20, 49.58.
- 401 (*845, p. 391; 886, p. 601; *909, p. 59; 939, p. 47; 947, p. 48). T. T. Yarnold. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 3 N., R. 24 E. Measuring point, east edge of casing, 1.50 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 92.11; Oct. 23, 92.45.
- 417 (*845, p. 389; 886, p. 597; 909, p. 59; 939, p. 47; 947, p. 48). Ralph Ridgeway. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 3 N., R. 24 E. No measurements made in 1943.
- 418 (*845, p. 389; 886, p. 596; 909, p. 59; 939, p. 47; 947, p. 48). Nile J. Mosburg. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 3 N., R. 25 W. Measuring point, iron cover on north side of pipe, 1.60 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 60.96; Oct. 24, 61.36.
- 432 (*845, p. 388; 886, p. 596; 909, p. 59; 939, p. 47; 947, p. 48). George H. Button. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 3 N., R. 26 E. No measurements made in 1943.
- 433 (*845, p. 388; 886, p. 596; 909, p. 59; 939, p. 47; 947, p. 48). Federal Land Bank. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 3 N., R. 26 E. Measuring point, east edge of casing, 1.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 39.24; Oct. 24, 39.41.
- 434 (*845, p. 388; 886, p. 596; 909, p. 59; 939, p. 47; *947, p. 48). J. W. Hibbs and others. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 3 N., R. 26 E. Original measuring point 0.25 foot above land-surface datum; present measuring point, upper edge of south side of iron pipe clamp, on east side of pipe, 0.16 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 116.25; Oct. 24, 116.48.
- 464 (*845, p. 388; 886, p. 596; 909, p. 60; 939, p. 47; 947, p. 49). N. W. Johnson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 3 N., R. 28 E. Measuring point, east edge of casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 113.46; Oct. 24, 113.64.
- 518 (*845, p. 391; 886, p. 600; 909, p. 60; 939, p. 47; 947, p. 49). Pete Sanders Estate. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, T. 4 N., R. 23 E. Measuring point, south edge of casing, 1.00 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 23, 39.50.
- 523 (*845, p. 389; 886, p. 597; 909, p. 60; 939, p. 47; 947, p. 49). Frances M. Hancock. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 4 N., R. 24 E. Measuring point, east edge of casing, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 21.57; Oct. 24, 23.53.

526 (*845, p. 391; 886, p. 600; 909, p. 60; 939, p. 47; *947, p. 49). Elmer E. Thompson. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 4 N., R. 24 E. Original measuring point, 0.50 foot above land-surface datum; present measuring point, bottom edge of hole in rod guide casing, 2.06 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 23, 45.56.

527 (*845, p. 391; 886, p. 600; 909, p. 60; 939, p. 47; 947, p. 49). Mrs. Ellen F. Williams. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 4 N., R. 24 E. Measuring point, west edge of casing, 0.90 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 46.04; Oct. 23, 45.92.

528 (*886, p. 600; 909, p. 60; 939, p. 47; 947, p. 49). Oklahoma Electric & Water Co. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 4 N., R. 24 E. Original measuring point 4.90 feet above land-surface datum; present measuring point, edge of strap iron screwed to top of plank on inside of south side of opening under trap door, 1.64 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	11.53	Apr. 9	11.21	July 16	11.17	Oct. 15	14.48
8	11.46	15	11.17	23	11.90	22	14.50
15	11.38	23	11.17	30	12.46	23	14.52
22	11.38	30	11.32	Aug. 6	12.86	29	14.50
29	11.36	May 7	11.44	13	13.32	Nov. 5	14.51
Feb. 5	11.34	14	11.48	20	13.46	12	14.53
12	11.32	20	11.59	27	13.73	19	14.53
19	11.26	26	11.50	Sept. 3	13.94	26	14.53
26	11.26	June 4	11.73	10	14.10	Dec. 3	14.52
Mar. 5	11.19	11	11.75	17	14.24	10	14.48
13	11.19	18	11.88	24	14.34	17	14.40
19	11.17	25	12.11	Oct. 1	14.40	24	14.32
27	11.15	July 2	12.07	8	14.44	31	14.19
Apr. 3	11.23	9	10.98				

573 (*845, p. 388; 886, p. 595; 909, p. 61; 939, p. 48; 947, p. 49). Federal Land Bank, Wichita, Kans. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 4 N., R. 28 E. Measuring point, southeast edge of casing, 1.50 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 26, 12.62; Apr. 20, 12.48; July 21, 13.58.

576 (*845, p. 390; 886, p. 598; 909, p. 61; 939, p. 48; 947, p. 49). J. C. Peters. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 5 N., R. 20 E. Measuring point, southeast edge of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 158.95; Oct. 24, 159.34.

577 (*845, p. 390; 886, p. 598; 909, p. 61; 939, p. 48; 947, p. 49). George Leepp. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 5 N., R. 20 E. Measuring point, west edge of opening in concrete slab around casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 139.75; Oct. 25, 139.78.

591 (*845, p. 390; 886, p. 598; 909, p. 61; 939, p. 48; 947, p. 49). A. J. Isaac. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 5 N., R. 21 E. Measuring point, north edge of casing, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 191.51; Oct. 25, 191.88.

593 (*845, p. 390; 886, p. 598; 909, p. 61; 939, p. 48; 947, p. 49). Ada Allred. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 5 N., R. 21 E. Original measuring point level with land-surface datum; present measuring point, northeast corner of iron plate nailed to west block of wooden pipe clamp, 0.03 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 172.05; Oct. 25, 172.10.

612 (*939, p. 48; *947, p. 50). Clarence Lamaster. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 4 N., R. 28 E. Measuring point, southwest corner of large opening in base of pump, behind discharge pipe, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 26, 9.90; Apr. 19, 9.77; July 21, 10.35; Oct. 24, 12.32.

- 613 (#845, p. 389; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
T. J. Trew. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 5 N., R. 22 E. Measuring point, top of iron pipe clamp, 1.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 65.24; Oct. 24, 65.52.
- 614 (#845, p. 389; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
Mrs. B. W. Lewis. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 5 N., R. 22 E. No measurements made in 1943.
- 616 (#845, p. 389; 886, p. 598; 909, p. 62; 939, p. 49; 947, p. 50).
Walter C. Fincher. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 5 N., R. 22 E. Measurements discontinued.
- 617 (#845, p. 390; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
Minnie B. Dorman and others. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, T. 5 N., R. 22 E. Measuring point, upper edge of south block of wooden pipe clamp on east side of pipe, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 168.17; Oct. 24, 168.39.
- 619 (#845, p. 389; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
Bank of Idana, Kans. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 5 N., R. 22 E. Measurements discontinued.
- 631 (#845, p. 389; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
George W. Dubois. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 5 N., R. 23 E. Measuring point, top of iron clamp on east side of pipe, 2.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 109.50; Oct. 24, 109.45.
- 635 (#845, p. 391; 886, p. 599; 909, p. 62; 939, p. 49; 947, p. 50).
A. E. Shillingburg. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 5 N., R. 23 E. Measuring point, south edge of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 60.11; Oct. 24, 60.20.
- 636 (#845, p. 389; 886, p. 597; 909, p. 62; 939, p. 49; 947, p. 50).
Central Life Assurance Society. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 5 N., R. 23 E. Original measuring point 0.60 foot above land-surface datum. Well destroyed after Apr. 20 measurement; measurements discontinued. Water level, in feet below land-surface datum, 1943: Apr. 20, 110.43.
- 647 (#845, p. 390; 886, p. 599; 909, p. 62; 939, p. 49; 947, p. 50).
Gilbert Hodges. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 5 N., R. 24 E. Original measuring point 0.30 foot above land-surface datum; present measuring point, upper edge of south block of wooden pipe clamp, on east side of pipe, 0.36 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 51.03; Oct. 24, 50.94.
- 648 (#845, p. 390; 886, p. 599; 909, p. 62; 939, p. 49; 947, p. 50).
John Angleton. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 5 N., R. 24 E. Original measuring point 0.50 foot above land-surface datum; present measuring point, upper edge of base of pitcher pump, 1.66 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 4.91; Oct. 24, 5.88.
- 649 (#845, p. 391; 886, p. 599; 909, p. 62; 939, p. 49; 947, p. 50).
Arthur Williams. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 5 N., R. 24 E. Measuring point, north edge of casing, 1.90 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 5.60; Oct. 24, 7.61.
- 767 (#845, p. 390; 886, p. 599; 909, p. 63; 939, p. 49; 947, p. 50).
Robert F. LeCrons. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 6 N., R. 23 E. Measuring point, edge of casing, 1.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 66.95; Oct. 24, 67.96.
- 777 (#845, p. 390; 886, p. 599; 909, p. 63; 939, p. 49; 947, p. 51).
J. H. Neese. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 6 N., R. 24 E. Original measuring point 0.50 foot above land-surface datum; present measuring point, iron plate nailed to wooden pipe clamp, 0.51 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 22.57; Oct. 24, 22.77.

Blaine County

1 (*909, p. 63; 939, p. 50; 947, p. 51). Oklahoma City Water Department. NE $\frac{1}{4}$ sec. 27, T. 16 N., R. 12 W. Measuring point, top of casing, 2.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 25, 4.40; Apr. 19, 4.71; July 21, 5.94; Oct. 22, 7.73.

2 (*909, p. 63; 939, p. 50; 947, p. 51). Oklahoma City Water Department. Near NE corner sec. 9, T. 18 N., R. 13 W. Measuring point, top of casing, 1.40 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 25, 5.22; Apr. 19, 5.55; July 21, 6.60; Oct. 22, 8.48.

Canadian County

1 (*909, p. 63; 939, p. 50; 947, p. 51). Oklahoma City Water Department. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 12 N., R. 5 W. Measuring point, top of casing, 0.60 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 25	4.82	Apr. 19	4.41	Oct. 22	11.30
Apr. 12	4.95	July 20	6.03	Nov. 4	8.71

2 (*909, p. 64; 939, p. 50; 947, p. 51). Oklahoma City Water Department. NW $\frac{1}{4}$ sec. 33, T. 13 N., R. 7 W. Measuring point, top of casing, 0.70 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 25	9.65	July 20	9.81	Nov. 6	15.19
Apr. 19	9.74	Oct. 22	14.71		

RFC3 (*947, p. 52). Geological Survey, U. S. Dept. of Interior. SW corner sec. 1, T. 13 N., R. 9 W. Measuring point, top of casing, 0.90 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 25	4.19	July 21	5.01	Nov. 5	5.94
Apr. 19	4.24	Oct. 22	6.23		

* RFC4 (*947, p. 53). Geological Survey, U. S. Dept. of Interior. NE corner sec. 17, T. 14 N., R. 10 W. Measuring point, top of casing, 0.50 foot above land-surface datum.

Water level, in feet below land-surface datum, 1943

Jan. 25	5.56	July 21	6.80	Nov. 5	7.58
Apr. 19	5.93	Oct. 22	8.30		

5 (*939, p. 51; 947, p. 51). Owner unknown. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 13 N., R. 10 W. Measuring point, top west edge of casing, 1.30 feet above land-surface datum. Probable aquifer, Permian redbeds.

Water level, in feet below land-surface datum, 1943

Jan. 25	20.10	Apr. 19	20.06	Oct. 22	19.56
Apr. 14	20.12	July 21	19.32	Nov. 5	19.53

10 (*947, p. 51). Owner unknown. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 13 N., R. 9 W. Measuring point, top south side of 5-inch hole in concrete slab cover, 1.30 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 15.59; Apr. 14, 16.94; July 22, 14.40; Nov. 5, 16.00.

13 (*947, p. 52). Owner unknown. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 13 N., R. 9 W. Measuring point, top south edge of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 5.88; Apr. 14, 6.57; July 22, 9.61; Nov. 5, 8.32.

82 (*947, p. 52). Ryba Jacob. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 12 N., R. 6 W. Measuring point, top north edge of casing, 1.50 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 12, 22.58; July 24, 21.15; Nov. 4, 22.83.

- 85 (#947, p. 52). W. L. Towe. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T. 12 N., R. 5 W. Measuring point, top east edge of casing, 1.40 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 14.82; Apr. 12, 14.24; July 24, 12.53; Nov. 4, 15.47.
- 151 (#947, p. 52). Canadian County. NW corner SW $\frac{1}{4}$ sec. 20, T. 14 N., R. 10 W. Measuring point, top west edge of coupling, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 8.30; Apr. 14, 9.16; July 22, 8.90; Nov. 5, 11.66.
- 152 (#947, p. 52). Owner unknown. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 13 N., R. 10 W. Measuring point, top west edge of casing, 2.50 feet above land-surface datum. Well destroyed after Apr. 14 measurement; measurements discontinued. Water levels, in feet below land-surface datum, 1943: Jan. 9, 18.16; Apr. 14, 18.22.
- G1 (#947, p. 53). Geological Survey, U. S. Dept. of Interior. SW corner sec. 29, T. 13 N., R. 7 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 18.05; Apr. 13, 18.25; July 23, 17.45; Nov. 6, 17.50.
- G2 (#947, p. 53). Geological Survey, U. S. Dept. of Interior. NW corner sec. 35, T. 13 N., R. 7 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Well had been covered over and was later dug out, and in good condition. Water levels, in feet below land-surface datum, 1943: Jan. 12, 2.30; Apr. 13, 2.63.
- G3 (#947, p. 53). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 13 N., R. 7 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 6.27; Apr. 13, 6.52; July 23, 6.86; Nov. 4, 8.91.
- G4 (#947, p. 53). Geological Survey, U. S. Dept. of Interior. NE corner sec. 8, T. 13 N., R. 9 W. Measuring point, top of casing, 2.10 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 11.16; Apr. 14, 12.19; July 22, 9.18; Nov. 5, 14.22.
- G5 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. NW corner sec. 5, T. 12 N., R. 6 W. Measuring point, top of casing, 1.05 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 2.44; Apr. 26, 2.38; July 23, 3.02; Nov. 4, 4.62.
- G6 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. SE corner sec. 8, T. 12 N., R. 5 W. Measuring point, top of casing, 0.20 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 8.60; Apr. 12, 8.38; July 24, 8.52; Nov. 4, 10.87.
- G7 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. NW corner sec. 21, T. 13 N., R. 7 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 13.65; Apr. 13, 13.55; July 23, 13.89; Nov. 6, 14.93.
- G8 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 13 N., R. 7 W. Measuring point, top of casing, 2.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 12.46; Apr. 13, 12.66; July 23, 12.65; Nov. 6, 14.96.
- G9 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. SW corner sec. 3, T. 12 N., R. 6 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 8.50; Apr. 12, 8.52; July 23, 9.10; Nov. 4, 10.67.
- G10 (#947, p. 54). Geological Survey, U. S. Dept. of Interior. NW corner sec. 15, T. 14 N., R. 10 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 7.37; Apr. 14, 7.34; July 22, 8.35; Nov. 5, 10.40.
- G11 (#947, p. 55). Geological Survey, U. S. Dept. of Interior. SW corner sec. 8, T. 14 N., R. 10 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 1.41; Apr. 14, 2.44; July 22, 3.87; Nov. 5, 5.35.

G12 (*947, p. 55). Geological Survey, U.S. Dept. of Interior. SW corner sec. 17, T. 14 N., R. 10 W. Measuring point, top of casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 2.00; Apr. 14, 3.58; July 22, 4.87; Nov. 5, 6.55.

G13 (*947, p. 55). Geological Survey, U. S. Dept. of Interior. SW corner sec. 14, T. 14 N., R. 10 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 3.49; Apr. 14, 4.16; July 22, 5.32; Nov. 5, 7.07.

G14 (*947, p. 55). Geological Survey, U. S. Dept. of Interior. 500 feet east of NW corner sec. 25, T. 14 N., R. 10 W. Measuring point, top of casing, 1.80 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 13.64; Apr. 14, 13.55; July 22, 13.40; Nov. 5, 15.81.

G15 (*947, p. 55). Geological Survey, U. S. Dept. of Interior. SE corner sec. 19, T. 14 N., R. 9 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 1.45; Apr. 14, 2.77; July 22, 3.63; Nov. 5, 5.20.

G16 (*947, p. 55). Geological Survey, U. S. Dept. of Interior. SE corner SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 14 N., R. 9 W. Measuring point, top of casing, 1.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 13.87; Apr. 14, 13.97; July 22, 13.65; Nov. 5, 16.06.

G17 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 14 N., R. 9 W. Measuring point, top of casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 9.92; Apr. 14, 10.11; July 22, 9.48; Nov. 5, 11.34.

G18 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. NW corner sec. 11, T. 13 N., R. 9 W. Measuring point, top of casing, 0.10 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 18.50; Apr. 13, 19.20; July 22, 17.97; Nov. 5, 19.83.

G19 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. SW corner sec. 27, T. 13 N., R. 7 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 18.36; Apr. 13, 18.92; July 24, 17.79; Nov. 6, 20.36.

G20 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. NW corner SW $\frac{1}{4}$ sec. 12, T. 12 N., R. 6 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 9.07; Apr. 12, 8.93; July 24, 8.95; Nov. 4, 12.27.

G21 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. NW corner SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 12 N., R. 6 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 13.99; Apr. 12, 13.95; July 24, 12.10; Nov. 4, 14.33.

G22 (*947, p. 56). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 12 N., R. 6 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 3.58; Apr. 12, 3.79; July 23, 4.39; Nov. 4, 7.29.

G23 (*947, p. 57). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T. 12 N., R. 6 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 7.95; Apr. 13, 8.22; July 22, 9.38; Nov. 4, 10.53.

G24 (*947, p. 57). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 12 N., R. 6 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 5.27; Apr. 13, 5.43; July 23, 6.60; Nov. 4, 8.15.

G25 (*947, p. 57). Geological Survey, U. S. Dept. of Interior. SW corner sec. 15, T. 14 N., R. 10 W. Measuring point, top of casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 8.08; Apr. 14, 8.25; July 22, 7.43; Nov. 5, 9.42.

- G26 (#947, p. 57). Geological Survey, U. S. Dept. of Interior. SW corner sec. 13, T. 14 N., R. 10 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 3.75; Apr. 14, 4.37; Nov. 5, 7.46.
- G27 (#947, p. 57). Geological Survey, U. S. Dept. of Interior. SW corner NW $\frac{1}{4}$ sec. 36, T. 14 N., R. 10 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 4.41; Apr. 14, 5.22; July 22, 6.13; Nov. 5, 9.23.
- G28 (#947, p. 57). Geological Survey, U. S. Dept. of Interior. SE corner sec. 23, T. 13 N., R. 8 W. Measuring point, top of casing, level with land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 16.56; Apr. 13, 16.72; July 23, 15.86; Nov. 6, 16.79.
- G29 (#947, p. 58). Geological Survey, U. S. Dept. of Interior. SW corner SE $\frac{1}{4}$ sec. 10, T. 13 N., R. 8 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 4.95; Apr. 13, 4.92; July 22, 5.41; Nov. 6, 7.33.
- G30 (#947, p. 58). Geological Survey, U. S. Dept. of Interior. SW corner sec. 36, T. 14 N., R. 9 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 5.66; Apr. 13, 6.08; July 22, 7.91; Nov. 5, dry at 9.6.
- G31 (#947, p. 58). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 14 N., R. 10 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 14.44; Apr. 14, 15.18; July 22, 14.07; Nov. 5, 15.91.
- G32 (#947, p. 58). Geological Survey, U. S. Dept. of Interior. NE corner NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 13 N., R. 8 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 4.40; Apr. 13, 4.74; July 27, 4.40; Nov. 6, 6.33.
- G34 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. SW corner sec. 32, T. 13 N., R. 7 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 13, 5.79; July 22, 8.30; Nov. 6, 13.67.
- G35 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 12 N., R. 5 W. Measuring point, top of casing, 0.90 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 1.69; Apr. 12, 1.73; July 24, 6.42; Nov. 4, 8.99.
- G36 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 12 N., R. 6 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 12, 7.15; Apr. 12, 7.44; July 24, 7.80; Nov. 4, 11.46.
- G37 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 12 N., R. 5 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 3.99; Apr. 12, 4.90; July 24, 5.64; Nov. 4, 9.61.
- G38 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 12 N., R. 6 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 4.92; Apr. 13, 5.20; July 23, 5.83; Nov. 4, 6.73.
- G39 (#947, p. 59). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 13 N., R. 8 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Well destroyed after Jan. 8 measurement; measurements discontinued. Water level, in feet below land-surface datum, 1943: Jan. 8, 20.68.

G40 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. SE. corner sec. 8, T. 13 N., R. 8 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 14.13; Apr. 13, 14.73; July 23, 12.67; Nov. 6, 16.34.

G41 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. 150 feet north of the SW. corner sec. 4, T. 13 N., R. 8 W. Measuring point, top of casing, 0.90 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 3.30; Apr. 13, 3.55; July 23, 4.84; Nov. 6, 6.57.

G42 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. SE. corner SW $\frac{1}{4}$ sec. 22, T. 13 N., R. 8 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 10.72; Apr. 13, 11.02; July 23, 10.77; Nov. 6, 13.05.

G43 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. SW. corner sec. 30, T. 14 N., R. 9 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 4.27; Apr. 14, 5.08; July 22, 5.46; Nov. 5, 7.04.

G44 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. NW. corner sec. 28, T. 14 N., R. 10 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 12.17; Apr. 14, 12.92; July 22, 12.47; Nov. 5, 15.24.

G45 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. NW. corner sec. 21, T. 13 N., R. 8 W. Measuring point, top of casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 6.33; Apr. 13, 6.84; July 23, 6.52; Nov. 6, 8.80.

G46 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. NE. corner sec. 29, T. 13 N., R. 8 W. Measuring point, top of casing, 0.40 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 12.86; Apr. 13, 13.19; July 23, 12.28; Nov. 5, 13.69.

G47 (#947, p. 60). Geological Survey, U. S. Dept. of Interior. NW. corner SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 14 N., R. 10 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 9, 9.15; Apr. 14, 9.03; July 22, 7.14; Nov. 5, 9.10.

G48 (#947, p. 61). Geological Survey, U. S. Dept. of Interior. SE. corner sec. 3, T. 12 N., R. 7 W. Measuring point, top of casing, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 14.00; Apr. 13, 14.08; July 23, 13.68; Nov. 4, 14.90.

G49 (#947, p. 61). Geological Survey, U. S. Dept. of Interior. NE. corner SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 12 N., R. 7 W. Measuring point, top of casing, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 17.84; Apr. 13, 18.23; July 23, 17.89; Nov. 4, 19.16.

G50 (#947, p. 61). Geological Survey, U. S. Dept. of Interior. SE. corner sec. 1, T. 12 N., R. 7 W. Measuring point, top of casing, 0.70 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 17.22; Apr. 13, 17.24; July 23, 17.16; Nov. 4, 18.72.

G51 (#947, p. 61). Geological Survey, U. S. Dept. of Interior. NE. corner sec. 7, T. 12 N., R. 5 W. Measuring point, top of casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 1.77; Apr. 12, 1.94; July 24, 5.16; Nov. 4, 8.19.

G52 (#947, p. 61). Geological Survey, U. S. Dept. of Interior. SW. corner NW $\frac{1}{4}$ sec. 4, T. 12 N., R. 5 W. Measuring point, top of casing, 0.60 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 8, 3.90; Apr. 12, 4.50; July 24, 6.44; Nov. 4, 9.59.

Cimarron County

- 66 (#845, p. 394; 886, p. 605; 909, p. 64; 939, p. 52; 947, p. 61). C. E. Womack. NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 1 N., R. 5 E. Original measuring point 6.00 feet above land-surface datum; present measuring point, hole in middle of cap over casing, 0.20 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 76.83; Oct. 28, 76.53.
- 129 (#886, p. 603; 909, p. 64; 939, p. 52; 947, p. 61). George Camilli. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 2 N., R. 2 E. Measuring point, edge of hole near center of top of steel drum set over well, 2.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 24, 166.60; Oct. 27, 166.21.
- 148 (#845, p. 394; 886, p. 605; 909, p. 65; 939, p. 52; 947, p. 61). T. A. Peters. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 2 N., R. 6 E. Measuring point, upper edge of west block of wooden pipe clamp, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 22.39; Oct. 28, 23.71.
- 223 (#845, p. 393; 886, p. 604; 909, p. 65; 939, p. 52; 947, p. 61). E. C. Jones. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 3 N., R. 1 E. Measurements discontinued.
- 224 (#845, p. 393; 886, p. 603; 909, p. 65; 939, p. 52; 947, p. 61). Walter R. Wood. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 3 N., R. 1 E. Measuring point, southwest edge of casing, 2.70 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 24, 135.18; Oct. 27, 134.74.
- 237 (#886, p. 603; 909, p. 65; 939, p. 52; 947, p. 62). Central Life Assurance Society. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 3 N., R. 1 E. Measuring point, north edge of casing, 4.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 24, 60.00; Oct. 27, 59.31.
- 240 (#845, p. 393; 886, p. 603; 909, p. 65; 939, p. 52; 947, p. 62). J. E. Benson. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 3 N., R. 2 E. Measuring point, upper edge of east block of wooden pipe clamp, on north side of pipe, 0.70 foot above land-surface datum. Well destroyed after Apr. 24 measurement; measurements discontinued. Water level, in feet below land-surface datum, 1943: Apr. 24, 157.11.
- 262 (#845, p. 393; #886, p. 603; 909, p. 65; 939, p. 52; 947, p. 62). W. H. and Z. B. Stone. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 3 N., R. 4 E. Original measuring point 0.50 foot above land-surface datum; present measuring point, inside edge of northwest side of iron pipe clamp, 0.36 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 27, 180.93.
- 263 (#845, p. 393; 886, p. 603; 909, p. 65; 939, p. 52; 947, p. 62). John Ohnick, Jr. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 3 N., R. 4 E. Measuring point, west edge of casing, 3.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 24, 124.37; Oct. 27, 123.70.
- 275 (#886, p. 602; 909, p. 65; 939, p. 52; 947, p. 62). O. A. Showalter. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 3 N., R. 5 E. Measuring point, south edge of casing, level with land-surface datum. Water levels incorrectly reported in Water-Supply Papers 909, 939, and 947. 0.28 foot should be subtracted from reported measurements to refer water levels to south edge of casing. Water levels, in feet below land-surface datum, 1943: Apr. 23, 145.95; Oct. 28, 146.08.
- 276 (#845, p. 393; 886, p. 603; 909, p. 65; 939, p. 52; 947, p. 62). Atchison, Topeka, and Santa Fe Railroad. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 3 N., R. 5 E. Measuring point, upper edge of iron pipe clamp, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 133.07; Oct. 28, 133.28.
- 313 (#845, p. 392; 886, p. 602; 909, p. 66; 939, p. 52; 947, p. 62). E. J. Behrent. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 3 N., R. 7 E. Measuring point, west edge of hole in tin which covers casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 44.07; Oct. 27, 43.89.

338 (#845, p. 392; 886, p. 601; 909, p. 66; 939, p. 52; 947, p. 62). Federal Land Bank. SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 3 N., R. 9 E. Measuring point, top south edge of coupling, 0.30 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 23, 183.37.

337 (#845, p. 394; 886, p. 604; 909, p. 66; 939, p. 52; 947, p. 62). F. M. Tudor. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 4 N., R. 5 W. Original measuring point 1.00 foot above land-surface datum; present measuring point, top inside edge of south block of wooden pipe clamp on west side of pipe, 0.90 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Oct. 28, 167.98.

415 (#845, p. 392; 886, p. 602; 909, p. 66; 939, p. 53; 947, p. 62). A. E. Buck. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 4 N., R. 7 E. Measuring point, west edge of casing, 1.40 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 74.45; Oct. 27, 74.43.

435 (#845, p. 392; 886, p. 601; 909, p. 66; 939, p. 53; 947, p. 62). B. J. Wiggins. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 4 N., R. 8 E. Measuring point, upper edge of iron pipe clamp, on east side of pipe, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 137.25; Oct. 27, 137.47.

436 (#845, p. 392; 886, p. 601; 909, p. 67; 939, p. 53; 947, p. 62). Mrs. S. C. Cantrell. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 4 N., R. 8 E. Original measuring point level with land-surface datum; present measuring point, edge of large screw-cap opening in top of oil drum set over well, 1.56 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 151.10; Oct. 27, 151.04.

516 (#886, p. 604; 909, p. 67; 939, p. 53; 947, p. 62). State of Oklahoma. SE $\frac{1}{4}$ sec. 34, T. 5 N., R. 5 E. Original measuring point 1.60 feet above land-surface datum. Present measuring point, edge of hole near center of top of oil drum cemented over well, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 5.85; Oct. 28, 6.82.

528 (#886, p. 605; 909, p. 67; 939, p. 53; 947, p. 62). Alliance Insurance Co. NW $\frac{1}{4}$ sec. 4, T. 5 N., R. 7 E. Measuring point, edge of air-line hole in base of turbine pump, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 16.96; Oct. 27, 17.45.

610 (#845, p. 393; 886, p. 604; 909, p. 67; 939, p. 53; 947, p. 62). A. S. Parker. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 6 N., R. 5 E. Measuring point, edge of hole in tin used to cover the well, level with land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 27.81; Oct. 28, 27.95.

Cleveland County

1 (#886, p. 614; 909, p. 67; 939, p. 53; *947, p. 63). Mrs. Elizabeth E. Taylor. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 10 N., R. 3 W. Measuring point, upper edge of steel plate nailed to west side of wooden curb, 2.20 feet above land-surface datum.

Water level, in feet below land-surface datum, 1943							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	5.08	Mar. 27	6.85	May 22	1.72	Aug. 14	7.72
9	5.45	31	6.67	29	3.26	21	7.86
16	5.36	Apr. 3	6.88	June 5	4.33	28	8.33
23	5.91	10	6.51	12	3.42	31	8.43
30	6.38	17	6.21	19	4.45	Sept. 4	8.65
Feb. 6	6.50	19	6.01	26	5.00	11	8.96
13	6.74	26	6.10	30	5.29	18	9.26
20	6.60	30	6.42	July 2	5.38	25	9.44
27	5.78	May 5	6.40	17	6.17	30	9.48
Mar. 6	6.93	6	6.43	24	6.54	Oct. 2	9.51
13	7.00	8	6.54	31	6.91	9	9.43
20	7.14	15	4.24	Aug. 7	7.30	16	9.65

1. Mrs. Elizabeth E. Taylor--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 22	9.70	Nov. 20	9.90	Dec. 4	9.90	Dec. 18	10.02
30	9.56	25	10.04	11	10.00	24	10.05
Nov. 6	9.58	27	9.88	15	10.16	31	9.98
13	9.86	30	9.88	17	10.07		

2 (*939, p. 54; 947, p. 63). Mrs. Mattie Freeman. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 9 N., R. 2 W. Measuring point, high point on northeast edge of casing, level with land-surface datum. Water level dropped below obstruction in casing after Jan. 23 measurement; measurements discontinued. Water levels, in feet below land-surface datum, 1943: Jan. 2, 165.49; Jan. 9, 166.29; Jan. 16, 166.31; Jan. 23, 166.80.

4 (*947, p. 63). City of Norman. 93 feet north of center line of Daws Street, 150 feet west of Santa Fe Avenue, in city park, Norman. Original measuring point, lowest edge of horizontal section of discharge pipe, 8.00 feet above land-surface datum (corrected for horizontal portion of pipe). Measuring point beginning Aug. 9, 1943, west edge of flange on casing, 1.82 feet above land-surface datum. Water level dropped below obstruction after measurement of Aug. 23; measurements discontinued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	229.80	May 15	269.43	July 1	291.50	July 29	306.70
9	231.60	22	271.66	3	292.68	30	308.20
16	233.60	25	274.40	5	292.25	31	309.20
23	234.47	31	277.82	6	294.90	Aug. 2	309.08
30	235.80	June 5	279.43	7	296.45	3	308.96
Feb. 6	236.76	12	280.57	10	297.47	4	309.25
13	237.81	15	283.93	12	296.69	5	307.38
20	236.80	16	283.86	14	297.11	10	334.56
27	238.84	17	284.19	15	297.25	11	334.93
Mar. 6	240.78	18	284.52	16	297.36	12	335.23
13	243.40	19	284.75	17	297.66	13	335.61
20	243.66	21	287.65	19	298.32	14	335.80
27	241.20	22	287.07	20	300.19	16	337.58
Apr. 3	242.46	23	286.29	21	301.27	17	337.38
10	244.56	24	288.62	22	302.16	19	337.98
17	247.70	25	288.59	23	302.54	20	338.17
30	257.83	26	289.95	24	303.10	21	337.72
May 1	258.86	28	289.78	26	305.00	23	336.83
8	265.96	29	290.20	27	305.60	Sept. 1	336.76
11	266.19	30	290.88	28	306.19		

5 (*947, p. 63). M. McAllister. NW corner SE $\frac{1}{4}$ sec. 30, T. 9 N., R. 1 W. Measuring point, south edge of coupling, 1.00 foot above land-surface datum. Well equipped with automatic water-stage recorder throughout year.

Lowest daily water level, in feet below land-surface datum, 1943
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	132.74	133.91	133.73	138.36	140.15	.....
2	133.28	133.87	133.87	138.45	140.10	.....
3	133.56	133.73	134.35	138.52	140.21	.....
4	133.56	133.79	134.85	138.60	140.25	.....
5	133.55	133.90	134.98	138.65	140.25	.....
6	133.03	134.02	135.20	138.61	140.31	141.46
7	132.85	134.05	.....	138.64	140.41	141.51
8	132.87	134.11	.....	138.67	140.53	141.59
9	132.80	134.78	.....	138.66	140.50	141.60
10	133.09	135.21	.....	138.72	140.40	141.61
11	133.13	135.25	.....	138.76	140.43	141.63
12	133.17	135.60	.....	138.86	140.54	141.73
13	132.83	135.64	136.45	139.01	140.59	141.82
14	132.77	135.92	136.43	139.13	140.59	141.89
15	132.75	136.06	136.84	139.10	140.52	141.91
16	132.87	136.06	137.20	139.12	140.60	141.97
17	133.22	136.02	137.23	139.24	140.67	142.08
18	133.23	136.08	137.29	139.28	140.74	142.12
19	.....	136.09	137.57	139.34	140.72	142.16

5. M. McAllister--Continued.

Lowest daily water level, in feet below land-surface datum, 1943
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
20	.....	136.09	137.59	139.55	140.82	142.19
21	.....	136.14	137.61	139.34	140.84	142.26
22	.....	133.32	137.55	139.46	140.82	142.31
23	133.20	133.35	137.51	139.60	140.76	142.35
24	133.36	133.37	137.49	139.58	140.81	142.44
25	133.50	133.50	137.46	139.56	140.82	142.53
26	133.59	133.87	.....	139.59	140.88	142.61
27	133.60	133.71	138.00	139.77	140.92	142.63
28	133.56	133.96	138.13	139.86	.....	142.74
29	133.61	.....	138.18	139.88	140.64	142.86
30	133.66	.....	138.18	140.12	140.62	142.91
31	133.88	.....	138.27	.....	140.53	.....

Lowest daily water level, in feet below land-surface datum, 1943
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	142.94	145.30	147.81	149.75	150.88	151.22
2	143.01	145.34	147.85	149.75	150.94	151.32
3	143.06	145.39	147.93	149.80	150.93	151.41
4	143.10	145.55	147.97	149.89	150.84	151.44
5	143.17	145.81	148.00	149.96	150.73	151.36
6	143.29	145.94	148.12	150.05	150.84	151.32
7	143.33	145.78	148.25	150.09	150.98	151.33
8	143.41	145.85	148.35	150.07	151.00	151.24
9	143.44	145.95	.....	150.06	151.08	151.27
10	143.53	146.05	.....	150.14	151.11	151.36
11	143.61	146.15	148.50	150.15	151.10	151.39
12	143.71	146.24	148.51	.....	151.09	151.25
13	143.81	146.33	148.58	.....	151.10	151.30
14	143.91	146.43	148.59	.....	151.07	151.40
15	143.96	146.49	148.74	150.38	151.11	151.42
16	144.02	146.57	148.90	150.44	151.17	151.44
17	144.17	146.72	148.97	150.44	151.13	151.48
18	144.25	146.79	148.99	150.37	151.10	151.37
19	144.28	146.79	.....	150.38	151.15	151.35
20	144.33	146.88	.....	150.42	151.14	151.36
21	144.41	146.95	149.12	150.57	151.19	151.24
22	144.51	147.01	149.22	150.57	151.29	.....
23	144.60	147.09	149.36	150.53	151.35	.....
24	144.69	147.19	149.39	.....	151.37	.....
25	.....	147.28	149.50	150.73	151.33	a 151.12
26	.....	147.37	149.58	150.76	151.30	.....
27	.....	147.46	149.61	150.75	151.33	.....
28	144.97	147.54	149.64	150.66	151.25	.....
29	145.08	147.58	149.68	150.64	151.33	.....
30	145.18	147.63	149.73	150.58	151.32	.....
31	145.27	147.70	.....	150.71	.....	.....

6. C. H. Taylor. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 23, T. 8 N., R. 2 W. Abandoned supply well for oil well. Drilled well, diameter 8 inches, reported depth, 518 feet. Measuring point, west edge of casing, 0.40 foot above land-surface datum. Bench mark, top of southernmost bolt in southwest corner of concrete derrick floor about 120 feet northeast of well, 3.76 feet below land-surface datum. Probable aquifer, Garber sandstone.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	102.87	Jan. 30	103.88	Feb. 27	105.27	Mar. 27	106.69
9	103.14	Feb. 6	104.36	Mar. 6	105.66	Apr. 3	107.37
16	103.29	13	104.75	13	106.00	10	107.88
23	103.49	20	104.81	20	106.45	17	108.50

a. Tape measurement.

6. C. H. Taylor--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 1	109.92	July 7	114.66	Aug. 11	117.35	Sept. 18	120.30
15	110.73	12	114.94	12	117.40	21	120.46
22	111.45	14	115.03	13	117.50	22	120.55
29	111.95	15	115.22	14	117.66	24	120.69
June 12	112.90	16	115.25	16	117.86	25	120.79
15	113.03	17	115.46	17	118.00	27	120.94
16	113.15	19	115.57	18	118.07	29	121.01
17	113.21	20	115.61	19	118.07	Oct. 2	121.13
18	113.31	21	115.69	20	118.12	4	121.29
19	113.33	22	115.78	21	118.22	5	121.36
21	113.45	23	115.85	23	118.36	6	121.42
22	113.53	24	115.93	27	118.68	8	121.44
23	113.59	26	116.03	28	118.85	9	121.52
24	113.69	27	116.14	30	118.90	11	121.55
25	113.76	28	116.17	Sept. 1	119.10	13	121.61
26	113.84	29	116.24	2	119.15	15	121.90
28	113.95	30	116.38	4	119.25	30	122.35
29	114.15	31	116.48	6	119.48	Nov. 6	122.69
30	114.17	Aug. 2	116.58	9	119.71	20	123.38
July 1	114.23	3	116.62	11	119.84	27	123.68
2	114.33	5	116.91	13	119.91	Dec. 11	124.01
3	114.40	7	117.06	14	119.94	18	124.28
5	114.58	9	117.20	16	120.23	24	124.46
6	114.63	10	117.27	17	120.28		

7. Owner unknown. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 7 N., R. 2 W. Abandoned supply well for oil well. Drilled well, diameter 10 inches, depth 354 feet. Measuring point, notch cut in east side of casing, 1.00 foot above land-surface datum. Bench mark, two nails driven horizontally into corner fence post about 200 feet southeast of well, 4.04 feet above land-surface datum. Well obstructed after Aug. 28 measurement; measurements discontinued. Probable aquifer, Garber sandstone.

Water level, in feet below land-surface datum, 1943

Jan. 9	36.35	Mar. 6	36.63	May 7	36.94	July 12	38.06
16	36.20	13	36.66	15	36.83	17	38.30
23	36.29	20	36.74	22	37.03	24	38.40
30	36.41	27	36.78	29	37.20	31	38.64
Feb. 6	37.00	Apr. 3	36.75	June 12	37.37	Aug. 7	38.77
13	36.58	10	36.63	19	37.53	14	38.96
20	36.46	17	36.80	26	37.72	21	39.13
27	36.58	May 1	37.07	July 3	37.90	28	39.35

8. Town of Noble. SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 8 N., R. 2 W. In southeast corner of town garage at water tower. Abandoned drilled well, diameter 8 inches, depth unknown. Measuring point, top of 3/4-inch pipe cemented over well, 1.40 feet above land-surface datum. Bench mark, top of easternmost bolt in bearing plate of northeast leg of Noble water tower, 0.30 foot above land-surface datum. Probable aquifer, Garber sandstone. Influenced by pumpage from Noble public-supply well, 57 feet north of observation well.

Water level, in feet below land-surface datum, 1943

June 9 a	178.61	June 29 a	189.24	July 17 a	188.98	July 31 a	189.93
15	168.22	30	165.83	19	173.63	Aug. 2 a	196.56
16 a	180.24	July 1	171.44	20 a	191.07	3 a	193.89
17 a	181.86	2	168.00	21 a	193.40	5 a	196.56
18	172.10	3	175.05	22	189.37	7 a	193.55
19 a	180.85	5 a	188.65	23 a	193.37	9	184.88
21 a	175.27	6 a	189.66	24 a	195.17	10 a	176.07
23 a	188.18	7	165.41	26	176.19	11	186.08
24	179.41	12	178.99	27 a	191.34	12	175.68
25	169.02	14 a	191.17	28	179.99	13	180.15
26	173.20	15 a	190.86	29	187.96	14 a	184.47
28 a	188.59	16	174.48	30	187.30	16	173.28

a Public-supply well, at Noble, pumping.

8. Town of Noble--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 17	181.02	Sept. 1	170.72	Sept. 21 a	194.29	Oct. 9 a	187.97
18	178.08	2	175.94	22 a	192.96	11	170.58
19	183.44	4 a	185.10	24	171.98	13	170.56
20	172.58	6	181.75	25	191.10	15	178.08
21	170.71	9 a	194.66	27	168.81	Nov. 6	173.82
23 a	189.04	11	175.46	29	174.20	13 a	195.16
24 a	193.97	13	168.93	Oct. 2 a	188.39	20	193.02
25	176.76	14 a	194.08	4	175.87	27 a	194.89
27 a	196.67	16	173.11	5	175.12	Dec. 11	187.58
28 a	190.90	17 a	193.92	6	172.75	18	187.58
29	185.01	18 a	193.40	8	174.98	24	191.98

9. E. G. Johnson. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 9 N., R. 3 W. Unused drilled well, diameter 8-5/8 inches to 5-3/16 inches, depth 521 feet. Measuring point, west edge of concrete well curb, 0.20 foot above land-surface datum. Probable aquifer, Garber sandstone.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 14	207.39	Sept. 29	204.57	Oct. 14	203.18	Nov. 27	203.75
18	206.59	Oct. 2	204.31	16	203.28	Dec. 4	203.98
21	206.29	9	203.55	30	203.28	11	204.16
22	206.24	11	203.39	Nov. 13	203.50	18	204.15
25	205.31	13	203.29	20	203.68	24	204.23

Harper County

1 (*909, p. 68; 939, p. 54; 947, p. 64). E. W. Johnson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 26 N., R. 25 W. Measuring point, east edge of casing at lap joint, 8.00 feet below land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 26, 6.24; Apr. 19, 5.72; July 21, 7.72; Oct. 24, 11.23.

McClain County

1. H. A. Perkinson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 7 N., R. 2 W. Unused drilled well, diameter 6 inches, depth 450 feet. Measuring point, south-west edge of 6-inch coupling, 2.30 feet above land-surface datum. Bench mark, two nails driven horizontally into east side of power pole about 75 feet west and 10 feet north of well, 3.22 feet above land-surface datum. Probable aquifer, Garber sandstone.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	84.03	Feb. 27	84.16	June 12	83.88	Sept. 25	84.59
16	84.01	Mar. 13	84.06	July 3	84.02	Nov. 3	84.73
23	83.88	Apr. 3	84.05	Aug. 24	84.26	27	84.77
30	84.03	17	83.95	Aug. 28	84.48	Dec. 24	84.68
Feb. 6	84.00	May 1	84.15				

Major County

RFM1 (*947, p. 64). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 20 N., R. 16 W. Measuring point, top of casing, 1.40 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 26, 5.92; Apr. 19, 5.92; July 21, 7.37; Oct. 22, 9.10.

a Public-supply well, at Noble, pumping.

Oklahoma County

1. Joslyn Production Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 13 N., R. 3 W. Unused drilled well, diameter 10 to 8 inches, depth 750 feet. Measuring point, south edge of casing, 0.80 foot above land-surface datum. Probable aquifer, Garber sandstone and Wellington formation.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	151.17	July 29	153.99	Sept. 30	163.95	Nov. 25	163.88
June 21	150.07	Aug. 27	161.83	Nov. 2	164.35	Dec. 31	161.29

2. Sunray Oil Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T. 12 N., R. 3 W. Avey lease, 28th Street and Lindsay Avenue, Oklahoma City. Unused drilled well, diameter 10 to 8 inches, depth 791 feet. Measuring point, west edge of casing, level with land-surface datum. Probable aquifer, Garber sandstone and Wellington formation.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Feb. 18	177.50	Sept. 30	203.39	Nov. 25	193.49
July 29	202.55	Nov. 2	194.66	Dec. 31	188.20

3. Skelly Oil Co. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 12 N., R. 3 W. Gast Heights lease. 18th Street and N. Lottie Avenue, Oklahoma City. Unused drilled well, diameter 8 inches, depth 827 feet. Measuring point, west edge of coupling, 0.60 foot above land-surface datum. Probable aquifer, Garber sandstone and Wellington formation.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 21	192.89	Aug. 27	238.52	Nov. 2	208.62	Dec. 31	202.20
July 29	226.93	Sept. 30	217.51	25	206.48		

Payne County

Stillwater Creek area

1 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 64). Unknown oil company. SW $\frac{1}{4}$ sec. 15, T. 19 N., R. 4 E. Measuring point, top of casing, 0.30 foot above land-surface datum. Land-surface datum is 14.45 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Jan. 27	3.00	Apr. 26	3.13	July 26	5.34	Oct. 26	5.30
Feb. 26	3.40	May 27	1.58	Aug. 27	5.25	Nov. 26	5.20
Mar. 27	2.21	June 28	3.37	Sept. 25	6.00	Dec. 27	4.87

2 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 64). J. F. Gilchrist. NW $\frac{1}{4}$ sec. 36, T. 20 N., R. 3 E. Measuring point, top of casing, 0.20 foot above land-surface datum. Land-surface datum is 16.83 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Jan. 27	5.00	Apr. 26	4.91	July 26	6.18	Oct. 26	6.80
Feb. 26	5.03	May 27	2.39	Aug. 27	6.20	Nov. 26	7.70
Mar. 27	5.14	June 28	4.50	Sept. 25	6.70	Dec. 27	6.30

3 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 64). V. D. Hesser. NW $\frac{1}{4}$ sec. 23, T. 20 N., R. 3 E. Measuring point, top of casing, 1.50 feet above land-surface datum. Land-surface datum is 16.13 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Jan. 27	3.06	Apr. 26	3.89	July 26	6.14	Oct. 26	9.15
Feb. 26	4.11	May 27	1.20	Aug. 27	7.42	Nov. 26	9.82
Mar. 27	3.95	June 28	2.35	Sept. 25	9.45	Dec. 27	9.69

4 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 64). W. O. Snyder. NW $\frac{1}{4}$ sec. 2, T. 19 N., R. 3 E. Measuring point, top of casing, 0.90 foot above land-surface datum. Land-surface datum is 30.52 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	15.26	Apr. 26	16.06	July 26	17.27	Oct. 26	19.55
Feb. 26	16.95	May 27	8.80	Aug. 27	18.22	Nov. 26	19.80
Mar. 27	16.13	June 28	15.25	Sept. 25	19.10	Dec. 27	19.90

7 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). Charles Focht. NW $\frac{1}{4}$ sec. 20, T. 19 N., R. 3 E. Measuring point, top of casing, 0.75 foot above land-surface datum. Land-surface datum is 30.61 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	14.35	Apr. 26	13.94	July 26	11.82	Oct. 26	14.40
Feb. 26	14.20	May 27	4.30	Aug. 27	12.20	Nov. 26	15.40
Mar. 27	14.18	June 28	10.20	Sept. 25	13.62	Dec. 27	15.92

9 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). Owner unknown. SW $\frac{1}{4}$ sec. 21, T. 20 N., R. 2 E. Measuring point, top of casing, 1.30 feet above land-surface datum. Land-surface datum is 31.46 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	18.96	Apr. 26	17.69	July 26	17.43	Oct. 26	19.30
Feb. 26	19.04	May 27	12.30	Aug. 27	18.20	Nov. 26	19.78
Mar. 27	19.12	June 28	13.69	Sept. 25	19.15	Dec. 27	19.90

13 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). Erma T. Pool. SW $\frac{1}{4}$ sec. 23, T. 19 N., R. 1 W. Measuring point, top of casing, 1.20 feet above land-surface datum. Land-surface datum is 34.48 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	24.04	Apr. 26	24.21	July 26	24.89	Oct. 26	23.40
Feb. 26	24.79	May 27	24.00	Aug. 27	23.66	Nov. 26	24.20
Mar. 27	24.34	June 28	24.00	Sept. 25	23.90	Dec. 27	24.05

15 (*777, p. 141; *817, p. 232; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). Lovell Bros. NE $\frac{1}{4}$ sec. 35, T. 19 N., R. 3 E. Measuring point, top of casing, 1.50 feet above land-surface datum. Land-surface datum is 47.72 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	35.35	Apr. 26	33.20	July 26	33.64	Oct. 26	34.15
Feb. 26	36.00	May 27	32.07	Aug. 27	33.95	Nov. 26	34.95
Mar. 27	33.39	June 28	32.85	Sept. 25	34.60	Dec. 27	34.55

16 (*817, p. 141; 845, p. 401; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). W. K. Hartman. SW $\frac{1}{4}$ sec. 12, T. 18 N., R. 3 E. Measuring point, top of casing, 2.30 feet above land-surface datum. Land-surface datum is 31.01 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	11.91	May 27	9.18	Aug. 27	13.40	Nov. 26	14.58
Mar. 27	12.41	June 28	10.09	Sept. 25	14.90	Dec. 27	14.42
Apr. 26	12.57	July 26	11.60	Oct. 26	14.70		

17 (*777, p. 141; *817, p. 232; 845, p. 402; 886, p. 613; 909, p. 70; 939, p. 55; 947, p. 65). R. J. Haskett. NE $\frac{1}{4}$ sec. 12, T. 19 N., R. 1 E. Measuring point, top of casing, 0.75 foot above land-surface datum. Land-surface datum is 19.21 feet above assumed datum used in previous reports.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	2.77	Apr. 26	2.91	July 26	5.73	Oct. 26	8.45
Feb. 26	2.83	May 27	.05	Aug. 27	6.34	Nov. 26	8.20
Mar. 27	1.55	June 28	2.70	Sept. 25	8.27	Dec. 27	6.50

Texas County

- 40 (#840, p. 331; 845, p. 395; 886, p. 607; 909, p. 70; 939, p. 56; 947, p. 66). August Lorenz. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 3 N., R. 17 E. Measuring point, top inside edge of north block of wooden pipe clamp, on east side of pipe, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 90.30; Oct. 25, 90.40.
- 85 (#840, p. 332; 845, p. 397; 886, p. 609; 909, p. 70; 939, p. 56; 947, p. 66). George Dean. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 4 N., R. 11 E. No measurements made in 1943.
- 120 (#840, p. 332; 845, p. 397; 886, p. 609; 909, p. 71; 939, p. 56; 947, p. 66). Joe Gribble. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T. 5 N., R. 14 E. No measurements made in 1943.
- 125 (#886, p. 611; 909, p. 71; 939, p. 56; 947, p. 66). J. Donald Hughes. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 1 N., R. 18 E. Measuring point, east edge of casing, 5.90 feet below land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 22, 7.09.
- 130 (#886, p. 611; 909, p. 71; 939, p. 56; 947, p. 66). Robert Johnson. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 1 N., R. 17 E. Measuring point, lowest edge of tee connecting suction and discharge pipes, 5.00 feet below land-surface datum. Bench mark, top of bolt set in west rim of concrete casing, 5.56 feet below land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 22, 6.64.
- 138 (#886, p. 611; 909, p. 71; 939, p. 56; 947, p. 66). Joe Sutton. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 1 N., R. 19 E. Original measuring point 7.20 feet below land-surface datum; present measuring point, north edge of casing, 7.52 feet below land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 22, 8.12.
- 167 (#845, p. 389; 886, p. 611; 909, p. 71; 939, p. 56; 947, p. 66). Owner unknown. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 2 N., R. 12 E. Measuring point, south edge of casing, level with land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 22, 189.65.
- 172 (#845, p. 398; 886, p. 610; 909, p. 71; 939, p. 56; 947, p. 66). Owner unknown. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 2 N., R. 13 E. Measurements discontinued.
- 176 (#840, p. 333; 845, p. 398; 886, p. 610; 909, p. 71; 939, p. 56; 947, p. 66). W. N. Ballinger. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 3 N., R. 15 E. Measuring point, southeast edge of casing, 5.22 feet below land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 5.69; Oct. 25, 6.86.
- 182 (#845, p. 399; 886, p. 611; 909, p. 71; 939, p. 56; 947, p. 66). Panhandle Agricultural and Mechanical College. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 2 N., R. 13 E. Measuring point, edge of 6-inch soil pipe, level with land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 138.56; Oct. 26, a/139.69.
- 187 (#840, p. 331; 845, p. 396; 886, p. 607; 909, p. 71; 939, p. 56; 947, p. 66). John Gill. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 3 N., R. 15 E. Measuring point, high point on edge of casing, 1.40 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 2.43; Oct. 25, 3.29.
- 188 (#886, p. 610; 909, p. 71; 939, p. 56; 947, p. 66). Kuhn Bros. NW $\frac{1}{4}$ sec. 1, T. 2 N., R. 14 E. Measuring point, north edge of casing, 1.80 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 122.68; Oct. 25, 122.90.
- 270 (#845, p. 397; 886, p. 609; 909, p. 71; 939, p. 57; 947, p. 66). Owner unknown. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 3 N., R. 11 E. Measuring point, north pipe clamp bolt, 0.60 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 23, 72.22.

a Town wells pumping.

281 (*947, p. 67). Lester Sparks. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 3 N., R. 11 E. Measuring point, north edge of casing, 3.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 88.81; Oct. 27, 88.91.

284 (*886, p. 608; 909, p. 71; 939, p. 57; 947, p. 67). Paul Spradlin. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 3 N., R. 12 E. Measuring point, edge of hole in tin cover bolted over casing, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 101.68; Oct. 26, 101.53.

294 (*845, p. 396; 886, p. 608; 909, p. 72; 939, p. 57; 947, p. 67). Stonebraker-Zea Ranch. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 3 N., R. 13 E. Measuring point, south edge of casing, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 41.92; Oct. 25, 42.05.

295 (*840, p. 331; 845, p. 396; 886, p. 607; 909, p. 72; 939, p. 57; 947, p. 67). E. O. Hobson. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 3 N., R. 15 E. Measuring point, south edge of casing, 3.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 7.76; Oct. 25, 9.13.

308 (*886, p. 608; 909, p. 72; 939, p. 57; 947, p. 67). Charles Reust. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 3 N., R. 14 E. Measuring point, southeast edge of casing, level with land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 23, 68.14.

323 (*845, p. 396; 886, p. 607; 909, p. 72; 939, p. 57; 947, p. 67). Mrs. Bostwick. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 3 N., R. 16 E. Measuring point, edge of hole in tin cover through which pipe passes, 0.50 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 21.33; Oct. 25, 22.20.

324 (*845, p. 396; *886, p. 607; 909, p. 72; 939, p. 57; *947, p. 67). Anna Calvert. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 3 N., R. 16 E. Measurements discontinued.

325 (*845, p. 396; 886, p. 607; 909, p. 72; 939, p. 57; 947, p. 67). Florence B. Ensten. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 3 N., R. 16 E. Measuring point, east edge of casing, 0.40 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 21, 104.63.

332 (*840, p. 332; 845, p. 396; 886, p. 607; 909, p. 72; 939, p. 57; 947, p. 67). Owner unknown. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 3 N., R. 15 E. Measuring point, west edge of casing, 3.50 feet above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 21, 63.88.

350 (*840, p. 331; 845, p. 396; 886, p. 607; 909, p. 72; 939, p. 57; 947, p. 67). C. A. Nash. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 3 N., R. 16 E. Measuring point, south edge of casing, 4.00 feet below land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 6.47; Oct. 25, 7.23.

354 (*840, p. 332; 845, p. 398; 886, p. 609; 909, p. 72; 939, p. 57; *947, p. 67). A. M. Fankhouser. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 6 N., R. 15 E. No measurements made in 1943.

386 (*840, p. 333; 845, p. 398; 886, p. 610; 909, p. 72; 939, p. 57; 947, p. 67). Frank Roten. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 2 N., R. 14 E. Measurements discontinued.

399 (*840, p. 333; 845, p. 398; 886, p. 610; 909, p. 73; 939, p. 57; 947, p. 67). Andrew Bender. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 2 N., R. 14 E. Measurements discontinued.

404 (*840, p. 333; 845, p. 399; 886, p. 611; 909, p. 73; 939, p. 57; 947, p. 68). Everett J. Ritter. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 1 N., R. 14 E. No measurements made in 1943.

436 (*845, p. 398; 886, p. 610; 909, p. 73; 939, p. 57; 947, p. 68). Leo Holtgraver. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 4 N., R. 14 E. No measurements made in 1943.

- 446 (*845, p. 398; 886, p. 610; 909, p. 73; 939, p. 58; 947, p. 68). Owner unknown. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 4 N., R. 14 E. No measurements made in 1943.
- 459 (*840, p. 33; 845, p. 399; 886, p. 611; 909, p. 73; 939, p. 58; 947, p. 68). Owner unknown. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 1 N., R. 14 E. Original measuring point 1.00 foot above land-surface datum; present measuring point, top of clamp, 1.07 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 22, 64.12; Oct. 26, 63.91.
- 487 (*845, p. 395; 886, p. 606; 909, p. 73; 939, p. 58; 947, p. 68). J. E. Friesen. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 4 N., R. 18 E. Original measuring point 1.50 feet above land-surface datum; present measuring point, iron plate nailed to wooden pipe clamp, 1.52 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 99.46; Oct. 25, 99.61.
- 497 (*845, p. 395; 886, p. 606; 909, p. 73; 939, p. 58; 947, p. 68). R. M. Van Hying. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 4 N., R. 19 E. Measuring point, edge of smaller of two holes in head of oil drum covering well, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 102.66; Oct. 25, 102.64.
- 530 (*840, p. 333; 845, p. 398; 886, p. 609; 909, p. 73; 939, p. 58; 947, p. 68). Owner unknown. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 5 N., R. 14 E. Measuring point, top east edge of tee, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 22, 177.27; Oct. 26, 177.12.
- 551 (*840, p. 332; 845, p. 396; 886, p. 608; 909, p. 73; 939, p. 58; 947, p. 68). Owner unknown. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 4 N., R. 13 E. Measuring point, south edge of casing, 1.00 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 23, 144.66; Oct. 26, 144.65.
- 552 (*840, p. 332; 845, p. 397; 886, p. 608; 909, p. 73; 939, p. 58; 947, p. 68). E. G. Manwarren. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 3 N., R. 12 E. No measurements made in 1943.
- 589 (*840, p. 331; 845, p. 395; 886, p. 606; 909, p. 73; 939, p. 58; 947, p. 68). George Hoferber. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 4 N., R. 17 E. Original measuring point 0.50 foot above land-surface datum; present measuring point, south edge of casing, 0.26 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 119.00; Oct. 25, 119.09.
- 621 (*840, p. 332; 845, p. 397; 886, p. 609; 909, p. 74; 939, p. 58; 947, p. 68). Marvin Reeves. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T. 3 N., R. 10 E. Measurements discontinued.
- 626 (*840, p. 332; 845, p. 397; 886, p. 609; 909, p. 74; 939, p. 58; 947, p. 68). John R. McCoy. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 4 N., R. 10 E. No measurements made in 1943.
- 761 (*840, p. 331; 845, p. 395; 886, p. 606; 909, p. 74; 939, p. 58; 947, p. 68). Federal Life Insurance Co., Chicago. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 3 N., R. 19 E. Original measuring point 0.70 foot above land-surface datum; present measuring point, south wood block of clamp, west of discharge pipe, 0.77 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 21, 106.21.
- 765 (*840, p. 331; 845, p. 395; 886, p. 606; 909, p. 74; 939, p. 59; 947, p. 68). O. Jolliffe. SW $\frac{1}{4}$ sec. 26, T. 3 N., R. 19 E. Original measuring point 3.25 feet above land-surface datum; present measuring point, north edge of casing, 0.70 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 21, 104.94; Oct. 25, 105.15.
- 770 (*840, p. 331; 845, p. 395; 886, p. 606; 909, p. 74; 939, p. 59; 947, p. 69). A. C. DeHart. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 3 N., R. 19 E. Measuring point, high point on south edge of casing, 0.10 foot above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 20, 123.51; Oct. 25, 123.55.

795 (*840, p. 331; 845, p. 395; 886, p. 606; 909, p. 74; 939, p. 59; 947, p. 69). Herman Zabie. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 4 N., R. 18 E. Original measuring point 3.70 feet above land-surface datum; present measuring point, north edge of casing, 0.95 foot above land-surface datum. Water level, in feet below land-surface datum, 1943: Apr. 21, 112.62.

842 (*840, p. 332; 845, p. 597; 886, p. 609; 909, p. 74; 939, p. 59; 947, p. 69). C. A. Rahm. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 6 N., R. 16 E. Measuring point, high point on west edge of casing, 1.70 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Apr. 22, 120.31; Oct. 26, 119.84.

Woodward County

1 (*909, p. 74; 939, p. 59; 947, p. 69). Oklahoma City Water Department. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 20 N., R. 17 W. Measuring point, top of casing, 2.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 26, 2.84; Apr. 26, 3.68; July 21, 4.42; Oct. 22, dry at 5.6.

2 (*909, p. 75; 939, p. 59; 947, p. 69). Oklahoma City Water Department. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 23 N., R. 21 W. Measuring point, top of casing, 3.20 feet above land-surface datum. Water levels, in feet below land-surface datum, 1943: Jan. 25, 3.25; Apr. 19, 3.42; July 21, 4.33; Oct. 22, 4.86.

3 (*909, p. 75; 939, p. 59; 947, p. 69). Western State Hospital, Supply. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 24 N., R. 22 W. Measuring point, edge of air-line hole in north side of base of pump, level with land-surface datum. Water levels, in feet below land-surface datum, 1943: July 21, 7.73; Oct. 22, 8.71.

TEXAS

By R. W. Sundstrom and J. M. Birdsall

INTRODUCTION

A State-wide investigation of the ground-water resources of Texas has been in progress since 1929 in cooperation with the Texas State Board of Water Engineers. A more or less continuous program of periodical measurements of water levels or artesian pressures in selected observation wells has been carried on since the start of this study and has been expanded from time to time as new projects started. During 1943, 4,085 measurements were made in 1,105 wells in 43 counties.

PRECIPITATION

For the purpose of summarizing climatological data, the United States Weather Bureau has divided Texas into three parts as follows: Western division, comprising all of the State west of the 101st meridian; middle division, comprising the territory between the 97th and 101st meridians; and the eastern division, comprising the territory east of the 97th meridian.

The average yearly precipitation increases toward the east, most of the western division being arid and most of the eastern division humid or semi-humid, while the middle division lies between the two. However, the yearly precipitation at a given station in any of the three divisions varies within wide limits. For example, in the western part of the State, at El Paso, the average yearly precipitation from 1850 through 1943 amounted to 9.16 inches, but ranged from 21.81 inches in 1856 to 2.22 inches in 1891. In the eastern part of the State at Bon Wier, the average yearly precipitation from 1914 through 1943 amounted to 56.06 inches, but ranged from 81.92 inches in 1940 to 38.21 inches in 1925. A similar wide range occurs in the middle division.

According to the Weather Bureau's summary for the year, the precipitation was below normal in all three divisions, the average deficiency amounting to 3.02 inches in the western division, 5.63 inches in the middle

division, and 4.36 inches in the eastern division. In 1942 the precipitation was above normal in all three divisions, the excess amounting to 2.88 inches in the western division, 3.23 inches in the middle division, and 2.84 inches in the eastern division.

SUMMARY OF CHANGES IN WATER LEVELS IN 1943

BALCONES FAULT ZONE

Most of the observation wells in Bexar, Comal, Guadalupe, Hays, Kinney, Travis, Uvalde, Val Verde, and Williamson Counties are in the Balcones fault zone. Most of them draw water from the Edwards limestone, but a few draw from the Austin chalk, and a few from shallow sands and gravels. The Edwards limestone supplies the large springs of the fault zone from the vicinity of Comstock, in Val Verde County, eastward through the cities of Del Rio, San Antonio, New Braunfels, and San Marcos to Austin. It also supplies irrigation wells in Bexar and Uvalde Counties and public and industrial wells in San Antonio and other smaller cities. Some of these springs are among the larger springs of the United States. The combined maximum recorded daily discharge of the seven largest--Goodenough, San Felipe, Las Moras, San Antonio, Comal, San Marcos, and Barton--is more than 1,200,000,000 gallons, and their average daily discharge is about 550,000,000 gallons. A flowing well in the limestone at San Antonio had a measured daily yield of 23,900,000 gallons on June 16, 1942, and an artesian head of 56 feet above the land surface. Most of the observation wells in the Edwards limestone are artesian, and their water levels rise quickly after heavy rains in the outcrop area.

During 1943 water-level measurements were made in the spring, summer, and fall in most of the observation wells in the Balcones fault zone.

Val Verde County.--In one observation well, drawing from the Edwards limestone, the water level in 1943 was 1.6 feet higher in the spring, 3.4 feet higher in the summer, and 1.9 feet lower in the fall than it was in corresponding seasons in 1942.

Kinney County.--In seven observation wells, drawing from the Edwards limestone, the water levels were higher each season in 1943 than they were in the corresponding season in 1942. They averaged about 0.5 foot higher in the spring, 1.2 feet higher in the summer, and 1.4 feet higher in the fall. In five observation wells in the Austin chalk for which measurements

are available, the water levels in 1943 averaged about 1.8 feet higher in the spring, 1.9 feet higher in the summer, and 1.4 feet higher in the fall than they were in 1942.

Uvalde County.--In nine observation wells drawing from the Edwards limestone for which comparable measurements are available, the water levels were lower each season in 1943 than they were in the corresponding season in 1942, averaging about 2.8 feet lower in the spring, about 3.9 feet lower in the summer, and about 9.3 feet lower in the fall. In the three wells drawing from the Austin chalk the water levels in 1943 averaged about a foot lower in the spring, about 1.6 feet higher in the summer, and about 0.3 foot lower in the fall than they did in corresponding seasons in 1942.

Medina County.--In seven observation wells drawing from the Edwards limestone for which comparable measurements are available, the water levels were higher in the spring of 1943, about the same in the summer, and lower in the fall, than they were in corresponding periods of 1942. The average was about 1 foot higher in the spring and about 13.8 feet lower in the fall.

Bexar County.--In the seven observation wells in the Edwards limestone for which comparable measurements are available, the water levels were lower in the spring, summer, and fall of 1943 than they were in corresponding seasons of 1942. The averages were about 1 foot lower in the spring, about 2.72 feet lower in the summer, and about 13.8 feet lower in the fall. Since 1932 an automatic water-stage recorder has been maintained on well 436 at Beverly Lodges Tourist Camp, near San Antonio. The fluctuations of water level in this well are shown in figure 10. The record shows that in the fall of 1942 the water level reached the highest stage recorded in 10 years, but declined considerably during 1943.

Comal County.--In the 10 observation wells, drawing from the Edwards limestone, for which comparable measurements are available, the water levels in 1943 averaged 1.9 feet higher in the spring, 1.6 feet higher in the summer, and 7.1 feet lower in the fall than they did in the corresponding seasons of 1942.

Travis County.--In the 14 observation wells, drawing from the Edwards limestone, for which comparable measurements are available, the water

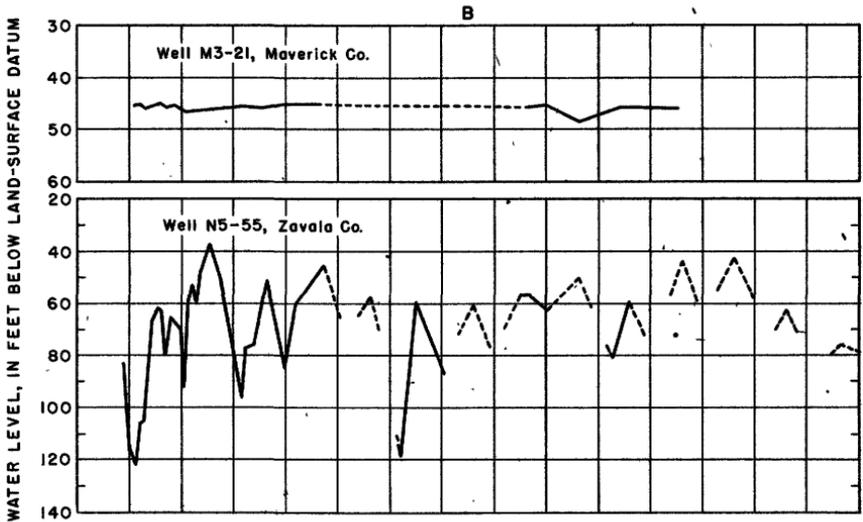
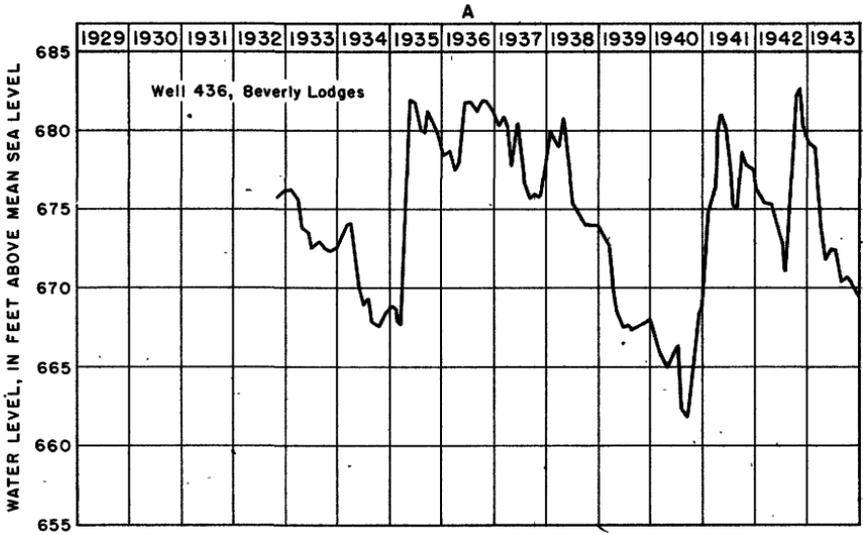


Figure 10.--A, Hydrograph showing fluctuations of water level in well 436 Beverly Lodges, San Antonio, Tex.; B, Hydrographs showing fluctuations of water level in wells in the Winter Garden district, Tex.

levels averaged about 4.4 feet higher in the summer, and about 18.2 feet lower in the fall of 1943 than they did during corresponding seasons of 1942.

Williamson County.--In the five observation wells, drawing from the Edwards limestone, for which comparable measurements are available, the water levels averaged lower throughout 1943 than they did in corresponding seasons of 1942, being about 3.7 feet lower in the spring, about 2.3 feet lower in the summer, and about 4.5 feet lower in the fall.

SOUTHWEST TEXAS

Dimmit and Zavala Counties; the Winter Garden district.--Pumping for irrigation on a large scale has been in progress in this area for about 25 years. The total area irrigated by wells in the two counties amounted to about 22,000 acres in the season of 1937-38, according to an inventory made in connection with the general ground-water investigation in the area. No inventory has been made since 1938. It is known, however, that the pumpage was considerably greater (perhaps as much as 25 percent) in the seasons of 1941-42 and 1942-43 than it was in the season 1937-38.

All of the irrigation wells draw from the Carrizo sand, which crops out in a belt about 1 to 7 miles wide, extending from the Rio Grande northward and northeastward across the northwestern part of Webb County, western part of Dimmit County, eastern part of Maverick County, western and northern parts of Zavala County, the southern part of Uvalde County, and thence eastward and northeastward. The sand is about 200 feet thick on the average and dips generally to the east or southeast. The belt in which it can be reached at a depth of 1,000 feet or less is about 15 miles wide. Down the dip in areas of heavy pumping, the water levels showed a material net decline between August measurements in 1941 and 1942 and again between August measurements in 1942 and 1943. In some of the wells they reached the lowest recorded stage in 1943. August measurements in six wells on the outcrop showed an average net decline of 0.65 foot between 1941 and 1942 and 0.86 foot between 1942 and 1943. These wells are affected to some extent by pumping from nearby irrigation wells.

The following table gives the number of wells observed and the average decline in water level from August 1941 to August 1942 and from August 1942 to August 1943, and the total decline during the 2-year period.

Decline in water levels, in feet, in Carrizo sand wells in Dimmit and Zavala Counties

Area	Number of wells observed		Average decline		Total decline
	1941-42	1942-43	1941-42	1942-43	1941-43
Outcrop area	6	5	0.65	0.86	1.51
La Pryor	2	2	3.03	7.54	10.57
Cometa	6	5	3.46	2.29	5.75
Crystal City	5	4	19.19	12.73	31.92
Winterhaven	3	3	15.34	15.88	31.22
Carrizo Springs	3	2	7.83	27.81	35.64
Asherton	3	4	11.14	23.96	35.10
Catarina	5	5	6.04	9.92	15.96
Brundage	2	1	16.19	20.95	37.14
Big Wells	2	2	11.08	10.91	21.99
Valley Wells	1	1	9.5	1.75	11.25
El Cid	1	1	2.78	6.11	8.89

SOUTHEAST TEXAS

Wharton County.--Wharton County produces more rice than any other county in Texas, both surface water and ground water being used to irrigate this crop. In an inventory made in the county in 1939 it was estimated that approximately 30,000 acre-feet was pumped from wells for this purpose. No inventory has been made since 1939. The precipitation in 1941 was unusually high and in 1942, although the total for the year was about average, the rice-growing season was unusually wet. As a result, ground-water recharge in 1941 was above the average and the amount of water used for irrigation considerably below the average in both years. This was reflected in the water-level measurements. Based on records in 22 observation wells, the water levels averaged 1.28 feet higher in the spring of 1942 than they did in the spring of 1941. In the same wells the water levels showed little average change between the spring of 1942 and the spring of 1943.

Jackson County.--Measurements made in 16 observation wells in Jackson County for which comparable records are available show an average rise of about 0.8 foot between the spring of 1941 and the spring of 1943. No measurements were made in the county during the spring of 1942.

Houston district.--Fluctuations of water levels were observed in three general areas designated as (1) the Houston-Pasadena district, (2) the Katy rice-growing district, and (3) the outcrop area of the water-bearing sands which supply the water used in both the Houston-Pasadena and Katy districts. The outcrop area lies west, northwest and north of Houston in Harris, Fort Bend, Waller, and Montgomery Counties.

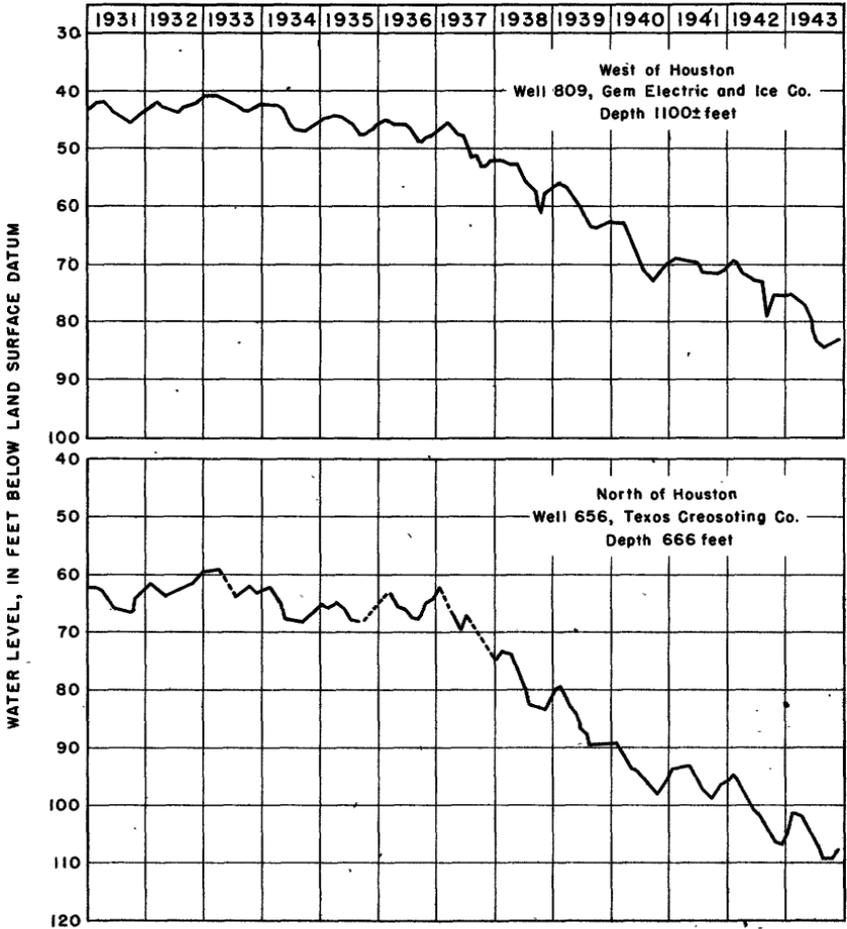


Figure 11.--Graphs showing fluctuations of water levels in wells in the Houston area, Tex.

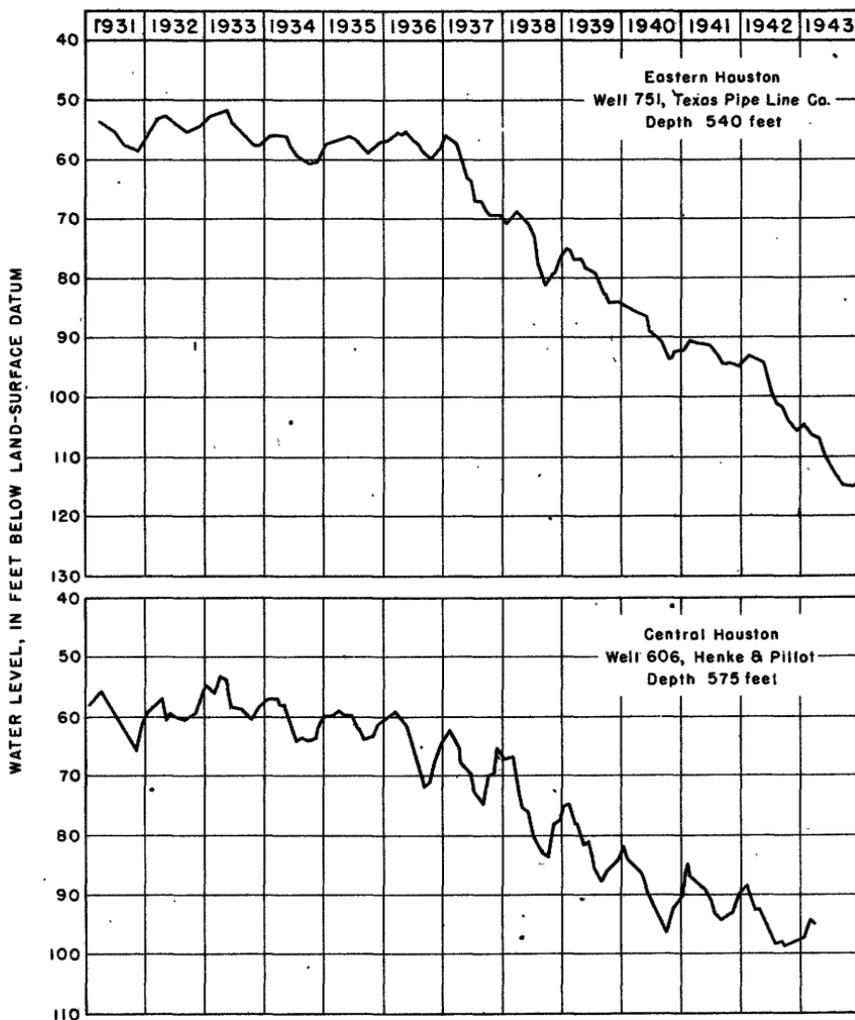


Figure 12.--Graphs showing fluctuations of water levels in wells in the Houston area, Tex.

In the Houston-Pasadena area, the total average rate of withdrawal from wells was about 85,000,000 gallons a day in 1942, representing an increase of about 8,000,000 gallons a day more than in 1941. The water levels showed the effect of this increase, an average net decline of 8.7 feet being recorded between the springs of 1942 and 1943 as compared with 3.2 feet between the springs of 1941 and 1942.

In the Katy area, the number of acres planted to rice (all of which is irrigated from wells) increased by only about 3,100 acres from 1941 to 1942, but the boundaries of the rice-growing district expanded materially. Most of the new acreage was in the northern part of the area in the vicinity of Hockley, where 10 new irrigation wells were put in operation. These wells, in general, are more widely spaced than those in the central and southern part of the area, and draw water, in part, from the sands that are stratigraphically deeper than those tapped by wells in the southern part. The water-level measurements are made in the spring just before the start of the rice irrigation season and the measurements, in general, reflect the combined effects of pumping and recharge from rainfall during the preceding year. In 1941 the rainfall was exceptionally heavy and only about 25,800 acre-feet of water was pumped for irrigation as compared with about 50,000 acre-feet in 1940. As a result, the water levels showed a general rise between the spring of 1941 and the spring of 1942, the average net rise in 44 observation wells amounting to 2.1 feet. In 1942 the pumpage reached 43,000 acre-feet, or about 7,000 acre-feet less than it was in 1940 and there was little net change in water levels between the spring of 1942 and the spring of 1943.

In the outcrop area of the water-bearing sands northwest and north of Houston, the water levels in the water-table wells were 5 to 10 feet higher in 1941 through 1943 than they were in 1939 and 1940, and, in a few wells for which comparative measurements are available, they were as high or higher than they were in 1931-34. This indicates that during the period of record more water has been contributed to storage in the outcrop area (the ultimate source of the ground-water supply of the Houston-Pasadena and Katy districts) than was withdrawn by movement down the dip toward the pumped area. A proportionately large part of the recharge occurred, however, during the abnormally wet year, November 1940 to October 1941.

Galveston-Alta Loma-Texas City district.--The water levels throughout Galveston County have declined persistently for a number of years due to the continued heavy pumping in the industrial areas centering around Texas City and vicinity, and pumping in the Alta Loma well field by the city of Galveston. The water levels throughout the county are now below sea level and in many areas around Texas City and Alta Loma they range from nearly 40 to more than 100 feet below sea level.

EAST TEXAS

Angelina and Nacogdoches Counties.--Heavy pumping for a paper mill, which began to operate in 1939 in the vicinity of Lufkin, caused a general decline of the water levels in wells in the Carrizo sand in these two counties which continued through the spring and summer of 1941, the amount of decline varying with the distance of the well from the center of pumping. Because the pumping at the paper mill has been at a nearly constant rate since 1939, the water levels in wells not too remote from the center of heavy pumping have reached essential equilibrium. In the wells in Nacogdoches County at a considerable distance from the paper mill and toward the outcrop of the Carrizo sand the water levels are still declining. In some of the wells the water levels rose slightly during the latter part of 1942 and early part of 1943, but by the end of 1943, in most cases, they were slightly lower than they were at the end of 1942.

Figure 13 shows the fluctuations in water levels in three observation wells in Angelina and Nacogdoches Counties. Two of these wells (wells 168 and 169) are in Angelina County near the heavy pumping at the paper mill. The other well (well 113A) is about 7 miles northeast of Nacogdoches, far beyond the center of heavy pumping near Lufkin.

HIGH PLAINS

The High Plains in Texas occupy an area of about 35,000 square miles, which extends from the northern boundary of the Panhandle southwest about 300 miles and from the Texas-New Mexico State line eastward an average distance of about 120 miles, to a boundary that is sharply defined in most places by a bold escarpment several hundred feet high.

The rapid development of irrigation with water from wells in the High Plains in Texas during the last 10 years is believed to be unprecedented anywhere in the United States. In 1943 about 400,000 acres were under irrigation. The total area within the exterior boundaries of the irrigated

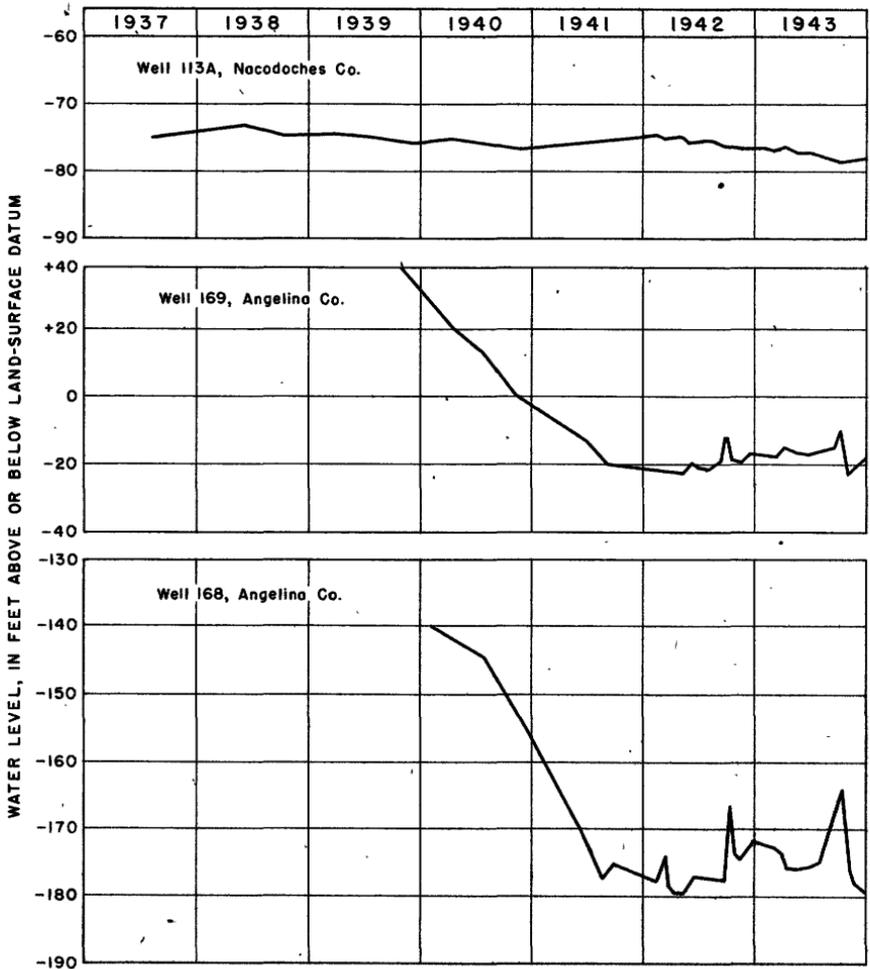


Figure 13.--Graphs showing fluctuations of water levels in wells in the Lufkin area, Texas.

districts in the High Plains amounts to about 3,000,000 acres. Hence, about 13 percent of the total area within these districts was irrigated and there was, on the average, one well to about 1,000 acres. In the more heavily pumped localities the wells were more closely spaced, the average being one well to 280 acres in one area of 50 square miles and one well to 300 acres in another area of 50 square miles.

Since 1937 water-level measurements have been made periodically in several hundred observation wells in the High Plains. Some of these wells are used for irrigation, some for domestic purposes and stock, and some are unused. Until 1940, measurements were made for the most part at intervals of 1 to 3 months. It has been found, however, that the most dependable information regarding net annual losses from, or additions to, storage in the ground-water reservoirs in the pumping districts and closely adjacent territory can be obtained by comparing water-level measurements made in successive years in the late winter or early spring before irrigation has been started. Therefore, the measurements at other times during the year have been dropped, but the late winter and spring measurements are made each year.

From 1937 to 1941, a period of subnormal precipitation, the increase in irrigation was accompanied by a persistent decline of the water table. During 1941 the precipitation was very heavy, the heaviest on record in parts of the region. Consequently, the water requirements for irrigation were small, recharge to the ground-water reservoirs was unusually large, and observation wells in each pumping district showed a pronounced rise in water levels. During 1942 precipitation was again above average, pumping was again light, and the water levels in the spring of 1943 in most of the wells either remained nearly stationary or rose slightly.

WEST TEXAS

El Paso County.--During 1943 cooperation was continued between the city of El Paso and the Federal Geological Survey. C. R. Jensen, of the El Paso Department of Water and Sewerage, collected the data under the direction of A. N. Sayre, of the Geological Survey. As in previous years, periodic measurements were made of the depth to water levels in observation wells in the vicinity of El Paso, records were compiled of the quantities of water pumped from wells during the year, and chemical analyses were made of water samples from selected wells.

During the year measurements of water level were made on a total of 48 wells. A round of measurements was made each month, except in February and December, a total of 352 measurements being made.

Net rise or decline of water levels, in feet, in wells in
El Paso area, 1943

Well	Last measurement in 1942		Last measurement in 1943		Net rise (+) or net decline (-)
	Date	Above mean sea level (feet)	Date	Above mean sea level (feet)	
8	Dec. 23	3,695.03	Nov. 23	3,693.40	-1.63
9	Dec. 23	3,697.24	Nov. 23	3,695.35	-1.89
10	Dec. 23	3,696.87	Oct. 18	3,694.39	-2.48
12	Sept. 15	a 3,619.20	June 15	a 3,618.97	.....
18	Sept. 15	a 3,664.99	June 15	a 3,654.48	.....
19	Dec. 23	3,689.10	Sept. 27	3,683.27	-.83
19a	Dec. 23	3,695.49	Sept. 27	3,694.17	-1.32
21	Dec. 23	3,682.13	Nov. 23	3,680.22	-1.91
28	Nov. 22	3,664.04	Sept. 28	b 3,649.62	.....
29a	Dec. 23	3,671.24	Nov. 23	3,670.29	-.95
30a	Dec. 23	3,672.47	Oct. 18	a 3,662.19	.....
32a	Dec. 23	3,672.92	Nov. 23	3,673.00	+0.08
36	Dec. 23	3,678.11	Mar. 23	3,672.31	-5.8
39	Dec. 23	3,670.31	Oct. 18	3,660.45	-10.36
40	Dec. 22	3,689.32	Sept. 27	3,637.23	-2.09
42	Dec. 23	3,672.20	Nov. 22	3,670.74	-1.46
44	Nov. 22	3,669.98	Aug. 28	3,663.22	-6.76
48a	Dec. 23	3,675.50	Nov. 22	3,674.34	-1.16
48b	Dec. 23	3,676.50	Nov. 22	3,676.32	-.18
49	Dec. 23	3,672.92	Nov. 23	3,672.11	-.81
50	Dec. 22	3,670.80	Nov. 23	3,672.48	+1.68
51	Dec. 22	3,672.08	Nov. 23	3,671.51	-.57
52	Dec. 22	3,671.87	Nov. 23	3,672.14	+.27
53	Dec. 23	3,669.21	Nov. 23	3,668.35	-.86
55	Dec. 23	3,672.68	Nov. 23	3,670.78	-1.90
59	Sept. 22	3,664.90	Sept. 30	3,660.11	-4.79
59a	Sept. 23	3,661.40	Sept. 29	3,663.50	+7.10
64	Dec. 22	3,678.43	Nov. 29	3,677.99	-.44
67b	Dec. 28	3,664.48	Nov. 30	3,665.08	+0.60
72	Dec. 22	a 3,657.83	Nov. 29	a 3,652.26	.....
75b	Dec. 22	3,665.15	Nov. 24	3,661.55	-3.60
75d	.....	.....	Nov. 29	3,664.69	.....
76	Dec. 22	3,676.49	Nov. 29	3,674.79	-1.70
77	Nov. 23	3,660.07	Nov. 29	3,661.08	+1.01
77b	Jan. 22	3,670.11	July 19	3,659.04	-11.07
78c	Dec. 22	3,676.13	Nov. 24	3,674.78	-.15
79	Nov. 25	a 3,652.21	Nov. 29	3,661.71	.....
82a	Dec. 22	a 3,601.84	Nov. 24	a 3,601.95	.....
112	Dec. 22	a 3,655.99	Nov. 24	3,660.55	.....
126a	Oct. 26	3,688.89	(c)	(c)	(c)
128b	Dec. 22	3,679.88	Nov. 24	a 3,630.81	.....
128c	Dec. 22	3,635.26	Nov. 24	3,632.94	-2.32
130	Dec. 22	3,685.37	Oct. 28	3,683.04	-2.33
136	Dec. 22	3,698.48	Nov. 24	3,698.14	-.34
139a	Dec. 24	3,709.37	Oct. 28	3,709.25	-.12
143a	Dec. 24	3,721.32	Oct. 28	3,723.46	+2.14
160	June 20	3,671.73	Jan. 22	3,670.58	-1.15
166	June 20	3,657.26	Jan. 22	3,656.32	-.94

a Pumping.

b Probably pumping.

c Measurements discontinued.

Records of monthly pumpage were obtained for the public water works of El Paso and Juarez, Mexico, and monthly records or estimates were obtained of pumpage from the wells at the 21 other establishments given in the following list.

Acme Laundry	Fort Bliss	Southern Pacific R. R.
Elite Laundry	Midwest Dairy	Standard Oil Co.
El Paso Electric Co. (Wells 1, 2, & 3)	McElroy	Texas Co.
El Paso Foundry	Mitchell Brewing Co.	Texas & New Orleans Railroad Co.
El Paso Ice Co.	Peyton Packing Co.	Texas & Pacific Railway Co.
El Paso Laundry	Phelps Dodge Co. (Wells 1 & 2)	Western Gas Co.
Fabens	Sambrano Water Works	Ysleta Jesuit College

The total pumpage in 1943 from all wells in the El Paso area for which records were obtained amounted to 9,332,882,000 gallons, or a daily average of 25,569,500 gallons.

The greatest pumpage in 1943 occurred in August, when the daily average was 32,813,000 gallons, and the smallest pumpage occurred in December, when the daily average was only 16,490,000 gallons. The average daily pumpage for the El Paso public supply and for all the other listed supplies is given in the following table for each month in 1943.

Average daily pumpage, in gallons, from wells in or near
El Paso, Texas, in 1943

	El Paso public supply	Other supplies (Including Juarez)	Total
January	8,230,000	10,589,000	18,819,000
February	10,722,000	13,385,000	24,107,000
March	11,354,000	12,215,000	23,569,000
April	14,445,000	12,638,000	27,083,000
May	16,109,000	14,530,000	30,639,000
June	18,079,000	13,858,000	31,937,000
July	16,117,000	13,473,000	29,590,000
August	18,243,000	14,570,000	32,813,000
September	14,083,000	13,634,000	27,717,000
October	10,488,000	12,550,000	23,038,000
November	8,694,000	12,030,000	10,724,000
December	6,135,000	10,355,000	16,490,000

The following table gives the average daily pumpage and the total annual pumpage for the years 1935 through 1943.

Year	Daily average, in gallons	Total for year, in gallons
1935	15,400,000	5,621,000,000
1936	15,674,000	5,721,183,000
1937	16,704,000	6,096,852,000
1938	16,234,000	5,925,517,000
1939	16,847,000	6,149,028,000
1940	18,355,000	6,705,278,000
1941	19,626,900	7,163,817,000
1942	22,014,800	8,035,414,000
1943	25,569,500	9,332,882,000

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Angelina County

1 (#909, p. 84; 939, p. 71; 947, p. 86). E. P. McKnight. In valley, 14.35 miles northwest of Lufkin. Measuring point, top of casing, 2 feet above land-surface. Water levels, in feet above land-surface datum, 1943: Feb. 9, 13.0; Apr. 5, 13.8; Apr. 28, 13.5; Aug. 19, 12.4.

3 (#840, p. 378; 845, p. 446; 886, p. 655; 909, p. 84). Earl Ash. 15.25 miles northwest of Lufkin, behind long frame building, on southside of U. S. Highway 69. Measuring point, top of wood curb, 2.0 feet above land surface. Measurements discontinued.

5 (#840, p. 378; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). Town of Pollock. 11.25 miles northwest of Lufkin, in lot back of filling station, 400 feet south and 150 feet east of crossroads at Pollock. Measuring point, top of rock curb, 2.8 feet above land surface. Measurements discontinued.

13 (#840, p. 378; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). Miss N. Carson. 10 miles northwest of Lufkin, in lot back of one-story house on north side of U. S. Highway 69. Measuring point, top of wood curb, 2.5 feet above concrete curb at land surface. Measurements discontinued.

43 (#840, p. 378; 845, p. 446; 886, p. 655; 909, p. 84; 939, p. 71; 947, p. 86). W. A. Collmorgan. 3.5 miles north of Lufkin, 0.3 mile west of State Highway 35, near lone pine tree on south side of mill creek. Measuring point, top of discharge pipe, 2.1 feet above land-surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 5	57.10	Apr. 2	58.32	June 30	59.31	Oct. 15	54.45
19	57.39	19	58.20	Oct. 2	59.23	26	55.16
Mar. 26	57.97	June 15	57.26	9	60.45		

45 (#840, p. 378; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). W. A. Collmorgan. 3.5 miles north of Lufkin, 70 feet east of State Highway 35, in barnyard. Measuring point, top of brick curb, at land surface. Measurements discontinued.

47 (#840, p. 379; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). City of Lufkin. 2.5 miles north of Lufkin, at north end of galvanized-iron building at city pumping plant at City Lake. Measuring point is at land surface. Measurements discontinued.

50 (#886, p. 655; 947, p. 86). City of Lufkin. 1.5 miles north of Lufkin. Measuring point, lower edge of square pump base, 2.5 feet above land surface. Measurements discontinued.

53 (#840, p. 379; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). J. W. Shearrand. 1.75 miles northwest of Lufkin on north side of U. S. Highway 69, at turn in highway, in low building east of store and small filling station. Measuring point, top of tile, at land surface. Measurements discontinued.

56 (#840, p. 379; 845, p. 446; 886, p. 655; 909, p. 84; 947, p. 86). Irwin Hopper. 6 miles northwest of Lufkin, 200 feet east of U. S. Highway 69, 0.4 mile northwest of Clauson Baptist Church, and 30 feet north of house. Measuring point, top of wood curb, 3 feet above land surface. Measurements discontinued.

73 (#909, p. 84; 939, p. 71; 947, p. 86). J. L. Bonner. 11 miles south-southwest of Lufkin, about 300 yards south of old State Highway 94, just west of swampy lake. Measuring point, top of casing, 2 feet above land surface. Measurements discontinued.

168 (#909, p. 85; 939, p. 71; 947, p. 86). City of Lufkin. About 300 feet west of Redland School. Measuring point, top of 1-inch pipe nipple in pump base, 1 foot above land surface.

Water level, in feet below land surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	171.67	Mar. 29	172.47	Apr. 25	172.77	Oct. 16	160.93
21	169.85	Apr. 11	174.63	Oct. 12	162.61	Dec. 4	177.90

169 (*909, p. 85; 939, p. 71; 947, p. 86). Gulf Pipe Line Co. 2.75 miles northwest of Redland. Measuring point, top of coupling on casing, 3 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	13.98	Apr. 2	15.61	Aug. 20	13.04	Oct. 15	6.03
12	14.83	8	15.78	30	12.99	23	7.70
19	13.87	16	13.83	Oct. 2	11.61	Nov. 29	19.27
Mar. 8	13.98	22	12.17	11	11.38	Dec. 28	16.91
23	14.83	30	12.21				

170 (*947, p. 87). Southland Paper Mills, Inc. well W-1-HN. 13 miles northeast of Lufkin. Measuring point, top of casing, 2.0 feet above land surface, and 174 feet above mean sea level.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	82.2	Apr. 2	81.4	Apr. 30	81.0	Aug. 6	78.2
12	81.1	8	81.1	May 27	80.5	13	78.2
19	81.4	9	81.7	June 16	80.5	Oct. 22	77.1
26	81.1	16	81.1	July 27	78.2	27	77.1
Mar. 26	81.7	22	81.6				

171 (*947, p. 87). Southland Paper Mills, Inc. well C-1-HN. 13 miles northeast of Lufkin. Measuring point, top of casing, 2.5 feet above land surface, and 174 feet above mean sea level.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	66.6	Apr. 8	64.3	Apr. 27	63.7	Aug. 6	61.4
19	64.3	9	66.9	30	64.9	30	61.4
26	64.9	16	66.0	June 16	63.3	Oct. 27	61.4
Apr. 2	64.3	22	65.4	July 27	61.4		

172 (*947, p. 87). Southland Paper Mills, Inc. well S-1-HN. 13 miles northeast of Lufkin. Measuring point, top of casing, 2.0 feet above land surface, and 174 feet above mean sea level.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	30.9	Apr. 2	31.0	Apr. 22	31.7	July 27	31.4
12	31.1	8	31.1	30	31.7	Aug. 6	31.4
19	31.1	9	31.8	May 27	29.6	30	32.0
26	31.1	16	32.0	June 16	32.0	Oct. 27	32.0
Mar. 26	30.4						

173 (*947, p. 87). Southland Paper Mills, Inc. west well of group A. 8 miles northeast of Lufkin. Measuring point, top of casing, 3.7 feet above land surface.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	10.23	May 27	12.32	July 6	13.21	July 10	13.48
20	9.85	June 28	12.97	7	13.30	11	13.54
Mar. 27	10.49	July 2	13.07	8	13.35	13	13.45
Apr. 14	10.34	5	13.15	9	13.43	15	13.41
26	10.40						

174 (*947, p. 87). Southland Paper Mills, Inc. east well of group A. 8 miles northeast of Lufkin. Measuring point, top of casing, 2.8 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	0.28	May 27	3.37	July 6	4.25	July 10	4.52
20	.91	June 28	3.99	7	4.35	11	4.59
Mar. 26	.54	July 2	4.12	8	4.41	13	4.48
Apr. 14	1.40	5	4.19	9	4.47	15	4.45
26	1.45						

Bailey County

- 5a (*840, p. 379; 845, p. 446; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Gus Schrader. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, blk Z, 10 miles northwest of Muleshoe. Measuring point, top of 4- by 4-inch wood pipe clamp, 1.0 foot above land surface. No measurements made in 1943.
- 9 (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Jim Ellis. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, blk Z, 10.5 miles west of Muleshoe. Measuring point, top of pump base, southeast side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 36.84.
- 11 (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Tom Smith. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, blk. Z, 10.5 miles west of Muleshoe. Measuring point, top of 2- by 12-inch plank across pit, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 21.00.
- 21a (*886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Mrs. J. W. Gregory, Sr. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, blk. X, 8 miles west of Muleshoe. Measuring point, top of casing, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 18.65.
- 25 (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). C. A. Wagner. NW. corner SE $\frac{1}{4}$ sec. 6, blk. Z, 8 miles west of Muleshoe. Measuring point, bottom edge of pump base, north side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 15.63.
- 31 (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 947, p. 88). J.H. Farley. NW. corner NW $\frac{1}{4}$ sec. 10, blk. X, 6.5 miles west of Muleshoe. Measuring point, top of rock curb, east side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 9.90.
- 33 (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Mrs. J. W. Gregory. NW. corner SW $\frac{1}{4}$ sec. 12, blk. X, 7 miles northwest of Muleshoe. Measuring point, bottom edge of port hole in pump base, 1.5 feet above land surface. No measurements made in 1943.
- 34a (*840, p. 379; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). Owner unknown. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, blk X, 6 miles northwest of Muleshoe. Measuring point, top of 1- by 6-inch box casing, middle of east side, 0.8 foot above land-surface datum. Measurements discontinued.
- 35a (*886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). F. O. Boone. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, blk. X, 4.5 miles northwest of Muleshoe. Measuring point, top of tin barrel curb, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 19.96.
- 36 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 88). J. M. Murrain. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 23, blk. X, 4.75 miles northwest of Muleshoe. Measuring point, top of pit, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 13.1.
- 38 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 947, p. 88). Charles Berkley. NW. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, blk. X, 5 miles west of Muleshoe. Measuring point, bottom edge of 2- by 6-inch plank, across west side of pit, at land surface. Measurements discontinued.
- 45 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 89). H. M. Schofner. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, blk. Y, 2.25 miles northwest of Muleshoe. Measuring point, lower edge of ell on discharge pipe, 0.8 foot below land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 13.10.
- 49 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 89). Jess Mitchell. NW. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, blk. X, 3.75 miles northwest of Muleshoe. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 17.74.
- 53 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 89). W. B. Gwyn, Sr. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, blk. Y, 3.25 miles northwest of Muleshoe. Measuring point, top of 2- by 12-inch plank, middle of north side of pit, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 16.46.

- 62 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 89). Levi Churchill. NW. corner SE $\frac{1}{4}$ sec. 42, blk. Y, 2.75 miles north of Muleshoe. Measuring point, top of casing, south side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 15.42.
- 63 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 72; 947, p. 89). Sam Gorrell. NW. corner SW $\frac{1}{4}$ sec. 42, blk. Y, 2.75 miles north of Muleshoe. Measuring point, top of pump base, through airline hole, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 17.03.
- 66 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 73; 947, p. 89). J. L. Wallace. NW. corner NE $\frac{1}{4}$ sec. 41, blk. Y, 2.25 miles north of Muleshoe. Measuring point, top of casing, at land-surface datum. Water level, in feet below land-surface datum, 1943: Feb. 11, 13.46.
- 67 (*840, p. 380; 845, p. 447; 886, p. 656; 909, p. 86; 939, p. 73; 947, p. 89). I. W. Hardin. NW. corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 41, blk. Y, 2.25 miles north of Muleshoe. Measuring point, top of pump base, north side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 12.03.
- 69 (*840, p. 381; 845, p. 447; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). E. R. Hart. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 52, blk. Y, 1.75 miles north of Muleshoe. Measuring point, top of 2- by 6-inch frame around well, center of west side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 8.79.
- 79 (*840, p. 381; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). D. E. Cox. SW. corner NW $\frac{1}{4}$ sec. 53, blk. Y, 1 mile north of Muleshoe. Measuring point, top of lower flange on ell union of suction pipe, 10.1 feet below land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 17.92.
- 92 (*840, p. 381; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). L. H. McConnell. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 51, blk. Y, 3.25 miles north of Muleshoe. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 15.37.
- 95 (*840, p. 381; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). E. R. Hart. NW. corner NW $\frac{1}{4}$ sec. 71, blk. Y, 4 miles northeast of Muleshoe. Measuring point, north side of hole in top of wood cover, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 17.23.
- 108 (*840, p. 381; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). T. L. Mounts. NW. corner SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, blk. W, 7 miles northeast of Muleshoe. Measuring point, bottom edge of port hole in base of pump, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 27.40.
- 116 (*840, p. 381; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). E. R. Hart. NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, blk. W, 6 miles northeast of Muleshoe. Measuring point, top of platform holding pump, 3 feet below land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 18.54.
- 117 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). H. L. Dempster. NW. corner NW $\frac{1}{4}$ sec. 32, blk. W, 6 miles northeast of Muleshoe. Measuring point, top of 2- by 6-inch wood block, under discharge pipe, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 23.80.
- 120 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 89). I. F. Wilman. NW. corner SW $\frac{1}{4}$ sec. 83, blk. Y, 5 miles northeast of Muleshoe. Measuring point, bottom of board across hole, at land surface. No measurements made in 1943.
- 129 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 947, p. 89). C. H. Whitehead. NW. corner NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 48, blk. W, 5 miles northeast of Muleshoe. Measuring point, top edge of flange on suction pipe, 17 feet below land surface. Measurements discontinued.

- 130 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 90). E. R. Hart. NW corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, blk. W, 6 miles northeast of Muleshoe. Measuring point, top of bottom flange on suction pipe, 18.5 feet below land surface. Water level, in feet above land-surface datum, 1943: Feb. 11, 12.28.
- 131 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 90). R. D. Precure. NW corner SW $\frac{1}{4}$ sec. 34, blk. W, 6 miles northeast of Muleshoe. Measuring point, top of 2- by 6-inch plate on concrete curb, middle of east side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 12.62.
- 132 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 73; 947, p. 90). J. A. Ryan. NW corner SE $\frac{1}{4}$ sec. 34, blk. W, 6.5 miles northeast of Muleshoe. Measuring point, top of frame, middle of east side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 13.04.
- 135 (*840, p. 382; 845, p. 448; 886, p. 657; 939, p. 73; 947, p. 90). C. H. Lehew. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 47, blk. W, 6 miles east of Muleshoe. Measuring point, top of 2- by 6-inch plank across north side of pit in floor of pump house, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 9.79.
- 136 (*840, p. 382; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 74; 947, p. 90). C. A. Barnett. NW corner SE $\frac{1}{4}$ sec. 48, blk. W, 5.5 miles east of Muleshoe. Measuring point, bottom edge of pump base, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 3.71.
- 137 (*840, p. 383; 845, p. 448; 886, p. 657; 909, p. 87; 939, p. 74; 947, p. 90). C. H. Whitehead. NW corner SW $\frac{1}{4}$ sec. 48, blk. W, 4.75 miles east of Muleshoe. Measuring point, top of horizontal flange on suction pipe, 11 feet below land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 9.04.
- 141 (*840, p. 383; 845, p. 448; 886, p. 657; 909, p. 74; 947, p. 90). L. L. Lowery. SW corner NW $\frac{1}{4}$ sec. 49, blk. W, 4.5 miles east of Muleshoe. Measuring point, top edge of flange on suction pipe, 16.5 feet below land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 19.24.
- 201a (*909, p. 88; 939, p. 74; 947, p. 90). Halsell Land & Cattle Co. NW $\frac{1}{4}$ lab. 19, lge. 189, Ector County School land, 5 miles south and 1.5 miles west of Muleshoe. Measuring point, top of steel casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 35.38.
- 205 (*840, p. 383; 845, p. 448; 886, p. 657; 909, p. 89; 939, p. 74; 947, p. 90). Halsell Land & Cattle Co. NW $\frac{1}{4}$ lab. 19, lge. 189, Ector County School land, 5 miles south and 1.5 miles west of Muleshoe. Measuring point, top of 4- by 4-inch pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 48.50.
- 207 (*840, p. 383; 845, p. 449; 886, p. 657; 909, p. 89; 939, p. 74; 947, p. 90). Mr. Whittington. SE $\frac{1}{4}$ lab. 22, lge. 188, 8 miles south of Muleshoe. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 90.14.
- 322 (*840, p. 384; 845, p. 449; 886, p. 658; 909, p. 89; 939, p. 74; 947, p. 90). G. H. Harvey. SW $\frac{1}{4}$ lab. 16, lge. 193, 5 miles east of Baileyboro. Measuring point, top of square edge on north side of pipe clamp, 0.8 foot above land surface. No measurements made in 1943.
- 324a (*840, p. 384; 845, p. 449; 886, p. 658; 909, p. 89; 939, p. 74; 947, p. 90). Foard County School land. NW $\frac{1}{4}$ lab. 15, lge. 192, 9 miles south of Muleshoe. Measuring point, top of casing, northeast side, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 96.51.
- 355 (*840, p. 384; 845, p. 449; 886, p. 658; 909, p. 89; 947, p. 90). H. L. Wilson. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sur. 4, lge. 134, 5 miles southeast of Baileyboro. Measuring point, top of 4- by 4-inch wood pipe clamp, west side, 0.4 foot above land surface. No measurements made in 1943.

435 (*840, p. 384; 845, p. 449; 886, p. 658; 909, p. 90; 939, p. 74; 947, p. 90). I. C. Enochs. SE $\frac{1}{4}$ lab. 69, lge. 182, 9 miles southeast of Baileyboro. Measuring point, top of concrete foundation, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 18.22.

Bexar County

15 (*777, p. 179; 817, p. 322; 840, p. 385; 845, p. 450; 886, p. 658; 909, p. 90; 939, p. 75; 947, p. 91). Robert Mechler. 6 miles east of Castroville. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 115.06; Aug. 26, 120.70; Dec. 14, 121.44.

26 (*777, p. 181; 817, p. 322; 840, p. 385; 845, p. 450; 886, p. 659; 909, p. 90; 939, p. 75; 947, p. 91). Fuller's earth plant. 13.5 miles west of San Antonio. Measuring point, top of concrete pump base, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 99.87; Aug. 26, 105.46; Dec. 14, 105.61.

28 (*777, p. 181; 817, p. 322; 840, p. 385; 845, p. 450; 886, p. 659; 909, p. 91; 939, p. 75; 947, p. 91). Robert Boehig. 8 miles west of San Antonio. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 29, 61.97; Aug. 26, 66.63; Dec. 14, 66.03.

XB-1 (*840, p. 386; 845, p. 450; 886, p. 659; 909, p. 91; 939, p. 75; 947, p. 91). Oscar Schievelbein. 11 miles west of San Antonio. Measuring point, top of iron water-pipe clamp set on concrete floor, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 116.15; Dec. 14, 121.52.

XB-2 (*840, p. 386; 845, p. 450; 886, p. 659; 909, p. 91; 939, p. 75; 947, p. 91). Oscar Bippert. 14.5 miles west of San Antonio. Measuring point, top of iron water-pipe clamp on top of casing, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 29, 67.97; Aug. 26, 72.80; Dec. 14, 73.24.

XB-3 (*845, p. 450; 886, p. 659; 909, p. 91; 939, p. 75; 947, p. 91). Beitel Church. 8 miles northeast of San Antonio. Measuring point, top of 4- by 4-inch wood water-pipe clamp, 0.4 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 50.70; Sept. 9, 55.13; Dec. 21, 55.69.

436 (*909, p. 91; 939, p. 75; 947, p. 91). Beverly Lodges. At Beverly Lodges tourist court in northeast part of San Antonio, on old Austin-San Antonio road, 75 feet south of street, 150 feet west of west row of cabins. Measuring point, top of casing, 1.5 feet above land surface, and 724.06 feet above mean sea level.

Highest daily water level, in feet below land-surface datum, 1943
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.98	44.28	45.67	46.48	50.16	49.97	51.08	50.42	53.19	51.54	52.83	52.40
2	42.98	44.32	45.72	46.58	50.13	49.99	51.22	50.29	53.01	51.47	53.01	.....
3	43.08	44.30	45.92	46.77	50.02	50.07	51.08	50.80	52.58	51.48	52.69	.....
4	43.11	44.38	45.77	46.81	50.42	50.11	51.15	51.14	52.02	51.37	52.60	.....
5	43.24	44.45	45.60	46.74	50.57	50.09	50.98	51.44	51.85	51.43	52.50	.....
6	43.15	44.75	45.78	47.04	50.75	49.82	51.28	51.63	51.87	51.57	52.40	.....
7	43.10	44.82	45.90	47.09	50.68	49.26	51.56	51.76	51.79	51.66	52.51	.....
8	43.16	44.70	45.84	47.03	50.86	49.00	51.87	51.67	51.73	51.75	52.40	.....
9	43.18	44.87	45.97	46.79	50.81	48.91	51.68	51.58	51.77	51.92	52.47	.....
10	43.15	45.03	45.98	46.68	50.58	48.84	51.48	52.02	51.74	51.93	52.58	.....
11	43.13	45.23	46.05	46.72	50.36	48.81	51.18	52.05	51.73	51.66	52.67	.....
12	43.19	45.25	45.94	46.67	50.50	48.89	50.62	52.12	51.72	51.66	52.67	.....
13	43.17	45.42	46.21	46.99	50.68	48.90	50.45	52.23	51.56	51.65	52.79	.....
14	43.20	45.28	46.50	47.20	50.88	48.57	49.53	52.43	51.78	51.79	52.67	.....
15	43.23	45.19	46.09	47.22	50.91	48.74	48.62	52.43	52.00	51.88	52.45	.....
16	43.17	45.45	46.32	47.16	50.79	48.83	48.30	52.22	51.91	52.05	52.46	.....
17	43.27	45.39	46.43	47.84	50.60	49.08	48.23	52.54	51.83	51.96	52.42	.....
18	43.25	45.50	46.53	47.86	50.93	49.14	48.29	52.98	51.68	51.85	52.42	.....
19	42.73	45.57	46.58	47.75	51.14	49.03	48.31	53.00	51.55	52.17	52.43	.....
20	44.12	45.70	46.77	48.01	51.32	49.03	48.68	53.15	51.40	52.35	52.42	.....

436. Beverly Lodges--Continued.

Highest daily water level, in feet below land-surface datum, 1943
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	44.00	45.62	46.79	48.38	51.22	49.02	48.95	53.28	51.55	52.50	52.37	.....
22	43.95	45.52	46.80	48.47	51.24	49.36	49.25	53.28	51.76	52.69	52.30	53.07
23	44.12	45.52	46.92	48.78	51.56	49.56	49.52	53.02	51.87	52.75	52.45	53.20
24	44.10	45.60	46.79	48.98	50.21	49.83	49.73	53.54	51.93	52.77	52.56	53.33
25	43.93	45.69	46.53	49.10	50.30	49.98	49.86	53.68	52.04	52.72	52.60	53.25
26	44.33	45.71	46.30	48.93	50.41	50.23	49.68	53.87	51.98	52.85	52.46	53.11
27	44.40	45.79	46.22	49.43	50.52	50.31	49.90	53.96	51.58	52.90	52.50	53.06
28	44.19	45.69	46.20	49.62	50.76	50.29	50.10	54.05	51.50	52.78	52.35	53.34
29	44.20	.....	46.12	49.67	50.57	50.64	50.07	53.98	51.55	52.80	52.35	53.45
30	44.24	.....	46.25	49.99	50.20	50.94	50.08	53.64	51.59	52.95	52.46	53.46
31	44.23	.....	46.30	.....	49.94	.....	50.40	52.51	.....	52.95	.....	53.57

Brooks County

202 (*777, p. 183; 840, p. 386; 845, p. 451; 939, p. 76). E. C. Lasater Estate. 4 miles west-northwest of Falfurrias. Measuring point, top of lowest point in casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 6, 34.06.

254 (*777, p. 185; 840, p. 386; 845, p. 451; 886, p. 659; 909, p. 96; 939, p. 76). E. G. Maun. 2.5 miles northwest of Falfurrias. Measuring point, top of 4- by 4-inch wood pump clamp above concrete base, 3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 19.86; Oct. 14, 24.71; Nov. 11, 24.50.

266 (*777, p. 185; 840, p. 386; 845, p. 451; 886, p. 659; 909, p. 96; 939, p. 76). Col. J. E. McDonald. 2 miles northwest of Falfurrias. Measuring point, top of pump clamp on top of round concrete curb, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 21.44; Oct. 14, 23.97; Nov. 11, 23.76.

270 (*777, p. 185; 340, p. 386; 845, p. 451; 886, p. 659; 909, p. 96; 939, p. 76). J. W. Story. 1 mile northwest of Falfurrias. Measuring point, top of 4- by 6-inch wood water-pipe clamp, 2.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 28.00; Oct. 14, 32.88; Nov. 12, 32.63.

273 (*777, p. 185; 840, p. 386; 845, p. 451; 886, p. 660; 909, p. 96; 939, p. 76). George Franks. 1.5 miles west of Falfurrias. Measuring point, top of pump clamp, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 19.55; Oct. 14, 22.69; Nov. 12, 22.49.

323 (*777, p. 184; 840, p. 387; 845, p. 451; 886, p. 660; 909, p. 96; 939, p. 76). R. D. Donahoe. 1 mile southwest of Falfurrias. Measuring point, pump clamp, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 13.16.

324 (*777, p. 184; 840, p. 387; 845, p. 451; 886, p. 660; 909, p. 96; 939, p. 76). L. O. Atkinson. 1 mile south of Falfurrias. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 6, 15.99.

333 (*777, p. 184; 840, p. 387; 845, p. 451; 886, p. 660; 909, p. 96; 939, p. 76). A. L. Brochet. 1 mile south of Falfurrias. Measuring point, bottom of 1- by 6-inch plank across top, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 11.82.

337 (*777, p. 186; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 76). Mrs. J. S. Donahue. 1.25 miles south of Falfurrias. Measuring point, top of casing, 3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 13.69; Oct. 14, 14.95. Measurements discontinued.

340 (*777, p. 186; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). Dr. H. M. Bennett. 2 miles south of Falfurrias. Measuring point, top of brace, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 6.89; Oct. 14, 9.25; Nov. 12, 9.23.

- 390 (*777, p. 186; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). Southern Pacific Railway. Northeast of railway station, in Falfurrias. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Feb. 5, 17.77; Oct. 13, 20.55; Nov. 10, 20.20.
- 397 (*777, p. 186; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). J. W. Dale. 2 miles east of Falfurrias. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 21.30; Oct. 22, 23.96; Nov. 12, 23.88.
- 405 (*777, p. 186; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). A. Rupp. 5 miles east of Falfurrias. Measuring point, top of casing encased in concrete, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 24.20; Oct. 13, 23.34; Nov. 18, 27.74.
- 474 (*777, p. 186; 840, p. 387; 845, p. 452; 909, p. 96; 939, p. 77). A. Rupp. 5.5 miles east-southeast of Falfurrias. Measuring point, top of wood suction clamp, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 22.19; Oct. 18, 25.54; Nov. 18, 24.46.
- 504 (*777, p. 187; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). Neal Rupp. 5.5 miles east-southeast of Falfurrias. Measuring point, top of tee discharge, 4 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 22.48; Oct. 13, 25.83; Nov. 18, 24.74.
- 505 (*777, p. 187; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). Neal Rupp. 5.5 miles east-southeast of Falfurrias. Measuring point, bottom of tee point, 5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 25.26; Oct. 13, 27.95; Nov. 18, 26.71.
- 821 (*845, p. 452; 886, p. 660; 909, p. 96; 939, p. 77). Garcia Ramos. 12 miles west-northwest of Rachal. Measuring point, top of casing, 0.8 foot above land surface. Measurements discontinued.
- 822 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Garcia Ramos. 12 miles west of Rachal. Measuring point, bottom of east 4- by 6-inch cross timber, 6 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 53.59.
- 865 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Florencio Rodriguez. 4.5 miles west of Rachal. Measuring point, pump clamp, 1.25 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 77.00.
- 872 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Victor Martinez. 1 mile north of Los Perez. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 43.63.
- 874 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 939, p. 77). Matilde Martinez. 7.75 miles west-southwest of Rachal. Measuring point, pump clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 43.32.
- 882 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). E. Villareal. 5 miles west of Rachal. Measuring point, top of pump clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 68.87.
- 885 (*777, p. 184; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Juan Longoria. 4.5 miles west of Rachal. Measuring point, 4- by 6-inch beam, 1.75 feet above land surface. No measurements made in 1943.
- 920 (*777, p. 185; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Prospero Mangel, Jr. Encino settlement, west side of highway. Measuring point, pump clamp, 2 feet above land surface. Measurements discontinued.

921 (*777, p. 185; 840, p. 387; 845, p. 452; 886, p. 660; 909, p. 97; 939, p. 77). Nicolas Cantu. Encino settlement, east side of highway. Measuring point, top of concrete curb, 6 inches above land surface. Water level, in feet below land-surface datum, 1943: Feb. 5, 42.07.

Castro County

4 (*840, p. 387; 845, p. 454; 886, p. 661; 909, p. 98; 947, p. 92). L. L. Cannon. At railroad crossing in west edge of Summerfield, 400 feet north of U. S. Highway 60, on east line of sec. 11, Excess Acreage Strip. Measuring point, top of pipe clamp, 2.35 feet above land surface. Measurements discontinued.

8 (*840, p. 387; 845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). S. P. Rosson. NW. corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 125, blk. M7, 4.5 miles southeast of Summerfield. Measuring point, bottom edge of square port hole on side of pump, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 72.04.

12 (*840, p. 387; 845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). L. B. Holland. SW. corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 128, blk. M7, 3.75 miles east of Summerfield. Measuring point, top of steel barrel rim, west side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 101.81.

18 (*845, p. 454; 886, p. 661; 939, p. 78; 947, p. 92). Frio Public School. NE. corner NE $\frac{1}{4}$ sec. 118, blk. M7, 11.5 miles northwest of Dimmitt. Measuring point, top of casing, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 67.38.

20 (*840, p. 387; 845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). A. C. Hawks. NW. corner NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 97, blk. M7, 8 miles east of Summerfield and 1.7 miles southeast from Frio Public School. Measuring point, bottom edge of discharge pipe, 3.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 68.78.

31 (*840, p. 388; 845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). T. L. Sparkman, Jr. NW. corner SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 74, blk. M7, 3.0 miles south of Deaf Smith-Castro county line, 1.75 miles west of State Highway 51. Measuring point, bottom edge of discharge pipe, 3.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 57.05. Measurements discontinued.

32 (*840, p. 388; 845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). W. A. Springer. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 81, blk. M7, 8 miles east of Summerfield and 2.0 miles east from Frio Public School. Measuring point, top of 2-inch air-line pipe, west side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 62.05.

36 (*845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). M. C. Hancock. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 72, blk. M7, 12 miles north of Dimmitt. Measuring point, top edge of air-line hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 84.02.

40 (*845, p. 454; 886, p. 661; 909, p. 98; 939, p. 78; 947, p. 92). W. W. Adams. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 51, blk. M7, 10 miles north of Dimmitt. Measuring point, bottom edge of port hole in side of pump, 1.5 feet above land surface. No measurements made in 1943.

46 (*845, p. 454; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 92). Edwin Mauk. SW. corner SW $\frac{1}{4}$ sec. 54, blk. M7, 7 miles north of Dimmitt. Measuring point, bottom edge of discharge pipe, 4 feet above land surface. Measurements discontinued.

48 (*840, p. 388; 845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 92). J. M. Richardson. NW. corner NW $\frac{1}{4}$ sec. 30, blk. M7, 13.2 miles east of Summerfield. Measuring point, bottom edge of square port hole on south side of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 58.19.

52 (*845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 92). C. G. Maples. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, blk. M10A, 6.5 miles north of Dimmitt. Measuring point, top of concrete curb, north side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 71.31.

53 (*840, p. 388; 845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 92). W. A. Hunter. SW corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 52, blk. M7, 11 miles east of Summerfield. Measuring point, bottom edge of square port hole on side of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 57.34.

57 (*845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 93). E. S. Ireland. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, blk. M7 6 miles north of Dimmitt. Measuring point, top of steel casing, 3.5 feet above land surface. No measurements made in 1943.

58 (*845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 93). Owner unknown. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, J. E. Tucker subdivision, 2 miles northeast of Dimmitt. Measuring point, top of steel casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 152.40.

90a (*947, p. 93). McGehee and Hupp. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 57, blk. M7, 7 miles north of Dimmitt. Measuring point, bottom edge of port hole on north side of pump, 0.8 foot above concrete foundation and 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 67.58.

201 (*845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 93). J. C. Holman. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 339, blk. M6, 6.5 miles east of Dimmitt. Measuring point, top of steel casing, north side, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 152.05.

202 (*845, p. 455; 886, p. 662; 909, p. 98; 939, p. 78; 947, p. 93). Frank Huseman. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 222, blk. M6, 11 miles east of Dimmitt. Measuring point, top of steel casing, 1.5 feet above land surface. No measurements made in 1943.

Comal County

117 (*886, p. 663; 909, p. 100; 939, p. 79; 947, p. 93). Alfred Beierle. Elias Flint survey, 3.5 miles southeast of Spring Branch. Measuring point, top of casing, at land surface and 1,006.57 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Sept. 10, 123.24; Dec. 20, 122.87.

118 (*886, p. 663; 909, p. 100; 939, p. 79; 947, p. 93). Henry Jonas Estate. A. H. Jonas survey 78, 3 miles northwest of Smithson Valley. Measuring point, top of steel casing, 0.55 foot above land surface, and 1,016.65 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 92.65; Sept. 10, 92.66; Dec. 20, 92.67.

119 (*886, p. 663; 909, p. 100; 939, p. 79; 947, p. 93). John Stricker. 4 miles southeast of Spring Branch. Measuring point, top of concrete curbing, 1.24 feet above land surface, and 1,031.88 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 167.85; Sept. 10, 170.89; Dec. 20, 171.37.

120 (*886, p. 663; 909, p. 101; 939, p. 79; 947, p. 93). S. L. Gill. 2 miles south of Spring Branch. Measuring point, top of steel casing, 0.82 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 76.39; Sept. 10, 76.03; Dec. 20, 76.71.

131 (*886, p. 664; 909, p. 101; 939, p. 80; 947, p. 94). J. J. Arrechea. 5.5 miles south of Spring Branch. Measuring point, top of steel casing, 1.02 feet above land surface, and 1,205.97 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 111.98; Sept. 10, 115.52; Dec. 20, 116.17.

155 (*886, p. 664; 909, p. 101; 939, p. 80; 947, p. 94). George Fronne. 6 miles north of Bulverde. Measuring point, top of wooden block, 0.68 foot above land surface, and 1,242.14 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Sept. 11, 116.04; Dec. 20, 115.48.

162 (*909, p. 101; 939, p. 80; 947, p. 94). O. A. Doepenschmidt. 9 miles east of Bulverde. Measuring point, top of iron water-pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 138.68; Sept. 10, 142.52.

171 (*886, p. 664; 909, p. 101; 939, p. 80; 947, p. 94). Mrs. Mattie Shelburne. 3 miles northeast of Bulverde. Measuring point, top of casing, 0.5 foot above land surface, 1,157.44 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 229.41; Sept. 11, 236.03; Dec. 20, 234.50.

183 (*886, p. 664; 909, p. 101). August Wehe. - In Bulverde. Measuring point, top of hand-hewn 6- by 6-inch wood runners, 0.5 foot above land surface, and 1,096.71 feet above mean sea level. Measurements resumed. Water levels, in feet below land-surface datum, 1943: Sept. 11, 265.31; Dec. 20, 271.15.

184 (*886, p. 664; 909, p. 101; 939, p. 80; 947, p. 94). Charles Willig. 1.5 miles east of Bulverde. Measuring point, top of iron pipe clamp, 1.0 foot above land surface, and 1,053.40 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 270.00; Sept. 11, 286.24; Dec. 20, 310.92.

193 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). W. B. Ethridge. 5.5 miles east of Bulverde. Measuring point, top of casing, 0.2 foot above land surface, and 956.14 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 201.47; Sept. 11, 208.14; Dec. 20, 220.04.

195 (*909, p. 102). Robert Helmer. 9 miles east of Bulverde. Measuring point, top of iron water-pipe clamp, 0.7 foot above land surface. Measurements resumed. Water level, in feet below land-surface datum, 1943: Sept. 10, 49.11.

221 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). Albert Simon. 4 miles north of New Braunfels. Measuring point, top of iron pipe clamp, 1.0 foot above land surface, and 793.99 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 161.09; Sept. 10, 162.99; Dec. 20, 165.00.

222 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). William Kraft. 4 miles northwest of New Braunfels. Measuring point, top of iron pipe clamp, 0.5 foot above land surface, and 807.00 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 174.58; Sept. 10, 176.76; Dec. 20, 178.59.

223 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). Albert Kraft. 4.5 miles northwest of New Braunfels. Measuring point, top of iron pipe clamp, 0.9 foot above land surface, and 840.97 feet above mean sea level. Water level, in feet below land-surface datum, 1943: Sept. 10, 206.92.

225 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). W. H. Harborth Estate. 4 miles northwest of New Braunfels. Measuring point, top of iron pipe clamp, 1.1 feet above land surface, and 810.15 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 20, 170.41; Sept. 10, 173.68; Dec. 20, 175.95.

226 (*886, p. 664; 909, p. 102; 939, p. 80; 947, p. 94). Henry Heise. 4.5 miles northwest of New Braunfels. Measuring point, top of steel pipe clamp, 0.59 foot above land surface, and 879.09 feet above mean sea level. No measurements made in 1943.

232 (*886, p. 664; 909, p. 103; 939, p. 80; 947, p. 94). A. J. Caldwell. 8 miles northwest of New Braunfels. Measuring point, top of iron pipe clamp, 0.4 foot above land surface, and 942.19 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 19, 167.92; Sept. 10, 167.70; Dec. 20, 174.36.

263-A (*886, p. 665; 909, p. 103; 939, p. 80; 947, p. 94). Alfred Kappelmacher. At junction of Bulverde road and State Highway 46, 3.75 miles northwest of New Braunfels. Measuring point, top of casing, 0.7 foot above land surface, and 862.38 feet above mean sea level. Water-stage recorder installed Oct. 4, 1943.

263-A. Alfred Kappelmacher--Continued.

Daily noon water level, in feet below land-surface datum, 1943
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 19	a224.61	Oct. 25	228.80	Nov. 17	229.30	Dec. 10	229.77
29	a224.95	26	228.82	18	229.32	11	229.79
Sept. 10	a227.85	27	228.83	19	229.34	12	229.79
Oct. 5	228.39	28	228.84	20	229.36	13	229.80
6	228.44	29	228.86	21	229.39	14	229.84
7	228.45	30	228.87	22	229.42	15	229.89
8	228.46	31	228.91	23	229.44	16	229.90
9	228.48	Nov. 1	228.94	24	229.47	17	229.93
10	228.50	2	228.99	25	229.47	18	229.93
11	228.51	3	229.00	26	229.51	19	229.93
12	228.52	4	229.01	27	229.53	20	229.90
13	228.56	5	229.01	28	229.57	21	229.90
14	228.57	6	229.04	29	229.54	22	229.92
15	228.59	7	229.11	30	229.57	23	229.96
16	228.63	8	229.13	Dec. 1	229.57	24	229.97
17	228.64	9	229.16	2	229.58	25	229.98
18	228.64	10	229.18	3	229.62	26	230.00
19	228.65	11	229.19	4	229.64	27	230.01
20	228.67	12	229.21	5	229.64	28	230.04
21	228.70	13	229.22	6	229.68	29	230.05
22	228.72	14	229.24	7	229.70	30	230.06
23	228.74	15	229.26	8	229.71	31	230.07
24	228.77	16	229.29	9	229.73		

271 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). Albert Wallhoefer. Formerly owned by Robert Raabe. 1.5 miles northeast of Gruene station. Measuring point, top of wooden pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 88.27; Sept. 10, 88.85; Dec. 20, 90.11.

274 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). Charles Soechting. 3 miles northeast of Gruene station. Measuring point, top of steel casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Sept. 10, 149.42; Dec. 20, 149.06.

278 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). Nancy Gruene. 2.5 miles southwest of Hunter. Measuring point, top of casing, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 146.62; Sept. 10, 147.17; Dec. 20, 148.72.

291 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). Oscar Preiss. 1.1 miles southeast of Thornhill school. Measuring point, top of steel pipe clamp, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 51.82; Sept. 10, 52.54; Dec. 10, 55.87.

326 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). William Schaeffer. 3.5 miles southwest of Solms. Measuring point, top of wooden pipe clamp, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 31.30; Sept. 10, 34.28; Dec. 21, 35.10.

336 (*840, p. 391; 845, p. 457; 886, p. 665; 909, p. 103; 939, p. 81; 947, p. 95). A. W. Feich. 1.1 miles southwest of Solms. Measuring point, top of steel casing, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 80.71; Sept. 10, 84.15; Dec. 21, 84.23.

373 (*840, p. 391; 845, p. 458; 886, p. 665; 909, p. 104; 939, p. 81; 947, p. 95). L. Jentsch. 1 mile east of Solms. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 20.36; Dec. 21, 23.11.

a Tape measurement.

399 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 939, p. 82; 947, p. 95). John Karback. 1.3 miles north of Gruene. Measuring point, top of steel pipe clamp, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 171.01; Dec. 20, 173.22.

588 (*947, p. 95). O. A. Stoepler. East side of New Braunfels on Wimberley road, 1 mile south of Hays County line. Measuring point, top of 2-inch pipe, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 148.81; Sept. 11, 150.45; Dec. 18, 143.78.

Crosby County

1 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 947, p. 96). J. T. Vaughan. In Cone, at store and filling station, east side of street, 1 block south of school. Measuring point, top of 6-inch iron casing, south side, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 23, 112.53.

2 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 947, p. 96). C. B. Travis. 1.85 miles south of Cone, on west side of road. Measuring point, top of tin guard over well, west side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 105.35.

3 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 939, p. 82; 947, p. 96). New Home School. 3.85 miles south of Cone, on east side of road. Measuring point, top of concrete curb, 0.2 foot above land surface. Measurements discontinued.

4 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 939, p. 82; 947, p. 96). Owner unknown. 6.75 miles south of Cone, on west side of road. Measuring point, top of iron clamp, west side, 0.5 foot above land-surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 118.87.

6 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 947, p. 96). Miss D. M. Ralls. In Ralls, along U. S. Highway 62, 1.7 miles west of junction with State Highway 207, on south side of road. Measuring point, top of casing, 0.5 foot above land surface. Measurements discontinued.

7 (*840, p. 392; 845, p. 458; 886, p. 666; 909, p. 104; 939, p. 82; 947, p. 96). Owner unknown. In Ralls, north side of U. S. Highway 62, and 3 miles west of junction with State Highway 207. Measuring point, top of wooden clamp, 0.7 foot above land surface. Measurements discontinued.

8 (*840, p. 392; 845, p. 458). Paul Bedingfield. In Ralls, 0.1 mile south of U. S. Highway 62, and 5.7 miles west of junction with State Highway 207. Measuring point, top of pump base, through air-line hole, 1.7 feet above land surface. Measurements discontinued.

9 (*840, p. 393; 845, p. 458; 886, p. 666; 909, p. 104; 939, p. 82; 947, p. 96). Owner unknown. East edge of Lorenzo, 1 block north of U. S. Highway 62, east side of road. Measuring point, top of steel plate, north side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 78.01.

46 (*886, p. 666; 909, p. 104; 947, p. 96). J. R. Noble. SW $\frac{1}{4}$ SW $\frac{1}{4}$ J. F. Littlefield survey, north of Cone public school, 13 miles northwest of Crosbyton. Measuring point, top of steel barrel cover plate, 0.2 foot above land surface. Measurements discontinued.

Dawson County

9 (*909, p. 108; 947, p. 96). I. M. Stafford. NE. corner SE $\frac{1}{4}$ sec. 41, blk. 35, T. 5 N., 6.6 miles southeast of Lamesa on U. S. Highway 87, thence 1.4 miles west. Measuring point, top of pipe clamp on south side, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 77.90.

602 (*840, p. 395; 845, p. 460; 886, p. 670; 909, p. 108). Owner unknown. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 44, blk. 35, T. 6 N., 1.6 miles north of Lamesa and 0.45 mile west of U. S. Highway 87, southeast side of small sink, and the more easterly of two windmill wells 80 feet apart. Measuring point, top of casing, 0.3 foot above land surface. No measurements made in 1943.

603 (*840, p. 395; 845, p. 460). Ralph Grant. NE corner SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 44, blk. 35, T. 6 N., 1.8 miles north of Lamesa along U. S. Highway 87. Measuring point, top of pipe clamp, 0.5 foot above land surface. No measurements made in 1943.

606 (*840, p. 395; 845, p. 460; 886, p. 670; 909, p. 108; 947, p. 96). Gus White. NE $\frac{1}{4}$ sec. 13, blk. 35, T. 6 N., 7.4 miles north of Lamesa along U. S. Highway 87 and 0.3 mile west on north side of dirt road. No measurements made in 1943.

607 (*840, p. 395; 845, p. 460; 886, p. 670; 909, p. 108; 947, p. 96). Gus White. NE $\frac{1}{4}$ sec. 13, blk. 35, T. 6 N., 7.4 miles north of Lamesa on U. S. Highway 87, thence 0.1 mile north. Measuring point, top of casing, 6 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 79.35.

611 (*840, p. 396; 845, p. 460; 886, p. 670; 909, p. 108; 947, p. 96). V. B. Hohn. On east side of U. S. Highway 87, 11.6 miles northeast of Lamesa, at Hindman railroad switch. Measuring point, top of concrete curb, 0.6 foot above land surface. No measurements made in 1943.

612 (*840, p. 396; 845, p. 460; 886, p. 670; 909, p. 108; 947, p. 97). G. H. Greenlee. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, blk. 34, T. 7 N., 12.4 miles northeast of Lamesa and 0.2 mile west of U. S. Highway 87. Measuring point, top of concrete curb, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 68.20.

702 (*840, p. 396; 845, p. 461; 886, p. 670; 909, p. 108; 947, p. 97). Mrs. W. H. Gartin. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 46, blk. 34, T. 4 N., 2.6 miles northwest of Ackerly. Measuring point, top of steel casing, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 100.52.

705 (*840, p. 396; 845, p. 461; 909, p. 108; 947, p. 97). R. D. Simpson. Near center of sec. 18, blk. 34, T. 4 N., 8.5 miles northeast of Ackerly. Measuring point, top of steel cover plate across well, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 95.14.

706 (*840, p. 396; 845, p. 461; 909, p. 108; 947, p. 97). H. Richardson. SE corner SE $\frac{1}{4}$ sec. 12, blk. 35, T. 4 N., 9.2 miles northeast of Ackerly. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 81.00.

709 (*840, p. 397; 845, p. 461; 886, p. 670; 909, p. 108). Truett Shipley. SW corner SW $\frac{1}{4}$ sec. 47, blk. 35, T. 5 N., 0.3 mile west of U. S. Highway 87, 9.1 miles southeast of Lamesa. Measuring point, top of concrete curb, 0.4 foot above land surface. No measurements made in 1943.

710 (*840, p. 397; 845, p. 461; 886, p. 670; 909, p. 109; 947, p. 97). O. Williams. NE $\frac{1}{4}$ sec. 3, blk. 35, T. 4 N., 1.2 miles west of U. S. Highway 87, 9.1 miles southeast of Lamesa, on west side of Sulphur Draw. Measuring point, top of pipe clamp, 0.6 foot above land surface. No measurements made in 1943.

711 (*840, p. 397; 845, p. 461; 886, p. 670; 909, p. 109; 947, p. 97). Dan Bartlett. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, blk. 35, T. 4 N., 1.6 miles west of U. S. Highway 87, 9.1 miles southeast of Lamesa. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 79.05.

712 (*840, p. 397; 845, p. 461; 909, p. 109; 947, p. 97). H. H. Barron. Near center of sec. 33, blk. 35, T. 5 N., 3.2 miles southeast of Lamesa. Measuring point, top of steel casing, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 76.02.

713 (*840, p. 397; 845, p. 461; 909, p. 109; 947, p. 97). Elmer Walls. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, blk. 35, T. 5 N., 4.2 miles southeast of Lamesa. Measuring point, top of pipe clamp, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 92.79.

714 (*840, p. 397; 845, p. 461; 886, p. 671; 909, p. 109; 947, p. 97). H. H. Barron. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, blk. 34, T. 5 N., 3.2 miles southeast of Lamesa. Measuring point, top of pipe clamp, 0.45 foot above concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 67.24.

718 (*840, p. 397; 845, p. 461; 886, p. 671; 909, p. 109; 947, p. 97). J. E. Garland. On north city limit line of Lamesa, 0.1 mile west of U. S. Highway 87. Measuring point, top of steel casing, 0.8 foot above land surface. No measurements made in 1943.

720 (*840, p. 397; 845, p. 461; 886, p. 671; 947, p. 97). C. H. McCormick. On State Highway 15, 0.35 mile west of U. S. Highway 87. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 98.82.

Deaf Smith County

113 (*840, p. 398; 845, p. 462; 886, p. 671; 909, p. 109; 939, p. 84; 947, p. 97). A. S. Higgins. NW. corner NW $\frac{1}{4}$ sec. 58, blk. K4, 12.5 miles north of Hereford. Measuring point, top of concrete pump base, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 98.24.

127 (*845, p. 462; 886, p. 671; 909, p. 109; 939, p. 84; 947, p. 97). Federal Life Insurance Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, blk. 7, 18 miles northeast of Hereford. Measuring point, top of wood pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 73.59.

128 (*845, p. 462; 886, p. 671; 909, p. 109; 939, p. 84; 947, p. 97). M. H. Byrum. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, blk. 7, 18 miles northeast of Hereford. Measuring point, top of steel casing, 0.8 foot above land surface. No measurements made in 1943.

150 (*845, p. 462; 886, p. 671; 909, p. 109; 939, p. 85; 947, p. 97). D. Thompson. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 79, blk. K4, 10.5 miles north of Hereford. Measuring point, top of wood pipe clamp, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 96.84.

205 (*845, p. 463; 947, p. 98). Hill and Ricketts. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 50, blk. K3, 2 miles east of State Highway 51, 9.5 miles north of Hereford. Measuring point, lower edge of rectangular opening in side of pump, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 77.83.

207 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 109; 939, p. 85; 947, p. 98). R. Schroeler. West line of NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, blk. K3, 9 miles northeast of Hereford. Measuring point, top of 1-inch iron strap on pump base, 0.35 foot above land surface. Measurements discontinued.

212 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 109; 939, p. 85; 947, p. 98). Alfred May. NW. corner NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, blk. 3, 12 miles northeast of Hereford. Measuring point, top edge of hole in bed plate of pump, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 71.10.

216 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 109; 939, p. 85; 947, p. 98). H. H. Miller. SW. corner SE $\frac{1}{4}$ sec. 14, blk. 3, 13 miles northeast of Hereford. Measuring point, bottom edge of square port hole on side of pump, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 66.53.

217 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 110; 939, p. 85; 947, p. 98). W. E. Neal. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, blk. 3, 13 miles northeast of Hereford. Measuring point, bottom edge of pump base, level with concrete foundation, west side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 87.32.

219 (*845, p. 463; 886, p. 671; 909, p. 110; 939, p. 85; 947, p. 98). J. E. Manz. NE. corner NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, blk. 3, 14 miles northeast of Hereford. Measuring point, lower edge of rectangular opening in side of pump, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 74.39.

220 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 110; 939, p. 85; 947, p. 98). C. T. Wamberly. SW. corner SW $\frac{1}{4}$ sec. 22, blk. 3, on north side of U. S. Highway 60, 1 mile southwest of Dawn and 11.5 miles northeast of Hereford. Measuring point, bottom edge of square port hole on side of pump, 1.5 feet above land surface. No measurements made in 1943.

- 224 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 110; 939, p. 85; 947, p. 98). M. H. Byrum. SE. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, blk. 3, 10 miles northeast of Hereford. Measuring point, bottom edge of discharge pipe, 3.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 54.69.
- 226 (*840, p. 398; 845, p. 463; 886, p. 671; 909, p. 110; 939, p. 85; 947, p. 98). J. B. Stoker. NW. corner NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, blk. K3, 9 miles northeast of Hereford. Measuring point, top edge of hole in bed plate of pump, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 48.57.
- 230 (*840, p. 398; 845, p. 463; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). E. C. Reineaur. NW. corner SW $\frac{1}{4}$ sec. 6, blk. K3, 7.5 miles northeast of Hereford. Measuring point, lower edge of discharge pipe, 2.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 43.40.
- 234 (*840, p. 399; 845, p. 463; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). Owner unknown. Sec. 534, Excess Acreage Strip, 7.75 miles northeast of Hereford. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 48.95.
- 235 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). W. G. Slagle. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, blk. K3, 7 miles northeast of Hereford. Measuring point, bottom edge of pump base, east side, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 50.08.
- 236 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). Western National Bank. SW. corner SW $\frac{1}{4}$ sec. 5, blk. K3, 6.4 miles northeast of Hereford. Measuring point, top of steel casing, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 46.85.
- 237 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). Western National Bank. NW. corner NW $\frac{1}{4}$ sec. 5, blk. K3, 7 miles northeast of Hereford. Measuring point, bottom edge of square opening on side of pump, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 42.80.
- 241 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). J. K. Estes. NW. corner NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, blk. K3, 5.5 miles northeast of Hereford. Measuring point, top of concrete pump base, north side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 47.77.
- 242 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 98). Travis Damron. NW. corner SW $\frac{1}{4}$ sec. 24, blk. K3, 4.5 miles northeast of Hereford. Measuring point, bottom edge of discharge pipe, 4.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 47.93.
- 245 (*840, p. 399; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 99). A. D. Smith. SW. corner NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, blk. K3, 5.5 miles northeast of Hereford. Measuring point, top of concrete pump base, south-east side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 45.04.
- 247 (*840, p. 400; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 99). S. E. Zook. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, blk. K3, 7.5 miles northeast of Hereford. Measuring point, top of pipe clamp, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 22.50.
- 248 (*840, p. 400; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 85; 947, p. 99). Owner unknown. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, blk. K3, 7 miles northeast of Hereford. Measuring point, top of concrete curb, 0.4 foot above land surface. Measurements discontinued.

251 (*840, p. 400; 845, p. 464; 886, p. 678; 909, p. 110; 939, p. 86; 947, p. 99). A. D. Thompson and Blakemore. NW. corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 47, blk. K3, 6.5 miles north of Hereford. Measuring point, top of concrete pump base, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 51.28.

258 (*840, p. 400; 845, p. 464; 886, p. 672; 909, p. 110; 939, p. 86; 947, p. 99). D. G. W. Heard. SW. corner NE $\frac{1}{4}$ sec. 77, blk. K3, 3 miles north of Hereford. Measuring point, top of concrete pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 56.58.

261 (*840, p. 400; 845, p. 465; 886, p. 672; 909, p. 110; 939, p. 86; 947, p. 99). D. L. McDonald. NW. corner NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 65, blk. K3, 4 miles north of Hereford. Measuring point, top of concrete pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 54.19.

265 (*840, p. 400; 845, p. 465; 886, p. 672; 909, p. 110; 939, p. 86; 947, p. 99). Reineaur Bros. NW. corner SE $\frac{1}{4}$ sec. 74, blk. K3, 6 miles north of Hereford. Measuring point, top of air-line hole in pump base, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 65.90.

272 (*840, p. 401; 845, p. 465; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). J. L. Hoffman. SW. corner SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 86, blk. K3, 5 miles northeast of Hereford. Measuring point, top of hole in bed plate of pump, 0.9 foot above land surface. Measurements discontinued.

276 (*840, p. 401; 845, p. 465; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). Owner unknown. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 69, blk. K3, 7.5 miles north of Hereford. Measuring point, top of casing, 0.5 foot above land surface. Measurements discontinued.

277 (*845, p. 465; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). H. H. Myers. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 72, blk. K3, west side of State Highway 51, 7.5 miles north of Hereford. Measuring point, top of steel-barrel curb, 1.6 feet above land surface. Measurements discontinued.

281 (*845, p. 465; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). P. H. Filbin. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 96, blk. K3, 5.5 miles northwest of Hereford. Measuring point, top of air-line hole in steel pump base, 1 foot above land surface. Measurements discontinued.

283 (*840, p. 401; 845, p. 466; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). J. T. Gilbreath. North line of NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 133, blk. M7, 3 miles west of Hereford. Measuring point, bottom edge of square port hole on side of pump, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 63.60.

288 (*840, p. 401; 845, p. 466; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). John W. Kropff. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 63, blk. K3, 2.5 miles north of Hereford. Measuring point, top of concrete pump base, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 63.94.

291 (*840, p. 401; 845, p. 466; 886, p. 672; 909, p. 111; 939, p. 86; 947, p. 99). S. L. Harman. NW. corner NW $\frac{1}{4}$ sec. 59, blk. K3, 1 mile northeast of Hereford. Measuring point, top of concrete pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 56.70.

300 (*840, p. 401; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 99). Ayres Estate. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 43, blk. K3, 2 miles northeast of Hereford. Measuring point, top of cast iron base, north side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 48.50.

301 (*840, p. 402; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 99). SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 43, blk. K3, 2.6 miles northeast of Hereford. Measuring point, top of steel casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 47.13.

302 (#840, p. 402; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 99). J. L. Fuqua. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 38, blk. K3, on south side of U. S. Highway 60, 4 miles northeast of Hereford. Measuring point, bottom edge of discharge pipe, 4 feet above land surface. No measurements made in 1943.

308 (#840, p. 402; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 100). Hereford State Park. NW. corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 60, blk. K3, 1 mile northeast of Hereford. Measuring point, top of concrete pump base, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 48.28.

311 (#840, p. 402; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 100). H. H. Boardman. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 41, blk. K3, 2 miles east of Hereford. Measuring point, top of hole in bed plate of pump, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 49.12.

315 (#840, p. 402; 845, p. 466; 886, p. 673; 909, p. 111; 939, p. 86; 947, p. 100). C. P. Hussey. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 67, blk. M7, 3.5 miles east of Hereford. Measuring point, top of concrete pump base, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 54.90.

317 (#840, p. 402; 845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). L. Baskin. In Hereford, in SW. corner SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 110, blk. M7, 1.6 miles south of Deaf Smith County courthouse. Measuring point, bottom edge of discharge pipe, 2.9 feet above land surface. Measurements discontinued.

319 (#845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). Hooker Estate. SW. corner SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 79, blk. K3, 1 mile northwest of Hereford. Measuring point, lower edge of discharge pipe, 1.5 feet above land surface. No measurements made in 1943.

322 (#840, p. 402; 845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). Lloyd Edwards. SW. corner SE $\frac{1}{4}$ sec. 112, blk. M7, 2.5 miles south of Hereford. Measuring point, top of hole in bed plate of pump, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 73.23.

331 (#840, p. 403; 845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). M. C. Doss. SW. corner NW $\frac{1}{4}$ sec. 107, blk. M7, 4 miles south of Hereford. Measuring point, bottom edge of discharge pipe, 5.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 77.05.

336 (#840, p. 403; 845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). E. J. Boeskin. SW. corner NE $\frac{1}{4}$ sec. 86, blk. M7, 3.5 miles southeast of Hereford. Measuring point, bottom edge of large opening on side of pump, 0.6 foot above concrete pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 87.03.

340 (#845, p. 467; 886, p. 673; 909, p. 111; 939, p. 87; 947, p. 100). Felix Urbanczyk. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 108, blk. M7, 3.75 miles south of Hereford. Measuring point, top of hole in steel base of pump, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 78.03.

342 (#845, p. 467; 886, p. 673; 909, p. 112; 939, p. 87; 947, p. 100). Felix Urbanczyk. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 108, blk. M7, 3.5 miles south of Hereford. Measuring point, top of air-line hole in steel pump base, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 76.42.

431 (#840, p. 403; 845, p. 467; 886, p. 673; 909, p. 112; 939, p. 87; 947, p. 100). Mrs. M. Wooldridge. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 152, blk. M7, 4.5 miles southwest of Hereford. Measuring point, top of steel casing, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 69.15.

502 (#845, p. 468; 886, p. 673; 909, p. 112; 939, p. 87; 947, p. 100). M. S. Tannahill. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 50, blk. K3, 8.5 miles west of Hereford. Measuring point, top of air-line hole in steel pump base, 1 foot above land surface. No measurements made in 1943.

506 (*845, p. 468; 886, p. 673; 909, p. 112; 939, p. 87; 947, p. 100). Alton Frazer. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, Gregg School land, 90 miles west of Hereford. Measuring point, top of steel casing, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 75.57.

513 (*845, p. 468; 886, p. 673; 909, p. 112; 947, p. 100). W. L. Parrott. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 174, blk. M7, 7.5 miles southwest of Hereford. Measuring point, top of steel casing, 4.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 77.10.

514 (*845, p. 468; 886, p. 673). B. A. Achley. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 173, blk. M7, 8 miles southwest of Hereford. Measurements resumed. Measuring point, top of air-line hole in steel pump base, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 105.20.

519 (*845, p. 463; 886, p. 673; 909, p. 112; 939, p. 87; 947, p. 100). J. G. Evans. Gregg County school land, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, 10 miles west of Hereford. Measuring point, top of steel casing level with concrete pump foundation, at land surface. Measurements discontinued.

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M9-9 (*777, p. 187; 840, p. 403; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 87; 947, p. 100). Mr. Meyers. 2.5 miles southwest of Cometa. Measuring point, top of casing, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 85.84.

N7-25 (*909, p. 112; 939, p. 87; 947, p. 101). Mrs. Ella Perrin. 4.25 miles southeast of Cometa. Measuring point, top of casing set in concrete block inside 6-foot high concrete sump tank, 1.0 foot above land surface. No measurements made in 1943.

N7-34 (*777, p. 187; 840, p. 403; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 87; 947, p. 101). Byrd Cattle Co. 2 miles northwest of Winter Haven. Measuring point, top of casing, 0.2 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 12, 59.85; Dec. 19, 57.84.

N7-48 (*777, p. 188; 840, p. 403; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 87; 947, p. 101). H. Hagestein. 1 mile east of Winter Haven. Measuring point, top of pump base, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 11, 67.73.

N7-78 (*777, p. 188; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 88; 947, p. 101). C. Schmitt. 2 miles northwest of Carrizo Springs. Measuring point, top of casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 7, 108.72.

N7-95 (*777, p. 189; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 88; 947, p. 101). M. E. Cook. 3 miles west of Carrizo Springs. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 7, 76.50; Dec. 19, 75.14.

N7-125 (*777, p. 189; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 112; 939, p. 88; 947, p. 101). J. Gardner. Carrizo Springs. Measuring point, top of casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 7, 68.05; Dec. 19, 68.23.

N7-135 (*777, p. 189; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). J. L. Bell. 2 miles southwest of Carrizo Springs. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 6, 32.71; Dec. 20, 32.61.

N8-19 (*777, p. 190; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). C. W. Wilkeson. 2 miles southeast of Winter Haven. Measuring point, top of oil barrel, at land surface. Measurements discontinued.

NS-26 (*777, p. 190; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). Geo. C. Riha. 4 miles southeast of Winter Haven. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 73.47; Dec. 19, 79.23.

NS-28 (*777, p. 190; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). G. W. Weston. 4 miles southeast of Winter Haven. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 73.16; Dec. 19, 79.65.

NS-40 (*777, p. 191; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). John Stahl. 3 miles northeast of Carrizo Springs. Measuring point, inside wooden box, 3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 79.13; Dec. 19, 48.54.

NS-47 (*777, p. 191; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). C. W. Miller. 2 miles east of Carrizo Springs. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Aug. 10, 118.94; Dec. 20, 93.64.

NS-50 (*777, p. 191; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). I. O. Kotchman. 3 miles east of Carrizo Springs. Measuring point, top of casing, 0.3 foot above land surface. No measurements made in 1943.

NS-58 (*777, p. 192; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). G. Denton Estate. 6 miles northeast of Carrizo Springs. Measuring point, top of concrete curb, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 62.90.

NS-71 (*777, p. 192; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 947, p. 101). Dr. B. E. Pickett. 5 miles southwest of Brundage. Measuring point, top of pump base, 1.0 foot below land surface. Measurements discontinued.

NS-73 (*777, p. 192; 840, p. 404; 845, p. 469; 909, p. 113; 947, p. 101). Mrs. Moody Beascom. 2 miles southwest of Brundage. Measuring point, top of pipe clamp, 2.0 feet above land surface. Measurements discontinued.

NS-103 (*777, p. 192; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 101). Nueces Land & Irrigation Co. 4 miles southwest of Brundage. Measuring point, top of pump base, at land surface. No measurements made in 1943.

NS-8 (*777, p. 193; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 102). T. S. Buchanan. 1.5 miles north of Big Wells. Measuring point, top of casing, at land surface. No measurements made in 1943.

NS-12 (*777, p. 193; 840, p. 404; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88; 947, p. 102). Federal Land Bank. 1 mile west of Big Wells. Measuring point, bottom of hole in wood cover, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 24.70.

NS-16 (*777, p. 193; 840, p. 404; 909, p. 113; 947, p. 102). R. B. White Co. 1.5 miles east of Big Wells. Measuring point, top of railroad rail, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 77.88.

NS-25 (*777, p. 193; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 113; 947, p. 102). Order of Calantha. 4 miles southeast of Brundage. Measuring point, top of casing, 1.0 foot above land surface. No measurements made in 1943.

NS-32 (*777, p. 193; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 113; 939, p. 88). P. J. Lewis. 2.5 miles south of Big Wells. Measuring point, top of casing, at land surface. No measurements made in 1943.

NS-33 (*909, p. 113; 939, p. 88; 947, p. 102). P. J. Lewis. 2.5 miles south of Big Wells. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 43.55.

07-3 (*777, p. 194; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 114; 939, p. 88; 947, p. 102). G. W. Hatch. 9 miles northwest of Big Wells. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 102.03.

Sl-15 (*777, p. 195; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 114; 939, p. 88; 947, p. 102). Central Securities Co. 6 miles southwest of Carrizo Springs. Measuring point, top of pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 6, 56.21.

Sl-16 (*777, p. 195; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 114; 939, p. 88; 947, p. 102). C. W. Gilfillan & Son. 4.5 miles southwest of Carrizo Springs. Measuring point, top of pump base, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 6, 59.92; Dec. 20, 60.19.

Sl-18 (*777, p. 195; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 114; 939, p. 88; 947, p. 102). Central Securities Co. 3.5 miles southwest of Carrizo Springs. Measuring point, top of casing, 4.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 6, 105.37.

S2-24 (*777, p. 195; 840, p. 405; 845, p. 469; 886, p. 674; 909, p. 114; 939, p. 88; 947, p. 102). L. V. Richardson. 5.5 miles southeast of Carrizo Springs. Measuring point, top of pump base, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 12, 140.29; Dec. 19, 124.96.

S2-27 (*777, p. 195; 840, p. 405; 845, p. 469; 886, p. 675; 909, p. 114; 947, p. 102). J. A. McDonald. 3.5 miles northeast of Asherton. Measuring point, top of pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 13, 60.41.

S2-29 (*777, p. 196; 840, p. 405; 845, p. 469; 886, p. 675; 909, p. 114; 939, p. 88; 947, p. 102). E. W. Tackett. 4 miles northwest of Asherton. Measuring point, top of concrete curb, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 12, 98.65.

S2-78 (*777, p. 196; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 114; 939, p. 89; 947, p. 102). J. W. Robinson. 2.5 miles southwest of Asherton. Measuring point, top of pump base, 0.2 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 12, 184.11; Dec. 18, 187.28.

S2-86 (*777, p. 196; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 114; 939, p. 89; 947, p. 102). J. P. Luthold. 4 miles southeast of Asherton. Measuring point, top of pump base, at land surface. Measurements discontinued.

S2-91 (*777, p. 197; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 114; 939, p. 89; 947, p. 102). L. Zaunbrecher. 5 miles south of Asherton. Measuring point, top of concrete curb, 0.5 foot above land surface. No measurements made in 1943.

S2-94 (*777, p. 197; 840, p. 405; 845, p. 470; 909, p. 114; 939, p. 89; 947, p. 102). Catarina Farms Co. 9 miles west of Catarina. Measuring point, top of pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Dec. 18, 195.55.

S2-102 (*777, p. 102; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 114; 939, p. 89; 947, p. 102). Wm. H. McKinney. Formerly owned by J. P. Giles. 4 miles northwest of Catarina. Measuring point, top of pump base, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 13, 113.45; Dec. 18, 114.77.

S3-10 (*777, p. 197; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 114; 939, p. 89; 947, p. 103). Catarina Farms Co. 4.5 miles northeast of Catarina. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 13, 84.93.

S3-16 (*909, p. 114; 939, p. 89; 947, p. 103). Catarina Farms Co. 2.5 miles west of Catarina. Measuring point, top of concrete curb around casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 13, 140.42.

S5-3 (*777, p. 197; 840, p. 405; 845, p. 470; 909, p. 115; 939, p. 89; 947, p. 103). Ingram & Eckler. 6 miles west of Catarina. Measuring point, top of pump base, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 13, 116.23; Dec. 18, 131.24.

S5-5 (*777, p. 198; 840, p. 504; 845, p. 470; 909, p. 115; 939, p. 89; 947, p. 103). Catarina Farms Co. 13 miles southwest of Catarina. Measuring point, top of pump base, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 13, 75.07; Dec. 18, 75.16.

S5-10 (*777, p. 198; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 115; 947, p. 103). Catarina Farms Co. 5 miles southwest of Catarina. Measuring point, top of concrete casing, 0.5 foot above land surface. No measurements made in 1943.

S6-4 (*777, p. 198; 840, p. 405; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89; 947, p. 103). O. V. Ray. 1.5 miles southeast of Catarina. Measuring point, top of pump base, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 13, 21.25.

T1-5 (*777, p. 198; 840, p. 405; 845, p. 470; 836, p. 675; 909, p. 115; 939, p. 89; 947, p. 103). Bob Graves. Formerly owned by R. W. Wilson. 2.25 miles east of Valley Wells. Measuring point, top of pipe clamp, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 10, 13.75.

Duval County

55 (*776, p. 96; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). L. N. Garcia. 3.7 miles west of San Diego. Measuring point, top of curb, 2.8 feet above land surface. No measurements made in 1943.

59 (*776, p. 96; 777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Candelario Cuellar. 6 miles west of San Diego. Measuring point, top of pipe clamp, 1 foot above land surface. Measurements discontinued.

61 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Jose M. Sepulveda. 7 miles northwest of San Diego. Measuring point, top of concrete curb, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 36.87.

68 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Cantu Estate. 9 miles west of San Diego. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 49.66.

69 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Juan Peralez. 9 miles west of San Diego. Measuring point, top of casing, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 74.84.

70 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). M. Cantu. 10.4 miles west of San Diego. Measuring point, top of casing, 1 foot above land surface. No measurements made in 1943.

71 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Helena de Pena. 11.2 miles west of San Diego. Measuring point, top of curb, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 27.39.

72 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Cecilio Valerio. 12 miles west of San Diego. Measuring point, top of 4-inch casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 33.51.

73 (*776, p. 98; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Severo Ranjel. 11 miles west of San Diego. Measuring point, top of wood curb, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 31.54.

143 (*776, p. 102; *777, p. 199; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 89). Salidonia Ruiz. In Benavides. Measuring point, top of concrete curb, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 36.70.

144 (*776, p. 102; *777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 90). Pete Coronado. In Benavides. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 35.40.

145 (*776, p. 102; *777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 90). T. Ramirez. In Benavides. Measuring point, top of pump clamp, 6 inches above board cover, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 36.06.

157 (*776, p. 104; *777, p. 200; 840, p. 406; 845, p. 470; 836, p. 675; 909, p. 115; 939, p. 90). Francisco Vaello. 2.5 miles southwest of Benavides. Measuring point, pump clamp, 0.5 foot above top of casing, 0.5 foot above land surface. No measurements made in 1943.

159 (*776, p. 104; 777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 90). Marco Gomez. 1.75 miles southwest of Benavides. Measuring point, pump clamp, 1.25 feet above top of casing, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 92.60.

173 (*776, p. 104; *777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 90). Ismael Garcia Estate. 2.33 miles east of Benavides. Measuring point, top of rock curb, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 46.30.

175 (*776, p. 104; *777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 115; 939, p. 90). Mrs. Tom Cavenaugh. 1 mile east of Benavides. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 40.07.

183 (*776, p. 104; *777, p. 200; 840, p. 406; 845, p. 470; 886, p. 675; 909, p. 116; 939, p. 90). Lazaro Vela. 8 miles south of San Diego. Measuring point, top of pump clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 52.22.

184 (*776, p. 106; *777, p. 200; 840, p. 406; 845, p. 471; 886, p. 675; 909, p. 116; 939, p. 90). Eusebio Alanis. 7.5 miles south-southwest of San Diego. Measuring point, top of opening at well cover, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 39.63.

185 (*776, p. 106; *777, p. 200; 840, p. 406; 845, p. 471; 886, p. 675; 909, p. 116; 939, p. 90). Cervando Saenz. 10 miles south of San Diego. Measuring point, top of curb, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 34.99.

187 (*776, p. 106; *777, p. 200; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Ranchita Anjerlina. 10.5 miles south of San Diego. Measuring point is at land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 42.24.

188 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Encarnacion Pena. 1 mile north of San Jose. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 74.82.

189 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Pedro Lopez. At San Jose. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 61.17.

190 (*776, p. 108; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Margarita Lopez. About 0.5 mile south of San Jose. Measuring point, top of pipe clamp, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 41.37.

201 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Maria Villareal de Saenz. 1.25 miles north of Santa Cruz. Measuring point, top of pipe clamp, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 11, 72.84; Nov. 11, 73.03.

203 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). N. E. Martinez. In Santa Cruz. Measuring point, top of pipe clamp, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Nov. 11, 55.60.

204 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Hilario Saenz. 1 mile south of Santa Cruz. Measuring point, top of pipe clamp, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Nov. 11, 71.27.

207 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Guadalupe Silva Salinas. 2 miles east of Concepcion. Measuring point, top of casing, 1.25 feet above land-surface datum, 1943: Feb. 10, 51.91.

209 (*776, p. 106; *777, p. 201; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). W. S. Evans. In Concepcion. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 38.39.

211 (*776, p. 106; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). J. Perez. 1.33 miles north of Concepcion. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 37.02.

230 (*776, p. 108; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). San Antonio Loan & Trust Co. 3.5 miles south of Realitos. Measuring point, top of pipe clamp, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 63.44.

240 (*776, p. 108; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Gus Minges. 1.5 miles northeast of Realitos. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 92.83.

271 (*776, p. 110; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). J. Mann. 5.5 miles south-southeast of Realitos. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 74.84.

276 (*776, p. 110; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Hermann Dammier. 10.25 miles south of Realitos. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Nov. 9, 37.35.

287 (*776, p. 110; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Virginia J. Ramirez. 4 miles southwest of Concepcion. Measuring point, top of pipe clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 9, 45.75.

289 (*776, p. 110; *777, p. 202; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 90). Adolfo Garcia. 3.75 miles northeast of Sejita. Measuring point, top of pipe clamp, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 43.57.

290 (*776, p. 110; *777, p. 202; 840, p. 406; 845, p. 471; 909, p. 116; 939, p. 91). Andalasia Garcia. Javelina pasture, 3 miles northeast of Sejita. Measuring point, top of pipe clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 49.06.

292 (*776, p. 110; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 91). Raphael Flores. 1 mile east of Sejita. Measuring point, top of pump clamp, 2 feet above land-surface datum. No measurements made in 1943.

297 (*776, p. 110; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 91). San Antonio Loan & Trust Co. 6.5 miles south-southeast of Sejita. Measuring point, top of pipe clamp, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 11, 53.28; Nov. 9, 52.59.

301 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 91). Virginia Garcia. 5 miles south of Concepcion. Measuring point, top of pump clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 54.94.

302 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 116; 939, p. 91). Rafael Garcia. 4.5 miles south of Concepcion. Measuring point, top of pipe clamp, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 35.24.

304 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 117; 939, p. 91). Rafael Garcia. 3 miles south of Concepcion. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 53.81.

315 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 939, p. 91). Reuben Shultz. 6.75 miles south-southwest of Santa Cruz. Measuring point, top of wood pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 11, 51.74; Nov. 9, 42.53.

319 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 939, p. 91). San Antonio Loan & Trust Co. 5.25 miles south-southeast of Santa Cruz. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 11, 32.32; Nov. 11, 35.32.

322 (*776, p. 112; 777, p. 203; 840, p. 406; 845, p. 471; 886, p. 676; 909, p. 117; 939, p. 91). Santana Jinojosa. About 0.75 mile east of La Copita. Measuring point, top of pipe clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 36.76.

El Paso County

8 (*817, p. 331; 840, p. 408; 845, p. 473; *886, p. 678; 909, p. 119; 939, p. 91; 947, p. 103). El Paso Electric Co. well 4. At Santa Fe and Fourth Streets. Measuring point, since June 17, 1942, top of flange coupling, 3,718.82 feet above mean sea level and 6 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	17.37	May 19	19.73	Aug. 20	20.64	Oct. 18	19.37
Mar. 25	18.70	June 15	19.75	Sept. 29	19.37	Nov. 23	19.42
Apr. 27	19.45	July 28	21.00				

9 (*817, p. 331; 840, p. 408; 845, p. 474; 886, p. 678; 909, p. 119; 939, p. 91; 947, p. 103). El Paso Electric Co. well 3. At Santa Fe and Fourth Streets. Measuring point, top of steel pump base, 3,710.06 feet above mean sea level and 0.2 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	12.43	Apr. 27	14.35	June 15	13.12	Oct. 18	14.82
Mar. 25	14.46	May 19	13.58	Sept. 29	15.74	Nov. 23	14.51

10 (*845, p. 474; 886, p. 678; 909, p. 119; 939, p. 92; 947, p. 103). City of El Paso drainage well. At Fourth and Oregon Streets. Measuring point, 3,707.60 feet above mean sea level at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	10.59	May 19	11.83	July 27	14.08	Sept. 27	14.22
Mar. 25	12.27	June 15	11.44	Aug. 20	15.05	Oct. 18	13.21
Apr. 27	12.48						

12 (*817, p. 331; 840, p. 408; 845, p. 474; 886, p. 678; 909, p. 119; 939, p. 92; 947, p. 103). City of Juarez well 1. In Ciudad Juarez, Chihuahua, Mexico, at Municipal Market. Measuring point, top of steel pump base, 3,726.70 feet above mean sea level and at land surface. Water level, in feet below land-surface datum, 1943: June 15, a/ 107.73.

13 (*817, p. 331; 840, p. 408; 845, p. 474; 886, p. 678; 909, p. 119; 939, p. 92; 947, p. 103). City of Juarez well 2. In Ciudad Juarez, Chihuahua, Mexico, at Mariscal and Primera Streets. Measuring point, top of steel pump base, 3,755.83 feet above mean sea level and 0.6 foot above land surface. No measurements made in 1943.

a Pumping.

18 (*817, p. 331; 840, p. 408; 845, p. 474; 886, p. 678; 909, p. 119; 939, p. 92; 947, p. 104). City of Juarez well 3. In Ciudad Juarez, Chihuahua, Mexico, near Hipodromo. Measuring point, top of steel pump base, 3,703.36 feet above mean sea level and 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, a/37.04; Mar. 26, a/40.08; June 15, a/48.38.

19 (*817, p. 332; 840, p. 408; 845, p. 474; 886, p. 678; 909, p. 119; 939, p. 92; 947, p. 104). El Paso Milling Co. At Kansas and Eleventh Streets. Measuring point, top of casing, 3,721.67 feet above mean sea level and 14.6 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan 18, 17.73; Mar. 26, 19.92; June 15, 25.39; Sept. 27, 18.80.

19a (*939, p. 92; 947, p. 104). El Paso Milling Co. well 1. On river bank near Kansas and Eleventh Streets. Measuring point, top of casing, 3,701.19 feet above mean sea level and 4 feet below land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 9.92; Mar. 25, 9.85; June 15, 9.97; Sept. 27, 11.02.

21 (*817, p. 332; 840, p. 409; 845, p. 474; *886, p. 678; 909, p. 119; 939, p. 92; 947, p. 104). City of El Paso well 10. At Campbell and Sixth Streets. Measuring point, hole in pump base, 3,707.45 feet above mean sea level and 1.6 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 18	24.07	July 27	29.80	Oct. 18	28.24
Mar. 23	22.48	Sept. 27	33.2	Nov. 23	25.63

28 (*817, p. 332; 840, p. 409; 845, p. 475; 886, p. 679; 909, p. 120; 939, p. 92; 947, p. 104). Acme Laundry. At 905 East Missouri Street. Measuring point, top of steel pump base, 3,725.62 feet above mean sea level and 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 24, 54.59; June 27, 81.05; July 25, 74.33; Sept. 28, 74.00.

29a (*909, p. 120; 939, p. 92; 947, p. 104). Consumers Ice & Fuel Co. well 2. At Cotton and Dallas Streets. Measuring point, top of eduction pipe coupling on top of steel plate that rests on top of casing, 2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	42.02	May 21	51.63	Aug. 19	53.42	Oct. 18	38.59
Mar. 24	46.40	June 15	53.49	Sept. 27	45.20	Nov. 23	36.55
Apr. 27	50.39	July 27	53.62				

30a (*845, p. 475; *886, p. 679; *909, p. 120; 939, p. 93; 947, p. 104). City of El Paso well 14. At San Antonio and Walnut Streets. Measuring point, top of $\frac{3}{8}$ -inch pipe in pump base, 3,703.99 feet above mean sea level and 1.57 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	a 54.98	May 22	44.33	July 27	a 65.71	Sept. 27	38.27
Mar. 23	a 58.73	June 16	a 66.03	Aug. 19	a 65.74	Oct. 18	a 60.23
Apr. 27	a 63.38						

32a (*886, p. 679; 909, p. 120; 939, p. 93; 947, p. 104). City of El Paso well 17. At San Antonio and Tornillo Streets. Measuring point, top of $\frac{1}{2}$ -inch pipe, 3,706.71 feet above mean sea level and 1.61 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	a 64.89	May 21	a 70.34	Aug. 19	a 71.35	Oct. 18	a 68.15
Mar. 24	a 67.50	June 16	a 71.62	Sept. 27	a 66.74	Nov. 23	32.10
Apr. 27	a 69.69	July 27	a 71.34				

a Pumping.

36 (*817, p. 333; 840, p. 409; 845, p. 475; 886, p. 679; 909, p. 121; 939, p. 93; 947, p. 104). Southern Pacific Railroad Co. At Piedras Street shops. Measuring point, concrete floor of pump house, 3,703.95 feet above mean sea level and 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 24.48; Mar. 23, 31.14; well plugged. Measurements discontinued.

39 (*817, p. 333; 840, p. 409; 845, p. 475; 886, p. 680; 909, p. 121; 939, p. 93; 947, p. 105). Midwest Dairies, Inc. At Piedras and Oro Streets. Measuring point, top of steel pump base, 3,710.24 feet above mean sea level and 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	43.66	May 21	54.04	July 28	55.09	Sept. 27	47.53
Mar. 23	44.70	June 17	55.70	Aug. 19	55.22	Oct. 18	48.79
Apr. 28	51.70						

40 (*817, p. 333; 840, p. 409; 845, p. 475; 886, p. 680; 909, p. 121; 939, p. 93; 947, p. 105). City of El Paso well. At Piedras and Hamilton Streets. Measuring point, top of casing, 3,997.29 feet above mean sea level and 1.50 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	307.48	Apr. 26	307.73	June 17	308.46	Aug. 23	308.82
Mar. 22	307.01	May 20	308.24	July 26	308.09	Sept. 27	308.56

42 (*817, p. 334; 840, p. 410; 845, p. 475; 886, p. 680; 909, p. 121; 939, p. 93; 947, p. 105). City of El Paso well 9. At Luna and Pera Streets. Measuring point, floor of pump house, 3,700.27 feet above mean sea level and at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	29.85	May 21	76.15	Sept. 27	37.02	Nov. 22	29.53
Apr. 27	74.05	June 16	75.36	Oct. 18	40.02		

44 (*817, p. 334; 840, p. 410; 845, p. 476; 886, p. 680; 909, p. 121; 939, p. 93; 947, p. 105). Harry Mitchell Brewing Co. At Travis and Frutas Streets. Measuring point, top of steel pump base, 3,701.44 feet above mean sea level and 0.2 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 24	29.21	Apr. 28	39.69	Aug. 28	38.02
Mar. 27	33.85	June 27	44.61		

48a (*909, p. 121; 939, p. 93; 947, p. 105). City of El Paso well 18. In Hadlock Addition. Measuring point is 3,702.67 feet above mean sea level and 0.83 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	25.81	Apr. 27	76.87	June 16	(a)	Oct. 18	33.44
Mar. 23	30.77	May 19	79.71	Sept. 27	33.21	Nov. 22	27.50

48b (*909, p. 122; 939, p. 93; 947, p. 105). City of El Paso test well 33. Near Franklin Canal. Measuring point, top of 4-inch casing, 3,697.37 feet above mean sea level and 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	19.41	May 19	28.93	Aug. 19	29.27	Oct. 18	23.87
Mar. 23	22.50	June 16	29.38	Sept. 27	24.45	Nov. 22	20.05
Apr. 27	27.55	July 26	28.87				

a Pumping.

49 (#840, p. 410; 845, p. 476; 886, p. 680; 909, p. 122; 939, p. 93; 947, p. 105). City of El Paso well 4. In Montana well field. Measuring point, top of steel pump base, 3,744.06 feet above mean sea level and 0.3 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	70.54	May 21	142.85	Aug. 19	142.93	Oct. 20	76.08
Mar. 23	76.10	June 17	143.45	Sept. 27	73.89	Nov. 23	71.65
Apr. 26	141.07	July 21	142.93				

50 (#840, p. 410; 845, p. 476; 886, p. 680; 909, p. 122; 939, p. 94; 947, p. 105). City of El Paso well 1. In Montana well field. Measuring point, top of brass pipe, 3,767.38 feet above mean sea level and 1.18 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	93.67	May 21	112.87	Aug. 19	112.50	Oct. 20	97.68
Mar. 23	96.76	June 17	113.41	Sept. 27	101.44	Nov. 23	93.72
Apr. 26	110.09	July 21	112.32				

51 (#817, p. 334; 840, p. 410; 845, p. 476; 886, p. 680; 909, p. 122; 939, p. 94; 947, p. 105). City of El Paso well 2. In Montana well field. Measuring point, floor of pump house, 3,772.37 feet above mean sea level and 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	98.38	May 21	120.37	Aug. 19	121.33	Oct. 20	103.78
Mar. 23	104.63	June 17	120.91	Sept. 27	106.77	Nov. 23	99.86
Apr. 26	117.89	July 21	120.33				

52 (#817, p. 334; 840, p. 410; 845, p. 476; #886, p. 680; #909, p. 122; 939, p. 94; 947, p. 106). City of El Paso well 3. In Montana well field. Measuring point, top of $\frac{1}{2}$ -inch pipe, 3,783.56 feet above mean sea level and 3.36 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	107.79	May 21	144.86	Aug. 19	145.23	Oct. 20	112.62
Mar. 23	112.71	June 17	145.43	Sept. 27	115.74	Nov. 23	108.06
Apr. 26	142.90	July 21	144.49				

53 (#817, p. 335; 840, p. 410; 845, p. 476; 886, p. 681; 909, p. 122; 939, p. 94; 947, p. 106). Loretto College. At Clifton and Reynolds Streets. Measuring point, top of eduction pipe, 3,811.25 feet above mean sea level and 4.14 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	133.07	June 17	152.69	Aug. 26	152.71	Oct. 20	141.82
Mar. 23	141.74	July 21	152.33	Sept. 27	14.77	Nov. 23	138.46
Apr. 26	150.16						

55 (#817, p. 335; 840, p. 411; 845, p. 476; 886, p. 631; 909, p. 122; 939, p. 94; 947, p. 106). Texas Co. 0.6 mile northeast of Ascarate. Measuring point, top of steel pump base, 3,717.87 feet above mean sea level, and 2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	43.32	May 19	51.90	Aug. 19	52.81	Oct. 20	48.05
Mar. 26	48.66	June 17	51.00	Sept. 27	47.80	Nov. 23	45.09
Apr. 26	50.40	July 27	51.06				

58. Pasotex Petroleum Co. well 3. 620 feet east and 490 feet south of the intersection of Wamble Boulevard and Texas Avenue. Diameter 12 to 10 inches, depth 605 feet. Measuring point, base plate to pump below flange, 3,729.72 feet above mean sea level, and 1.58 feet below land surface.

Water level, in feet below land-surface datum, 1937-38, 1943

Date	Water level	Date	Water level	Date	Water level
Mar. 22, 1937	63.69	June 1938	26.49	June 22, 1943	67.02
Nov. 8	63.63	Mar. 26, 1943	14.08	Sept. 30	61.97

a Pumping.

59 (#947, p. 106). Phelps-Dodge Refining Corporation well 1. 933 feet east of branch of Southern Pacific Railroad and 1,463 feet north of North Loop Road. Measuring point, floor of pump house, 3,739.75 feet above mean sea level at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 19, 70.15; Mar. 26, 75.80; June 23, 83.29; Sept. 30, 79.64.

59a (#947, p. 106). Phelps-Dodge Refining Corporation well 2. Near well 59. Measuring point, top of 2-inch casing, 3,735.15 feet above mean sea level and 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 25, 68.40; Mar. 27, 65.54; June 22, 71.45; Sept. 29, 65.65.

64 (#317, p. 335; 840, p. 411; 845, p. 477; 886, p. 631; 909, p. 122; 939, p. 94; 947, p. 106). City of El Paso and Geological Survey test well 1. On Carlsbad Highway. Measuring point, top of 2-inch casing, 3,942.88 feet above mean sea level, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	263.49	May 20	264.79	Aug. 23	265.05	Oct. 21	265.19
Mar. 22	264.69	June 19	265.03	Sept. 29	265.26	Nov. 29	234.89
Apr. 26	264.35	July 21	265.13				

67b (#845, p. 477; 886, p. 681; 909, p. 123; 939, p. 94; 947, p. 106). Texas & New Orleans Railroad Co. well 3. Near south entrance to Fort Bliss. Measuring point, bottom of elbow in eduction pipe, 3,838.60 feet above mean sea level and 1.83 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	222.50	May 20	227.39	Aug. 23	230.86	Oct. 21	224.13
Mar. 22	220.82	June 19	230.96	Sept. 29	218.35	Nov. 29	213.69
Apr. 26	225.31	July 21	227.90				

72 (#817, p. 335; 840, p. 411; 845, p. 477; 886, p. 631; 909, p. 123; 939, p. 94; 947, p. 107). United States War Department, Fort Bliss well 2. Measuring point, top of elevated tank, 3,898.14 feet above mean sea level and 14 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	229.27	May 20	233.45	Aug. 26	245.05	Oct. 23	228.58
Mar. 22	224.53	June 22	232.51	Sept. 28	229.83	Nov. 29	231.88
Apr. 24	239.97	July 21	237.60				

75b (#845, p. 477; 886, p. 681; 909, p. 123; 939, p. 95; 947, p. 107). City of El Paso test well 10. 0.6 mile south of Wilson Road and 0.6 mile west of Airport Road. Measuring point, top of casing, 3,880.15 feet above mean sea level and 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	214.22	Apr. 24	214.40	July 21	215.15	Oct. 21	214.20
Feb. 1	214.15	May 20	214.93	Aug. 25	216.38	Nov. 24	217.60
Mar. 22	213.85	June 22	215.90	Sept. 29	217.60		

75d (#909, p. 123; 939, p. 95; 947, p. 107). City of El Paso well 19. On Airport Road, 0.6 mile south of Wilson Road. Measuring point, floor of pump house, 3,908.41 feet above mean sea level and 0.75 foot above land surface. Water levels, in feet below land-surface datum, 1943: Oct. 21, 245.34; Nov. 29, 242.97.

76 (#817, p. 336; 840, p. 411; 845, p. 478; 886, p. 681; 909, p. 123; 939, p. 95; 947, p. 107). City of El Paso and Geological Survey test well 2. Near southeast corner of Biggs Field. Measuring point, top of 2-inch coupling, 3,919.40 feet above mean sea level, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	243.08	May 20	245.92	Aug. 23	249.20	Oct. 21	247.25
Mar. 22	244.46	June 19	248.59	Sept. 29	248.40	Nov. 29	244.61
Apr. 26	244.99	July 21	248.07				

77 (*817, p. 336; 840, p. 411; 845, p. 478; 886, p. 681; 909, p. 123; 939, p. 95; 947, p. 107). City of El Paso well 12. In Mesa well field. Measuring point, top of brass coupling, 3,882.78 feet above mean sea level and 3 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan.	(a)	Apr. 26	225.30	July 26	227.34	Oct. 21	220.02
Mar. 22	223.48	June 25	231.79	Sept. 29	222.62	Nov. 29	218.70

77b (*845, p. 478; *886, p. 681; 909, p. 123; 939, p. 94; 947, p. 107). City of El Paso well 15. At Wilson and Airport Roads. Measuring point, top of coupling, 3,894.74 feet above mean sea level and 4.85 feet below land surface. Water level, in feet below land-surface datum, 1943: July 19, 240.55.

78 (*886, p. 682; 909, p. 123; 939, p. 95; 947, p. 107). City of El Paso well 11. In Mesa well field. No measurements made in 1943.

78c (*845, p. 478; 886, p. 682; 909, p. 124; 939, p. 95; 947, p. 107). City of El Paso test well 4. 1 mile north of city well 11. Measuring point, top of coupling, 3,874.14 feet above mean sea level and 4.3 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	193.37	May 20	194.10	Aug. 24	194.77	Oct. 22	194.32
Mar. 22	193.50	June 18	194.80	Sept. 29	194.27	Nov. 24	194.56
Apr. 26	193.76	July 21	194.45				

79 (*845, p. 478; *886, p. 682; 909, p. 124; 939, p. 95; 947, p. 107). City of El Paso well 8. In Mesa well field. Measuring point, top of brass pipe, 3,871.68 feet above mean sea level and 0.78 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 20	(a)	Sept. 29	210.05	Nov. 29	209.19
July 26	215.29	Oct. 21	209.85		

82a (*939, p. 93; 947, p. 107). City of El Paso test well 20. 1 mile north of Mesa well field. Measuring point, top of 3/8-inch brass pipe in pump base, 3,875.58 feet above mean sea level and 0.77 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	272.40	May 20	277.77	Aug. 24	279.04	Oct. 22	272.51
Mar. 22	274.32	June 18	279.32	Sept. 28	210.16	Nov. 24	272.86
Apr. 26	276.93	July 21	276.61				

112 (*817, p. 336; 840, p. 412; 845, p. 479; 886, p. 682; 909, p. 124; 939, p. 95; 947, p. 108). City of El Paso old Mesa well 32. In Mesa well field. Measuring point, top of cap on casing, 3,870.60 feet above mean sea level and 0.89 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	215.37	May 20	214.26	Aug. 23	213.90	Oct. 21	206.88
Mar. 22	209.16	July 26	211.05	Sept. 29	207.20	Nov. 24	209.16
Apr. 26	209.84						

128b (*939, p. 96; 947, p. 108). City of El Paso well 21. 2 miles north of Mesa well field. Measuring point, top of 3/8-inch brass pipe in pump base, 3,881.42 feet above mean sea level and 1.02 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	202.38	May 20	253.75	Aug. 25	250.73	Oct. 22	249.47
Mar. 22	251.89	June 18	253.65	Sept. 28	249.44	Nov. 24	249.59
Apr. 26	252.74	July 21	250.88				

a Pumping.

128c (*886, p. 682; 909, p. 124; 939, p. 96; 947, p. 108). City of El Paso test well 23. 2.5 miles north of Mesa well field. Measuring point, top of 4-inch casing, 3,882.28 feet above mean sea level and 0.67 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	196.16	May 20	198.64	Aug. 23	198.13	Oct. 22	198.31
Mar. 22	197.21	June 18	197.97	Sept. 28	198.34	Nov. 24	198.67
Apr. 26	197.43	July 21	198.02				

130 (*840, p. 412; 845, p. 479; 909, p. 124; *939, p. 96; 947, p. 108). G. T. Cook. At Sunrise Acres. 2.9 miles north of Wilson Road. Measuring point, top of $\frac{3}{4}$ -inch coupling, 3,937.84 feet above mean sea level and 1.49 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Jan. 22	250.59	Apr. 27	252.29	June 23	252.87	Oct. 28	253.31
Mar. 29	252.11	May 20	252.75	Aug. 25	253.23		

136 (*817, p. 339; 840, p. 412; 845, p. 479; 886, p. 682; 909, p. 124; 939, p. 96; 947, p. 103). City of El Paso and Geological Survey test well 3. 6.9 miles north of Wilson Road. Measuring point, top of pipe, 3,944.11 feet above mean sea level, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	245.55	Mar. 22	245.77	June 19	245.93	Sept. 28	246.05
	31	Apr. 24	245.79	July 21	245.97	Oct. 22	245.92
Feb. 23	245.42	May 20	245.73	Aug. 23	245.93	Nov. 24	245.97

139a (*909, p. 125; 939, p. 96; 947, p. 108). City of El Paso test well 29. 9 miles north of Mesa well field. Measuring point, top of 4-inch casing, 4,047.22 feet above mean sea level, and 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	336.81	May 20	337.05	July 21	337.10	Sept. 30	337.13
Mar. 22	337.00	June 23	337.00	Aug. 30	336.95	Oct. 28	336.97
Apr. 24	336.95						

143a (*909, p. 124; 939, p. 96; 947, p. 103). City of El Paso test well 30. 12 miles north of Mesa well field, and about 8 miles west of Newman, N. Mex. Measuring point, top of 4-inch casing, 4,042.39 feet above mean sea level, and 1.2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	317.71	May 20	317.95	July 21	317.83	Sept. 30	317.92
Mar. 22	317.90	June 23	317.80	Aug. 30	317.70	Oct. 28	317.73
Apr. 24	317.83						

160 (*947, p. 109). Ysleta Jesuit College. 3.75 miles east of Phelps-Dodge Refining Corporation and about 4 miles north of Ysleta. Measuring point, pump house floor, 3,736 feet above mean sea level, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 22, 65.42.

166 (*947, p. 109). Civilian Conservation Corps camp. 2 miles north-northeast of Ysleta. Measuring point, top of concrete pump base, 3,734.3 feet above mean sea level and 0.91 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 22, 77.08.

Floyd County

5 (*840, p. 413; 845, p. 480; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). M. C. Scheele. SW corner SE $\frac{1}{4}$ sec. 127, blk. D2, 11 miles northwest of Lockney. Measuring point, top of air-line hole in pump base, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 52.60.

14 (*340, p. 413; 845, p. 430; 909, p. 126; 939, p. 97; 947, p. 110). Herman R. King. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, blk. C9, 10 miles north of Lockney. Measuring point, top of casing, 5.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 55.61.

32 (*840, p. 413; 845, p. 480; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Frank Whitfill. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, blk. C9, 9 miles north of Lockney. Measuring point, top of concrete pump base, west side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 89.95.

57 (*840, p. 413; 845, p. 480; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). T. L. Wilhite. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 87, blk. D2, 7.5 miles northwest of Lockney. Measuring point, top of cast iron foundation, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 62.20.

106 (*840, p. 413; 845, p. 480; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Texas Land & Development Co. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 65, blk. D2, 6 miles northwest of Lockney. Measuring point, top edge of steel pump base, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 59.43.

103 (*845, p. 480; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Texas Land & Development Co. NW corner SE $\frac{1}{4}$ sec. 65, blk. D2, 6.5 miles northwest of Lockney. Measuring point, top of 1 $\frac{1}{2}$ -inch air-line hole in west side of pump, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 58.64.

111 (*840, p. 414; 845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Texas Land & Development Co. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 65, blk. D2, 6.5 miles northwest of Lockney. Measuring point, top edge of steel pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 54.39.

112 (*840, p. 414; 845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Texas Land & Development Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, blk. D5, 7 miles northwest of Lockney. Measuring point, top of concrete pump base, south side, 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 53.24.

120 (*845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Francis Carthel. NW corner NW $\frac{1}{4}$ sec. 1, blk. D5, 4.5 miles northwest of Lockney. Measuring point, top of 1 $\frac{1}{2}$ -inch air-line hole in east side of pump, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 60.02.

124 (*840, p. 414; 845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Rosa Lee Carthel. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 50, blk. D2, 3.5 miles northwest of Lockney. Measuring point, top of concrete curb, 0.7 foot above land surface. No measurements made in 1943.

139 (*840, p. 414; 845, p. 481; 947, p. 110). Texas Land & Development Co. SE corner SE $\frac{1}{4}$ sec. 2, blk. D5, 3 miles northwest of Lockney. Measuring point, top of heavy timber across well, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 63.36.

140 (*845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 110). Texas Land & Development Co. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, blk. D5, 3.5 miles northwest of Lockney. Measuring point, top of steel pump base, west side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 55.64.

143 (*840, p. 414; 845, p. 481; 886, p. 683; 909, p. 126; 939, p. 97; 947, p. 111). Plainview-Lockney Farms. SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, blk. D5, 5 miles northwest of Lockney. Measuring point, top of concrete foundation, east side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 63.19.

150 (*840, p. 414; 845, p. 481; 886, p. 684; 909, p. 126; 939, p. 97; 947, p. 111). M. S. Gholson. NW corner NW $\frac{1}{4}$ sec. 14, blk. D5, 7 miles northwest of Lockney. Measuring point, bottom edge of pump base, east side, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 45.70; July 20, 45.94.

153 (*840, p. 415; 845, p. 481; 886, p. 684; 909, p. 126; 939, p. 97; 947, p. 111). E. C. Morrow. SW corner NW $\frac{1}{4}$ sec. 15, blk. D5, 6.5 miles west of Lockney. Measuring point, top of concrete foundation, east side, which is 0.3 foot below pump base and 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 53.39.

157 (*840, p. 415; 845, p. 482; 886, p. 684; 909, p. 126; 939, p. 97; 947, p. 111). Texas Land & Development Co. NW corner NW $\frac{1}{4}$ sec. 10, blk. D5, 6 miles west of Lockney. Measuring point, top of steel pump base, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 55.18.

161 (*840, p. 415; 845, p. 482; 886, p. 684; 909, p. 127; 939, p. 97; 947, p. 111). Texas Land & Development Co. SW corner NE $\frac{1}{4}$ sec. 10, blk. D5, 5.5 miles west of Lockney, 0.5 mile northwest of Aiken. Measuring point, bottom of steel pump base, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 61.26.

326 (*947, p. 111). W. C. Sims. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 68, blk. 1, 2 miles east of Floydada. Measuring point, top of concrete well curb, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 148.08; July 20, 148.08.

401 (*840, p. 415; 845, p. 482; 886, p. 684; 909, p. 127; 939, p. 97; 947, p. 111). George Whitfield. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 39, blk. D6, 6.5 miles west of Lockney, and 0.5 mile east of Floyd-Hale county line. Measuring point, top of concrete curb, east side, 0.5 foot above land-surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 58.17.

409 (*840, p. 415; 845, p. 482; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). Texas Land & Development Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, blk. N, 5 miles west of Lockney. Measuring point, top of concrete foundation, middle of south side, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 53.18.

410 (*845, p. 482; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). W. C. McGrede. SW corner W $\frac{1}{2}$ sec. 44, blk. D6, 5.5 miles west of Lockney. Measuring point, bottom edge of large opening in side of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 49.43.

414 (*845, p. 482; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). Mrs. Harriet B. Robbins. NW corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 46, blk. D6, 4.5 miles west of Lockney. Measuring point, top of steel pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 62.47.

416 (*845, p. 482; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). Johnnie Spears. NW corner NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. D6, 4.5 miles west of Lockney. Measuring point, lower edge of discharge pipe, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 62.63.

421 (*840, p. 415; 845, p. 482; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). W. W. Cooper. NW corner NW $\frac{1}{4}$ sec. 48, blk. D6, 3.5 miles west of Lockney. Measuring point, top edge of steel pump base, south side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 61.33.

428 (*845, p. 483; 886, p. 684; 909, p. 127; 939, p. 98; 947, p. 111). Texas Land & Development Co. NW corner F. Griggs survey, 3.5 miles southwest of Lockney. Measuring point, bottom edge of end of discharge pipe, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 50.59.

435 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). Home Owners' Loan Corporation. Center of L. C. Reed survey, at crossing of Burlington & Santa Fe Railways, in southwest part of Lockney. Measuring point, top of concrete curb, west side, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 62.53.

436 (*840, p. 416; 845, p. 483; 909, p. 127; 939, p. 98; 947, p. 112). Owner unknown. On south side of U. S. Highway 70, 400 feet southeast of railroad depot in Lockney. Measuring point, top of wooden pipe clamp, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 47.69.

- 437 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). Lockney Oil Mill Co. On north side of Panhandle & Santa Fe Railway. Measuring point, top of concrete curb, west side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 52.97.
- 439 (*845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). O. J. Schacht. NW. corner W. F. Smith survey, 3 miles west of Lockney. Measuring point, bottom edge of end of discharge pipe, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 53.40.
- 441 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). Federal Land Bank. NW. corner NW $\frac{1}{4}$ sec. 50, blk. D3, 2 miles northeast of Lockney. Measuring point, top of concrete curb, east side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 62.67.
- 442 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). Solon Clements. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 51, blk. D3, 2 miles east of Lockney. Measuring point, top of 2- by 6-inch board curb, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 26.16.
- 446 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 127; 939, p. 98; 947, p. 112). W. J. King. NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 68, blk. G, 2.5 miles southeast of Lockney. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 41.72.
- 459 (*840, p. 416; 845, p. 483; 886, p. 685; 909, p. 128; 939, p. 98; 947, p. 112). Texas Land & Development Co. SW. corner M. Y. Price survey, 5.5 miles southwest of Lockney. Measuring point, top edge of steel pump base, 0.4 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 47.95; July 20, 51.93.
- 463 (*840, p. 417; 909, p. 128; 939, p. 98; 947, p. 112). Texas Land & Development Co. NW. corner NW $\frac{1}{4}$ sec. 14, blk. N, 6 miles west of Lockney. Measuring point, top of steel pump base, west side, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 48.94.
- 467 (*840, p. 417; 845, p. 484; 886, p. 685; 909, p. 128; 939, p. 98; 947, p. 112). C. J. Barnard. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, blk. N, 8 miles southwest of Lockney. Measuring point, top of concrete foundation, south side, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 36.90.
- 472 (*845, p. 484; 886, p. 685; 909, p. 128; 939, p. 99; 947, p. 112). Texas Land & Development Co. NW. corner J. K. Andrews survey, 5.5 miles southwest of Lockney. Measuring point, top edge of steel plate, base of pump, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 47.10; July 20, 50.91.
- 486 (*840, p. 417; 845, p. 484; 886, p. 685; 909, p. 128; 939, p. 99; 947, p. 112). Mrs. M.E. Morris. SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 53, blk. G, 5.5 miles southeast of Lockney. Measuring point, top of concrete curb, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 30.12.
- 509 (*840, p. 417; 845, p. 484; 886, p. 685; 909, p. 128; 939, p. 99; 947, p. 112). S. H. Boon. North end of C. H. Johnson survey, 8.5 miles south of Lockney. Measuring point, top of 8-inch pipe collar, north side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 41.18.
- 510 (*840, p. 417; 845, p. 484; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 112). L. D. Pope. North end of J. R. Powell survey, 8 miles southwest of Lockney. Measuring point, top of hole in pump base, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 40.70.

519 (*840, p. 417; 845, p. 484; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 112). J. L. Faulkner. NE. corner SW $\frac{1}{4}$ sec. 44, blk. G, 7.5 miles west of Floydada. Measuring point, top of 4- by 4-inch wooden pipe clamp, 0.8 foot above land-surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 50.63.

523 (*909, p. 128; 939, p. 99; 947, p. 113). C. F. Harris. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 41, blk. G, 7.5 miles northwest of Floydada. Measuring point, top of 1 $\frac{1}{2}$ -inch hole in flange on column pipe of submersible pump, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 55.97.

525 (*840, p. 418; 845, p. 484; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 113). W. Fry. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 52, blk. G, 5.5 miles south of Lockney. Measuring point, top of concrete curb, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 36.84; July 20, 36.75.

528 (*840, p. 418; 845, p. 484; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 113). Mrs. Maud Hollums. SW. corner SW $\frac{1}{4}$ sec. 82, blk. G, 5 miles northwest of Floydada. Measuring point, top of steel casing, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 49.00.

529 (*840, p. 418; 845, p. 484; 886, p. 686; 909, p. 128; 947, p. 113). Panhandle & Santa Fe Railway Co. SW. corner SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 63, blk. 1, 2 miles northwest of Floydada. Measuring point, top of wooden pipe clamp, west side, 2.35 feet below land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 113.27.

533 (*840, p. 418; 845, p. 484; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 113). Martin heirs. In Floydada, at West Kentucky and Fourth Streets. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 122.28.

562 (*840, p. 418; 886, p. 686; 909, p. 128; 939, p. 99; 947, p. 113). H. W. Carver. NW $\frac{1}{4}$ J. A. Huckabee survey, 7 miles south of Floydada. Measuring point, top of casing, 3.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 23, 132.37.

603 (*840, p. 418; 845, p. 435; 886, p. 686; 909, p. 129; 939, p. 99; 947, p. 113). Gladys Fox. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 86, blk. 1, 5.5 miles east of Floydada. Measuring point, top of iron pipe clamp, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 175.53; July 20, 175.45.

605 (*840, p. 419; 886, p. 686; 909, p. 129; 939, p. 99; 947, p. 113). W. B. Jones. NW. corner SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 106, blk. 1, 10.5 miles east of Floydada. Measuring point, top of wooden pipe clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 29, 207.00; July 20, 215.30.

Fort Bend County

6 (*909, p. 129; 939, p. 99; 947, p. 113). P. V. Cook. 6 miles southwest of Katy. Measuring point, lower edge of end of discharge pipe, 6.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 59.35.

7 (*909, p. 129; 939, p. 99; 947, p. 113). C. G. Cardiff. 4 miles south-southwest of Katy. Measuring point, top of 1-inch hole in pump base, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 60.60; Nov. 8, 66.00.

11 (*909, p. 129; 939, p. 99; 947, p. 113). P. V. Cook. 1.75 miles south-southwest of Katy. Measuring point, lower edge of end of discharge pipe, 6.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 50.45; Nov. 8, 55.74.

15 (*909, p. 130; 939, p. 99; 947, p. 113). P. V. Cook. 3.25 miles south-southwest of Katy. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 59.05; Nov. 8, 63.61.

16 (*909, p. 130; 939, p. 100; 947, p. 113). C. C. Cardiff. 5 miles southwest of Katy. Measuring point, top of tin cover over well, 0.5 foot above land surface. Measurements discontinued.

17. Mrs. H. L. Gordon. 5 miles south of Katy. Used drilled rice irrigation well, diameter 24 inches, depth 586 feet. Measuring point, top of hole in pump base, 0.7 foot above land surface. Equipped with deep-well turbine pump.

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
Oct. 1, 1940	60.65	Jan. 19, 1942	52.48	Sept. 21, 1942	56.52
24, 1941	54.59	Mar. 17	51.88	Nov. 8, 1945	56.94

19 (*909, p. 130; 939, p. 100; 947, p. 113). R. Robertson. 4.75 miles south of Katy. Measuring point, lower edge of end of discharge pipe, 5.0 feet above land surface. Measurements discontinued.

20 (*909, p. 130; 939, p. 100; 947, p. 114). L. Pauli. 5.75 miles south-southeast of Katy. Measuring point, top of casing, 2.6 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 33.85; Nov. 8, 42.34.

21 (*909, p. 130; 939, p. 100; 947, p. 114). L. Pauli. 6 miles south of Katy. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 42.96; Nov. 8, 48.00.

26 (*909, p. 130; 939, p. 100; 947, p. 114). C. Pillot. 10 miles southeast of Katy. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 28.90; Nov. 8, 33.24.

29. C. Pillot. Owner's well 2. 9 miles southeast of Katy. Used drilled rice irrigation well, diameter 20 inches, casing slotted opposite sands between 85 and 500 feet. Measuring point, end of discharge pipe, 2.8 feet above land surface. Equipped with turbine pump. Water levels, in feet below land-surface datum: Oct. 1, 1940, 34.85; Mar. 11, 1941, 29.92; Mar. 17, 1942, 28.20; Apr. 12, 1943, 28.65.

30. B. Ray Woods. Owner's well 2. 6.5 miles southwest of Katy. Used drilled irrigation well, diameter 16 inches, casing slotted opposite sands between 74 and 331 feet. Measuring point, top of hole in concrete floor, 0.2 foot above land surface. Equipped with turbine pump.

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1940	69.07	Jan. 19, 1942	65.51	Apr. 13, 1943	64.52
Jan. 1, 1941	67.24	Mar. 17	65.21	Nov. 9	66.56
Oct. 27	66.53	Sept. 23	66.05		

33 (*909, p. 130; 939, p. 100; 947, p. 114). Earl McMillian. 3.5 miles southwest of Katy. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 60.05; Nov. 8, 64.18.

50 (*909, p. 131; 939, p. 100; 947, p. 114). Fort Bend Utilities Co. well 6. At Sugarland. Measuring point, top of 1-inch hole in top of pump base, 4 feet above land surface. Measurements discontinued.

53 (*909, p. 131; 939, p. 100; 947, p. 114). Fort Bend Utilities Co. well 4. At Sugarland. Measuring point, top of iron plate under board cover, 2 feet above land surface. Measurements discontinued.

54 (*909, p. 131; 939, p. 100; 947, p. 114). Fort Bend Utilities Co. well 3. At Sugarland. Measuring point, top of base plate on pump, 1.0 foot above land surface. Measurements discontinued.

75 (*909, p. 131; 939, p. 100; 947, p. 114). Gulf Pipe Line Co. 10 miles east-southeast of Sugarland. Measuring point, top of 4-inch hole inside of tee on casing, 2.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 22, 56.76; June 22, 56.80.

76 (*909, p. 131; 939, p. 100; 947, p. 114). About 0.5 mile west of Blue Ridge prison. Measuring point, top of air line, 2.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 22, 33.40; June 22, 33.56; Sept. 13, 34.38; Sept. 14, 34.40.

Gaines County

2 (*840, p. 419; 845, p. 487; 909, p. 132; 939, p. 100)*. Carrol Cobb. SW $\frac{1}{4}$ sec. 20, blk. A21, P. S. L., 7.4 miles south of Seminole. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 55.75.

6a (*886, p. 687; 909, p. 132; 939, p. 100). Owner unknown. NW $\frac{1}{4}$ sec. 160, blk. G, 1.4 miles south of Seminole. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 40.87.

Galveston County

3 (*777, p. 204; 840, p. 420; 886, p. 688; 909, p. 132; 939, p. 101; 947, p. 114). Mrs. A. Voss. 5.75 miles west of League City. Measuring point, pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 36.52.

11 (*886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). A. A. Davis. In Friendswood. Measuring point, top of $\frac{1}{2}$ -inch valve, 2.8 feet above land surface. Measurements discontinued.

16 (*886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). Cecil Brown. In Friendswood. Measuring point, top of pump base, 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 6, 66.15.

28 (*777, p. 204; 886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). Galveston, Houston & Henderson Railroad. In League City. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 66.09.

42 (*886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). J. Freund. In Kemah. Measuring point, top of 2-inch tee, 2.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 47.90.

105 (*777, p. 204; 840, p. 420; 845, p. 488; 886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). H. E. Newell. 5 miles north of Alta Loma. Measuring point, top of casing, at land surface. Measurements discontinued.

112 (*777, p. 204; 840, p. 420; 845, p. 488; 886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). Galveston, Houston & Henderson Railroad. In Dickinson. Measuring point, top of casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 69.16.

113 (*777, p. 204; 840, p. 420; 845, p. 488; 886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). E. Menotti. 7 miles northeast of Alta Loma. Measuring point, top of pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 38.41.

115 (*777, p. 204; 840, p. 420; 845, p. 488; 886, p. 688; 909, p. 133; 939, p. 101; 947, p. 114). J. W. Palmer. 6 miles northeast of Alta Loma. Measuring point, top of air line, 4.25 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 5, 45.23.

142 (*886, p. 689; 909, p. 133; 939, p. 101; 947, p. 114). Maco Stewart. 2.75 miles west of League City. Measuring point, top of 4-inch casing, 2.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 4, 75.44.

206 (*777, p. 205; 840, p. 421; 845, p. 488; 886, p. 689; 909, p. 133; 939, p. 101; 947, p. 115). A. J. Biran. 3.5 miles west of Texas City. Measuring point, hole under 1-inch pipe, 11 inches above top of casing, 0.9 foot above land surface. Measurements discontinued.

244 (*886, p. 689; 909, p. 134; 939, p. 101; 947, p. 115). Stone Oil Co. In Texas City. Measuring point, top of $\frac{1}{2}$ -inch pipe in top, 3.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 12, 101.59; Aug. 16, a/ 117.55.

a Nearby well pumping.

295 (*886, p. 689; 909, p. 134; 939, p. 101; 947, p. 115). Atchison, Topeka & Santa Fe Railway Co. In Hitchcock. Measuring point, top of 8-inch casing, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 5, 61.76.

381 (*886, p. 689; 909, p. 134; 939, p. 101; 947, p. 115). Stewart Production Co. 3 miles southeast of Hitchcock. Measuring point, top of 1-inch air-line tee, 4.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 5, 55.59.

619 (*886, p. 689; 909, p. 134; 939, p. 101; 947, p. 115). Phenix Dairy. 4 miles northwest of Alta Loma. Measuring point, hole drilled in pump base, 0.3 foot above land surface. No measurements made in 1943.

688 (*939, p. 101; 947, p. 115). City of Galveston test well 1. In Alta Loma. Measuring point, top of casing, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 5, 86.62.

689 (*939, p. 101; 947, p. 115). City of Galveston test well 2. 2.5 miles northeast of Alta Loma. Measuring point, top of casing, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 5, 78.87; Dec. 28, 82.18.

691 (*939, p. 101; 947, p. 115). City of Galveston test well 3-A. In Hitchcock. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 5, 58.59.

692 (*939, p. 101; 947, p. 115). Carbide & Carbon Chemical Co. test well 1. 3 miles southwest of Texas City. Measuring point, top of casing, 2.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 17, 70.18.

Guadalupe County

316 (*840, p. 422; 845, p. 489; 886, p. 690; 909, p. 135; 939, p. 102; 947, p. 115). Joe Gleitz. 400 feet north of U. S. Highway 81, 0.1 mile east of Guadalupe-Bexar county line. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 105.70; Sept. 3, 110.24; Dec. 21, 110.41.

317 (*840, p. 422; 845, p. 489; 836, p. 690; 909, p. 135; 939, p. 102; 947, p. 115). Joe Gleitz. 20 feet south of well 316. Measuring point, top of steel casing, 0.7 foot above land surface. Measurements discontinued.

Hale County

11 (*840, p. 422; 845, p. 490; 886, p. 690; 909, p. 136; 939, p. 102; 947, p. 115). S. C. Hutchinson. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, blk. S1, 16 miles north of Hale Center. Measuring point, top of 1- by 4-inch pipe clamp, northeast side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 37.74.

15 (*939, p. 102; 947, p. 115). S. C. Hutchinson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. S1, 15 miles northwest of Hale Center. Measuring point is 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 58.28; July 20, 57.98.

16a (*947, p. 115). L. W. Guthrie. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, blk. S1, 15 miles northeast of Hale Center. Measuring point, top of 4- by 4-inch timber pipe clamp, 0.8 foot above land surface. No measurements made in 1943.

17a (*947, p. 116). L. W. Guthrie. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, blk. S1, 15.5 miles northeast of Hale Center. Measuring point, top of concrete well curb, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 58.15.

36 (*840, p. 423; 845, p. 490; 909, p. 136; 939, p. 102; 947, p. 116). G. D. Lewellen. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, blk. 06, 12.5 miles northwest of Hale Center. Measuring point, top of hole in pump base, northeast corner, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 77.34.

- 103 (*840, p. 423; 845, p. 490; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). Carl Meyer. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, blk. C4, 16 miles north of Hale Center. Measuring point, top of concrete curb, east side, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 44.33.
- 105 (*840, p. 423; 845, p. 490; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). Texas Land & Development Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, blk. 31, 14 miles north of Hale Center. Measuring point, top of concrete foundation, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 48.80.
- 115 (*840, p. 423; 845, p. 490; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). H. L. Gunter. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, blk. JK, 13.5 miles north of Hale Center. Measuring point, top of concrete foundation, west side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 54.64.
- 123 (*840, p. 424; 845, p. 490; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). L. C. Wayland. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, blk. JK, 11 miles north of Hale Center. Measuring point, top of I-beam across north side of pit, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 18, 61.60.
- 124b (*947, p. 116). Lester James. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. JK4, 9.5 miles north of Hale Center. Measuring point, top of concrete well curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 70.44.
- 125 (*840, p. 424; 845, p. 490; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). E. E. Clark. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, blk. JK4, 10 miles northwest of Hale Center. Measuring point, top of 4- by 4-inch wooden pipe clamp, 1.0 foot above land surface. No measurements made in 1943.
- 202 (*840, p. 424; 845, p. 491; 886, p. 691; 909, p. 136; 939, p. 102; 947, p. 116). Texas Land & Development Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, blk. C3, 17 miles north of Hale Center. Measuring point, top of square steel plate, north side of pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 65.44.
- 206 (*840, p. 424; 845, p. 491; 886, p. 691; 909, p. 136; 939, p. 103; 947, p. 116). Texas Land & Development Co. Just east of Richard William survey, 18 miles north of Hale Center. Measuring point, top of concrete foundation, west side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 70.56.
- 208 (*845, p. 491; 886, p. 691; 909, p. 136; 939, p. 103; 947, p. 116). Texas Land & Development Co. SW $\frac{1}{4}$ J. P. Lattimore survey, 17.5 miles northeast of Hale Center. Measuring point, top of square steel plate, base of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 65.11.
- 210 (*840, p. 425; 845, p. 491; 886, p. 692; 909, p. 136; 939, p. 103; 947, p. 116). Texas Land & Development Co. NW $\frac{1}{4}$ D. R. McVicker survey, 18.5 miles northeast of Hale Center. Measuring point, top of steel plate, base of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 65.25.
- 212 (*845, p. 491; 886, p. 692; 909, p. 136; 939, p. 103; 947, p. 117). Texas Land & Development Co. West center of D. R. McVicker strip, west of sec. 55, blk. M14, 18 miles northeast of Hale Center. Measuring point, top of steel pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 62.74.
- 220 (*840, p. 425; 845, p. 491; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). Texas Land & Development Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, blk. JK3, 15.5 miles north of Hale Center. Measuring point, top of square steel plate, base of pump, west side, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 55.40.

- 223 (#840, p. 425; 845, p. 491; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). Texas Land & Development Co. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, blk. C3, 14.5 miles north of Hale Center. Measuring point, bottom edge of pump base, east side, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 52.23.
- 232 (#840, p. 425; 845, p. 491; 886, p. 692; 909, p. 137; 939, p. 103). M. Hutchinson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, blk. JK3, 13.5 miles northeast of Hale Center. Measuring point, bottom edge of discharge pipe, 4.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 48.50.
- 238 (#840, p. 425; 845, p. 491; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). Dr. McKinley Howell. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, blk. JK3, 13.5 miles northeast of Hale Center. Measuring point, lower edge of discharge pipe, 6.75 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 47.92.
- 246 (#840, p. 425; 845, p. 492; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). Owner unknown. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, blk. JK2, 12 miles northeast of Hale Center. Measuring point, top of concrete foundation, north side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 49.16.
- 255 (#840, p. 426; 845, p. 492; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). G. H. Slaton. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, blk. JK2, 10 miles north of Hale Center. Measuring point, top of brick curb, north side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 16.69.
- 256 (#840, p. 426; 886, p. 692; 909, p. 137; 939, p. 103; 947, p. 117). R. M. Malone. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, blk. JK2, 9 miles north of Hale Center. Measuring point, top of concrete curb, east side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 38.26.
- 259 (#840, p. 426; 845, p. 492; 886, p. 693; 909, p. 137; 939, p. 103; 947, p. 117). C. J. Ebeling. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, blk. JK2, 9 miles north of Hale Center. Measuring point, top of 2- by 2-inch plank over west side of well, 2.0 feet below land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 14.33.
- 263 (#840, p. 426; 845, p. 492; 886, p. 693; 909, p. 137; 939, p. 103; 947, p. 117). Federal Land Bank. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, blk. JK3, 15 miles northeast of Hale Center. Measuring point, top of casing, east side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 45.64.
- 305 (#845, p. 493; 886, p. 693; 909, p. 133; 939, p. 104; 947, p. 117). Texas Land & Development Co. On strip land, 0.55 mile east of SW. corner of sec. 54, blk. M14, 18.5 miles northeast of Hale Center. Measuring point, lower edge of discharge pipe, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 68.10.
- 307 (#845, p. 493; 886, p. 693; 909, p. 133; 939, p. 104; 947, p. 117). Texas Land & Development Co. On strip land, 0.3 mile east of SW. corner of sec. 53, blk. M14, 19 miles northeast of Hale Center. Measuring point, top of steel pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 64.00.
- 314 (#840, p. 427; 845, p. 493; 886, p. 693; 909, p. 138; 939, p. 104; 947, p. 117). J. S. Leach. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, blk. JK3, 17 miles northeast of Hale Center. Measuring point, top of concrete curb, east side, 0.5 foot above land surface. No measurements made in 1943.
- 314a (#947, p. 117). Willard White. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, blk. JK3, 17 miles northeast of Hale Center. Measuring point, top of 3/4-inch hole in pump base, 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 49.02.

- 316 (*840, p. 427; 845, p. 493; 886, p. 693; 909, p. 133; 939, p. 104; 947, p. 113). Texas Land & Development Co. NW $\frac{1}{4}$ S. D. Lemaster survey, 17.5 miles northeast of Hale Center. Measuring point, lower edge of discharge pipe, 3.16 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 49.82.
- 317 (*840, p. 427; 845, p. 493; 886, p. 693; 909, p. 133; 939, p. 104; 947, p. 113). Texas Land & Development Co. NE $\frac{1}{4}$ J. F. Owens survey, 18.5 miles northeast of Hale Center. Measuring point, top of square steel plate, base of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 51.66.
- 330 (*840, p. 427; 845, p. 493; 886, p. 693; 909, p. 138; 939, p. 104; 947, p. 113). George White. NE $\frac{1}{4}$ J. M. Martin survey, 16.5 miles northeast of Hale Center. Measuring point, top of concrete foundation, south side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 46.73.
- 338 (*840, p. 427; 845, p. 494; 886, p. 694; 909, p. 138; 939, p. 104; 947, p. 113). Dr. J. H. Stewart. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 110, blk. D2, 20 miles northeast of Hale Center. Measuring point, top of pump base, 0.24 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 46.35.
- 357 (*840, p. 428; 845, p. 494; 886, p. 694; 909, p. 138; 939, p. 104; 947, p. 113). G. D. Lewellen. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, blk. D6, 14.5 miles northeast of Hale Center. Measuring point, top of casing, north side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 29, 36.86.
- 370 (*840, p. 423; 845, p. 494; 886, p. 694; 909, p. 133; 939, p. 104; 947, p. 113). D. A. Reading. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, blk. D4, 14.5 miles northeast of Hale Center. Measuring point, top of casing, west side, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 43.64.
- 402 (*840, p. 423; 845, p. 494; 886, p. 694; 909, p. 139; 939, p. 104; 947, p. 113). N. R. Johnson. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 40, blk. JK2, 11 miles northeast of Hale Center. Measuring point, top of heavy timber, base of pump jack, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 20.25.
- 422 (*840, p. 429; 845, p. 495; 886, p. 694; 909, p. 139; 939, p. 104; 947, p. 113). Mrs. J. B. Long. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, blk. D5, 16 miles northeast of Hale Center. Measuring point, top of tin cover over casing, east side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 37.65.
- 427 (*840, p. 429; 845, p. 495; 886, p. 694; 909, p. 139; 939, p. 104; 947, p. 113). C. M. Smith. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, blk. D5, 17.5 miles northeast of Hale Center. Measuring point, top of pump base, west side, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 46.60.
- 428 (*840, p. 429; 845, p. 495; 886, p. 694; 909, p. 139; 939, p. 104; 947, p. 113). C. M. Smith. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, blk. D5, 17 miles east of Hale Center. Measuring point, top of concrete foundation, 2.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 43.43; July 20, 47.48.
- 433a (*845, p. 495; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 113). Lizzie B. Morris. SW. corner of west 186 acres in sec. 37, blk. D6, 15 miles east of Hale Center. Measuring point, wood pipe-clamp, northeast side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 14.66.
- 434 (*845, p. 495; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 113). Texas Land & Development Co. SW. corner SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, blk. D6, 14.5 miles east of Hale Center. Measuring point, top of casing, west side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 18, 43.34.

435 (#845, p. 495; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 118). Texas Land & Development Co. SW. corner NE $\frac{1}{4}$ sec. 35, blk. D6, 14 miles east of Hale Center. Measuring point, top of casing, west side, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 47.62; July 20, 48.69.

436 (#840, p. 429; 845, p. 495; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 118). Texas Land & Development Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, blk. D6, 13.5 miles east of Hale Center. Measuring point, top of concrete foundation, 0.75 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 51.40; July 20, 52.65.

449 (#840, p. 430; 845, p. 495; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 119). W. S. Messick. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, blk. D7, 8 miles east of Hale Center. Measuring point, top of casing, north side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 60.01.

454 (#840, p. 430; 845, p. 496; 886, p. 695; 909, p. 139; 939, p. 105). B. F. Smith. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, blk. N, 16.5 miles east of Hale Center. Measuring point, top of concrete curb, south side, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 50.23.

459 (#840, p. 430; 845, p. 496; 886, p. 695; 909, p. 139; 939, p. 105; 947, p. 119). Texas Land & Development Co. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, blk. N, 16.5 miles east of Hale Center. Measuring point, cut in concrete foundation, south side of discharge pipe, 1.1 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 37.47.

462 (#840, p. 430; 845, p. 496; 886, p. 695; 909, p. 140; 939, p. 105; 947, p. 119). R. E. Keniston. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, blk. N, 16 miles east of Hale Center. Measuring point, top of steel casing, north side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 38.60.

463 (#840, p. 430; 845, p. 496; 886, p. 695; 909, p. 140; 939, p. 105; 947, p. 119). R. E. Keniston. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, blk. N, 16 miles east of Hale Center. Measuring point, bottom edge of pump base, southeast side, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 31.97.

467 (#840, p. 430; 845, p. 496; 886, p. 695; 909, p. 140; 939, p. 105; 947, p. 119). M. E. Courtney. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, blk. N, 13.5 miles east of Hale Center. Measuring point, top of concrete foundation, southwest side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 33.17.

470 (#840, p. 431; 845, p. 496; 886, p. 695; 909, p. 140; 939, p. 105; 947, p. 119). M. H. Neer. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, blk. D7, 11 miles east of Hale Center. Measuring point, top of casing, south side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 31.10.

477 (#840, p. 431; 845, p. 496; 886, p. 696; 909, p. 140; 939, p. 105; 947, p. 119). C. J. Jagelky. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, blk. D7, 8 miles east of Hale Center. Measuring point, top of 4- by 4-inch plank, on east side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 36.57.

508 (#840, p. 431; 845, p. 496; 886, p. 696; 909, p. 140; 939, p. 105; 947, p. 119). Mrs. J. H. Slaton. SW. corner sec. 8, blk. JK2, 7.5 miles north of Hale Center. Measuring point, bottom of south side of doorway in concrete casing, northeast side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 47.92.

510 (#840, p. 431; 845, p. 496; 886, p. 696; 909, p. 140; 939, p. 105; 947, p. 119). R. E. Walker. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, blk. JK2, 9 miles north of Hale Center. Measuring point, top of concrete curb, northeast side, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 34.68.

511 (#840, p. 431; 845, p. 497; 886, p. 696; 909, p. 140; 939, p. 105; 947, p. 119). Dr. J. Anderson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, blk. JK2, 10 miles north-east of Hale Center. Measuring point, top of coupling on pump shaft housing, just above bottom of discharge pipe, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 13.10.

- 526 (*845, p. 497; 886, p. 696; 909, p. 140; 939, p. 106; 947, p. 119). I. W. LaFrance. NE corner NE $\frac{1}{4}$ sec. 44, blk. A1, 6 miles northeast of Hale Center. Measuring point, top of wooden clamp, 0.2 foot above land surface. Measurements discontinued.
- 539 (*845, p. 497; 886, p. 696; 909, p. 140; 939, p. 106; 947, p. 119). Fred Rastetter. SE corner SE $\frac{1}{4}$ sec. 29, blk. A, 3.25 miles northeast of Hale Center. Measuring point, bottom edge of 1 $\frac{1}{2}$ -inch hole in south side of discharge pipe, 2.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 56.01.
- 542 (*840, p. 432; 845, p. 497; 886, p. 696; 909, p. 140; 939, p. 106; 947, p. 119). J. B. Hay. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 38, blk. A1, 6 miles northeast of Hale Center. Measuring point, top of 2- by 12-inch plank curb, 0.5 foot above land surface. No measurements made in 1943.
- 547 (*840, p. 432; 845, p. 497; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 119). O. C. McClain. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 40, blk. A1, 7 miles northeast of Hale Center. Measuring point, top of concrete foundation, east side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 52.84.
- 552 (*840, p. 432; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). H. S. Dunaway. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, blk. A1, 4 miles east of Hale Center. Measuring point, top edge of steel pump base plate, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 58.20.
- 553 (*840, p. 432; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). Texas Land & Development Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, blk. A1, 4.5 miles east of Hale Center. Measuring point, top of steel base plate of pump head, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 53.71.
- 564 (*840, p. 433; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). T. F. Mounts. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, blk. A1, 2 miles northeast of Hale Center. Measuring point, top edge of "flat iron" in concrete curb, northeast side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 56.86.
- 567 (*840, p. 433; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). J. B. Maxey. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, blk. A1, 1.25 miles northeast of Hale Center. Measuring point, top of concrete foundation, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 52.82.
- 569 (*840, p. 433; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). O. C. Sanders. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, blk. A1, one mile southeast of Hale Center. Measuring point, bottom of pump base, south side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 53.21.
- 605 (*840, p. 433; 845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). J. O. Douglas. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, blk. O, 11.5 miles northwest of Hale Center. Measuring point, top of casing, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 20, 82.66.
- 621 (*845, p. 498; 886, p. 697; 939, p. 106; 947, p. 120). E. S. Crow. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, blk. O, 9.5 miles northwest of Hale Center. Measuring point, top of concrete curb, 0.6 foot above land surface. Measurements discontinued.
- 719a (*845, p. 498; 886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). W. Bogart. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, Sabine County School land, 15 miles southwest of Hale Center. Measuring point, top of concrete well curb, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 74.29.
- 719b (*886, p. 697; 909, p. 141; 939, p. 106; 947, p. 120). W. Bogart. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, Sabine County School land, 17.5 miles southwest of Hale Center. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 4.70.

- 720b (*845, p. 499; 836, p. 698; 939, p. 106; 947, p. 120). P. R. Caraway. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, Sabine County School land, 17 miles southwest of Hale Center. Measuring point, top of wooden well curb, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 9.23.
- 736b (*845, p. 499; 836, p. 693; 909, p. 142; 939, p. 106; 947, p. 120). Ross Title Insurance Co. NW $\frac{1}{4}$ tract 12, blk. X, 2 miles north, thence 6.5 miles west of Abernathy and 16 miles southwest of Hale Center. Measuring point, top of wooden pipe-clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 18.40.
- 816 (*840, p. 434; 845, p. 499; 836, p. 698; 909, p. 142; 939, p. 107; 947, p. 120). A. M. Eason. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, blk. R, 9.5 miles southeast of Hale Center. Measuring point, top of concrete curb, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 54.11.
- 822 (*845, p. 499; 836, p. 698; 909, p. 142; 939, p. 107; 947, p. 120). Elsie Thornton. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 37, blk. A4, 6.5 miles southeast of Hale Center. Measuring point, top of 4- by 4-inch wooden pipe-clamp, southeast side, 0.5 foot above land surface. No measurements made in 1943.
- 824 (*840, p. 434; 845, p. 499; 836, p. 693; 909, p. 142; 939, p. 107; 947, p. 120). J. Wells Kinkaid. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, blk. A4, 4.75 miles south of Hale Center. Measuring point, top of concrete foundation, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 63.79.
- 825 (*840, p. 434; 845, p. 499; 836, p. 693; 909, p. 142; 939, p. 107; 947, p. 120). Matilda Akeson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, blk. A4, 3.25 miles north of Hale Center. Measuring point, bottom edge of 4- by 4-inch wooden pipe-clamp, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 65.09.
- 828 (*836, p. 693; 909, p. 142; 939, p. 107; 947, p. 120). G. W. Bigler. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, blk. A4, 5 miles south of Hale Center. Measuring point, lower edge of large opening in pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 71.12.
- 834 (*845, p. 499; 836, p. 698; 909, p. 142; 939, p. 107; 947, p. 121). R. E. Sikes. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 64, blk. A4, 8.5 miles south of Hale Center. Measuring point, top of 4- by 4-inch wooden pipe-clamp, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 76.02.
- 837 (*845, p. 500; 836, p. 693; 909, p. 142; 939, p. 107; 947, p. 121). F. L. Hunsicker. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 54, blk. A4, 3 miles southeast of Hale Center. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 82.44.
- 840 (*845, p. 500; 836, p. 693; 909, p. 142; 939, p. 107; 947, p. 121). Debb McLaughlin. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, blk. R, 12 miles southeast of Hale Center. Measuring point, top of concrete foundation, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 53.02.
- 848 (*836, p. 698; 909, p. 142; 939, p. 107; 947, p. 121). Mrs. J. E. Cheney. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 75, blk. A4, 12.5 miles south of Hale Center. Measuring point, top of concrete curb at west side, 0.5 foot above land surface. No measurements made in 1943.
- 852 (*845, p. 500; 836, p. 699; 909, p. 142; 939, p. 107; 947, p. 121). Abernathy Cemetery. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, blk. X, 15 miles south of Hale Center. Measuring point, top of steel plate, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 115.30.
- 859 (*836, p. 600; 909, p. 142; 939, p. 107; 947, p. 121). L. Ragland. NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, blk. CL, 15.5 miles southeast of Hale Center. Measuring point, top of air-line hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 72.25.
- 906 (*840, p. 434; 845, p. 500; 836, p. 699; 909, p. 142; 939, p. 107; 947, p. 121). Floyd Reagan. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 59, blk. R, 14 miles east of Hale Center. Measuring point, bottom edge of large opening in pump base, 1.6 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 36.39.

923 (*840, p. 434; 845, p. 500; 836, p. 699; 909, p. 142; 939, p. 107; 947, p. 121). D. C. Bayley. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, blk. R, 9.5 miles east of Hale Center. Measuring point, top of column pipe, 5.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 26, 48.24.

936 (*840, p. 435; 845, p. 500; 836, p. 699; 909, p. 142; 939, p. 107; 947, p. 121). B. E. Porter. NW $\frac{1}{4}$ NW $\frac{1}{4}$ C. K. Andrews survey, east of sec. 38, blk. R, 14 miles southeast of Hale Center. Measuring point, top of 4- by 4-inch wooden pipe-clamp, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 44.14.

946 (*886, p. 699; 909, p. 143; 939, p. 107; 947, p. 121). B. E. Porter. SE $\frac{1}{4}$ SE $\frac{1}{4}$ C. K. Andrews survey, east of sec. 38, blk. R, 14.5 miles southeast of Hale Center. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 57.85.

956 (*845, p. 500; 836, p. 699; 909, p. 143; 939, p. 107; 947, p. 121). J. W. Heard. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, blk. R, 11.5 miles southeast of Hale Center. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 64.00.

958 (*840, p. 435; 845, p. 500; 836, p. 699; 909, p. 143; 939, p. 107; 947, p. 121). W. C. Sewell. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, blk. R, 12 miles southeast of Hale Center. Measuring point, top of concrete foundation, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 55.33.

971 (*886, p. 699; 909, p. 143; 939, p. 108; 947, p. 121). L. S. Clator. NW corner NW $\frac{1}{4}$ sec. 15, blk. CL, 17.5 miles southeast of Hale Center. Measuring point, top of concrete curb, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 24, 59.09.

974a (*836, p. 699; 909, p. 143; 939, p. 108; 947, p. 121). W. B. Mooney. SW $\frac{1}{4}$ NW $\frac{1}{4}$ J. A. Alexander survey, 17.5 miles southeast of Hale Center. Measuring point, top of casing, at land surface. Measurements discontinued.

Harris County

6a (*777, p. 206; 840, p. 437; 836, p. 700; 909, p. 144; 939, p. 103; 947, p. 122). H. C. Burton. Formerly owned by H. H. Strickland and C. Mathews. In Waller. Measuring point, top of wood casing, 3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 9.74; June 18, 9.10; Aug. 25, 7.43.

11 (*777, p. 206; 840, p. 437; 845, p. 501; 836, p. 700; 909, p. 144; 947, p. 122). J. A. Hafner. 2.25 miles east-southeast of Waller. Measuring point, pump base, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 21	43.95	Apr. 28	44.21	Aug. 25	44.29
Mar. 30	44.15	June 18	44.10		

12 (*909, p. 144; 947, p. 122). J. A. Hafner. 2 miles northwest of Hockley. Measuring point, top of casing, 3.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 44.64; Mar. 30, 44.70; June 18, 44.69; Aug. 25, 44.70.

14 (*836, p. 701; 909, p. 144; 939, p. 108; 947, p. 122). J. A. Hafner. 1.75 miles east of Waller. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 52.13; Apr. 28, 51.04; June 18, 53.78; Nov. 11, 56.22.

31 (*777, p. 206; 840, p. 437; 845, p. 501; 836, p. 701; 909, p. 144; 939, p. 103; 947, p. 122). R. L. Burton. 4 miles east-southeast of Waller. Measuring point, top of casing, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	40.49	Apr. 28	39.30	July 31	62.81	Sept. 28	57.13
Mar. 30	39.90	June 18	56.14	Aug. 25	66.18	Nov. 11	47.12

33 (*886, p. 701; 909, p. 144; 939, p. 109; 947, p. 122). W. G. Neeley. In Hockley. Measuring point, top of wood suction pipe clamp, 1.3 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	21.38	Apr. 28	29.51	July 31	27.57	Sept. 28	35.06
Mar. 30	17.05	June 18	29.98	Aug. 25	35.06	Nov. 11	34.67

35 (*777, p. 207; 840, p. 437; 845, p. 501; 886, p. 701; 909, p. 144; 939, p. 109; 947, p. 122). O. M. Taylor. 6.25 miles east-southeast of Waller. Measuring point, lowest point in broken tile, 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	13.15	Apr. 28	15.60	July 31	20.43	Sept. 28	29.05
Mar. 30	13.90	June 18	17.70	Aug. 25	24.75	Nov. 11	29.40

36 (*777, p. 207; 840, p. 437; 845, p. 502; 886, p. 701; 947, p. 122). O. M. Taylor. 1.5 miles east of Hockley. Measuring point, top of board cover, at land surface. Measurements discontinued.

40 (*909, p. 145; 939, p. 109; 947, p. 123). Ira Southard. Near Hockley. Measuring point, top of 1-inch hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Nov. 11, 49.10.

95 (*777, p. 207; 840, p. 437; 886, p. 701; 909, p. 145; 939, p. 109; 947, p. 123). H. C. Middlestead. 1.75 miles south-southeast of Spring. Measuring point, top of brick curb on southeast side, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 12.66; Mar. 28, 13.55; June 21, 16.76; Aug. 26, 16.91.

97 (*777, p. 207; 840, p. 437; 845, p. 502; 886, p. 701; 947, p. 123). H. C. Middlestead. 1.75 miles east-southeast of Spring. Measuring point, top of board cover, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 3.80; Mar. 28, 2.52; June 21, 7.73; Aug. 26, 9.25.

102 (*886, p. 701; 909, p. 145; 939, p. 109; 947, p. 123). C. P. Addison. 4.5 miles south of Spring. Measuring point, top of tin cover, 1.4 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 9.03; Mar. 28, 6.24; June 21, 9.97; Aug. 12, 9.16.

104 (*886, p. 702; 909, p. 145; 939, p. 109; 947, p. 123). C. P. Addison. 4.5 miles south of Spring. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 12.56; Mar. 28, 10.25; June 21, 13.54; Aug. 12, 13.13.

134 (*886, p. 702; 909, p. 145; 939, p. 109; 947, p. 123). Ira Southard. 9 miles southwest of Cypress. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 13, 49.36; Nov. 10, 53.80.

136 (*886, p. 702; 909, p. 145; 939, p. 109; 947, p. 123). J. Freeman. 9 miles southwest of Cypress. Measuring point, top of pump base, 0.5 foot above land surface and 160 feet above mean sea level. Water level, in feet below land-surface datum, 1943: Nov. 10, 54.84.

139a (*886, p. 702; 909, p. 145; 939, p. 109; 947, p. 123). E. W. Peak. About 8.25 miles southwest of Cypress. Measuring point, top of casing, 2.0 feet above land surface. Measurements discontinued.

140 (*886, p. 702; 909, p. 145; 939, p. 109; 947, p. 123). Oscar Kemp. 7.75 miles southwest of Cypress. Measuring point, top of port in south side of pump base, 1 foot above land surface and 160 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 43.73; Nov. 10, 52.00.

157. Owner's well 2. H. J. Longenbaugh. 10 miles northeast of Katy. Used drilled rice irrigation well, diameter 20 inches, depth 532 feet. Measuring point, lower edge of port hole in side of pump, 1.5 feet above land surface. Equipped with turbine pump.

157. H. J. Longenbaugh--Continued:

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1940	44.62	Mar. 18, 1942	30.00	Nov. 10, 1943	33.28
29, 1941	34.76	Oct. 21	33.45		

159. G. W. Longenbaugh. 12 miles northeast of Katy. Used drilled rice irrigation well, diameter 22 inches, depth 500 feet. Measuring point, 1-inch hole in pump base, 1.0 foot above land surface. Equipped with turbine pump.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Jan. 21, 1941	23.42	Jan. 21, 1942	19.81	Apr. 13, 1943	18.94
Oct. 29	22.99	Mar. 18	18.69		

166 (*777, p. 207; 840, p. 437; 886, p. 702; 909, p. 145; 947, p. 123). E. C. Smith. 1.75 miles northwest of Cypress. Measuring point, top of board cover, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 1.82; Mar. 30, 2.04; June 18, 4.17; Aug. 25, 4.54.

167 (*777, p. 208; 840, p. 437; 845, p. 502; 836, p. 702; 909, p. 146; 947, p. 123). E. C. Smith. 1.75 miles northwest of Cypress. Measuring point, top of casing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: June 18, 14.76; Aug. 25, 18.97.

169a (*886, p. 703; 909, p. 146; 939, p. 109; 947, p. 124). Ben Fugh. 2.75 miles northwest of Cypress. Measuring point, top of 22-inch casing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 13, 9.41; Nov. 11, 16.68.

171 (*777, p. 203; 840, p. 437; 845, p. 502; 836, p. 703; 909, p. 146; 947, p. 124). E. H. Juergen. In Cypress. Measuring point, top of casing, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 7.98; Apr. 28, 7.93; June 18, 7.30; Aug. 25, 9.17.

178 (*777, p. 208; 840, p. 437; 886, p. 709; 909, p. 146; 939, p. 110; 947, p. 124). K. P. Black. 5 miles southeast of Cypress. Measuring point, top of casing, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 2.47; Apr. 28, 3.82; June 18, 10.63; Aug. 24, 6.08.

182 (*886, p. 703; 909, p. 146; 939, p. 110; 947, p. 124). Joel Schmidt. 4.5 miles south of Cypress. Measuring point, edge of 1-inch hole in pump base, at land surface and 142 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 29.38; Nov. 11, 35.72.

183 (*886, p. 703; 909, p. 146; 939, p. 110; 947, p. 124). J. J. Sweeny. About 5.75 miles south of Cypress. Measuring point, top of pump base, at land surface and 136 feet above mean sea level. Measurements discontinued.

186 (*886, p. 703; 909, p. 146; 939, p. 110; 947, p. 124). T. B. Tucker. 6 miles south-southwest of Cypress. Measuring point, edge of 1-inch hole in inner pump base, at land surface and 143 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 27.99; Nov. 11, 33.65.

205 (*777, p. 209; 840, p. 437; 845, p. 502; 886, p. 703; 909, p. 146; 939, p. 110; 947, p. 124). Humble Pipe Line Co. At Satsuma. Measuring point, top of casing, 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	34.27	June 18	31.74	Aug. 24	33.62	Nov. 11	33.10
Apr. 28	31.98	July 31	32.55	Sept. 28	33.79		

206 (*777, p. 209; 840, p. 438; 845, p. 502; 886, p. 703; 909, p. 147; 939, p. 110; 947, p. 124). R. B. Tucker. At Satsuma. Measuring point, top of board cover, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 26.31; Apr. 28, 25.10; July 31, 35.82; Aug. 24, 37.44.

210 (*777, p. 209; 840, p. 438; 886, p. 703; 909, p. 147; 939, p. 110; 947, p. 124). 7.25 miles southeast of Cypress. Measuring point, top of casing, 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 21	17.25	Apr. 28	15.88	Aug. 24	25.02
Mar. 30	15.69	June 18	20.51	Sept. 28	23.87

221 (*886, p. 703; 909, p. 147; 939, p. 110; 947, p. 124). S. Terpstra. 10.75 miles east of Cypress. Measuring point, top of 4-inch casing, 0.4 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	35.13	Aug. 20	32.21	Oct. 14	24.98	Nov. 29	20.96
Mar. 30	33.26	26	31.37	27	23.77	Dec. 18	19.63
June 2	33.24	Sept. 8	29.51	Nov. 12	22.08	31	20.30
Aug. 13	32.77	24	28.61				

225 (*886, p. 704; 909, p. 147; 939, p. 110; 947, p. 125). Trinity & Brazos Valley Railway Co. 11.5 miles southeast of Cypress. Measuring point, top of steel pipe clamp, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	32.69	Aug. 20	12.46	Oct. 7	18.77	Nov. 12	15.13
Mar. 30	27.66	26	11.88	14	18.32	29	15.00
June 2	25.83	Sept. 8	13.29	27	16.93	Dec. 31	13.55
Aug. 13	14.33	24	17.37				

226. Frazer & Lapham. 3 miles east of Satsuma. Used drilled rice irrigation well, diameter 20 inches, casing slotted opposite all sands between 104 and 734 feet. Measuring point, lower edge of port hole in side of pump, 1.5 feet above land surface. Equipped with 3,000 gallon-a-minute turbine pump. Water levels, in feet below land-surface datum: Jan. 21, 1941, 34.19; May 23, 1941, 29.95; Mar. 17, 1942, 24.70; Sept. 24, 1943, 32.88.

255 (*886, p. 704; 909, p. 147; 939, p. 110; 947, p. 125). J. M. Blake. 2.5 miles northwest of Aldine. Measuring point, top of concrete curb, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 13.60; Mar. 28, 10.41; June 21, 15.34.

264 (*777, p. 210; 840, p. 438; 845, p. 502; 886, p. 704; 909, p. 147; 939, p. 110; 947, p. 125). H. Weary. 3 miles north of Aldine. Measuring point, top of casing, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Jan. 20	40.28	Aug. 13	38.01	Sept. 8	36.04	Nov. 13	32.20
Mar. 28	39.52	20	37.53	24	35.54	29	31.62
June 2	39.65	26	37.12	Oct. 27	33.28	Dec. 18	31.12

268 (Published incorrectly as well 368 in *947, p. 125). City of Houston test well 10-a. In Westfield. Measuring point, top of tee on top of air line, 4.5 feet above land surface.

Water level, in feet with reference to land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	-23.67	Aug. 20	-2.47	Sept. 24	+2.96	Nov. 13	+2.28
Mar. 28	-18.00	26	-.26	Oct. 14	+1.80	Dec. 18	+2.24
June 2	-14.64	Sept. 8	+3.01	27	+1.72	31	+2.26
Aug. 12	-5.50						

280. Pan-American Pipe Line Co. At San Jacinto pump station, 9 miles southeast of Humble. Used drilled industrial well, diameter 6 inches, screen from 361 to 382 feet. Measuring point, top of special measuring hole, 1.1 feet above land surface. Equipped with 120 gallon-a-minute turbine pump. Water levels, in feet below land-surface datum: Nov. 29, 1940, 59.90; Sept. 22, 1943, 52.90.

286. Jack Frazier Drilling Co. Near oil well 1 on G. W. Burkett lease, 10 miles northeast of Houston courthouse. Unused drilled well, diameter 4 inches, screen from 230 to 250 feet. Measuring point, top of 1-inch air line welded in a bull plug, 3.1 feet above land surface. Water levels, in feet below land-surface datum: July, 1940, a/ 51; Sept. 20, 1943, 54.38.

287. Jack Frazier Drilling Co. Near oil well 2 on Dwyer lease, 10 miles northeast of Houston courthouse. Unused drilled well, diameter 4 inches, screen from 335 to 355 feet. Measuring point, top of 1-inch air line, 2.5 feet above land surface. Water levels, in feet below land-surface datum: May 1941, a/ 56; Sept. 20, 1943, 67.16.

290. J. C. Townes. Southside of farmhouse, 5 miles southwest of Humble. Used drilled domestic and stock well, diameter 4 inches, screen from 276 to 296 feet. Measuring point, top of casing, 0.5 foot above land surface. Equipped with small turbine pump. Water level, in feet below land-surface datum, 1943: Sept. 21, 39.86.

291. A. T. McDannald. At club house and lake, 4.5 miles south of Humble. Used drilled well, diameter 10 inches, screen from 1,268 to 1,308 feet. Measuring point, top of casing, 1.0 foot above land surface. Equipped with turbine pump; used only during summer. Water levels, in feet below land-surface datum: 1931, a/ 15; Sept. 21, 1943, 37.50.

302 (*886, p. 704; 909, p. 147; 939, p. 111; 947, p. 125). Rebel Oil Co. 2.5 miles southeast of Humble. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 41.87; June 21, 42.11; Sept. 8, 42.50.

352 (*886, p. 704; 909, p. 147; 939, p. 111; 947, p. 125). A. E. Thompson. 5.75 miles north of Katy. Measuring point, top of small port in pump base, 1.0 foot above land surface and 163 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 51.83; Nov. 10, 57.53.

357 (*886, p. 705; 909, p. 147; 939, p. 111; 947, p. 125). P. V. Cook. 4.5 miles northeast of Katy. Measuring point, top of casing, 1.5 feet above land surface and 154 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 47.40; Nov. 10, 59.25.

362 (*886, p. 705; 909, p. 147; 939, p. 111; 947, p. 125). E. G. Stockdick. 4 miles northeast of Katy. Measuring point, top of 24-inch casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 41.42; Nov. 10, 50.90.

367. (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 125). W. C. Hickman. 3.25 miles east of Katy. Measuring point, edge of 1-inch hole in east side of pump base, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 42.12; Nov. 10, 49.35.

370 (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 125). J. M. Johnson. Owner's well 1. 3 miles east of Katy. Measuring point, pump base, at land surface. Water levels, in feet below land-surface datum, 1943: Mar. 30, 43.38; Nov. 10, 51.92.

371 (*909, p. 148; 939, p. 111; 947, p. 125). L. E. Morrison. Owner's well 1. 3 miles southeast of Katy. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 12, 40.25; Nov. 10, 47.30.

380. W. H. Hegar. 8 miles northeast of Katy. Unused drilled stock well, diameter 4 inches, depth 55+ feet. Measuring point, top of casing, 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Oct. 23, 1941	24.83	Mar. 18, 1942	25.24	Apr. 12, 1943	25.44
Jan. 20, 1942	24.40	Sept. 24	28.20	Nov. 11	29.18

a Reported by driller.

381 (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 125). W. H. Hegar. 7.5 miles northeast of Katy. Measuring point, top of casing, 2.5 feet above land surface and 147 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 28.32; Nov. 11, 32.00.

382 (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 125). W. C. Stockdick. 6 miles northeast of Katy. Measuring point, top of casing, at land surface and 143 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 39.20; Nov. 10, 46.97.

384 (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 126). A. J. Jordens. (Formerly reported as Jordan.) 6 miles northeast of Katy. Measuring point, top of casing, 1.0 foot above land surface and 138 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 39.95; Nov. 10, 47.74.

385 (*886, p. 705; 909, p. 148; 939, p. 111; 947, p. 126). A. J. Jordens. (Formerly reported as Jordan.) 6 miles northeast of Katy. Measuring point, top of steel casing, 1.5 feet above land surface and 139 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 39.13; Nov. 10, 45.17.

399 (*886, p. 706; 909, p. 148; 939, p. 111; 947, p. 126). Gertie Rice Farm. 9.5 miles northeast of Katy. Measuring point, top of $\frac{1}{2}$ - by 6-inch port in pump base, at land surface and 129 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Apr. 12, 31.50; Nov. 11, 35.25.

400 (*886, p. 706; 909, p. 148; 939, p. 111; 947, p. 126). Schmidt Estate. 11 miles northeast of Katy. Measuring point, lower edge of discharge pipe, 3.5 feet above land surface and 129 feet above mean sea level. Water level, in feet below land-surface datum, 1943: Apr. 12, 22.30.

417 (*947, p. 126). F. H. Liestman. 2 miles southeast of Alief. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 21.76; June 22, 22.15; Aug. 24, 23.66.

456 (*909, p. 148; 939, p. 111; 947, p. 126). Frank Willberg. On Hempstead road, 0.5 mile southeast of Fairbanks. Measuring point, top of casing, 0.25 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	42.52	Apr. 28	41.80	July 31	43.53	Sept. 28	45.60
Mar. 30	41.84	June 18	42.42	Aug. 24	44.71	Nov. 11	45.25

473 (*947, p. 126). H. W. Rasmussen. 8.5 miles west of Houston courthouse. Measuring point, top of 1-inch hole in inner pump base, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	39.80	Apr. 22	40.19	July 21	42.45	Sept. 28	44.21
Mar. 31	39.59	June 22	40.94	Aug. 24	43.30	Dec. 4	44.12

480. John Pillot. 19 miles west of Houston courthouse. Used drilled rice irrigation well, diameter 20 inches, 300 feet of slotted casing opposite all sands between 107 and 512 feet. Measuring point, end of discharge pipe, 4.5 feet above land surface. Equipped with turbine pump.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1941	29.37	Mar. 17, 1942	28.53	Apr. 12, 1943	28.32
Oct. 24	30.03	Sept. 22	33.43	Nov. 8	35.44
Jan. 19, 1942	27.63				

489 (*947, p. 127). City of Houston test well 4-a. 2 miles west of Alief. Measuring point, top of nipple, 2.8 feet above land surface.

489. City of Houston test well 4-a--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	28.07	Apr. 22	27.58	July 21	32.35	Sept. 28	34.43
Mar. 30	27.55	June 22	30.83	Aug. 24	33.77	Nov. 8	33.47

490 (*947, p. 127). City of Houston test well 5. In Alief. Measuring point, top of air line, 4.2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	47.69	Apr. 22	47.68	July 21	48.78	Sept. 28	50.80
Mar. 31	47.48	June 22	48.26	Aug. 24	49.68	Nov. 8	51.44

496 (*947, p. 127). Diamond "L" Ranch. On U. S. Highway 90, near Fort Bend County line, 13 miles southwest of Houston. Measuring point, top of concrete block, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 22, 33.52; June 22, 33.88; Sept. 13, 35.08.

498 (*947, p. 127). Brae Burn Country Club. 11 miles southwest of Houston. Measuring point, top of air-line hole in inner pump base, 3.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 21	40.34	July 21	44.19	Dec. 4	45.10
Mar. 31	40.38	Sept. 28	45.15		

512 (*777, p. 210; 840, p. 438; 845, p. 502; 836, p. 706; 909, p. 148; 939, p. 112; 947, p. 123). Ed Nickols. 8.5 miles west-northwest of Houston courthouse. Measuring point, top of tin casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 7.08; June 18, 7.63.

519 (*836, p. 706; 909, p. 148; 939, p. 112; 947, p. 128). Felix Myers. 6.75 miles northwest of Houston courthouse. Measuring point, top of casing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 3.89; June 18, 7.32.

538. The Bayou Club. 6 miles northwest of Houston courthouse. Used drilled well, diameter 8-5/8 inches, screen from 278 to 298, 344 to 365, and 455 to 475 feet. Measuring point, top of breather hole in pump base, 1.2 feet above land surface. Equipped with turbine pump. Water levels, in feet below land-surface datum: July 30, 1940, $\frac{a}{53.0}$; June 24, 1943, 62.33; Aug. 25, 1943, 64.60; Sept. 28, 1943, 65.21.

602 (*777, p. 211; 840, p. 438; 845, p. 502; 886, p. 706; 909, p. 148; 939, p. 112; 947, p. 123). River Oaks Country Club well 1. 4 miles north of Houston courthouse. Measuring point, $\frac{3}{8}$ -inch hole in pump bowl, 2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Mar. 10	80.48	July 21	86.67	Sept. 16	86.37
June 17	81.28	Aug. 24	86.50	Dec. 4	86.33

604 (*886, p. 706; 909, p. 148; 939, p. 112; 947, p. 128). West End Ice Co. 2.25 miles northwest of Houston courthouse. Measuring point, hole in 4-inch tee, 1.7 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 18	74.60	Apr. 19	74.62	Dec. 4	80.84
Mar. 9	75.29	Sept. 27	81.81		

606 (*886, p. 706; 909, p. 149; 939, p. 112; 947, p. 128). Henke & Pillot. 2 miles northwest of Houston courthouse. Well obstructed, measurements discontinued after Apr. 19. Water levels, in feet below land-surface datum, 1943: Jan. 17, 96.85; Mar. 9, 93.82; Apr. 19, 94.24.

a Reported by driller.

607. Henke & Pillot. 2 miles northwest of Houston courthouse. Unused drilled well, diameter 6 inches, screen from 511 to 571 feet. Measuring point, top of casing, 1.0 foot above land surface. Turbine pump removed in 1940.

Water level, in feet below land-surface datum, 1931, 1942-43

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1931	74.70	Apr. 19, 1943	83.01	Aug. 24, 1943	90.72
Oct. 22, 1942	85.46	June 17	87.87	Sept. 27	90.66
Jan. 17, 1943	79.82	July 30	89.36	Dec. 4	86.34
Mar. 9	81.12				

608 (*886, p. 707; 909, p. 149; 939, p. 112; 947, p. 128). Fidelity Products Co. 2 miles northwest of Houston courthouse. Measuring point, lower edge of discharge pipe, 3.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	82.29	Apr. 21	85.72	July 30	92.20	Sept. 27	98.34
Mar. 9	83.77	June 17	90.70	Aug. 24	93.46	Dec. 4	88.94

609 (*886, p. 707; 909, p. 149; 939, p. 112; 947, p. 128). Fidelity Products Co. 2 miles northwest of Houston courthouse. Measuring point, top of lower 1/4-inch air-line union, 3.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	98.17	Apr. 19	96.88	Aug. 23	108.73	Dec. 4	110.78
Mar. 9	96.44	July 30	108.97	Sept. 27	110.23		

619 (*777, p. 212; 840, p. 438; 845, p. 503; 886, p. 707; 909, p. 149; 939, p. 112; 947, p. 128). City of Houston. 1 mile west of Houston courthouse (previously reported as post office). Measuring point, top of casing, 2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	100.36	Apr. 21	96.05	July 30	111.18	Sept. 27	112.31
Mar. 10	96.10	June 17	106.79	Aug. 23	111.98	Dec. 4	114.20

651a. 649 (*886, p. 708; 909, p. 149; 939, p. 113; 947, p. 128). A. Wilke. 9 miles north of Houston courthouse (previously reported as post office). Measuring point, edge of 1-inch air-line hole, 0.8 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 20	65.48	June 2	66.03	Dec. 18	66.10
Mar. 28	65.40	Sept. 16	68.27		

651b. 232 (*886, p. 708; 909, p. 149; 939, p. 113; 947, p. 129). A. Wilke. 9 miles north of Houston courthouse (previously reported as post office). Measuring point, top of 2-inch casing, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 6.87; Mar. 28, 7.29; June 2, 8.61.

651c. 648 (*886, p. 708; 909, p. 149; 939, p. 113; 947, p. 129). J. W. Follis. On Gulf Bank road, about 0.5 mile east of U. S. Highway 75. Measuring point, top of opening of 4-inch length of 2-inch pipe screwed in side of tee, 1.5 feet above land surface and 80 feet above mean sea level. Water levels, in feet below land-surface datum, 1943: Jan. 20, 56.30; Mar. 28, 56.02; June 21, 57.15; Sept. 16, 58.68.

651d. 650 (*886, p. 708; 909, p. 149; 939, p. 113; 947, p. 129). 8 miles north of Houston courthouse. Measuring point, top of 1-inch air line in cap, 1.8 feet above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 28, 71.13; June 21, 72.75; Sept. 16, 75.36.

656 (*777, p. 212; 840, p. 438; 845, p. 503; 886, p. 708; 909, p. 150; 939, p. 113; 947, p. 129). Texas Creosoting Co. 4.5 miles north of Houston courthouse. Measuring point, top of eduction pipe under umbrella, 5 feet above land surface.

656. Texas Creosoting Co.--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	101.32	Apr. 21	101.88	Aug. 3	108.01	Sept. 27	109.58
Mar. 10	101.49	June 17	105.53	23	109.75	Dec. 4	107.95

662 (*886, p. 709; 909, p. 150; 939, p. 113; 947, p. 129). South Texas Cotton Oil Co. well 2. 2.5 miles northeast of Houston courthouse. Measuring point, top of pump base, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 19, 118.10; June 17, 122.61; Aug. 3, 123.56; Sept. 28, 114.38.

663 (*886, p. 709; 909, p. 150; 939, p. 113; 947, p. 129). South Texas Cotton Oil Co. well 1. 2.5 miles northeast of Houston courthouse. Measuring point, top of pump base, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	79.24	Apr. 21	79.63	Aug. 3	83.09	Dec. 4	80.35
Mar. 9	79.62	June 17	82.44	23	83.88		

665 (*886, p. 709; 909, p. 150; 939, p. 113; 947, p. 129). National Lumber & Creosoting Co. About 2.75 miles north-northwest of Houston courthouse. Measuring point, joint of top and bottom flanges of casing, 1.0 foot above land surface. Measurements discontinued.

666a. 623 (*886, p. 709; 909, p. 150; 939, p. 113; 947, p. 129). Houston Foundry & Machine Co. At White and Weber Streets, Houston. Measuring point, top of cap on 6-inch casing at 1-inch hole, 2.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	89.39	Apr. 19	90.92	July 30	97.13	Sept. 27	100.73
Mar. 10	89.49	June 17	96.50	Aug. 24	99.83	Dec. 4	99.15

680 (*777, p. 212; 840, p. 438; 845, p. 503; 886, p. 710; 909, p. 150; 939, p. 114; 947, p. 130). Houston Electric Co. 0.5 mile northeast of Houston courthouse. Measuring point, board cover at top of casing, at land surface. Measurements discontinued.

711 (*947, p. 130). San Jacinto Hotel. At 820 Main Street, Houston. Measuring point, top of casing, 10 feet below land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 15	129.13	June 16	143.18	Dec. 3	143.26
Apr. 19	129.86	Aug. 2	145.51		

748 (*909, p. 151; 939, p. 114; 947, p. 130). Gulf Pipe Line Co. 5 miles northeast of Houston courthouse. Measuring point, top of casing, 2.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	92.96	Apr. 21	94.59	Aug. 3	99.70	Sept. 27	102.20
Mar. 9	93.25	June 17	97.50	23	100.33	Dec. 2	103.15

751 (*886, p. 710; 909, p. 151; 939, p. 114; 947, p. 130). The Texas Pipe Line Co. 5 miles northeast of Houston courthouse. Measuring point, top of air line, 4.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	100.77	June 17	105.84	Aug. 10	108.44	Sept. 27	110.79
Mar. 9	102.15	Aug. 3	107.78	23	109.19	Dec. 2	110.54
Apr. 21	102.59						

757 (*777, p. 213; 840, p. 439; 845, p. 503; 886, p. 711; 909, p. 151; 939, p. 114; 947, p. 130). Layne-Bowler Co. 4 miles east of Houston courthouse. Measuring point, pump base, at land surface.

757. Layne-Bowler Co.--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Mar. 9	112.61	Aug. 23	120.23	Dec. 2	122.68
June 17	117.87	Sept.27	121.93		

759 (*777, p. 213; 840, p. 439; 845, p. 503; 886, p. 711; 909, p. 151; 939, p. 114; 947, p. 130). Port City Compress & Warehouse Co. 4.75 miles east of Houston courthouse. Measuring point, top of casing, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	115.71	Apr. 21	118.54	Aug. 3	125.25	Dec. 2	129.43
Mar. 9	117.58	June 17	123.20	Aug. 23	126.42		

783 (*777, p. 213; 840, p. 439; 845, p. 503; 886, p. 711; 909, p. 151; 939, p. 114; 947, p. 131). Houston Riding & Polo Club. 6 miles west of Houston courthouse. Measuring point, top of casing, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 16	58.32	Apr. 22	58.81	Aug. 24	62.82
Mar. 10	58.20	June 17	60.49	Sept.28	63.55

787 (*886 p. 711; 909, p. 151; 939, p. 114; 947, p. 131). American Service Co. At 1623 Westheimer Street, Houston. Measuring point, top of flange on casing, 5.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 16	75.19	June 17	78.26	Aug. 24	93.77
Apr. 22	74.92	July 21	80.38	Sept.29	93.78

737a. 779 (*886, p. 711; 909, p. 152; 939, p. 114; 947, p. 131). American Service Co. well 2. At 1623 Westheimer Street, Houston. Measuring point, top of casing at notch in collar, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 16, 83.87.

790 (*886, p. 712; 909, p. 152; 939, p. 114; 947, p. 131). Southern United Ice Co. At 4102 Alameda Street, Houston. Measuring point, top of casing, 1.5 feet below land surface. Water levels, in feet below land-surface datum, 1943: Jan. 22, 89.72; Mar. 9, 90.05; Dec. 4, 100.04.

798a. 778 (*886, p. 712; 909, p. 152; 939, p. 115; 947, p. 131). H. C. Weiss. At South Main and Sunset Streets, Houston. Measuring point, edge of air-line hole, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 16, 81.95; Sept. 28, 90.04; Dec. 4, 86.88.

807a. 840 (*886, p. 713; 909, p. 152; 939, p. 115; 947, p. 131). City of Bellaire. Houston, Rice and Jessamine Streets at Water Tower. Measuring point, top of 2½-inch measuring pipe, 1.5 feet above land surface. Measurements discontinued.

809 (*886, p. 713; 909, p. 152; 939, p. 115; 947, p. 131). Gem Electric & Ice Co. In Bellaire. Measuring point, top of casing, 4 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 16	71.05	Apr. 22	72.58	July 21	77.83
Mar. 10	71.70	June 17	74.14	Aug. 23	79.54

812. Harris County School for Girls. 7.75 miles southwest of Houston courthouse. Unused drilled well, diameter 6 inches, depth 400± feet. Measuring point, top of 1¼-inch eduction pipe, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: June 24, 53.13; July 21, 54.15; Aug. 24, 55.00.

820 (*886, p. 713; 909, p. 153; 939, p. 115; 947, p. 131). Institute Place. Alameda Road. Measuring point, top of casing, 0.4 foot above land surface. Measurements discontinued.

853 (#886, p. 713; 909, p. 153; 939, p. 115; 947, p. 132). Port City Ice Co. At 2715 McKinney Avenue, Houston. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: July 30, a/123.47; Aug. 23, a/128.79; Sept. 27, a/125.93; Dec. 3, a/122.62.

854 (#886, p. 714; 909, p. 153; 939, p. 115; 947, p. 132). Port City Ice Co. At 2715 McKinney Avenue, Houston. Measuring point, top of pump base, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 15, 101.82; Apr. 19, a/111.13; Sept. 27, a/137.36; Dec. 3, a/136.49.

868 (#886, p. 714; 909, p. 153; 939, p. 115; 947, p. 132). Hughes Tool Co. well 1. 3 miles southeast of Houston courthouse. Measuring point, top of casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: June 16, 81.32.

876 (#836, p. 714; 909, p. 153; 939, p. 115; 947, p. 132). Houston County Club. 3.75 miles southeast of Houston courthouse. Measuring point, pump base, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	98.30	Apr. 19	101.25	July 30	110.59	Sept. 27	111.70
Mar. 8	100.30	June 16	107.80	Aug. 23	110.65	Dec. 3	113.04

878 (#886, p. 714; 909, p. 153; 939, p. 115; 947, p. 132). Houston Compress Co. Anderson-Clayton Turning Basin, Houston. Measuring point, top of pump base, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	105.47	Apr. 20	108.89	Aug. 2	115.84	Dec. 3	118.98
Mar. 8	107.12	June 16	115.65	Sept. 27	118.55		

881 (#886, p. 715; 909, p. 153; 939, p. 116; 947, p. 132). Terminal Compress & Warehouse Co. At 82nd and Harrisburg Streets, Houston. Measuring point, top of tee, 3.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	104.59	Apr. 19	110.10	July 30	120.27	Sept. 27	120.34
Mar. 8	108.03	June 16	116.54	Aug. 23	119.00	Dec. 3	125.38

883 (#886, p. 715; 909, p. 153; 939, p. 116; 947, p. 132). Tennessee Coal & Iron Railroad Co. well 1. U. S. Steel Co. Near Morgan Line docks on bayou, 6.75 miles southeast of Houston post office. Measuring point, top of flange on discharge pipe, 15 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	119.29	Apr. 20	126.58	Aug. 2	131.90	Sept. 27	137.33
Mar. 10	123.18	June 17	132.05	Aug. 23	135.27	Dec. 7	140.00

890 (#886, p. 715; 909, p. 153; 939, p. 116; 947, p. 132). Texas Chemical Co. well 2. 6 miles southeast of Houston courthouse. Measuring point, top of pump base, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	127.54	Apr. 20	132.46	Aug. 23	142.49	Dec. 3	149.46
Mar. 8	130.43	Aug. 2	144.89	Sept. 27	146.00		

898a. 913 (#886, p. 716; 909, p. 154; 939, p. 116; 947, p. 133). Allen Estate. At Park Place Boulevard and Poplar Street, Houston. Measuring point, top of casing, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	102.55	June 16	108.27	Aug. 10	111.25	Sept. 27	113.62
Mar. 8	103.88	July 30	111.00	Aug. 23	111.79	Dec. 2	114.57
Apr. 19	104.78						

909 (#947, p. 133). J. W. Madden. 9 miles southeast of Houston post office. Measuring point, top of 2-inch board cover on casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 14, 40.32; June 22, 43.21; Sept. 13, 43.65.

a. Nearby well pumping.

933 (#947, p. 133). Champion Paper & Fibre Co. test well. 9 miles northeast of Houston courthouse. Measuring point, top of 3-inch collar, 1.8 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Jan. 18	76.60	Mar. 9	77.85	June 11	78.70	Aug. 23	81.25
Feb. 23	77.40	Apr. 26	77.45	17	79.77	Dec. 7	83.70

934 (#947, p. 133). Champion Paper & Fibre Co. test well. 9 miles northeast of Houston courthouse. Measuring point, top of 4-inch bushing, 0.6 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Jan. 18	60.50	Mar. 9	60.93	June 11	61.60	Aug. 23	62.73
Feb. 23	60.20	Apr. 26	61.40	17	62.05	Dec. 7	63.92

936. The Texas Co. well 2. At Camp Beaty, 9 miles northeast of Houston courthouse. Used drilled well, diameter 10-3/4 inches, screen from 568 to 615 feet. Measuring point, top of hole in pump base, 0.5 foot above land surface. Equipped with turbine pump.

Water level, in feet below land-surface datum, 1940, 1942-43

Date	Water level	Date	Water level	Date	Water level
July 10, 1940	a 83.50	Feb. 23, 1943	a 87.50	Aug. 2, 1943	69.61
Apr. 15, 1942	a 79.50	Apr. 26	a 88.50	10	96.73
Dec. 10	a 82.50	June 11	a 90.50	Dec. 7	100.55

939. San Jacinto Ordnance Depot construction well 2. At Main Street and C-1 road in depot, 14 miles east of Houston courthouse. Unused drilled well, diameter 8-5/8 inches, screen from 397 to 447 feet. Measuring point, top of casing, 1.5 feet above land surface. Turbine pump removed when construction completed. Water levels, in feet below land-surface datum: Aug. 10, 1941, b/95; Sept. 23, 1943, 118.16.

940. San Jacinto Ordnance Depot construction well 1. About 200 feet northeast of Main Street and M-M road in depot, 14.5 miles east of Houston courthouse. Unused drilled well, diameter 8-5/8 inches, screen from 399 to 449 feet. Measuring point, top of concrete foundation, 1.5 feet above land surface. Turbine pump removed when construction completed. Water levels, in feet below land-surface datum: Aug. 18, 1941, b/95; Sept. 23, 1943, 113.72.

943. Gulf Pipe-Line Co. At Gulf's Lynchburg pump station, 6.5 miles northwest of Goose Creek. Used drilled industrial well, diameter 6 inches, screen from 323 to 415 feet. Measuring point, top of 2-inch hole in side of 4-inch tee, 2.2 feet above land surface. Equipped with air lift. Water level, in feet below land-surface datum, 1943: Sept. 23, 84.19.

945. Harris County Water & Improvement District No. 1 well 2. At Highlands, 8 miles northwest of Goose Creek. Used drilled public supply well, diameter 8 inches, screen from 417 to 479, 508 to 524, and 569 to 589 feet. Measuring point, top of air-line hole in pump base, 1.9 feet above land surface. Equipped with turbine pump. Water levels, in feet below land-surface datum: April 1940, b/80; Sept. 22, 1943, 90.90.

947. Leon J. Vetrano. At Lyondell Park on bank of San Jacinto River, 11 miles northwest of Goose Creek. Used drilled well, diameter 12-3/4 inches, screen from 201 to 209, and 225 to 291 feet. Measuring point, top of breather hole in pump base, 1 foot above land surface. Equipped with turbine pump. Used only during summer to fill swimming pool. Water levels, in feet below land-surface datum: Feb. 9, 1940, b/65; Sept. 22, 1943, 72.28.

1019 (#836, p. 716; 909, p. 154; 939, p. 116; 947, p. 134). Captain Chas. Crotty. At Morgans Point, Houston, on bank of channel. Measuring point, top of 3/4-inch tee in air line, 1.1 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
June 16	83.65	Aug. 23	85.04	Dec. 2	85.70
July 30	84.79	Sept. 23	87.19		

a Airline measurements.

b Reported by driller.

1020 (*886, p. 716; 909, p. 154; 939, p. 116; 947, p. 134). U. S. Engineers Reservation. At Morgans Point, Houston. Measuring point, top of 3/4-inch air line, at land surface. Measurements discontinued after Aug. 23 because high tide covers well.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 13	82.88	Apr. 19	82.46	Aug. 23	83.43
Mar. 8	82.18	June 16	83.43		

1101a. 1100 (*886, p. 716; 909, p. 154; 939, p. 116; 947, p. 134). M. M. Graves Estate. 8.5 miles west of Goose Creek. Measuring point, lower edge of discharge pipe flange, 1.0 foot above land surface and 38 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 18	116.05	Apr. 19	118.05	Dec. 2	121.83
Mar. 8	116.53	July 30	120.51		

1104 (*909, p. 154; 939, p. 116; 947, p. 134). City of La Porte well 1. At La Porte water plant. Measuring point, top of tee in air line, 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 13	99.40	Apr. 19	99.63	Sept. 10	104.95
Mar. 8	99.38	June 16	100.99		

1121. W. R. McClendon. On Spencer Highway, 17 miles southeast of Houston courthouse. Used drilled domestic and stock well, diameter 4 inches, depth 580 feet. Measuring point, upper inside edge of opening in side of 4-inch cross, 1.0 foot above land surface. Equipped with cylinder pump. Water levels, in feet below land-surface datum: July 11, 1940, 80.57; Sept. 15, 1943, 108.07.

1152a. 1150 (*886, p. 717; 909, p. 154; 939, p. 116; 947, p. 134). City of Galena Park well 1. In Galena Park. Measuring point, top of special measuring hole, 1.0 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	132.40	Apr. 8	138.12	June 17	143.22	Dec. 2	152.74
Mar. 9	133.98	21	137.17	Aug. 23	150.24		

1154 (*886, p. 717; 909, p. 155; 939, p. 117; 947, p. 134). Universal Water Co. In Galena Park. Measuring point, top of 2- by 4-inch bushing, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	86.03	June 17	88.73	Aug. 23	90.31	Dec. 2	92.08
Apr. 21	86.74	Aug. 11	88.83	Sept. 27	91.36		

1161 (*886, p. 717; 909, p. 155; 939, p. 117; 947, p. 134). Sinclair Refining Co. well 6. 3 miles north of South Houston. Measuring point, top of concrete pit, 1.0 foot above land surface and 33 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
Jan. 28	5:15 p.m.	136.8	Apr. 29	9:00 a.m.	141.0
Feb. 8	5:00 p.m.	137.2	May 7	11:00 a.m.	141.4
17	1:00 p.m.	136.2	15	9:00 a.m.	142.8
24	9:00 a.m.	137.0	22	5:00 p.m.	142.8
Mar. 10	9:00 a.m.	137.8	31	9:00 a.m.	142.5
19	9:00 a.m.	135.8	June 8	9:00 a.m.	142.5
27	9:00 a.m.	135.7	16	9:00 a.m.	146.8
Apr. 5	9:00 a.m.	136.6	24	9:00 a.m.	147.1
13	9:30 a.m.	139.1	July 2	9:00 a.m.	144.5
21	9:00 a.m.	140.4	10	9:00 a.m.	146.3

1161. Sinclair Refining Co. well 6--Continued.

Water level, in feet below land-surface datum, 1943

Date	Hour	Water level	Date	Hour	Water level
July 17	5:30 p.m.	148.0	Oct. 11	9:00 a.m.	154.5
24	5:30 p.m.	149.5	19	9:00 a.m.	154.1
Aug. 7	9:00 a.m.	149.0	27	9:00 a.m.	151.7
14	9:00 a.m.	150.1	Nov. 3	9:00 a.m.	152.6
21	11:00 a.m.	151.4	12	9:00 a.m.	152.7
28	5:00 p.m.	153.7	22	9:00 a.m.	151.9
Sept. 4	3:00 p.m.	152.5	30	9:00 a.m.	153.6
20	9:00 a.m.	151.9	Dec. 8	9:00 a.m.	154.8
27	9:00 a.m.	154.8	16	9:30 a.m.	153.7
Oct. 4	9:00 a.m.	155.0	24	9:00 a.m.	154.3
5	9:00 a.m.	153.0			

1170 (*886, p. 718; 909, p. 155). Houston Lighting & Power Co. Deep-water plant, .425 miles north of South Houston. Measuring point, pump base, 1.0 foot above land surface and 25 feet above mean sea level.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Jan. 17, 1941	117.5	Oct. 28, 1941	116.5	Apr. 8, 1943	137.0
31	116.0	Nov. 12	119.5	May 18	137.0
Feb. 7	112.5	Dec. 11	118.5	July 1	139.0
24	118.5	Jan. 7, 1942	119.5	16	143.0
Mar. 25	115.5	Feb. 25	117.0	Aug. 1	141.0
Apr. 15	115.5	Mar. 25	120.5	16	145.0
May 16	115.5	Apr. 14	119.0	Sept. 1	145.0
June 6	121.5	22	121.0	17	146.0
July 3	119.5	May 14	118.5	Oct. 1	149.0
17	114.5	Sept. 9	125.5	18	153.0
Aug. 4	113.5	Oct. 1	130.5	Nov. 15	147.0
27	118.5	Dec. 16	134.0	Dec. 1	149.0
Sept. 27	116.0	Jan. 16, 1943	133.0	16	147.0
Oct. 17	118.5	Mar. 13	133.6		

1176 (*886, p. 718; 909, p. 155; 939, p. 117; 947, p. 135). The Texas Co. well 4. At refinery in Galena Park. Measuring point, top of open casing, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 18, 83.78.

1182 (*886, p. 719; 909, p. 156; 939, p. 117; 947, p. 135). Port Terminal Railway Co. At Pasadena, near southeast corner of Crown Refinery. Measuring point, top of casing, 2.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	147.38	Apr. 19	154.82	Aug. 23	165.82	Dec. 2	170.14
Mar. 9	150.52	Aug. 2	158.24	Sept. 27	170.69		

1194a. 1232 (*886, p. 720; 909, p. 156; 939, p. 117; 947, p. 135). About 0.5 mile south of Deepwater railroad station. Measuring point, top of 1-inch air line, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 18, 115.12. Measurements discontinued.

1205 (*909, p. 156; 939, p. 117; 947, p. 135). City of South Houston well 1. At South Houston water works. Measuring point, top of 3/4-inch opening in reducer on top of special 1 1/2-inch measuring pipe, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 18, 73.06; Apr. 19, 74.75.

1209 (*777, p. 214; 840, p. 439; 845, p. 503; 909, p. 156; 939, p. 117; 947, p. 135). Fireworks Co. 0.5 mile southeast of South Houston. Measuring point, top of air line, 4 feet above land surface.

1209. Fireworks Co.--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 18	63.60	Apr. 19	63.30	Aug. 23	65.63
Mar. 8	63.96	June 16	65.02	Dec. 2	67.68

1229 (*947, p. 135). City of Houston well 8. On Spencer Highway, 3 miles east of South Houston. Measuring point, top of collar on casing, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	109.58	June 16	114.12	Aug. 10	115.18	Sept. 27	116.21
Mar. 8	109.78	July 30	115.44	23	114.71	Dec. 2	118.56
Apr. 19	109.65						

1230 (*947, p. 136). City of Houston well 9. On Spencer Highway, 3 miles east of South Houston. Measuring point, top of collar on casing, 1.9 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	120.16	June 16	124.23	Aug. 10	124.64	Sept. 27	129.41
Mar. 8	122.23	July 30	124.05	23	126.01	Dec. 2	129.10
Apr. 19	123.59						

1234 (*947, p. 136). City of South Houston well 3. At South Houston waterworks. Measuring point, top of casing, 2.5 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 18	72.11	June 16	73.82	Dec. 2	76.10
Apr. 19	71.98	Sept. 27	75.52		

1266. City of South Side Place well 2. At South Side Place waterworks. Used drilled public supply well, diameter 8 inches, screen from 911 to 935, and 948 to 988 feet. Measuring point, bottom of pump base, 1 foot above land surface. Equipped with a 250 gallon-a-minute turbine pump. Water levels, in feet below land-surface datum: Sept. 1935, a/50; Oct. 1939, a/67; June 24, 1943, a/85; Dec. 4, 1943, a/89.

1267. City of South Side Place well 3. At South Side Place waterworks. Used drilled public-supply well, diameter 13 inches, screen from 484 to 504, 529 to 549, 584 to 604, 694 to 704, 719 to 749, and 869 to 889 feet. Measuring point, top of special measuring hole, 1.0 foot above land surface. Equipped with a 400 gallon-a-minute turbine pump.

Water level, in feet below land-surface datum, 1941, 1943

Date	Water level	Date	Water level	Date	Water level
May 6, 1941	64.00	July 21, 1943	67.02	Dec. 4, 1943	65.02
June 24, 1943	64.45	Sept. 28	68.32		

1302 (*777, p. 214; 840, p. 439; 845, p. 504; 947, p. 136). City of Genoa. In Genoa. Measuring point, hole in 6-inch casing, 1 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Jan. 13	97.67	Apr. 19	99.20	Aug. 17	106.04
Mar. 9	98.49	July 30	105.65		

1318 (*777, p. 214; 840, p. 439; 845, p. 504; 947, p. 137). J. M. West. 5.5 miles northwest of Webster. Measuring point, top of casing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 13, 8.03; June 22, 7.60.

1360 (*777, p. 214; 840, p. 439; 845, p. 504; 947, p. 137). Mrs. Fain. (S. Siabara). About 0.25 mile east of Webster. Measuring point, top of casing, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: June 22, 73.18; Aug. 17, 76.36.

1374. Harris County Fresh Water District No. 5. 9 miles east of Houston court house. Used drilled public-supply well, diameter 13-5/8 inches, screen from 640 to 662, 677 to 701, and 715 to 740 feet. Measuring point, top of hole in pump base, 3.0 feet above land surface. Equipped with a 520 gallon-a-minute turbine pump.

Water level, in feet below land-surface datum, 1940, 1942-43

Date	Water level	Date	Water level	Date	Water level
June 10, 1940	a 94	Dec. 10, 1942	all0	June 11, 1943	all19
Jan. 15, 1942	a105	Feb. 23	all4	Aug. 2	122.3
Sept. 16	a104	Apr. 26	all4	Dec. 7	133.65

1398. Mission Manufacturing Co. well 2. On U. S. Highway 59, 3.25 miles northeast of Houston courthouse. Used drilled industrial well, diameter 8-5/8 inches, screen from 519 to 572 feet. Measuring point, top of hole in pump base, 1.3 feet above land surface. Equipped with 300 gallon-a-minute turbine pump. Water levels, in feet below land-surface datum: June 6, 1939, 80; Sept. 20, 1943, 101.96.

1414. Owner's well 2. Harris County Water Control & Improvement District well 3. At 816 Rosslyn Street in Garden Oaks subdivision. Used drilled public-supply well, diameter 13-3/8 inches, screen from 362 to 426, 540 to 584, 682 to 766, and 794 to 814 feet. Measuring point, top of hole in pump base, 0.7 foot above land surface. Equipped with 1,120 gallon-a-minute turbine pump. Water levels, in feet below land-surface datum: Oct. 3, 1940, 91; June 24, 1943, 91.87; Aug. 24, 1943, 95.77.

Hays County

106 (*909, p. 157; 939, p. 118; 947, p. 137). Henry Armbruster. 1.25 miles northwest of Buda. Measuring point, top of casing, 0.75 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 1, 140.52; Dec. 17, 155.99.

110 (*909, p. 157; 939, p. 118; 947, p. 137). M. O. Rogers. 7 miles west of Buda. Measuring point, top of iron water pipe clamp, 0.2 foot above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 30, 51.42; Sept. 9, 51.99.

113. Otto Schwartz. 3.25 miles west of Buda. Used drilled domestic and stock well, diameter 6 inches, depth 312 feet. Measuring point, top of iron water pipe clamp, 0.6 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 2, 1937, 272.94; Mar. 5, 1943, 264.67; Sept. 9, 1943, 265.93; Dec. 21, 1943, 268.70.

126 (*909, p. 157; 939, p. 118; 947, p. 137). 9.75 miles west of Buda. Measuring point, top of casing, 1.4 feet above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 29, 91.40; Dec. 21, 91.62.

127 (*909, p. 157). M. G. Michaelis. About 300 feet north of county road, 6.25 miles southwest of Buda. Measuring point, top of iron water pipe clamp, 1 foot above land surface. No measurements made in 1943.

234a (*909, p. 157; 939, p. 118; 947, p. 137). N. E. Hughes. About 0.25 mile northwest of Wimberly. Measuring point, top of casing, 2.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 15.35; Sept. 11, 14.93; Dec. 18, 14.94.

348 (*909, p. 157; 939, p. 118; 947, p. 137). P. K. Karnes. 1.25 miles northwest of San Marcos. Measuring point, lower edge of notch in north side of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Mar. 15, 251.90. Measurements discontinued.

349 (*909, p. 158; 939, p. 118; 947, p. 137). E. Brooks. 1.75 miles northwest of San Marcos. Measuring point, top of iron water pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 6, 162.67; Sept. 9, 162.77; Dec. 21, 166.15.

a Air line measurement.

504 (*840, p. 440; 845, p. 504; 886, p. 720; 909, p. 158; 939, p. 118; 947, p. 137). Glynn C. Key. On U. S. Highway 290, 2.3 miles west of Hays-Travis county line. Measuring point, top of steel ring, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 35.62; Sept. 12, 36.12; Dec. 18, 36.72.

505 (*840, p. 440; 845, p. 504; 886, p. 720; 909, p. 158; 939, p. 118; 947, p. 137). Glynn C. Key. 2 feet north of well 504. Measuring point, top of concrete well block, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 64.43; Sept. 12, 63.38; Dec. 18, 65.70.

506 (*840, p. 440; 845, p. 504; 886, p. 720; 909, p. 158; 939, p. 118; 947, p. 137). John L. Tinney. About 0.7 mile east of Dripping Springs. Measuring point, south side of rock curb, 2.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 38.01; Sept. 12, 38.28; Dec. 18, 38.29.

507 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 158; 939, p. 118; 947, p. 137). John L. Tinney. 21 feet east of well 506. Measuring point, south side of galvanized-iron casing, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 61.48; Sept. 12, 63.30; Dec. 18, 63.63.

524 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 158; 939, p. 118; 947, p. 137). H. W. Hageman. 1.8 miles north of San Marcos. Measuring point, top of concrete curb, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 6, 32.34; Sept. 9, 32.69; Dec. 21, 33.08.

528 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 158; 939, p. 118; 947, p. 138). F. N. Whaley. 4.75 miles north of San Marcos. Measuring point, top of iron pipe clamp, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 15, 95.53; Sept. 9, 96.03; Dec. 21, 96.53.

529 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). Nicholas Thiële. At south edge of Kyle. Measuring point, top of steel pipe clamp, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 15, 139.78; Sept. 9, 143.27; Dec. 17, 143.41.

532 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). John Butler. Formerly owned by San Antonio Bank. 3.2 miles north of Kyle. Measuring point, top of steel pipe clamp, 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Mar. 15, 151.77.

534 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). S. B. Barber. In Buda. Measuring point, top of concrete well curb, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 1, 111.81; Apr. 13, 110.15; Sept. 9, 122.91; Dec. 17, 131.61.

535 (*840, p. 440; 845, p. 505; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). Thomas Yoe. On U. S. Highway 81, 0.2 mile south of Hays-Travis county line. Measuring point, top of concrete curb, 0.5 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	25.71	Apr. 29	25.98	July 28	25.98	Oct. 30	25.16
	25.95	May 31	25.97	Sept. 1	26.05	Nov. 28	26.20
Mar. 29	25.90	June 30	25.95	Oct. 4	25.09		

543 (*845, p. 505; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). W. P. Donaldson. 2.6 miles southwest of San Marcos. Measuring point, top of pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 12, 71.87; Sept. 9, 16.21; Dec. 21, 74.17.

553 (#840, p. 441; 845, p. 506; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). G. M. Jackson. 3 miles southwest of San Marcos. Measuring point, top of concrete curb below steel collar, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 12, 118.09; Sept. 10, 119.00; Dec. 21, 119.84.

585 (#840, p. 441; 845, p. 506; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). R. F. Clayton. 4.1 miles south of Wimberly. Measuring point, top of casing, 1.6 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 57.19; Sept. 11, 57.62.

586 (#840, p. 441; 845, p. 506; 886, p. 721; 909, p. 159; 939, p. 119; 947, p. 138). W. A. Leath. 1 mile southeast of Wimberly. Measuring point, top of north side of cedar pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Dec. 18, 38.70.

590 (#840, p. 441; 845, p. 506; 886, p. 722; 909, p. 160; 939, p. 119; 947, p. 138). Fred Boyett. 4.1 miles southwest of Wimberly. Measuring point, top of water pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 57.42; Sept. 11, 63.31.

591 (#840, p. 441; 845, p. 506; 886, p. 722; 909, p. 160; 939, p. 119; 947, p. 138). Fred Boyett. 100 feet south of well 590. Measuring point, top of casing, 2.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 8.81; Sept. 11, 44.54; Dec. 18, 45.14.

614 (#840, p. 441; 845, p. 507; 886, p. 722; 909, p. 160; 939, p. 119; 947, p. 138). J. D. McCall. 6.8 miles south of Dripping Springs. Measuring point, top of iron casing, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 23.28; Sept. 11, 88.97; Dec. 18, 93.99.

615 (#840, p. 441; 845, p. 507; 886, p. 722; 909, p. 160; 939, p. 120; 947, p. 138). Wiley Roberts. 4.6 miles south of Dripping Springs. Measuring point, top of cedar pipe clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 84.79; Sept. 11, 84.99; Dec. 18, 85.05.

629 (#840, p. 441; 845, p. 507; 886, p. 722; 909, p. 160; 939, p. 120). J. N. Byler. 6.5 miles north of Wimberly. Measuring point, top of steel water-pipe clamp, 0.4 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 13, 220.51; Sept. 11, 225.89.

677a (#845, p. 507; 886, p. 722; 909, p. 160; 939, p. 120; 947, p. 138). T. E. Hughes. At northwest edge of Wimberly. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 27.96; Sept. 11, 27.53; Dec. 18, 27.53.

677 (#840, p. 442; 845, p. 507; 886, p. 722; 909, p. 160; 939, p. 120; 947, p. 138). J. E. Bryant. 6.5 miles north of Wimberly. Measuring point, top of water pipe clamp, 1.6 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 96.30; Sept. 11, 96.60; Dec. 18, 97.20.

678 (#840, p. 442; 845, p. 507; 886, p. 722; 909, p. 161; 939, p. 120; 947, p. 138). J. E. Bryant. About 0.1 mile south of well 677. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 274.86; Sept. 11, 275.20; Dec. 18, 275.53.

706 (#840, p. 442; 845, p. 507; 886, p. 722; 909, p. 161; 939, p. 120; 947, p. 138). Jim Roberts. About 0.9 mile north of Wimberly. Measuring point, top of casing, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 6.72; Sept. 11, 35.97; Dec. 18, 66.24.

Hockley County

5 (*840, p. 444; 845, p. 509; 886, p. 724; 909, p. 163; 939, p. 121). Santa Fe Railway Co. In Smyer. Measuring point, top of iron casing, 1.6 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 88.90.

7 (*840, p. 445; 886, p. 724; 909, p. 163; 939, p. 121). Owner unknown. South line of lab. 23, Wm. Tubbs survey, 5.2 miles east of Levelland. Measuring point, top of steel casing, 0.8 foot above land surface. No measurements made in 1943.

21a (*845, p. 510; 886, p. 724; 909, p. 163; 939, p. 121; 947, p. 139). O. E. Lucas. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, blk. 1, 0.9 mile south and 3 miles west of Ropes. Measuring point, top of concrete curb, east side, 0.5 foot above land surface. Measurements discontinued.

22a (*845, p. 510; 886, p. 724; 909, p. 163; 939, p. 121; 947, p. 139). Town of Ropes. At east edge of small park, 0.4 mile east of railroad depot in Ropes. Measuring point, top of concrete well curb, 0.5 foot above land surface. Measurements discontinued.

24 (*840, p. 446; 845, p. 510; 886, p. 724; 909, p. 163; 939, p. 121; 947, p. 139). R. Y. Hughen. SW $\frac{1}{4}$ sec. 99, blk. A, R. M. Thomson survey, 2 miles southeast of railroad depot in Anton. Measuring point, top of concrete curb, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 17.85.

25 (*840, p. 446; 845, p. 510; 886, p. 724; 909, p. 163; 939, p. 121; 947, p. 139). Texas Highway Department. SW $\frac{1}{4}$ sec. 105, blk. A, R. M. Thomson survey, 0.6 mile east of railroad depot in Anton. Measuring point, top of casing, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 24.04.

28 (*840, p. 446; 845, p. 510; 886, p. 725; 909, p. 163; 939, p. 121; 947, p. 139). Dan Jackson and Paul Whitfield. NW corner SW $\frac{1}{4}$ sec. 106, blk. A, R. M. Thomson survey, 0.35 mile west and 0.5 mile south of railroad depot in Anton. Measuring point, lower edge of square port hole on side of pump, 2.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 26.92.

29 (*840, p. 446; 845, p. 511; 886, p. 725; 909, p. 163; 939, p. 121; 947, p. 139). A. L. Lindsey. SE corner SE $\frac{1}{4}$ sec. 124, blk. A, R. M. Thomson survey, 1.7 miles west of railroad depot in Anton. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 24.71.

125 (*845, p. 511; 886, p. 725; 909, p. 163; 939, p. 121; 947, p. 139). E. F. Allen. SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 87, blk. A, 1 mile west of railroad water tank in Roundup. Measuring point, bottom edge of 6- by 6-inch timber across well, at land surface. Measurements discontinued.

126 (*845, p. 511; 886, p. 725; 909, p. 163; 939, p. 121; 947, p. 139). W. M. Alexander. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 89, blk. A, 3 miles south of Anton. Measuring point, top of concrete well curb, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 20.71.

127 (*845, p. 511; 886, p. 725; 909, p. 163; 939, p. 121; 947, p. 139). Mr. Leeds. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 90, blk. A, 3 miles south of Anton. Measuring point, top of 1-inch cover board, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 12.79.

Howard County

51 (*817, p. 325; 840, p. 452; 845, p. 512; 886, p. 725; 909, p. 164; 939, p. 121; 947, p. 139). City of Big Spring. 6 miles southeast of Big Spring. Measurements furnished by city of Big Spring. Measuring point, top of casing, 0.7 foot above land surface.

Water level, in feet below land-surface datum, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.1	103.1	102.0	106.8	104.3	112.1	107.5	121.5	115.5	126.0	128.6
2	104.1	103.1	102.0	106.3	103.9	110.8	106.9	121.7	115.5	126.1	128.6
3	104.0	103.0	102.0	.....	106.0	109.5	107.5	137.3	115.3	126.0	128.7

51. City of Big Spring--Continued.

Water level, in feet below land-surface datum, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	104.0	102.9	102.5	109.8	106.5	109.1	107.9	121.8	114.4	125.9	129.5	
5	104.0	102.8	102.5	109.1	106.8	108.5	108.5	122.0	115.5	125.8	129.1	
6	103.9	102.8	102.2	112.1	106.0	108.2	107.9	122.2	116.8	126.2	129.5	
7	109.5	103.8	102.8	102.1	111.1	105.3	108.9	108.1	125.5	117.6	126.7	129.5
8	103.8	102.7	102.1	109.9	107.0	110.0	107.6	.....	119.0	126.7	129.5	
9	108.8	103.7	102.7	102.1	108.1	108.3	111.0	106.9	.....	119.6	126.8	130.0
10	107.6	103.7	103.1	102.0	107.3	111.0	112.1	106.5	.....	121.1	126.9	129.6
11	107.1	103.7	103.1	102.0	106.4	112.1	110.1	106.3	.....	120.6	126.9	129.5
12	106.5	103.7	103.0	101.9	105.9	110.8	109.0	107.1	.....	120.6	126.9	129.8
13	106.4	103.6	102.9	101.8	105.3	109.6	108.3	107.2	.....	120.6	127.2	130.5
14	106.2	.....	102.9	103.1	105.0	108.2	108.7	106.7	.....	121.2	127.5	130.3
15	105.8	103.5	102.8	102.5	104.6	108.7	108.2	106.5	.....	122.5	127.7	130.4
16	105.6	103.5	102.8	102.2	104.4	108.1	108.0	119.8	118.3	123.5	127.7	130.8
17	105.5	103.5	102.7	102.1	104.1	109.9	107.5	109.1	118.1	122.6	127.7	130.8
18	105.4	103.4	102.7	102.1	104.0	108.8	107.1	109.1	118.0	122.6	127.6	130.8
19	105.2	103.4	102.6	103.5	103.9	107.6	106.9	108.0	117.8	123.1	127.8	131.0
20	105.1	103.4	102.5	103.8	103.8	106.9	108.0	106.9	117.8	123.3	127.6	131.0
21	105.0	103.3	102.5	103.0	103.7	106.3	107.3	106.6	117.4	124.5	127.9	131.1
22	104.9	103.3	102.5	102.6	104.8	107.0	107.4	107.9	117.9	124.3	128.0	130.9
23	104.8	103.3	102.5	103.7	106.1	107.3	107.0	107.9	117.5	124.2	128.1	130.4
24	104.7	103.2	103.5	104.5	108.5	108.6	106.5	113.5	117.5	124.6	127.8	128.0
25	104.7	103.2	102.4	104.6	109.1	110.2	107.6	116.4	117.2	125.3	128.0	128.0
26	104.6	103.1	102.3	103.6	107.5	110.8	107.0	120.8	116.6	125.0	128.7	129.6
27	104.5	103.1	102.3	104.1	106.4	111.3	108.1	121.9	115.3	124.8	128.8	130.2
28	104.5	103.1	102.2	104.6	105.8	111.4	107.1	135.5	115.3	125.1	128.5	129.4
29	104.4	.....	102.2	105.4	105.5	112.0	107.3	134.2	115.5	125.6	127.9	129.2
30	104.3	.....	102.1	106.4	105.1	111.3	108.5	132.8	115.4	125.5	128.5	129.5
31	104.2	.....	102.1	.....	104.6	.....	108.8	129.5	.....	126.0	.....	129.5

56 (#840, p. 453; 845, p. 512; 886, p. 726; 909, p. 165; 939, p. 123; 947, p. 140). City of Big Spring. 6 miles southeast of Big Spring. Measuring point, top of 8-inch casing, 1 foot above land surface. Measurements furnished by city of Big Spring.

Water level, in feet below land-surface datum, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	109.7	108.2	106.9	117.8	109.9	126.2	114.6	154.0	126.5	152.3	155.2	
2	109.6	108.2	106.9	116.2	109.6	121.8	113.0	154.1	127.1	152.5	153.3	
3	109.5	108.1	106.7	.....	117.5	116.9	115.2	161.5	125.8	152.3	155.8	
4	109.4	108.0	108.9	127.3	116.6	117.3	.....	161.9	125.5	152.2	157.4	
5	109.4	107.9	108.8	119.3	117.0	115.6	116.8	153.1	126.5	152.5	156.2	
6	109.3	107.9	108.6	134.4	113.2	115.5	114.8	157.5	132.3	152.7	157.0	
7	125.8	109.3	107.8	108.4	129.6	111.8	118.5	115.6	155.2	134.7	153.8	156.6
8	118.5	109.2	107.8	108.2	123.3	116.3	121.2	114.1	.....	140.7	153.2	156.9
9	116.1	109.2	107.8	108.1	117.2	123.0	123.8	112.9	.....	141.8	153.2	158.8
10	114.2	109.1	108.2	107.9	114.7	127.2	127.0	112.3	.....	149.2	153.6	158.8
11	113.3	109.0	108.6	107.8	113.1	135.8	119.2	112.2	.....	144.6	153.6	158.4
12	112.6	109.0	108.1	107.7	112.2	127.0	116.1	114.2	.....	142.8	153.5	158.5
13	112.2	109.9	108.0	107.5	111.7	122.8	115.1	113.7	.....	142.8	153.9	159.0
14	111.8	.....	107.8	108.2	111.2	116.5	115.3	113.3	.....	144.1	154.2	159.0
15	111.2	108.8	107.8	107.7	110.8	119.3	115.0	113.2	.....	150.8	154.6	158.4
16	111.0	108.8	107.8	107.6	110.4	119.8	113.9	143.6	133.0	154.6	155.6	160.5
17	110.9	108.8	107.7	107.7	110.0	122.6	113.8	120.4	132.2	158.3	154.7	159.8
18	110.8	108.7	107.7	107.7	109.7	118.5	113.6	118.9	131.7	148.5	154.2	159.8
19	110.7	108.6	107.6	111.1	109.4	115.3	113.3	115.7	131.3	149.3	155.1	160.0
20	110.6	108.5	107.5	111.1	109.2	113.8	116.5	113.2	131.3	149.9	155.8	160.2
21	110.5	108.4	107.5	108.1	109.1	113.1	114.0	113.0	130.2	154.8	156.3	160.5
22	110.4	108.3	107.5	107.7	113.2	114.9	114.1	115.0	131.1	153.4	156.3	160.2
23	110.3	108.3	107.4	110.1	116.8	116.0	113.3	115.2	131.0	151.9	156.0	155.8
24	110.2	108.3	107.4	113.1	125.0	120.6	112.6	137.0	131.2	151.1	155.6	150.3
25	110.2	108.3	107.4	112.1	124.5	125.4	114.8	149.9	150.0	153.6	156.6	148.4
26	110.1	108.2	107.3	110.1	118.8	126.8	114.2	160.0	128.3	152.7	157.0	151.0
27	110.0	108.2	107.2	111.1	114.2	127.3	114.7	161.9	123.8	151.5	155.3	150.2
28	109.9	108.2	107.2	111.1	112.3	125.7	113.8	161.8	125.0	151.6	154.7	147.2
29	109.8	.....	107.1	115.1	111.6	127.3	114.6	158.8	125.7	152.5	153.7	147.3
30	109.8	.....	107.0	116.1	110.8	124.2	117.7	158.2	126.0	152.9	155.2	148.7
31	109.8	.....	107.0	.....	110.3	.....	117.6	158.4	.....	154.2	.....	149.8

65 (*817, p. 327; 840, p. 457; 845, p. 513; 886, p. 726; 909, p. 166; 939, p. 124; 947, p. 141). City of Big Spring. 6 miles southeast of Big Spring. Measuring point, top of 8-inch casing, 1.5 feet above land surface. Measurements furnished by city of Big Spring.

Water level, in feet below land-surface datum, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	110.3	108.8	107.7	113.3	110.1	118.7	113.3	130.3	124.7	138.7	143.1
2	.....	110.2	108.7	107.6	112.7	109.7	117.2	112.7	130.6	125.0	138.7	143.7
3	.....	110.1	108.7	107.6	.....	112.8	115.3	113.3	139.3	124.7	138.7	144.2
4	.....	110.0	108.4	110.0	117.3	113.0	115.2	113.0	131.2	118.7	138.6	143.8
5	.....	110.0	108.3	109.7	116.4	113.4	115.1	113.4	.....	124.4	138.7	143.7
6	.....	110.0	108.3	109.7	119.7	111.7	115.0	113.5	134.6	126.8	138.9	143.7
7	118.9	109.9	108.3	109.6	118.7	111.2	115.4	114.3	133.6	127.7	139.4	144.9
8	116.3	109.9	108.3	109.3	116.7	112.8	116.7	113.6	132.8	129.7	138.7	145.3
9	114.9	109.8	108.2	109.2	114.3	115.5	117.2	112.8	132.6	130.3	139.8	145.4
10	113.5	109.8	108.7	109.1	113.2	117.7	118.7	112.1	133.1	133.1	140.4	146.1
11	113.3	109.8	108.7	108.9	112.7	120.3	116.0	111.9	133.0	131.8	140.2	146.7
12	112.9	109.7	108.7	108.8	112.1	118.3	114.7	112.7	133.2	131.7	140.3	147.2
13	112.4	109.7	108.6	108.7	111.2	114.7	114.2	113.1	132.5	131.4	140.9	146.9
14	112.3	.....	108.5	109.0	110.7	113.7	114.7	112.8	126.5	132.1	141.3	146.5
15	112.7	109.6	108.4	108.7	110.4	115.3	114.3	112.6	125.9	135.0	142.1	146.4
16	111.5	109.5	108.4	108.7	110.2	115.7	113.5	123.4	127.0	135.7	142.5	147.3
17	111.4	109.4	108.3	108.6	110.0	117.1	113.3	115.1	126.9	134.6	141.4	147.3
18	111.3	109.4	108.3	108.4	109.8	115.4	113.1	115.4	126.6	134.7	141.9	147.3
19	.....	109.3	108.2	108.9	109.7	113.8	112.7	114.3	126.5	134.7	142.1	147.3
20	.....	109.3	108.1	109.3	109.6	113.0	114.3	113.2	126.1	135.6	142.1	147.3
21	.....	109.2	108.1	108.3	109.5	112.4	113.2	112.7	126.2	139.3	142.7	147.5
22	.....	109.2	108.1	108.1	111.0	113.5	113.3	113.3	126.6	137.0	144.3	147.3
23	110.8	109.1	108.1	109.4	113.3	113.5	112.4	113.4	125.7	136.8	144.3	146.7
24	110.8	109.1	108.0	110.3	115.8	115.2	112.2	115.8	126.7	137.3	142.5	144.8
25	110.7	109.1	108.0	110.3	116.3	117.7	113.6	119.7	126.1	137.7	143.7	143.5
26	110.7	109.0	107.9	109.3	113.8	118.2	113.0	128.8	125.1	137.7	143.3	144.4
27	110.6	109.0	107.9	109.8	112.6	117.7	114.2	129.6	123.8	137.7	144.1	.....
28	110.5	108.9	107.8	110.2	111.7	117.9	113.1	134.5	124.0	137.7	142.7	.....
29	110.4	.....	107.7	111.4	110.8	119.5	113.3	130.3	124.4	137.9	142.7	.....
30	110.3	.....	107.7	112.4	110.5	118.5	114.5	134.6	124.5	137.8	143.5	.....
31	110.3	.....	107.7	.....	110.3	.....	114.3	130.7	.....	138.7	.....	.....

606 (*840, p. 460; 845, p. 513; 886, p. 726; 909, p. 166; 939, p. 125). Mrs. Cora Eley. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, blk. 33, T. 1 S., 4.5 miles southwest of Big Spring. Measuring point, top of casing, 0.9 foot above land surface. No measurements made in 1943.

846 (*840, p. 460; 845, p. 513; 886, p. 726; 909, p. 166). Earl Phillips. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, blk. 32, T. 1 N., 6.5 miles north of Big Spring. Measuring point, top of concrete curb, south side, 1.0 foot above land surface. No measurements made in 1943.

853 (*840, p. 460; 845, p. 513; 886, p. 726). Soash Public School. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, blk. 34, T. 3 N., 18.75 miles northwest of Big Spring. Measuring point, top of pipe clamp, 1.1 feet above land surface. No measurements made in 1943.

859 (*840, p. 460; 845, p. 513; 886, p. 726). R. N. Adams. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 42, blk. 33, T. 3 N., 17.5 miles northwest of Big Spring. Measuring point, top of pipe clamp, 1.3 feet above land surface. No measurements made in 1943.

879 (*840, p. 460; 845, p. 514; 886, p. 726; 909, p. 166). J. H. Hanks. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 39, blk. 33, T. 2 N., 7.75 miles north of Big Spring. Measuring point, top of wood curb, east side, 3.4 feet above land surface. No measurements made in 1943.

893b (*840, p. 460; 845, p. 514; 886, p. 726; 909, p. 166). R. L. Schwerzenbach. NW $\frac{1}{4}$ sec. 30, blk. 32, T. 1 N., 3.5 miles north of Big Spring. Measuring point, top of plank curb, west side, 1.5 feet above land surface. No measurements made in 1943.

898 (*840, p. 460; 845, p. 514; 886, p. 726; 909, p. 166). R. B. Cline. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 46, blk. 33, T. 1 N., 7.5 miles north of Big Spring. Measuring point, top of concrete curb, 2.2 feet above land surface. No measurements made in 1943.

899 (*840, p. 460; 845, p. 514; 886, p. 726; 909, p. 166). J. W. Smith. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, blk. 33, T. 1 N., 7.5 miles north of Big Spring. Measuring point, top of concrete curb, south side, 2.2 feet above land surface. No measurements made in 1943.

915 (*840, p. 460; 845, p. 514; 886, p. 726). Mabel Quinn. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, blk. 34, T. 1 S., 7.75 miles southwest of Big Spring. Measuring point, top of steel casing, 1.8 feet above land surface. No measurements made in 1943.

942 (*886, p. 726; 909, p. 166). Burton Lingo Lumber Co. About 0.1 mile south of U. S. Highway 80, at west edge of Big Spring. Measuring point, top of water pipe clamp, south side, at land surface. No measurements made in 1943.

Jackson County

5 (*840, p. 461; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 141). Jackson County. At Upper Cordale school. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 34.43.

6 (*840, p. 461; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125). N. J. Marthiljohni. Windmill in pasture, without buildings, 50 feet west of county road, 1 mile south of Morales. Measuring point, top of casing, 1.0 foot above land surface. No measurements made in 1943.

7 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). D. W. Schropshire. 1.25 miles north of Navidad. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 41.72.

11-a (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). Nellie Miller Estate. About 5 miles south of Morales. Measuring point, top of casing, 1.9 feet above land surface. No measurements made in 1943.

12 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). J. L. Shepherd. 3.75 miles southeast of Morales. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 34.20.

14 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). Mrs. C. V. Watson. 2.3 miles north of Cordale. Measuring point, top of casing, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 34.31.

56 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). A. E. Nagel. At Cordale. Measuring point, top of 4-inch casing, 4 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 29.23.

57 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). S. G. Drushel. At crossroads 2.5 miles south of Cordale. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 36.26.

64 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). Wm. Clifford. 3.5 miles west of Edna. Measuring point, top of well platform, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 32.10.

66 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). S. J. and E. F. Swenson. 5 miles northeast of Edna. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 35.10.

69 (*840, p. 462; 845, p. 514; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). A. E. Westhoff. 2.5 miles northeast of Edna. Measuring point, top of wooden water pipe clamp, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 32.06.

- 71 (#840, p. 462; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). W. Rogers. 3.7 miles west of Edna. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 23.66.
- 76 (#840, p. 462; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 125). Southern Pacific Railway Co. In Edna, at southwest corner of Jackson County Courthouse square. Measuring point, top of heavy timbers, 1 foot above land surface. Measurements discontinued.
- 78 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 125; 947, p. 142). Rose, Sample, Taylor & Bagby. 2 miles east of Edna, opposite Manson railroad station. Measuring point, top of concrete curb, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 28.90.
- 88 (#840, p. 463; 845, p. 515; 947, p. 142). A. E. Westhoff. 6 miles south-southeast of Edna. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 17.68.
- 103 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 126; 947, p. 142). A. C. Wilbeck. 6 miles northwest of Ganado. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 35.71.
- 105 (#947, p. 142). A. M. Robinson. 4 miles north of Ganado. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 31.08.
- 108a (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 126; 947, p. 142). Sugarland Fig Growers Association. In Ganado. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 24.49.
- 115 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 126; 947, p. 142). R. W. Silliman. 5.3 miles southeast of Ganado. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 24.89.
- 123 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 167; 939, p. 126; 947, p. 142). Mrs. C. L. Gaines. 9 miles southeast of Ganado. Measuring point, top of casing, 2.9 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 19.50.
- 154 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 168; 939, p. 126; 947, p. 142). Mrs. C. W. Parfet. 4 miles east of Midway. Measuring point, top of 2-inch pipe, 6.8 feet above land surface. Well flowing; no measurements made in 1943.
- 156 (#840, p. 463; 845, p. 515; 886, p. 727; 909, p. 168; 939, p. 126; 947, p. 143). Bennie Elliott. About 0.2 mile west of Matagorda County line and 0.4 mile south of State Highway 35. Measuring point, top of 2-inch all, 3 feet above land surface. Well flowing; no measurements made in 1943.
- 180 (#840, p. 464; 845, p. 515; 886, p. 727; 909, p. 168; 939, p. 126; 947, p. 143). L. Ward. At Laward. Measuring point, top of casing, 1.5 feet above land surface. No measurements made in 1943.
- 229 (#840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126; 947, p. 143). W. A. Utzman. 3 miles north of Vanderbilt. Measuring point, top of curb, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 32.80.
- 230 (#840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126; 947, p. 143). Royal Dedman. 5.5 miles northeast of Vanderbilt. Measuring point, top of pipe clamp, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 34.79.
- 304 (#947, p. 143). O. B. Fenner. 6 miles northeast of Morales. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 41.34.

305 (#947, p. 143). O. B. Fenner. 5 miles northeast of Morales. Measuring point, top of casing, 0.5 foot above land surface. No measurements made in 1943.

313 (#947, p. 143). G. A. Harrison. 4 miles northeast of Edna. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 28.06.

318 (#947, p. 143). George Carstien. 5 miles north of Ganado. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 14, 29.83.

322 (#947, p. 143). Mrs. B. W. Martin. 2 miles northwest of Ganado. Measuring point, top of casing, 2.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 13, 29.19.

337 (#947, p. 143). Rose & Sample. 9 miles southeast of Ganado. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 19.44.

338 (#947, p. 143). Harry Wyer. 9 miles southeast of Ganado. Measuring point, lower edge of discharge pipe, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 19.02.

357 (#947, p. 143). A. V. Raplee. 10 miles south of Frantitas. Measuring point, lower edge of discharge pipe, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 7.91.

Jim Wells County

193 (#777, p. 215; 840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126). M. Morales. 3.5 miles west-northwest of Ben Bolt. Measuring point, top of wooden curb, 1.25 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 21.91.

201 (#777, p. 215; 840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126). Santos Garcia. 8.5 miles west-southwest of Ben Bolt. Measuring point, top of pipe clamp, 1.5 feet above land surface. Measurements discontinued.

206 (#777, p. 215; 840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126). Emilio Barrera. 6.5 miles west of El Par. Measuring point, top of concrete curb, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 49.86.

207 (#777, p. 215; 840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126). Roman Saenz. 6 miles west of El Par. Measuring point, top of casing, 1.25 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 71.47.

221 (#777, p. 215; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 126). Felix Perez Cadena. 6 miles west-northwest of Wadoto. Measuring point, top of concrete curb on south side, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 49.55.

222 (#777, p. 215; 840, p. 464; 845, p. 515; 886, p. 728; 909, p. 168; 939, p. 126). Manuel Cadena. 6 miles west-northwest of Wadoto. Measuring point, crack in floor, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 50.60.

242. Hormigas. ^a/_{King Estate}. 6.5 miles south of Ben Bolt. Used drilled stock well, diameter 5-3/16 inches, depth 480 feet. Measuring point, top of casing, 0.2 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: June 13, 1933, 53.78; Nov. 22, 1945, 69.42.

244. Ella well. ^a/_{King Estate}. 9.5 miles north of Fremont. Used drilled stock well, diameter 5-3/16 inches, depth 474 feet. Measuring point, top of casing, 0.8 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Feb. 7, 1933, 56.67; Nov. 22, 1945, 73.59.

a Owner's name for well.

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252 (*777, p. 215; 840, p. 464; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 126). Cerapio Hinojosa. 6.5 miles west-southwest of Ella. Measuring point, top of curb on south side, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 52.80.

253 (*777, p. 215; 840, p. 464; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 126). San Juan Hinojosa. 6.5 miles west-southwest of Ella. Measuring point, top of curb on south side, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 8, 54.74.

269. R. P. Wynne. 4 miles north of Premont. Used drilled domestic and stock well, diameter 5-3/16 inches, depth 500 $\frac{1}{2}$ feet. Measuring point, top of 4-by 6-inch wood water pipe clamp, 0.8 foot above top of casing and 1.4 feet above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Apr. 25, 1933, 37; Nov. 22, 1943, 62.59.

292. W. A. Cobb. 0.75 mile northwest of Premont. Used drilled industrial well, diameter 10 inches, depth 524 feet. Measuring point, top of 1-inch nipple in air line, 3.5 feet above land surface. Equipped with air-lift pump. Water levels, in feet below land-surface datum: Jan. 27, 1933, 43.54; Nov. 22, 69.01.

307. A. R. Clarke. 5.75 miles west of Premont. Used drilled stock and domestic well, diameter 5-3/16 inches, depth 390 feet. Measuring point, top of 4- by 4-inch wood water pipe clamp, 1 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 6, 1932, 43.8; Oct. 22, 1943, 60.93.

314. H. S. Hewitt. 2.75 miles west of Premont. Used drilled stock and domestic well, diameter 4 $\frac{1}{2}$ inches, depth 500 $\frac{1}{2}$ feet. Measuring point, top of casing, 1 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 27, 1932, 39.9; Nov. 11, 1943, 58.99.

316. C. T. Hewitt. 1.75 miles west of Premont. Used drilled stock and domestic well, diameter 5-3/16 inches, depth 700 feet. Measuring point, top of 4- by 4-inch wood water pipe clamp, 1.5 feet above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 26, 1932, 46.86; Nov. 11, 1943, 69.67.

346. Charlie Premont. 6 miles southwest of Premont. Used drilled stock and domestic well, diameter 8 inches, depth 482 feet. Measuring point, top of casing, 1 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 6, 1932, 27.1; Nov. 9, 1943, 41.15.

357. Nelson English. 1.75 miles south of Premont. Used drilled stock and domestic well, diameter 10 inches, depth 532 feet. Measuring point, top of 5- by 8-inch wood water pipe clamp, 1.2 feet above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Dec. 26, 1932, 35.24; Nov. 19, 1943, 57.44.

359. E. J. Corrigan. 3.25 miles south of Premont. Used drilled stock and domestic well, diameter 5-3/16 inches, depth 488 feet. Equipped with windmill. Measuring point, top of 6- by 6-inch wood water pipe clamp, 2.5 feet above land surface. Water levels, in feet below land-surface datum: Mar. 2, 1928, 22.7; Dec. 26, 1932, 27.54; Nov. 19, 1943, 49.69.

374 (*777, p. 216; 840, p. 464; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 126). E. G. Maun. 4.5 miles northwest of Fairfuries. Measuring point, top of casing, 2.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 6, 29.07; Oct. 14, 29.54; Nov. 9, 29.54.

377. Dale Maun. 7 miles southwest of Premont. Used drilled stock and domestic well, diameter 4 $\frac{1}{2}$ inches, depth 495 feet. Measuring point, top of casing, 3.2 feet above land surface. Equipped with windmill.

Water level, in feet below land-surface datum, 1932, 1939-41, 1943

Date	Water level	Date	Water level	Date	Water level
Dec. 6, 1932	6.36	Feb. 18, 1940	10.59	Oct. 10, 1943	27.39
Apr. 16, 1939	10.00	8, 1941	15.58	Nov. 11	27.39
Oct. 9	14.55				

382. J. H. Patzakowsky. 5 miles southwest of Premont. Used drilled stock and domestic well, diameter 6 inches, depth 700¹ feet. Measuring point, top of 6-inch tee, 1.3 feet above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Aug. 30, 1933, 21.8; Nov. 19, 1943, 44.94.

391 (*777, p. 216; 840, p. 464; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 126). O. A. Fore. 2.5 miles north of Falfurrias. Measuring point, top of casing, 1 foot above land surface. Measurements discontinued.

397. John Minten. 5 miles southeast of Premont. Used drilled stock and domestic well, diameter 6 inches, depth 540 feet. Measuring point, top of casing, 1 foot above land surface. Equipped with windmill. Water levels, in feet below land-surface datum: Aug. 12, 1933, 24.2; Nov. 19, 1943, 42.08.

399. J. M. Boone. 5.25 miles south of Premont. Used drilled irrigation well, diameter 12 to 8 inches, depth 600 feet. Measuring point, top of hole in base of pump, 0.2 foot above land surface. Equipped with deep-well turbine and electric motor. Water levels, in feet below land-surface datum: Dec. 5, 1932, 20.40; Oct. 14, 1943, 46.44; Nov. 11, 1943, 46.16.

418. City of Premont. In Premont. Used drilled public-supply well, diameter 8 inches, depth 520 feet. Measuring point, top of concrete at base of pump, 1.0 foot above land surface. Equipped with deep-well turbine and electric motor. Water level, in feet below land-surface datum, 1943; Nov. 11, 69.08.

Kinney County

XK1 (*840, p. 464; 845, p. 516; 886, p. 728; 909, p. 168; 939, p. 127; 947, p. 144). Ethel Whitaker. 2 miles west of Kline. Measuring point, top of wooden water pipe clamp, 1.05 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 71.33; Aug. 29, 70.85; Dec. 17, 72.36.

XK5 (*840, p. 465; 845, p. 516; 886, p. 728; 909, p. 169; 939, p. 127; 947, p. 144). Judge John Fritter. 6 miles east of Brackettville. Measuring point, top of iron water pipe clamp, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 30.59; Aug. 30, 29.81; Dec. 17, 28.09.

XK6 (*840, p. 465; 845, p. 516; 886, p. 728; 909, p. 169; 939, p. 127; 947, p. 144). Dr. B. F. Orr. 3.5 miles east of Brackettville. Measuring point, top of casing, 1.7 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 36.00; Aug. 29, 33.28.

XK9 (*840, p. 465; 845, p. 517; 886, p. 729; 909, p. 169; 939, p. 127; 947, p. 144). C. J. Poehler. 3.75 miles west of Brackettville. Measuring point, top of casing, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 39.25; Aug. 30, 38.78; Dec. 17, 36.45.

XK11 (*840, p. 466; 845, p. 517; 886, p. 729; 909, p. 169; 939, p. 127; 947, p. 144). J. F. Beidler. 7 miles west of Brackettville. Measuring point, top of casing under wooden water pipe clamp, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Dec. 17, 27.92.

XK12 (*840, p. 466; 845, p. 517; 886, p. 729; 909, p. 169; 939, p. 127). J. F. Beidler. 12.5 miles west of Brackettville. Measuring point, top of iron water pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 17.90; Aug. 30, 19.17; Dec. 17, 18.33.

XK13 (*840, p. 466; 845, p. 517; 886, p. 729; 909, p. 169; 939, p. 127; 947, p. 144). Howard Roberts. Formerly owned by Mac L. Weatherby. 17.5 miles west of Brackettville. Measuring point, top of iron water pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 30, 60.23; Dec. 17, 58.31.

XK17 (*909, p. 170; 939, p. 127; 947, p. 144). Jimmy Lowrance. 1 mile west of Brackettville. Measuring point, top of water pipe clamp, 0.4 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 50.58; Aug. 30, 51.21; Dec. 17, 50.40.

XK112 (*886, p. 729; 909, p. 170; 939, p. 127). E. Webb. 7.65 miles north of Brackettville post office. Measuring point, top of iron water pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 20, 202.14.

XK114 (*886, p. 729; 909, p. 170; 939, p. 127; 947, p. 144). E. Webb. 7.5 miles north of Brackettville. Measuring point, top of iron water pipe clamp, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 67.83; Aug. 29, 67.44; Dec. 17, 66.82.

XK116 (*886, p. 729; 909, p. 170; 939, p. 127; 947, p. 144). J.D. Harwood. 10 miles north of Brackettville. Measuring point, top of iron water pipe clamp, 0.3 foot below land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 138.66; Aug. 29, 135.08; Dec. 17, 111.27.

XK163 (*886, p. 730; 909, p. 170; 939, p. 127). Edward May. 12.8 miles west of Brackettville. Measuring point, top of iron water pipe clamp, 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 30, 72.36.

XK170 (*909, p. 170; 939, p. 127; 947, p. 144). Nolan & Postell. 13 miles northeast of Brackettville. Measuring point, top of iron water pipe clamp, 0.65 foot above land surface. No measurements made in 1943.

XK180 (*886, p. 730; 909, p. 171; 939, p. 127; 947, p. 144). N. P. Peterson. 9.5 miles northeast of Brackettville. Measuring point, top of iron water pipe clamp, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 27, 180.99.

XK187 (*909, p. 171; 939, p. 128; 947, p. 144). Mrs. G. A. Harrison. 9.5 miles east of Brackettville. Measuring point, top of iron water pipe clamp, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 79.41; Aug. 29, 79.60.

XK196 (*886, p. 730; 909, p. 171; 939, p. 128; 947, p. 144). Judge John Fritter. 4.75 miles northeast of Brackettville. Measuring point, top of wood pipe clamp, 1.6 feet above land surface. No measurements made in 1943.

XK198 (*909, p. 171; 939, p. 128; 947, p. 144). Charley Zinsmeister. 5 miles west of Brackettville. Measuring point, top of concrete curb, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 44.04; Dec. 17, 43.64.

XK199 (*909, p. 172-173; 939, p. 128; 947, p. 144). E. Webb. 1 mile north of Brackettville. Measuring point, top of casing, 1.8 feet below land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 38.73; Aug. 29, 38.01; Dec. 17, 37.34.

Kleberg County

13 (*773-D, p. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 128). Tamales. a/ King Estate. 8 miles northwest of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 3, 55.86; Nov. 13, 62.48.

15 (*773-D, pp. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 128). Purita. a/ King Estate. 5 miles northwest of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 3, 52.40; Nov. 13, 58.99.

23 (*773-D, pp. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 128). Caldero. a/ King Estate. 2.75 miles west-southwest of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 0.2 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 59.22; Nov. 17, 66.89.

a Owner's name for well.

- 31 (*773-D, p. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). Liberty. a/ King Estate. 2 miles south of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 48.06; Nov. 17, 53.69.
- 35 (*773-D, pp. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). Silo. a/ King Estate. 1.5 miles southeast of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 48.63; Nov. 17, 58.08.
- 64 (*773-D, pp. 210, 221; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). Rincon Caesar. a/ King Estate. 18 miles south-southeast of Santa Gertrudis ranch headquarters. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 4, 2.08; Nov. 10, 3.25.
- 73 (*773-D, pp. 210, 222; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). Joe Stelzig. 2 miles north-northeast of Kingsville. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 3, 52.63; Nov. 16, 64.46.
- 79 (*773-D, pp. 210, 222; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). W. H. Young. 1.25 miles north of Kingsville. Measuring point, top of casing, 3.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 62.50; measurements discontinued.
- 83 (*773-D, p. 210, 222; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). Texas College of Arts and Industries. 1.25 miles northwest of Kingsville. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Nov. 16, 64.00.
- 91 (*773-D, pp. 210, 222). City of Kingsville well 2. In Kingsville. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum: Apr. 11, 1939, 56.41; Oct. 11, 1939, 49.30; Feb. 6, 1941, 47.40; Mar. 3, 1943, 66.25.
- 92 (*773-D, pp. 210, 222). City of Kingsville well 3. In Kingsville. Measuring point, top of casing, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Mar. 3, 67.10.
- 127 (*773-D, pp. 211, 222; 845, p. 517; 886, p. 730; 909, p. 173; 939, p. 129). R. F. Preat. 2.5 miles south of Kingsville. Measuring point, top of casing, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 39.53.
- 144 (*773-D, pp. 211, 222; 845, p. 517; 886, p. 730; 909, p. 174; 939, p. 129). Joe Elsik. Formerly owned by Joe Stelzig. 3 miles southeast of Kingsville. Measuring point, top of casing, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 52.03.
- 150 (*773-D, pp. 211, 222; 845, p. 517; 886, p. 731; 909, p. 174; 939, p. 129). A. Robinson. 4 miles southeast of Kingsville. Measuring point, top of casing, 1.0 foot above land surface. Measurements discontinued.
- 179 (*773-D, pp. 211, 223; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 129). N. E. Selstad. 5 miles southeast of Kingsville. Measuring point, top of casing, 1.4 feet above land surface. Measurements discontinued.
- 188 (*773-D, p. 211, 223; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 129). J. R. Trussell. 3.5 miles south of Kingsville. Measuring point, top of casing, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 34.46.
- 190 (*773-D, pp. 211, 223; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 129). L. E. Flato et al. 4.5 miles south of Kingsville. Measuring point, top of casing, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 26.34.

a Owner's name for well.

217 (*773-D, pp. 211, 223; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 129). J. R. Trussell. 6 miles south of Kingsville. Measuring point, top of casing, 1.3 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 21.23.

257 (*773-D, pp. 211, 224; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 129). Mrs. J. Talty. 7.5 miles south of Kingsville. Measuring point, top of casing, 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 15.48.

278 (*773-D, pp. 211, 224). H. Andrews. 6 miles north of Riviera. Measuring point, top of casing, 1.8 feet above land surface. Water levels, in feet below land-surface datum: Oct. 12, 1939, 10.43; Feb. 5, 1941, 13.03; Feb. 4, 1943, 14.26.

282 (*773-D, pp. 211, 224; 845, p. 518; 886, p. 731; 909, p. 174). Pete Christensen. 3 miles north of Riviera. Measuring point, top of casing, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 5.45.

283 (*773-D, pp. 211, 224; 845, p. 518; 909, p. 174; 939, p. 129). W. H. Bensman. 3 miles north of Riviera. Measuring point, top of casing, 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 6.12.

375 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Noria Honda l. a/ King Estate. 12 miles west of Laureles ranch headquarters. Measuring point, top of casing, 2.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 11.37; Nov. 14, 17.02.

380 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Telephone l. a/ King Estate. 13 miles southwest of Laureles ranch headquarters. Measuring point, top of casing, 1.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 19.73; Nov. 14, 21.03.

382 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Tres Esquinas. a/ King Estate. 10 miles west-southwest of Laureles ranch headquarters. Measuring point, top of casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 6.55.

383 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Quantitos. a/ King Estate. 8.5 miles west-southwest of Laureles ranch headquarters. Measuring point, top of casing, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 2.68.

384 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Aljibes. a/ King Estate. 7 miles west of Laureles ranch headquarters. Measuring point, top of casing, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 11.43; Nov. 14, 13.31.

385 (*773-D, pp. 211, 226; 845, p. 518; 909, p. 174; 939, p. 129). Palacios. a/ King Estate. 8 miles west of Laureles ranch headquarters. Measuring point, top of casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Feb. 2, 5.39; Nov. 14, 7.69.

406 (*773-D, p. 211, 226; 845, p. 518; 909, p. 174; 939, p. 130). Mujeres Chiquitas. a/ King Estate. About 0.5 mile south of Laureles ranch headquarters. Measuring point, top of casing, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 20.98.

Lamb County

1 (*840, p. 466; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 130; 947, p. 145). H. H. Engleking. NW. corner SE $\frac{1}{4}$ sec. 14, blk. W, 11 miles west and 4.5 miles north of Earth. Measuring point, top edge of hole near base of pump, north side, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 67.03.

3a (*840, p. 466; 845, p. 518; 886, p. 731; 909, p. 174; 939, p. 130; 947, p. 145). J. O. Crawford. NW. corner SW $\frac{1}{4}$ sec. 30, blk. W, 11 miles west and 3 miles north of Earth. Measuring point, top edge of base of pump, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 21.85.

a Owner's name for well.

- 6 (#845, p. 518; 886, p. 731; 909, p. 174; 939, p. 130; 947, p. 145). Albert Lavigne. NW. corner SW $\frac{1}{4}$ sec. 35, blk. W, 12 miles west of Earth. Measuring point, top edge of flange on suction pipe, 17.5 feet below land surface. Water level, in feet above land-surface datum, 1943: Feb. 4, 16.55.
- 7 (#840, p. 466; 845, p. 518; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 145). Lillie Bickle. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. W, 11 miles west and 1 mile north of Earth. Measuring point, top of 2-inch plank across well, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 8.25.
- 8 (#840, p. 467; 845, p. 518; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 145). J. L. Withrow. NW. corner NE $\frac{1}{4}$ sec. 51, blk. W, 0.5 mile north of U. S. Highway 70 and 0.5 mile east of Bailey-Lamb county line. Measuring point, top of tile well curb, west side of pit, 0.1 foot above land surface. No measurements made in 1943.
- 13 (#840, p. 467; 845, p. 518; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 145). John Fryle. NW. corner NW $\frac{1}{4}$ sec. 45, blk. W, 10 miles west and 1.5 miles north of Earth. Measuring point, top of inside edge of concrete curb, west side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 11.58.
- 16 (#840, p. 467; 845, p. 519; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 145). R. L. Brown. NW. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 50, blk. W, 10 miles west and 3 miles north of Earth. Measuring point, top of pump base, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 29.31.
- 19 (#840, p. 467; 845, p. 519; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 145). Josephine Roubineck. NW. corner SE $\frac{1}{4}$ sec. 36, blk. W, 10.5 miles west and 2 miles north of Earth. Measuring point, top edge of concrete floor, south side of pipe, 17.8 feet below land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 11.98.
- 30 (#840, p. 467; 845, p. 519; 886, p. 731; 909, p. 175; 939, p. 130; 947, p. 146). J. M. Young. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 38, blk. W, 7 miles west and 2 miles north of Earth. Measuring point, top of casing in concrete, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 17.73.
- 33a (#886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). Halsell Cattle Co. NW $\frac{1}{4}$ sec. 88, blk. 2, 1.3 miles south of U. S. Highway 70, on east side of Sudan Road. Measuring point, top of tin bucket curb, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 13.53.
- 34a (#886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). Halsell Cattle Co. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 73, blk. 2, 0.3 mile south of U. S. Highway 70, on east side of Sudan Road. Measuring point, top of tin bucket curb, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 5.74.
- 38 (#840, p. 467; 845, p. 519). Zeb Smith. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 57, blk. 2, 5 miles west and 2 miles north of Earth. Measuring point, top edge of concrete pump foundation, 0.75 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 11, 33.78.
- 42 (#840, p. 467; 845, p. 519; 886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). Halsell Cattle Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 74, blk. 2, 4.5 miles west of Earth and 0.35 mile south of U. S. Highway 70. Measuring point, top of 2- by 12-inch cover, south side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 12.83.
- 60 (#840, p. 467; 845, p. 519; 886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). S. A. Davis. NW. corner SE $\frac{1}{4}$ sec. 69, blk. 1, 0.5 mile north-west of Springlake. Measuring point, top of pump base, through air line hole, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 66.80.
- 76 (#840, p. 468; 845, p. 519; 886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). F. E. Gladden. NW. corner NE $\frac{1}{4}$ sec. 12, blk. T1, T. A. T. survey, on north side of U. S. Highway 70, 0.5 mile northwest of Circle. Measuring point, lower edge of discharge pipe, 4.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 70.39.

76a (#845, p. 519; 886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). George Brown. SE corner NE. 68 acres in sec. 1, blk. T1, T. A. T. survey, 10 miles east of Earh. Measuring point, top of concrete curb, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 80.14.

88 (#845, p. 519; 886, p. 732; 909, p. 175; 939, p. 130; 947, p. 146). Halsell Cattle Co. SW $\frac{1}{4}$ lab. 20, lge. 238, 8.5 miles south of Earh. Measuring point, top of tin casing, at land surface. No measurements made in 1943.

88a (#845, p. 519; 886, p. 732; 909, p. 175; 939, p. 131). Halsell Cattle Co. 9 miles south of Earh. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 6.16.

89a (#886, p. 732; 909, p. 175; 939, p. 131; 947, p. 146). Halsell Cattle Co. SW $\frac{1}{4}$ lab. 21, lge. 237, 6.5 miles south of Earh. Measuring point, top of tin bucket curb, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 23.76.

91a (#886, p. 732; 909, p. 175; 939, p. 131; 947, p. 146). Halsell Cattle Co. East side lab. 1, lge. 237, 2.25 miles south of Earh. Measuring point, top of tin bucket curb, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Mar. 21, 4.65.

98a (#886, p. 733; 909, p. 175; 939, p. 131; 947, p. 146). Halsell Cattle Co. SW $\frac{1}{4}$ lab. 10, lge. 221, 8 miles southwest of Earh. Measuring point, top of tin bucket curb, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 34.32.

108 (#840, p. 468; 845, p. 519; 886, p. 733; 909, p. 175; 939, p. 131; 947, p. 146). Texas Highway Department. 4.7 miles northwest of Sudan railroad depot, on U. S. Highway 84 right-of-way, north side of pavement. Measuring point, top of 2-inch cover board over well, 0.1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 26.34.

230 (#840, p. 468; 845, p. 519; 886, p. 733; 909, p. 176; 939, p. 131; 947, p. 146). Owner unknown. Center of S $\frac{1}{2}$ of sec. 3, blk. S1, on south side of U. S. Highway 84, 2 miles northwest of Amherst. Measuring point, top of 4- by 4-inch pipe clamp, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 77.28.

231 (#840, p. 468; 845, p. 519; 886, p. 733; 909, p. 176; 939, p. 131; 947, p. 146). Vincent Peterman. Center of NE $\frac{1}{4}$ lab. 16, lge. 218, on south side of U. S. Highway 84, 2 miles southeast of Bailey-Lamb county line. Measuring point, top of steel casing, 1.0 foot above land surface. No measurements made in 1943.

236 (#840, p. 468; 845, p. 519; 909, p. 176; 939, p. 131; 947, p. 146). L. D. Criswell. NW $\frac{1}{4}$ SE $\frac{1}{4}$ lab. 24, lge. 649, 1 mile north of U. S. Highway 84, 2 miles east of Amherst. Measuring point, bottom edge of port hole in pump base, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 73.45.

238a (#845, p. 519; 886, p. 733; 909, p. 176; 939, p. 131; 947, p. 147). D. G. Black. SE $\frac{1}{4}$ lab. 20, lge. 633, 4.5 miles north of Amherst. Measuring point, top of steel casing, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 4, 46.44.

243 (#840, p. 468; 845, p. 519; 886, p. 753; 909, p. 176; 939, p. 131; 947, p. 147). Les Barker. Center of lab. 5, lge. 664, on south side of U. S. Highway 84, 1.5 miles northwest of Littlefield. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 75.30.

251a (#886, p. 733; 909, p. 176; 939, p. 131; 947, p. 147). G. Y. Oxford. NW $\frac{1}{4}$ lab. 17, lge. 644, 8.5 miles north of Littlefield. Measuring point, top of casing, 2.0 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 52.71.

259b (*845, p. 520; 886, p. 733; 909, p. 176; 939, p. 131; 947, p. 147). Lee Bennett. NE $\frac{1}{4}$ lab. 14, lge. 651, 6 miles north of Littlefield. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 71.05.

322 (*840, p. 468; 845, p. 520; 886, p. 734; 909, p. 176; 939, p. 131; 947, p. 147). Yellow House Land Co. NW corner lab. 16, lge. 671, on north side of U. S. Highway 84 and Panhandle & Santa Fe Railway, 4.5 miles southeast of Littlefield. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 35.75:

341a (*845, p. 520; 886, p. 734; 909, p. 176; 939, p. 131; 947, p. 147). Owner unknown. SE corner NW $\frac{1}{4}$ NE $\frac{1}{4}$ lab. 23, lge. 671, 0.5 mile north of Yellow House railroad switch. Measuring point, bottom edge of discharge pipe, 1.9 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 38.34.

342a (*845, p. 520; 886, p. 734; 909, p. 176; 939, p. 131; 947, p. 147). R. M. Love. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, blk. 1, R. M. Thomson survey, 30 feet south of U. S. Highway 84, 4.3 miles northwest of Anton railroad depot. Measuring point, top of 2- by 4-inch plank across well, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 35.99.

Lubbock County

3a (*845, p. 522; 886, p. 735; 909, p. 177; 939, p. 133). E. E. Winters. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 43, blk. P, east bank of draw, 17 miles northwest of Lubbock. Measuring point, top of wood-pipe clamp, 0.5 foot above land surface. No measurements made in 1943.

37 (*909, p. 177; 939, p. 133; 947, p. 148). S. E. Blair. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 149, blk. C, 17 miles northeast of Lubbock. Measuring point, bottom of discharge pipe, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 71.11.

64a (*845, p. 522; 886, p. 735; 909, p. 178; 939, p. 133; 947, p. 148). W. O. Fortenberry. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, blk. D, 0.4 mile east of U. S. Highway 87, 10.5 miles north of Lubbock. Measuring point, top of concrete pump foundation, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 83.35.

74a (*845, p. 522; 886, p. 735; 909, p. 178; 939, p. 133; 947, p. 148). J. S. George. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 37, blk. A, 1.5 miles west of U. S. Highway 87, 6.5 miles north of Lubbock. Measuring point, top of concrete wall curb, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 28.66.

74b (*886, p. 735; 909, p. 178; 939, p. 133; 947, p. 148). J. S. George. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 37, blk. A, 7.5 miles north of Lubbock. Measuring point, top of concrete curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 29.40.

77a (*845, p. 522; 886, p. 735; 909, p. 178). J. H. Felton. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, blk. 35, 6.5 miles north of Lubbock. Measuring point, top of concrete pump foundation, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 69.97.

81 (*840, p. 470; 845, p. 522; 886, p. 735; 909, p. 178; 939, p. 133; 947, p. 148). J. E. Vickers. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, blk. A, 0.2 mile west of U. S. Highway 87, 5 miles north of Lubbock. Measuring point, top edge of hole in pump base, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 40.00.

82a (*947, p. 148). R. E. Karper. Center of sec. 78, blk. A, 2.5 miles north of Lubbock. Measuring point, top of hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 50.38.

99 (*840, p. 470; 845, p. 522; 909, p. 178; 947, p. 148). R. B. Gray. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 37, blk. P, 4 miles northwest of Shallowater. Measuring point, top of concrete curb, inside trap door, west side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 20.66.

- 101 (*840, p. 470; 845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134). O. P. Bowser. SW corner sec. 38, blk. F, 4 miles west of Shallowater. Measuring point, bottom of square port hole on side of pump, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 61.68.
- 107 (*840, p. 470; 845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). B. G. Lokey. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, blk. D5, on north side of U. S. Highway 84, in Shallowater. Measuring point, top of casing, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 43.56.
- 118 (*845, p. 523; 886, p. 736; 939, p. 134; 947, p. 148). W. P. Martin. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, blk. JS, 9 miles west of Lubbock. Measuring point, top of concrete pump foundation, west side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 79.60.
- 121 (*840, p. 470; 845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). Claude Campbell. SE $\frac{1}{4}$ sec. 1, blk. D6, north of Carlisle Public School, and north of State Highway 24. Measuring point, bottom edge of square port hole on side of pump, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 72.70.
- 123 (*845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). Travis Tubbs. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, blk. JS, 6 miles west of Lubbock. Measuring point, top of concrete pump foundation, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 61.20.
- 128 (*845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). Rufus Rush. West line of SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, blk. E2, 0.6 mile north of State Highway 24, 2.5 miles west of Lubbock. Measuring point, top of concrete pump foundation, east side, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 37.87.
- 138 (*845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). Edith Collie. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, blk. JS, 7 miles northwest of Lubbock. Measuring point, top of concrete pump foundation, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 34.54.
- 139 (*840, p. 470; 845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 148). O. C. Ballard. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, blk. JS, 7 miles northwest of Lubbock. Measuring point, top of hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 21.43.
- 150a (*845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 149). M. C. Gibson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, blk. A, between U. S. Highway 84 and Panhandle & Santa Fe Railway, 5.5 miles northwest of Lubbock. Measuring point, top of wood box curb, west side, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 19.49.
- 151 (*840, p. 470; 845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 149). Broadview School. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, blk. A, on south side of U. S. Highway 84, 3 miles northwest of Lubbock. Measuring point, top of concrete curb, 0.1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 18.41.
- 154 (*886, p. 736; 909, p. 178; 939, p. 134; 947, p. 149). J. S. Hamilton. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, blk. A, 4 miles west of Lubbock. Measuring point, top of concrete curb, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 34.82.
- 156 (*845, p. 523; 886, p. 736; 909, p. 178; 939, p. 134; 947, p. 149). J. M. Phillips. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, blk. A, 0.6 mile south of U. S. Highway 84, 3 miles northwest of Lubbock. Measuring point, top of concrete well curb, north side, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 37.81.

188 (*840, p. 471; 845, p. 524; 886, p. 737; 909, p. 179; 939, p. 134; 947, p. 149). State Experiment Farm. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, blk. C, 3 miles east of Lubbock. Measuring point, top of concrete curbing, 1 foot above land surface. No measurements made in 1943.

219 (*886, p. 737; 909, p. 179; 939, p. 134; 947, p. 149). Ed Harrison. NW corner sec. 5, blk. RG, 9.5 miles east of Lubbock. Measuring point, edge of air line hole in pump base, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 34.78.

221 (*840, p. 471; 845, p. 524; 886, p. 737; 909, p. 179; 939, p. 134; 947, p. 149). Bill Turner. NW corner NW $\frac{1}{4}$ sec. 156, blk. C, on south side of U. S. Highway 62, 2 miles east of Idalou. Measuring point, top of pipe clamp, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 50.13.

222 (*845, p. 524; 886, p. 737; 909, p. 179; 939, p. 134; 947, p. 149). R. T. Groves. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, blk. RG, 1.2 miles south of U. S. Highway 62, 12 miles east of Lubbock. Measuring point, point of arrow on east wall of concrete trough, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 48.61.

223 (*845, p. 524; 886, p. 737; 909, p. 179; 939, p. 134; 947, p. 149). W. C. Grimes. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, blk. RG, 12 miles east of Lubbock. Measuring point, top of wood pipe clamp, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 42.63.

225 (*886, p. 737; 909, p. 179; 939, p. 135). Acuff Public School. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 122, blk. C, 13.5 miles east of Lubbock. Measuring point, top of concrete curb, 0.2 foot above land surface. Measurements discontinued.

228 (*840, p. 471; 845, p. 524; 886, p. 737; 909, p. 179; 939, p. 135; 947, p. 149). G. H. Hutchings. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 91, blk. C, 6 miles east of Idalou, along U. S. Highway 62 and 0.6 mile south on dirt road. Measuring point, top of steel casing, 2.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 65.24.

252b (*886, p. 737; 939, p. 135; 947, p. 149). Panhandle & Santa Fe Railway Co. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 43, blk. S, 14 miles southeast of Lubbock. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 98.41.

278 (*845, p. 524; 886, p. 738; 909, p. 179; 939, p. 135; 947, p. 149). Ed Putty. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, blk. B, 1.75 miles south of Lubbock. Measuring point, top of concrete well curb, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 77.05.

301 (*886, p. 378; 909, p. 180; 939, p. 135). New Hope Public School. SE corner sec. 68, blk. S, 8 miles south of Lubbock. Measuring point, top of concrete curb, west side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 50.20.

314 (*840, p. 471; 845, p. 525; 886, p. 738; 909, p. 180; 939, p. 135; 947, p. 149). T. B. Zelner. SW corner SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, blk. B, 4 miles southwest of Lubbock. Measuring point, bottom edge of square port hole on side of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 44.86.

316 (*840, p. 471; 845, p. 525; 886, p. 738; 909, p. 180; 947, p. 149). E. A. Hankins. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, blk. E2, 4.75 miles southwest of Lubbock. Measuring point, bottom edge of square port hole in side of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 61.15.

332 (*840, p. 471; 845, p. 525; 886, p. 738; 909, p. 180; 947, p. 150). Owner unknown. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, blk. CB, 1.5 miles south of Wolfforth. Measuring point, bottom of pipe clamp, 0.3 foot above land surface. No measurements made in 1943.

336a (*845, p. 525; 886, p. 738; 909, p. 180; 939, p. 135; 947, p. 150). Mrs. Mary Coons. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, blk. AK, 0.8 mile south of U. S. Highway 62, 10 miles southwest of Lubbock. Measuring point, lower edge of large opening on side of pump, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 76.58.

339 (#909, p. 180; 939, p. 135; 947, p. 150). J. E. Hinson. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, blk. AK, 8.5 miles west of Lubbock. Measuring point, top of $\frac{1}{2}$ -inch air line hole in pump base, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 59.84.

355 (#840, p. 471; 845, p. 525; 886, p. 738; 909, p. 180; 939, p. 135; 947, p. 150). J. A. Medlock. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, blk. CB, 0.5 mile west of U. S. Highway 62, 14 miles south of Lubbock. Measuring point, top of air line hole in pump base, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 82.95.

369 (#840, p. 471; 845, p. 525; 886, p. 738; 909, p. 180; 947, p. 150). A. D. Thomas. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, blk. 20, 0.5 mile west of U. S. Highway 87, 9.5 miles south of Lubbock. Measuring point, top of concrete curb, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 74.40.

376 (#886, p. 738; 909, p. 180; 947, p. 150). Union Public School. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. 20, 12.5 miles south of Lubbock. Measuring point, top of concrete curb, west side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 90.78.

383 (#840, p. 472; 845, p. 525; 886, p. 738; 909, p. 180; 947, p. 150). H. B. Hobgood. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, blk. CB, 14 miles southwest of Lubbock. Measuring point, top of wooden curb, 0.2 foot above land surface. No measurements made in 1943.

387 (#840, p. 472; 845, p. 525; 886, p. 738; 909, p. 180; 939, p. 135; 947, p. 150). W. J. Garrett. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, blk. B, 0.6 mile south of junction of U. S. Highway 62 and State Highway 24. Measuring point, top of pipe clamp, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 35.00.

388 (#840, p. 472; 845, p. 525; 886, p. 739; 909, p. 180; 939, p. 136). G. D. Taylor. NW corner SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, blk. B, 300 feet east of U. S. Highway 62, 0.35 mile southwest of junction with State Highway 24, on north edge of large lake. Measuring point, top of pipe clamp, 0.4 foot above land surface. No measurements made in 1943.

389 (#840, p. 472; 845, p. 525; 886, p. 739; 909, p. 180; 939, p. 136; 947, p. 150). E. Scott Jones. Center NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, blk. B, on east side of U. S. Highway 62, 0.2 mile southwest of junction with State Highway 24. Measuring point, top of pipe clamp, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 19.44.

391 (#840, p. 472; 845, p. 526; 886, p. 739; 909, p. 180; 939, p. 136; 947, p. 150). C. R. Moore. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, blk. D6, 6.75 miles west of junction of State Highway 24, and U. S. Highway 62. Measuring point, top of pipe clamp, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 76.75.

392 (#840, p. 472; 845, p. 526; 886, p. 739; 939, p. 136; 947, p. 150). Mrs. Betty Lindsey et al. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, blk. D6, on south side of State Highway 24, 10.25 miles west of junction with U. S. Highway 62. Measuring point, top of pipe clamp, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 91.20.

395 (#840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 150). H. W. Stanton. NW corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, blk. A, 2.5 miles north of Lubbock County courthouse. Measuring point, top of concrete pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 42.12.

397 (#840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 150). C. L. Dean. NE corner SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, blk. JS, 3.5 miles north and 3.5 miles west of Lubbock County courthouse. Measuring point, top of steel casing, 1.6 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 10.10.

398 (#840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 150). E. E. Ireland. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, blk. D6, 8.5 miles northwest of Lubbock. Measuring point, top edge of tractor rim, 1.4 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 10.29.

401 (*840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 150). Virginia Bacon. SE. corner SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 39, blk. D, 0.6 mile west of U. S. Highway 87, 8 miles north of Lubbock. Measuring point, top of iron casing at U notch, 0.1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 1, 68.52.

402 (*840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 150). Fort Worth & Denver City Railway Co. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 65, blk. A, on railway right-of-way at Kitalou switch, 0.2 mile north of U. S. Highway 62. Measuring point, top of casing, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 30.58.

403 (*840, p. 473; 845, p. 526; 886, p. 739; 909, p. 181; 939, p. 136; 947, p. 151). J. E. Smiley. SW. corner SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 56, blk. A, 8 miles northeast of Lubbock. Measuring point, top edge of pump housing at air line hole, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 28, 33.18.

Lynn County

604a (*909, p. 181; 947, p. 151). SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 391, blk. 5, 6.7 miles north of Tahoka. Measuring point, top of steel casing, 0.2 foot above land surface. No measurements made in 1943.

605 (*840, p. 474; 845, p. 527; 886, p. 739; 909, p. 181; 947, p. 151). L. King. NE. corner NE $\frac{1}{4}$ sec. 396, blk. 5, T. T. R. R. Co. survey, 8.3 miles north of Tahoka. Measuring point, top of concrete curb, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 58.65.

607 (*840, p. 474; 845, p. 527; 886, p. 739; 909, p. 181). Owner unknown. W $\frac{1}{4}$ sec. 3, blk. D23, 14.2 miles north of Tahoka. Measuring point, top of pipe clamp, 0.7 foot above land surface. No measurements made in 1943.

608 (*840, p. 474; 845, p. 527; 886, p. 739; 909, p. 181; 947, p. 151). Owner unknown. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 419, blk. 1, D. & S. E. R. R. Co. survey, 14.4 miles north of Tahoka. Measuring point, top of steel casing, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 97.97.

701 (*840, p. 474; 845, p. 527; 886, p. 740; 947, p. 151). E. E. Fagg. NE $\frac{1}{4}$ sec. 41, blk. 8, E. L. E. R. R. R. Co., 2.4 miles north of O'Donnell. Measuring point, top of wooden cover, 0.3 foot above land surface. No measurements made in 1943.

703 (*840, p. 474; 845, p. 527; 886, p. 740; 909, p. 151). T. L. McKinney. SW. corner NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, blk. 8, E. L. & R. R. R. Co. 3.65 miles north of O'Donnell. Measuring point, top of concrete curb, 0.7 foot above land surface. No measurements made in 1943.

705 (*840, p. 474; 845, p. 527; 886, p. 740). W. M. Massie. NW $\frac{1}{4}$ sec. 29, blk. 8, E. L. E. R. R. R. Co., 4.8 miles north of O'Donnell. Measuring point, top of casing, 0.7 foot above land surface. No measurements made in 1943.

713a (*909, p. 182; 947, p. 151). City of Tahoka. In Tahoka, 100 feet northeast of city standpipe. Measuring point, top of heavy timber pump base, 1.0 foot above concrete base. Water level, in feet below land-surface datum, 1943: Feb. 16, 75.25.

806 (*840, p. 475; 845, p. 527; 886, p. 740; 909, p. 182; 947, p. 151). Mr. Parker. SW. corner NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 53, blk. 8, 0.6 mile west and 0.2 mile north of O'Donnell water tower. Measuring point, top of pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 16, 33.30.

Matagorda County

3 (*840, p. 479; 845, p. 529; 886, p. 741; 909, p. 183; 939, p. 137; 947, p. 151). Southern Pacific Railroad Co. About 0.6 mile west of highway intersection at Midfield, 15 miles west of Bay City. Measuring point, top of casing, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 7.77.

33 (*840, p. 479; 845, p. 529; 886, p. 741; 909, p. 183; 939, p. 137; 947, p. 151). Turtle Bay School. 5 miles west of Palacios. Measuring point, top of 3/4-inch galvanized-iron ell, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 6.62.

40 (*840, p. 479; 845, p. 529; 886, p. 741; 909, p. 183; 939, p. 137; 947, p. 151). City of Palacios. At waterworks. Measuring point, top of 12-inch flange, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 15, 13.04.

Medina County

I-2-1 (*678, p. 118; 840, p. 479; 845, p. 529; 886, p. 741; 909, p. 184; 939, p. 138; 947, p. 151). W. A. Weynand. 7.8 miles north of D'Hanis. Measuring point is 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 26, 175.15.

I-2-7 (*678, p. 118; 840, p. 479; 845, p. 529; 886, p. 741; 909, p. 184; 939, p. 138; 947, p. 151). Alfred Schlentz. 8.2 miles north-northwest of Hondo. Measuring point is 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 196.69; Aug. 31, 195.89; Dec. 14, 203.76.

I-3-2 (*678, p. 118; 909, p. 184; 939, p. 138; 947, p. 151). Mr. Wilson. At waterworks in Hondo. Measuring point is 0.5 foot above land surface. Measurements discontinued.

I-3-3 (*678, p. 118; 840, p. 479; 845, p. 529; 886, p. 741; 909, p. 184; 939, p. 138; 947, p. 152). Gus Britch. 4.7 miles northeast of Hondo. Measuring point is 1.6 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 171.95; Aug. 27, 175.30; Dec. 14, 178.39.

I-3-4 (*678, p. 118; 840, p. 480; 845, p. 529; 909, p. 184; 939, p. 138; 947, p. 152). H. W. McClain. 7.2 miles northeast of Hondo. Measuring point is 1.7 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 174.79; Aug. 27, 176.70; Dec. 14, 182.15.

I-3-5 (*678, p. 118; 840, p. 480; 845, p. 529; 886, p. 741; 909, p. 184; 939, p. 138). Andrew Eckhart. Formerly owned by L. A. Heyen. 6 miles northeast of Hondo. Measuring point is 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 27, 149.33.

I-4-18 (*678, p. 120; 840, p. 480; 845, p. 530; 886, p. 741; 909, p. 185; 939, p. 138; 947, p. 152). Ross Kennedy Estate. 3.7 miles east of Sabin. Measuring point is 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 31, 211.80; Dec. 15, 219.41.

I-4-29 (*678, p. 120; 840, p. 480; 845, p. 530; 909, p. 185; 939, p. 138; 947, p. 152). Will Kelly. Formerly owned by Illinois Pipe Line Co. 6.3 miles southwest of D'Hanis. Measuring point is 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 194.83; Aug. 31, 201.33; Dec. 15, 208.39.

I-4-30 (*678, p. 120; 840, p. 480; 845, p. 530; 909, p. 185; 939, p. 138; 947, p. 152). Virgil Johnson. .12 miles southeast of D'Hanis. Measuring point is 3.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 29.73; Aug. 31, 35.35; Dec. 15, 43.15.

XM-1 (*840, p. 480; 845, p. 530; 886, p. 741; 909, p. 185; 939, p. 138; 947, p. 152). Lenard Otto. 1 mile east of Castroville. Measuring point, top of cement curb, 0.2 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 57.80; Aug. 26, 57.57; Dec. 14, 64.20.

KM-2 (*845, p. 530; 886, p. 741; 909, p. 185; 939, p. 138; 947, p. 152). F. O. Stinson. 6 miles north of Castroville. Measuring point, top of wood water pipe clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 140.12; Aug. 26, 145.00; Dec. 14, 147.54.

KM-3 (*840, p. 480; 845, p. 530; 886, p. 741; 909, p. 185; 939, p. 138; 947, p. 152). John Krenmueller. At Dunlay. Measuring point, top of iron water pipe clamp on top of casing, 1.8 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 26, 64.87; Dec. 14, 65.20.

Montgomery County

22 (*909, p. 187; 939, p. 139; 947, p. 152). City of Conroe. In Conroe. Measuring point, top of hole in flange cover, 2 feet above land surface. Water levels, in feet with reference to land-surface datum, 1943: Jan. 20, +1.07; June 21, -0.80; Aug. 26, -0.75.

29 (*840, p. 481; 845, p. 532; 886, p. 742; 909, p. 187; 939, p. 139; 947, p. 152). Brown Estate. 1.8 miles south of Conroe. Measuring point, top of brick curb, 2.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 15.23; Mar. 28, 16.81; June 21, 18.85; Aug. 26, 19.63.

45 (*840, p. 482; 845, p. 532; 886, p. 742; 909, p. 187; 939, p. 139; 947, p. 152). Blair & Sons. At Tamina. Measuring point, top of concrete curb, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 17.16; Mar. 28, 18.43; June 21, 21.46; Aug. 26, 21.63.

46 (*840, p. 482; 845, p. 532; 886, p. 742; 909, p. 187; 939, p. 140; 947, p. 152). E. W. Castleschout. 9.5 miles south of Conroe. Measuring point, top of concrete curb, 2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 31.29; Mar. 28, 30.96; June 21, 31.12; Aug. 26, 31.35.

57 (*909, p. 187; 939, p. 140; 947, p. 152). Mr. Hicks. 2.25 miles northwest of Conroe. Measuring point, top of casing, 2.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 20, 38.81; Mar. 28, 39.53; June 21, 39.53; Aug. 26, 39.66.

Nacogdoches County

18 (*947, p. 152). City of Cushion. In Cushion. Measuring point, top of 1-inch hole in inner pump base, 1.0 foot above land surface and 410 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	116.26	Apr. 12	116.66	Oct. 8	119.89	Dec. 2	119.98
Apr. 5	116.79	Oct. 2	118.22	15	119.05	28	120.83

66 (*840, p. 483; 845, p. 532; 886, p. 743; 909, p. 187). Texas Highway Department. 11.75 miles northeast of Nacogdoches. Measuring point, top of concrete bench, 3.2 feet above land surface. Measurements discontinued.

70 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188). A. M. Fashee. 4.25 miles southwest of Garrison. Measuring point, top of wooden curb, 2.7 feet above land surface. Measurements discontinued.

76 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188). Ed Weatherly. 0.25 mile northwest of railroad depot in Garrison. Measuring point, top of cement curb, 1.9 feet above land surface. Measurements discontinued.

113 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188). T. H. Hill. 7.8 miles northeast of post office in Nacogdoches. Measuring point, top of brick curb, 2.5 feet above land surface. Measurements discontinued.

113a (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188; 939, p. 140; 947, p. 153). A. W. McCruistian. 7.2 miles northeast of Nacogdoches. Measuring point, top of discharge pipe, 1.8 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	74.41	Apr. 28	74.71	Oct. 2	76.33	Oct. 22	77.15
22	74.43	June 26	75.25	8	76.59	Dec. 2	76.50
Mar. 29	74.83	Aug. 19	75.84	15	76.32	28	76.44
Apr. 12	74.56						

120 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188; 939, p. 140; 947, p. 153). Southern Ice Co. In Nacogdoches. Measuring point, top of concrete curb, 3.4 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	29.64	Apr. 25	30.35	Oct. 9	36.43	Dec. 28	38.68
21	29.16	Oct. 3	35.88	23	35.05		

120a (*909, p. 188; 939, p. 140; 947, p. 153). Southern Ice Co. In Nacogdoches. 30 feet south of well 120. Measuring point, top of flange at top of casing, 1.0 foot above land surface. Measurements discontinued after Dec. 28; well partly filled up.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	19.18	Apr. 25	20.14	Oct. 9	21.16	Dec. 28	18.13
21	19.44	Oct. 3	21.64	23	21.45		

121 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188; 939, p. 140; 947, p. 153). City of Nacogdoches. In city park, 100 feet west of well 122. Measuring point, top of steel pump base, 2.6 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	50.45	Apr. 11	51.12	Oct. 9	58.17	Oct. 23	57.08
21	49.45	Oct. 3	56.84	16	56.50	Dec. 28	60.76
Mar. 28	50.11						

122 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188; 939, p. 140; 947, p. 153). City of Nacogdoches. In city park, 100 feet east of well 121. Measuring point, top of steel pump base, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	48.72	Apr. 11	49.47	Oct. 9	56.58	Oct. 23	56.94
21	47.75	Oct. 3	54.94	16	54.59	Dec. 28	58.34
Mar. 28	48.42						

127. J. Thomas Hall. 2.75 miles north of Nacogdoches. Used drilled oil test well, converted to domestic and stock well, diameter 4 inches, depth 2,007 feet. Casing perforated at 540 feet. Measuring point, top of tee on discharge pipe, 1.5 feet above land surface. Equipped with airlift.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	143.50	Apr. 28	143.59	Oct. 2	148.65	Oct. 22	147.93
Feb. 10	143.74	June 26	146.89	8	148.25	Dec. 2	146.98
22	145.10	Aug. 19	147.87	15	148.26	28	146.44
Mar. 29	143.28						

128 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188). R. L. Whitmire. 3.85 miles north of post office in Nacogdoches. Measuring point, top of wooden curb, 5.9 feet above land surface. Measurements discontinued.

132 (*840, p. 483; 845, p. 533; 886, p. 743; 909, p. 188). M. H. Dennard. 5.70 miles north of post office in Nacogdoches. Measuring point, top of wood curb, 2 feet above land surface. Measurements discontinued.

156. Sam Hayter. 7 miles northwest of Nacogdoches. Used drilled oil test well, converted to irrigation well, diameter 10 inches, depth 4,314 feet, cased to 400 feet. Measuring point, top of 4-inch pipe inside casing, 0.5 foot above land surface.

156. Sam Hayter--Continued.

Water level, in feet below land-surface datum, 1942-43

Date	Water level	Date	Water level	Date	Water level
Sept. 18, 1942	4.19	Apr. 12, 1943	4.50	Oct. 8, 1943	6.58
Jan. 15, 1943	4.13	June 22	5.39	15	6.45
Feb. 17	4.58	Aug. 19	5.94	22	6.54
22	4.43	Oct. 2	6.40	Dec. 2	6.31
Apr. 5	4.68				

178 (#909, p. 188; 939, p. 140; 947, p. 154). Shell Pipe Line Co. 12 miles west of Nacogdoches. Measuring point, top of steel plate supporting water pipe, 0.2 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	94.20	Apr. 12	95.53	Oct. 8	97.39	Dec. 2	98.00
22	96.48	Aug. 18	97.22	15	97.28	28	98.75
Mar. 29	95.58	Oct. 2	97.18	22	97.39		

198 (#840, p. 434; 845, p. 533; 886, p. 743; 909, p. 188; 939, p. 140; 947, p. 154). Piney Woods Country Club. 4.8 miles southeast of Nacogdoches. Measuring point, top of discharge pipe, 1.8 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 6	41.35	Apr. 11	42.53	Oct. 10	45.74	Oct. 23	44.59
21	41.41	25	41.72	16	45.32	Dec. 18	46.96
Mar. 29	41.59	Oct. 3	45.44				

199 (#840, p. 434; 845, p. 533; 896, p. 745; 909, p. 188). Hillard Stone. 4.2 miles south-southeast of Nacogdoches. Measuring point, top of brick curb, 2 feet above land surface. Measurements discontinued.

206 (#947, p. 154). Southern Creosote Co. In Nacogdoches. Measuring point, top of collar on top of casing, 2.5 feet above land surface and 277 feet above mean sea level. Measurements discontinued.

271 (#909, p. 188; 939, p. 140; 947, p. 154). L. C. Jacobs. 1 mile southeast of Woden. Measuring point, top of casing, 7 feet above land surface.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	26.0	Aug. 30	23.0	Oct. 8	20.7	Oct. 22	21.9
26	21.3	Oct. 2	23.0	15	21.3	Nov. 29	22.1
Apr. 22	27.9						

321 (#947, p. 154). Southland Paper Mills, Inc., well W-1-CX. 10 miles south of Nacogdoches. Measuring point, top of casing, 1.0 foot above land-surface and 203 feet above mean sea level.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	81.6	Apr. 2	81.9	Apr. 30	80.9	Aug. 30	78.8
12	79.0	8	82.2	May 17	81.7	Oct. 2	78.1
19	80.5	16	81.9	26	82.4	Nov. 29	78.7
26	79.0	22	82.1	June 15	82.1	Dec. 29	78.7
Mar. 26	82.2						

322 (#947, p. 154). Southland Paper Mills, Inc., well C-1-CX. 10 miles south of Nacogdoches. Measuring point, top of collar on top of casing, 1.7 feet above land surface and 202 feet above mean sea level.

Water level, in feet with reference to land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	+0.84	Apr. 8	+0.93	June 11	-7.37	Oct. 8	-4.77
12	-0.04	16	+0.6	15	-7.49	15	+0.7
19	-1.10	22	-0.80	23	-7.11	22	-3.42
26	-0.75	30	-3.88	July 27	-8.69	27	-5.91
Mar. 5	+0.24	May 17	-6.34	Aug. 30	-5.87	29	-13.83
26	+0.39	26	-6.94	Oct. 2	-9.59	Dec. 29	-14.53
Apr. 2	+0.51						

323 (#947, p. 155). Southland Paper Mills, Inc., well S-1-CX. 10 miles south of Nacogdoches. Measuring point, top of collar on top of casing, 1.8 feet above land surface and 202 feet above mean sea level.

Water level, in feet above land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	7.05	Apr. 2	5.01	May 17	8.23	July 27	4.88
12	7.05	8	7.48	26	7.39	Aug. 30	5.11
19	7.11	16	7.80	June 11	4.63	Oct. 2	5.01
26	7.09	22	6.88	15	4.72	Nov. 29	5.05
Mar. 5	5.44	30	7.04	23	4.67	Dec. 29	4.72
26	3.40						

324 (#947, p. 155). Southland Paper Mills, Inc., well W-1-AL. 11 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, 1.5 feet above land surface and 298 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	53.20	Apr. 2	54.08	May 26	54.86	Oct. 2	56.94
12	53.56	16	54.22	June 11	55.12	8	57.08
19	54.31	22	54.30	July 27	55.91	15	57.12
26	53.88	30	55.45	Aug. 6	56.10	22	57.21
Mar. 26	53.80	May 16	54.78	30	56.50	Nov. 29	57.67

325 (#947, p. 155). Southland Paper Mills, Inc., well C-1-AL. 11 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, 1.7 feet above land surface and 299 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	80.98	Apr. 8	80.93	June 11	81.10	Oct. 8	82.88
12	80.99	16	80.94	July 17	81.42	15	81.93
19	80.98	22	80.92	Aug. 6	81.47	22	81.98
26	80.97	30	80.92	30	81.63	27	81.98
Mar. 26	80.96	May 16	80.93	Oct. 2	81.85	Nov. 29	82.17
Apr. 2	80.94	26	80.98				

326 (#947, p. 155). Southland Paper Mills, Inc., well S-A1-AL. 11 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, 1.1 feet above land surface and 299 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	101.08	Apr. 8	102.25	May 16	102.59	Aug. 6	102.30
12	102.43	16	101.23	26	102.60	30	102.57
19	102.64	22	102.35	27	102.65	Oct. 2	102.82
26	102.46	30	102.50	30	101.53	22	102.96
Mar. 26	102.18	May 8	102.46	July 27	102.17	Nov. 29	103.12
Apr. 2	102.35						

327 (#947, p. 156). Southland Paper Mills, Inc., well S-B1-AL. 11 miles southeast of Nacogdoches. Measuring point, top of casing, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	96.17	Apr. 8	95.92	May 17	95.91	Aug. 6	97.08
12	96.34	16	95.77	26	96.09	30	97.48
19	96.38	22	95.62	27	96.12	Oct. 2	97.83
26	96.47	30	95.72	31	96.14	22	97.02
Mar. 26	95.87	May 8	95.84	July 27	97.98	Nov. 29	98.11
Apr. 2	95.99						

329 (#947, p. 156). Southland Paper Mills, Inc., well S-A3-AL. 9.5 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, 0.3 foot above land surface and 280 feet above mean sea level.

329. Southland Paper Mills, Inc.-Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	90.14	Apr. 8	90.20	May 17	90.50	Aug. 6	92.18
12	90.31	16	90.27	26	90.83	30	92.34
19	90.38	22	90.30	27	90.89	Oct. 27	92.75
26	90.36	30	90.40	30	90.95	Nov. 29	92.82
Apr. 2	90.26	May 8	90.37	July 27	92.10		

330 (#947, p. 156). Southland Paper Mills, Inc., well S-B5-AL. 9.5 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, 0.5 foot above land surface and 281 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	100.53	Apr. 8	99.58	May 17	100.59	Aug. 6	101.20
12	100.60	16	100.48	26	100.80	30	101.25
19	100.58	22	100.41	27	100.79	Oct. 27	101.40
26	101.61	30	100.55	31	100.63	Nov. 29	101.32
Apr. 2	100.44	May 8	100.43	July 27	101.04		

331 (#947, p. 156). Southland Paper Mills, Inc., well W-4-AL. 8 miles southeast of Nacogdoches. Measuring point, top of collar on top of casing, at land surface and 270 feet above mean sea level.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	43.63	Apr. 8	44.23	June 15	44.51	Oct. 10	46.15
12	43.99	16	44.46	July 13	44.99	15	45.91
19	44.08	22	44.42	28	45.24	22	45.56
26	44.10	30	44.48	Aug. 6	45.57	Nov. 29	46.48
Mar. 26	44.06	May 17	44.60	30	45.78	Dec. 29	47.30
Apr. 2	44.31	26	44.48				

Farmer County

2 (#840, p. 485; 845, p. 534; 886, p. 745; 939, p. 141; 947, p. 157). Panhandle & Santa Fe Railway Co. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, blk. Z, in Lariat. Measuring point, lower edge of steel plate welded over casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 101.82.

6 (#840, p. 485; 845, p. 534; 947, p. 157). Mrs. K. Hamlin. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 16 S., 2.5 miles east of Farwell. Measuring point, top of casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 12, 154.48.

8 (#840, p. 486; 845, p. 534). Mrs. A. Parker. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 43, blk. A, 3.5 miles northeast of Farwell. Measuring point, top of casing, 5.0 feet above land surface. No measurements made in 1943.

9 (#840, p. 486; 845, p. 534; 886, p. 745). J. A. Jones. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 9 S., 3 miles east and 3 miles north of Farwell. Measuring point, top of 4- by 4-inch wooden pipe clamp. No measurements made in 1943.

10 (#840, p. 486; 845, p. 535). J. M. Gunn. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 7 S., 2 miles south and 1 mile west of Bovina. Measuring point, top of casing, 1 foot above land surface. No measurements made in 1943.

11 (#840, p. 486; 845, p. 535; 886, p. 745). Mr. Davidson. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, blk. E, east side of Bovina. Measuring point, top of casing, 2 feet above land surface. No measurements made in 1943.

11a (#845, p. 535; 886, p. 745). T. J. Hawks. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, Davis survey, 21.5 miles northeast of Bovina. Measuring point, top of steel casing, 0.8 foot above land surface. No measurements made in 1943.

12 (#840, p. 486; 845, p. 535). Capitol Syndicate. Northeast part of sec. 11, T. 7 S., 1 mile east and 1 mile north of Bovina. Measuring point, top of casing, 1 foot above land surface. No measurements made in 1943.

15 (*840, p. 486; 845, p. 535; 886, p. 745; 947, p. 157). A. C. Hays. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 1 N., R. 5 E. 1 mile southeast of Black. Measuring point, top of concrete base, 1 foot above land surface. No measurements made in 1943.

Randall County

6a (*845, p. 535; 886, p. 746; 909, p. 190; 939, p. 141; 947, p. 157). Owner unknown. NW. corner NW $\frac{1}{4}$ sec. 4, blk. 9, 10.5 miles north of Canyon. Measuring point, top of steel casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 8, 144.82; Mar. 16, 144.91.

76 (*840, p. 487; 845, p. 536; 909, p. 190; 939, p. 141; 947, p. 157). C. H. Ray. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, blk. 1, T. T. R. R. survey, 4.75 miles north of Canyon. Measuring point, top of wooden pipe clamp, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 8, 106.80.

83a (*845, p. 536; 886, p. 746; 909, p. 190; 939, p. 141; 947, p. 157). Owner unknown. SE. corner NE $\frac{1}{4}$ sec. 28, blk. B5, 2 miles west of Canyon. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 79.48.

103 (*840, p. 487; 845, p. 536; 886, p. 746; 909, p. 190; 939, p. 141; 947, p. 157). W. H. Bush Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 64, blk. B5, 1.2 miles south of Canyon. Measuring point, top of wooden pipe clamp, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 8, 9.27.

117 (*845, p. 536; 886, p. 746; 909, p. 191; 939, p. 142; 947, p. 158). Melton Dooley. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 128, blk. B5, 4.75 miles south of Canyon. Measuring point, top of steel casing, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 10, 35.56.

145a (*845, p. 536; 886, p. 746; 909, p. 191; 939, p. 142; 947, p. 158). Owner unknown. SE. corner NE $\frac{1}{4}$ sec. 10, blk. B5, 7.5 miles west of Canyon. Measuring point, top of casing, 0.3 foot above land surface. No measurements made in 1943.

160a (*845, p. 536; 886, p. 746; 909, p. 191; 939, p. 142). Owner unknown. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, blk. B5, 9.5 miles west of Canyon. Measuring point, top of wood pipe clamp, north side, 0.6 foot above land surface. No measurements made in 1943.

167a (*845, p. 536; 886, p. 746; 909, p. 191). Owner unknown. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, blk. B5, 9.5 miles west of Canyon. Measuring point, top of steel casing, 0.5 foot above land surface. No measurements made in 1943.

172a (*845, p. 536; 886, p. 746; 909, p. 191; 939, p. 142; 947, p. 158). Owner unknown. NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 107, blk. B5, H. & G. N. R. R. survey, 9.5 miles west of Canyon. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 8, 108.39.

189a (*845, p. 536; 886, p. 746; 909, p. 191; 939, p. 142). W. F. Miller. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 109, blk. M8, 16 miles south of Canyon. Measuring point, top of steel casing, 1.2 feet above land surface. No measurements made in 1943.

Swisher County

2 (*840, p. 491; 845, p. 539; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 165). I. Irlbeck. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 63, blk. M8, 3 miles south of Happy. Measuring point, top of casing, east side, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 77.65.

3a (*845, p. 539; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 165). W. E. Williamson. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 111, blk. M8, 1 mile east of Happy, 14 miles north of Tulla. Measuring point, top of concrete curb, 0.5 foot above land surface. No measurements made in 1943.

- 16 (*840, p. 491; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). C. M. Brant. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 117, blk. M8, 8 miles south of Happy. Measuring point, top of concrete curb, northeast side, 0.1 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 60.92.
- 18 (*840, p. 491; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). H. C. George. NE. corner NE $\frac{1}{4}$ sec. 84, blk. M8, 6.5 miles south of Happy. Measuring point, top of tee on discharge pipe, 4.0 feet above land surface. No measurements made in 1943.
- 36 (*909, p. 196; 939, p. 156; 947, p. 166). Foster Klous. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, blk. W1, 4.5 miles northwest of Tullia. Measuring point, lower edge of end of 10-inch discharge pipe, 3.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 53.88.
- 38 (*840, p. 491; 845, p. 540; 886, p. 749; 909, p. 196; 947, p. 166). J. B. Johnson. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, blk. W1, 5 miles northwest of Tullia. Measuring point, bottom edge of 4- by 4-inch pipe clamp, east side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 55.01.
- 49 (*840, p. 491; 845, p. 540; 886, p. 749; 909, p. 196). Owner unknown. SE. corner SE $\frac{1}{4}$ sec. 21, blk. W1, northeast edge of Tullia, south of small lake. Measuring point, top of concrete curb, east side, 0.3 foot above land surface. Measurements discontinued.
- 50 (*840, p. 492; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156). Half a block north and half a block east of Tullia high school. Measuring point, top of casing, north side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 60.80.
- 254 (*840, p. 492; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). Charles Inman. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, blk. B6, 8 miles east of Kress. Measuring point, top of concrete curb, east side, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 40.03.
- 255 (*840, p. 492; 845, p. 540; 909, p. 196; 939, p. 156; 947, p. 166). Charles Inman. NW. corner NE $\frac{1}{4}$ sec. 2, blk. B6, 7.5 miles east of Kress. Measuring point, top of concrete curb, 1.9 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 43.75.
- 258 (*840, p. 492; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). B. A. Dubbert. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, blk. M14, 8 miles east of Kress. Measuring point, top of concrete curb, southeast corner, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 2, 54.21.
- 301 (*840, p. 492; 845, p. 540; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). W. T. Adams. NE. corner of NE $\frac{1}{4}$ sec. 10, blk. W1, 1 mile southwest of Tullia, 600 feet south of U. S. Highway 87 underpass. Measuring point, top of iron cover plate, north side, 0.2 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 30.85.
- 302 (*840, p. 492; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). J. D. Vaughn. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, blk. W1, 1.5 miles southwest of Tullia. Measuring point, inside edge of end of extension coupled on regular discharge pipe, 7.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 60.91.
- 305 (*840, p. 493; 845, p. 541; 886, p. 749; 909, p. 196; 939, p. 156; 947, p. 166). J. L. Cantrell. NW. corner NE $\frac{1}{4}$ sec. 25, blk. W1, 1.75 miles southeast of Tullia. Measuring point, top of pipe clamp, north side, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 37.54.
- 323 (*840, p. 493; 845, p. 541; 886, p. 750; 909, p. 196; 939, p. 156; 947, p. 166). J. L. Guest. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, blk. M13, 6.5 miles south of Tullia. Measuring point, top of 4- by 4-inch wooden pipe clamp, south side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 67.11.

- 332 (*840, p. 493; 845, p. 541; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 166). W. F. Kerr. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, blk. M13, 4 miles north of Kress. Measuring point, top of casing, west side, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 3, 63.49.
- 337 (*840, p. 493; 845, p. 541; 886, p. 750; 947, p. 166). J. R. Barnhart. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, blk. M13, 4 miles north of Kress. Measuring point, top of tee at top of column pipe, north side, 3.4 feet above land surface. No measurements made in 1943.
- 352 (*840, p. 493; 845, p. 541; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 166). John Elliott. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 52, blk. M13, 240 feet north and 185 feet east of Santa Fe Railway depot at Kress. Measuring point, top of concrete foundation, east side, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 61.14.
- 354 (*840, p. 494; 845, p. 541; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 166). V. A. Beck. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 52, blk. M13, west edge of Kress. Measuring point, top of concrete foundation, west side, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 62.86.
- 359 (*886, p. 750; 909, p. 197; 939, p. 157; 947, p. 167). E. E. Formway. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 57, blk. M13, 2.75 miles west of Kress. Measuring point, top of concrete curb, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 76.01.
- 362 (*840, p. 494; 845, p. 541; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 167). G. T. Hughes. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 64, blk. M13, 3.5 miles southwest of Kress. Measuring point, top of column pipe, west side, 4.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 65.01.
- 368 (*840, p. 494; 845, p. 540; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 167). Texas Land & Development Co. About 0.3 mile west of SE. corner sec. 62, blk. M13, on R. F. Hudgins survey, 2.75 miles south of Kress. Measuring point, top of steel casing, south side, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 77.18.
- 370 (*840, p. 494; 845, p. 541; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 167). Texas Land & Development Co. About 0.33 mile east of SE. corner sec. 62, blk. M13, on R. F. Hudgins survey, 2.7 miles south of Kress. Measuring point, top of concrete foundation, west side, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 75.49.
- 380 (*840, p. 494; 845, p. 542; 886, p. 750; 909, p. 197; 939, p. 157). Joe Bontke. 5 miles east of Kress. Measuring point, top of concrete foundation, east side, 0.3 foot above land surface. No measurements made in 1943.
- 383 (*840, p. 495; 845, p. 542; 886, p. 750; 909, p. 197; 939, p. 157; 947, p. 167). Texas Land & Development Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 54, blk. M14, 4.5 miles southeast of Kress. Measuring point, top edge of square steel plate at base of pump, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 73.24.
- 421 (*947, p. 167). A. U. Perryman. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, blk. K3, 19.5 miles southwest of Tulla. Measuring point, top of concrete curb, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 59.42.
- 427 (*840, p. 495; 845, p. 542; 886, p. 750; 909, p. 197; 939, p. 157). H. F. Reynolds. 6.5 miles west of Kress. Measuring point, top of casing, 3.0 feet above land surface. Measurements discontinued.
- 429 (*886, p. 751; 909, p. 197; 939, p. 157; 947, p. 167). Clifton Reed. NW. corner strip sec. 66, J. A. Ward survey, 5.5 miles west of Kress. Measuring point, bottom of pump base, at land surface. Water level, in feet below land-surface datum, 1943: Jan. 27, 96.10.

Terry County

2 (*840, p. 495; 845, p. 542; 886, p. 751; 909, p. 197). J. P. Cox. SW. corner SW $\frac{1}{4}$ sec. 46, blk. DD, John H. Gibson survey, 4.35 miles southwest of Wellman. Measuring point, top of steel casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 102.10.

7a (*909, p. 198; 939, p. 157; 947, p. 167). L. Hulse. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 143, blk. T, D. & W. R. Co., 0.7 mile east of Lahey post office and 0.8 mile south. Measuring point, top of concrete well curb, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 17, 91.30.

14 (*840, p. 496; 845, p. 542; 886, p. 751; 909, p. 198). J. S. Smith. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 82, blk. 4X, 7.6 miles southwest of Meadow. Measuring point, top of concrete curb, 0.5 foot above land surface. No measurements made in 1943.

16 (*840, p. 496; 845, p. 542; 886, p. 751; 909, p. 198; 939, p. 157; 947, p. 167). Challis Public School. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 64, blk. 4X, 5.35 miles southwest of railroad depot at Meadow. Measuring point, top of pipe clamp, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 91.02.

17a (*845, p. 542; 886, p. 751; 909, p. 198). Owner unknown. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, blk. 4X, 2 miles southwest of Meadow. Measuring point, top of concrete curb, 0.4 foot above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 77.80.

21a (*909, p. 198; 939, p. 158; 947, p. 167). Owner unknown. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, blk. 4X, about 0.4 mile west of U. S. Highway 62, 1 mile north of Meadow. Measuring point, top of casing, 1.8 feet above land surface. Water level, in feet below land-surface datum, 1943: Feb. 18, 62.40.

Travis County

256 (*947, p. 168). Mr. Robinson. 11.75 miles north of State Capitol, in Austin. Measuring point, top of 3/8-inch hole in pump base, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 79.48; Sept. 7, 81.05; Dec. 14, 87.06.

261 (*939, p. 158; 947, p. 168). H. C. Warren. 13 miles north of State Capitol, in Austin. Measuring point, top of iron pipe clamp, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 222.79; Sept. 7, 226.07; Dec. 14, 224.67.

266 (*939, p. 158; 947, p. 168). J. D. Dillingham. 11.75 miles north of State Capitol, 1.9 miles east of McNeil. Measuring point, top of 3/8-inch steel plate, 0.9 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 226.46; Sept. 7, 238.53; Dec. 14, 239.52.

267 (*947, p. 168). Dave Dillingham. 11.75 miles north of State Capitol, in Austin. Measuring point, top of iron plate, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 115.03; Sept. 7, 113.98.

280 (*947, p. 168). Travis County. 9.5 miles north of State Capitol, in Austin. Measuring point, top of rock curb, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 8.57; Sept. 7, 11.62; Dec. 14, 13.69.

283 (*939, p. 158; 947, p. 168). E. H. Gault. 9 miles north of State Capitol, in Austin. Measuring point, top of casing, 0.9 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 184.81; Sept. 7, 188.64; Dec. 14, 189.41.

284 (*939, p. 158; 947, p. 168). Robinson Bros. 8.5 miles north of State Capitol, in Austin. Measuring point, top of steel plate, 0.9 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 20, 191.59.

314 (*947, p. 168). Mr. Stark. 8.75 miles northeast of State Capitol, in Austin. Measuring point, top of casing, 0.4 foot above land surface. No measurements made in 1943.

318 (*947, p. 168). R.R. Sansom. 7.5 miles northeast of State Capitol, in Austin. Measuring point, top of 9 $\frac{1}{2}$ -inch bell-top casing, 0.4 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 129.98; Sept. 4, 144.84; Dec. 14, 149.40.

322 (*939, p. 158; 947, p. 168). John Teagle. 5.5 miles northeast of State Capitol. Measuring point, top of casing, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 158.31; Sept. 4, 178.73; Dec. 14, 175.42.

323 (*939, p. 158; 947, p. 168). Fred Parsons. 5.75 miles northeast of State Capitol. Measuring point, top of iron pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 93.58; Dec. 14, 94.09.

327 (*939, p. 158; 947, p. 168). Walling Estate. 4.5 miles northeast of State Capitol. Measuring point, top of casing, 0.9 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 160.96; Sept. 4, 173.50; Dec. 14, 177.24.

328 (*939, p. 158; 947, p. 169). Walling Estate. About 100 feet south of well 327. Measuring point, top of brick curb, 3.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 15.52; Sept. 4, 19.15; Dec. 14, 19.81.

331 (*947, p. 169). J. C. Campbell, Jr. 3.75 miles northeast of State Capitol. Measuring point, top of concrete block, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 67.22; Sept. 4, 113.02; Dec. 14, 120.09.

343 (*947, p. 169). Travis County Water District No. 2. 4.75 miles northeast of State Capitol. Measuring point, top of 1-inch nipple in inner pump base, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 157.01; Sept. 4, 171.44; Dec. 14, 174.11.

392 (*947, p. 169). Tom Williams. 7.5 miles north of State Capitol. Measuring point, top of casing, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 22, 11.13; Sept. 7, 12.00; Dec. 14, 13.00.

400 (*947, p. 169). Mrs. S. D. Williams. 8.5 miles north of State Capitol. Measuring point, top of casing, 0.9 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 22, 34.54; Sept. 7, 34.87; Dec. 14, 35.76.

414 (*947, p. 169). J. R. McElroy. 10.75 miles north of State Capitol. Measuring point, top of casing, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 22, 38.76; Sept. 7, 39.04; Dec. 14, 38.91.

460 (*947, p. 169). Rosa Dellanna. 2 miles southwest of State Capitol. Measuring point, top of steel plate, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Dec. 17, 84.27.

483 (*947, p. 169). S. N. Allred. 5 miles southwest of State Capitol. Measuring point, top of 4- by 4-inch wooden pipe clamp, 2.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 16, 234.62; Oct. 4, 242.50; Oct. 30, 243.75; Nov. 28, 243.01.

502 (*840, p. 496; 845, p. 543; 886, p. 751; 909, p. 198; 939, p. 158; 947, p. 169). H. S. Lawson heirs. 6.5 miles south of State Capitol. Measuring point, top of southeast side of concrete curb, 1 foot above land surface.

502. H. S. Lawson heirs--Continued.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	8.50	Apr. 29	10.33	July 28	13.52	Oct. 30	16.41
25	9.83	May 31	8.95	Sept. 1	15.47	Nov. 28	17.05
Mar. 29	9.19	June 30	11.72	Oct. 4	14.49		

504 (#840, p. 496; 845, p. 543; 886, p. 751; 909, p. 198; 939, p. 159; 947, p. 169). R. B. Gault. 10.4 miles south of Austin. Measuring point, top of brick curb, 2.0 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	21.27	Apr. 29	21.14	July 28	21.09	Oct. 30	21.16
25	21.14	May 31	21.14	Sept. 1	21.09	Nov. 28	21.15
Mar. 29	21.13	June 30	21.11	Oct. 4	20.12		

508 (#840, p. 497; 845, p. 543; 886, p. 751; 909, p. 199; 939, p. 159; 947, p. 170). Barge Renoe. 8.3 miles southwest of State Capitol. Measuring point, base of plug at side of 2-inch tubing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 231.91; Dec. 17, 232.48.

509 (#840, p. 497; 845, p. 543; 886, p. 751; 909, p. 199; 939, p. 159; 947, p. 170). Erlene Patton. 9.4 miles west of State Capitol. Measuring point, top of rock curb, south side, 3.1 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	36.14	Apr. 29	36.04	July 28	36.21	Oct. 30	35.79
25	36.24	May 31	36.07	Sept. 1	35.95	Nov. 28	34.88
Mar. 29	36.21	June 30	36.19	Oct. 4	34.70		

516 (#840, p. 497; 845, p. 543; 886, p. 752; 909, p. 199). Frank Bailey. 3.8 miles southeast of First and Congress Streets, in Austin. Measuring point, top of concrete curb, 1 foot above land surface. Measurements discontinued.

519 (#840, p. 497; 845, p. 544; 886, p. 752; 909, p. 199). Colorado Colored School No. 3. 9 miles southeast of Austin. Measuring point, top of concrete curb, west side, 2 feet above land surface. Measurements discontinued.

527 (#840, p. 497; 845, p. 544; 886, p. 752; 909, p. 199; 939, p. 159; 947, p. 170). Sarah Moore. About 100 yards south of Cedar Valley post office. Measuring point, top of wooden base across rock curb, 4 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	5.02	Apr. 29	4.96	July 28	4.58	Oct. 30	5.09
25	5.13	May 31	5.17	Sept. 1	5.16	Nov. 28	5.71
Mar. 29	4.56	June 30	5.14	Oct. 4	3.88		

616 (#840, p. 497; 845, p. 544; 886, p. 752; 909, p. 199; 939, p. 159; 947, p. 170). J. R. Moore. 14.6 miles west of State Capitol. Measuring point, top of concrete pump base, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 15, 139.32; Sept. 12, 151.90; Dec. 18, 141.33.

618 (#840, p. 497; 845, p. 544; 886, p. 752; 909, p. 199; 939, p. 159; 947, p. 170). Homer Heep. About 50 feet east of U. S. Highway 81, 1 mile north of Travis-Hays county line. Measuring point, top of iron water pipe clamp, at land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level						
Feb. 4	19.00	Apr. 29	21.14	July 28	20.80	Oct. 30	24.90
25	20.47	May 31	21.66	Sept. 1	25.16	Nov. 28	25.02
Mar. 29	20.28	June 30	19.90	Oct. 4	22.96		

621 (*840, p. 497; 845, p. 544; 886, p. 752; 909, p. 199; 939, p. 159). Mrs. L. L. Hart. 0.5 mile east of Oak Hill. Measuring point, top of 10-inch casing, 1 foot above land surface. Measurements discontinued.

668 (*947, p. 170). Mr. McAlmeyer. 6.5 miles southwest of State Capitol, in Austin. Measuring point, top of casing, 1.2 feet above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Apr. 14	244.34	Oct. 4	244.39	Nov. 28	245.95
Sept. 1	246.53	30	245.73		

687 (*947, p. 170). Mrs. Elizabeth Gentsch. 5 miles southwest of State Capitol, in Austin. Measuring point, top of steel plate, 0.6 foot above land surface. Water level, in feet below land-surface datum, 1943: Dec. 17, 220.80.

858 (*947, p. 170). B. R. Payton. 6.5 miles northwest of Manor. Measuring point, top of 2-inch gate valve, 2.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 58.85; Sept. 4, 70.56; Dec. 14, 72.77.

860 (*947, p. 170). Mrs. B. Hamann. 6.5 miles northwest of Manor. Measuring point, top of wooden pipe clamp, 0.7 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 20, 135.69; Sept. 4, 163.96; Dec. 14, 167.12.

884 (*947, p. 170). H. A. Townsley. 7.5 miles northwest of Creedmoor. Measuring point, top of 1-inch hole in pump base, 1.4 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 16, 186.19; Sept. 9, 199.38; Dec. 21, 206.13.

885 (*947, p. 171). F. B. Polk. 7.25 miles northwest of Creedmoor. Measuring point, top of iron pipe support, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 14, 148.40; Sept. 9, 160.17; Dec. 17, 170.31.

889 (*947, p. 171). D. T. Cunningham. 6.25 miles northwest of Creedmoor. Measuring point, top of concrete block, 1.0 foot above land surface. Measurements discontinued.

890 (*947, p. 171). Russell C. Faulkner. 5.75 miles northwest of Creedmoor. Measuring point, top of rock curb, 3.0 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 14, 12.43; Sept. 9, 12.19; Dec. 17, 13.44.

892 (*947, p. 171). Russell C. Faulkner. 5.75 miles northwest of Creedmoor. Measuring point, top of iron-pipe clamp, 0.8 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 16, 83.26; Sept. 9, 96.86.

895 (*947, p. 171). Joe C. Carrington. 5 miles northwest of Creedmoor. Measuring point, top of steel plate, 0.3 foot above land surface.

Water level, in feet below land-surface datum, 1943

Date	Water level	Date	Water level	Date	Water level
Apr. 6	49.40	Oct. 4	59.57	Nov. 28	65.52
Sept. 1	56.58	30	61.02		

892 (*947, p. 171). John L. Durrozet Estate. 4.25 miles northwest of Creedmoor. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 6, 123.57; measurements discontinued.

Uvalde County

H-2-4 (*678, p. 102, 128; 840, p. 498; 845, p. 545; 886, p. 753; 909, p. 199; 939, p. 159; 947, p. 171). H. I. Holmes. Formerly owned by J. H. Desmuke. 13.7 miles north of Uvalde. Measuring point, top of pump-support clamp, 2.1 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 131.42; Aug. 28, 139.53; Dec. 16, 148.67.

H-2-5 (*678, pp. 102, 128; 840, p. 498; 845, p. 545; 886, p. 753; 909, p. 200; 939, p. 159; 947, p. 171). Mrs. W. E. Fitzgerald. 18 miles north of Uvalde. Measuring point, top of pump-support clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 55.38; Aug. 28, 88.68; Dec. 16, 62.22.

H-4-6 (*678, pp. 104, 128; 840, p. 498; 845, p. 545; 886, p. 753; 909, p. 200; 939, p. 159; 947, p. 171). Briscoe, Fenley & Spangler. 4.5 miles west-northwest of Uvalde. Measuring point, top of pump-support clamp, 2.4 feet above land surface. No measurements made in 1943.

H-4-28 (*678, pp. 104, 129; 840, p. 499; 845, p. 545; 886, p. 753; 909, p. 200; 939, p. 160; 947, p. 172). J. R. Ingraham. 7.5 miles west of Uvalde. Measuring point, top of pump-support clamp, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 19.93; Aug. 29, 21.09; Dec. 16, 22.91.

H-4-34 (*909, p. 200; 939, p. 160; 947, p. 172). John Rosenow. 13.5 miles northwest of Uvalde. Measuring point, top of iron water pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 167.21; Aug. 29, 168.92; Dec. 16, 171.94.

H-4-35 (*909, p. 200; 939, p. 160; 947, p. 172). John Rosenow. 16 miles northwest of Uvalde. Measuring point, top of iron water pipe clamp, 0.7 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 29, 73.94.

H-5-1 (*678, p. 106, 129; 840, p. 499; 845, p. 549; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 172). City of Uvalde. At Uvalde water-works. Measuring point, top of sump on east side, at land surface.

Water level at noon, in feet below land-surface datum, 1943
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.44	30.38	30.61	31.13	31.74	32.35	32.63	33.11	34.03	34.46	35.16	36.09
2	30.43	30.35	30.63	31.15	31.75	32.35	32.64	33.13	34.06	34.41	35.20	36.11
3	30.43	30.35	30.66	31.18	31.78	32.40	32.66	33.16	34.07	34.41	35.22	36.14
4	30.46	30.35	30.63	31.19	31.82	32.44	32.65	33.20	34.08	34.41	35.25	36.17
5	30.45	30.35	30.65	31.23	31.85	32.40	32.67	33.25	34.10	34.43	35.28	36.18
6	30.41	30.41	30.68	31.26	31.87	32.36	32.70	33.27	34.14	34.44	35.31	36.22
7	30.41	30.41	30.70	31.25	31.88	32.38	32.72	33.30	34.10	34.46	35.34	36.24
8	30.41	30.40	30.71	31.23	31.92	32.40	32.74	33.30	34.10	34.48	35.38	36.26
9	30.40	30.39	30.72	31.23	31.92	32.41	32.73	33.34	34.13	34.50	35.41	36.28
10	30.39	30.43	30.75	31.23	31.88	32.42	32.72	33.37	34.15	34.51	35.44	36.31
11	30.38	30.46	30.75	31.24	31.92	32.43	32.70	33.41	34.18	34.53	35.48	36.35
12	30.37	30.46	30.76	31.27	31.94	32.45	32.69	33.45	34.20	34.54	35.51	36.36
13	30.37	30.50	30.80	31.32	31.97	32.44	32.70	33.48	34.24	34.57	35.54	36.39
14	30.35	30.47	30.80	31.35	31.99	32.45	32.68	33.51	34.28	34.60	35.56	36.40
15	30.33	30.49	30.80	31.36	32.02	32.47	32.67	33.53	34.32	34.62	35.60	36.45
16	30.32	30.52	30.85	31.35	32.04	32.48	32.70	33.56	34.30	34.66	35.63	36.48
17	30.33	30.50	30.88	31.36	32.06	32.50	32.75	33.60	34.23	34.68	35.66	36.52
18	30.33	30.52	30.85	31.38	32.12	32.50	32.76	33.64	34.25	34.70	35.69	36.55
19	30.40	30.52	30.90	31.39	32.15	32.48	32.80	33.66	34.25	34.73	35.72	36.58
20	30.39	30.52	30.92	31.40	32.20	32.48	32.84	33.69	34.28	34.76	35.76	36.60
21	30.35	30.52	30.94	31.43	32.22	32.50	32.87	33.72	34.32	34.80	35.79	36.62
22	30.34	30.54	30.97	31.45	32.20	32.53	32.90	33.74	34.33	34.82	35.83	36.65
23	30.34	30.55	30.96	31.50	32.19	32.53	32.92	33.77	34.35	34.85	35.86	36.67
24	30.33	30.56	30.94	31.54	32.20	32.55	32.95	33.82	34.37	34.88	35.90	36.70
25	30.34	30.60	30.95	31.53	32.23	32.55	32.95	33.87	34.39	34.92	35.92	36.73
26	30.36	30.62	30.95	31.59	32.25	32.57	32.99	33.90	34.40	34.95	35.96	36.74
27	30.37	30.62	30.97	31.63	32.28	32.55	32.97	33.94	34.41	34.99	35.99	36.77
28	30.35	30.58	31.00	31.66	32.32	32.57	33.00	33.98	34.42	35.02	36.00	36.80
29	30.36	.....	31.07	31.67	32.32	32.60	33.04	33.98	34.43	35.06	36.03	36.82
30	30.36	.....	31.08	31.71	32.30	32.62	33.06	34.02	34.45	35.09	36.06	36.85
31	30.36	.....	31.10	.....	32.32	.....	33.10	34.06	.....	35.11	.....	36.87

H-5-22 (*678, pp. 108, 128; 840, p. 499; 845, p. 546; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 173). Jack Dean. 2 miles north of Uvalde. Measuring point is 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 58.71; Aug. 28, 61.15; Dec. 16, 26.62.

H-5-26 (*678, pp. 108, 130; 840, p. 499; 845, p. 546; 909, p. 201; 939, p. 160; 947, p. 173). George Kennedy. 7.2 miles north-northeast of Uvalde. Measuring point, top of pump-support clamp, 1.8 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 156.95; Aug. 28, 159.72; Dec. 16, 164.88.

H-5-39 (*678, pp. 108, 130; 840, p. 499; 845, p. 546; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 173). William Galloway. 2.5 miles east-northeast of Uvalde. Measuring point, top of pump-support clamp, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 76.98; Aug. 27, 79.52; Dec. 16, 83.04.

H-5-51 (*678, pp. 110, 130; 840, p. 499; 845, p. 546; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 173). O. T. Caldwell. 2.5 miles south-southeast of Uvalde. Measuring point, top of pump-support clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 39.11; Aug. 18, 41.00; Dec. 16, 42.21.

H-6-1 (*678, pp. 112, 131; 840, p. 500; 845, p. 546; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 173). Ashby and Chinn. 9.2 miles east-northeast of Uvalde. Measuring point, top of pump-support clamp, 1.9 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 28, 94.24; Aug. 27, 94.74; Dec. 15, 95.13.

H-6-8 (*678, pp. 112, 131; 840, p. 500; 845, p. 546; 886, p. 753; 909, p. 201; 939, p. 160; 947, p. 173). K. K. Woodley. 1.5 miles east of Knippa. Measuring point, top of pump-support clamp, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 70.65; Aug. 27, 70.24; Dec. 15, 70.67.

H-6-10 (*678, pp. 112, 131; 840, p. 500; 845, p. 546; 886, p. 754; 909, p. 202; 939, p. 160; 947, p. 173). Herbert Stevens. 3 miles west of Sabinal. Measuring point, top of well curb, 0.35 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 26, 65.85; Aug. 27, 65.17; Dec. 15, 65.48.

H-6-16 (*678, pp. 114, 131; 840, p. 500; 845, p. 546; 909, p. 202; 939, p. 160; 947, p. 173). Illinois Pipe Line Co. 3 miles southeast of Knippa. Equipped with windmill since January 1943. Measuring point, top of pump-support clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 27, 158.88; Dec. 15, 167.43.

XU-6 (*840, p. 500; 845, p. 546; 886, p. 754). R. P. Ingram, Jr. 8.6 miles west of square in Uvalde. Measuring point, top of iron water pipe clamp, 0.7 foot above land surface. Measurements discontinued.

XU-9 (*840, p. 501; 845, p. 546; 886, p. 754; 909, p. 202; 939, p. 160; 947, p. 174). Frank Kirchgraber. 16.5 miles west of Uvalde. Measuring point, top of iron water pipe clamp, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 61.35; Aug. 30, 60.67; Dec. 16, 60.12.

XU-10 (*840, p. 501; 845, p. 547; 886, p. 754; 909, p. 202; 939, p. 160; 947, p. 174). Texas & New Orleans Railroad Co. At Kline. Measuring point, top of cement and brick curb, 2.75 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 29, 42.91; Dec. 16, 44.42.

Val Verde County

XV-1 (*840, p. 501; 845, p. 457; 886, p. 754; 909, p. 202; 939, p. 161; 947, p. 174). B. S. Harrison. 7.5 miles east of Del Rio. Measuring point, top of iron water pipe clamp, 0.5 foot above land surface. Measurements discontinued.

XV-2 (*840, p. 501; 845, p. 547; 886, p. 754; 909, p. 202; 939, p. 161; 947, p. 174). Otto Koog. 2.8 miles east of Del Rio. Measuring point, top of iron water pipe clamp, 2.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Dec. 17, 72.62.

XV-3 (*840, p. 501; 845, p. 547; 886, p. 754; 909, p. 203; 939, p. 161; 947, p. 174). Patricio Confreras. 1.5 miles east of Del Rio. Measuring point, top of iron water pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 27, 37.99; Aug. 30, 37.89; Dec. 17, 39.07.

Waller County

117 (*840, p. 502; 845, p. 547; 836, p. 755; 909, p. 203; 939, p. 161; 947, p. 174). Mrs. H. L. Milam. Near railroad station at Prairie View. Measuring point, top of board cover across casing, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 5.71; June 18, a;/ Aug. 25, a/.

128 (*909, p. 203; 939, p. 161; 947, p. 174). H. & T. C. Railroad. At Prairie View railroad station. Measuring point, bottom edge of pump base, 0.75 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 40.09; Apr. 28, 42.89; June 18, 40.20; Aug. 25, 40.26.

152 (*840, p. 502; 845, p. 548; 886, p. 755; 909, p. 203; 939, p. 161; 947, p. 174). Mr. Meyers. 1.5 miles east of Prairie View railroad station. Measuring point, top of board cover, at land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 2.42; Apr. 28, 4.68; June 18, 4.49; Aug. 25, 6.69.

154 (*840, p. 502; 845, p. 548; 886, p. 755; 909, p. 203; 939, p. 161; 947, p. 174). W. D. Weaver. About 0.6 mile west of Waller. Measuring point, top of steel casing, 1 foot above land surface. Water levels, in feet below land-surface datum, 1943: Jan. 21, 10.85; Apr. 28, 11.05; June 18, 10.90; Aug. 25, 11.84.

223 (*909, p. 204; 939, p. 161; 947, p. 174). T. B. Tucker. 6.75 miles northwest of Katy. Measuring point, top of air line hole in pump base, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Mar. 13, 57.29; Nov. 9, 62.62.

225. Owner's well 2. L. E. Morrison. 6 miles northwest of Katy. Used drilled rice irrigation well, diameter 24 inches, screen opposite sands between 155 and 628 feet. Measuring point, top of hole in pump base, 1 foot above land surface. Equipped with a 1,500 gallon-a-minute turbine pump, electrically driven.

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1940	76.91	Jan. 20, 1942	59.41	Apr. 13, 1943	53.69
Jan. 22, 1941	61.69	Mar. 18	57.88	Nov. 9	72.03
Oct. 28	65.29	Oct. 21	65.95		

235 (*909, p. 204; 939, p. 162; 947, p. 174). John Cope. 2 miles west of Katy. Measuring point, lower edge of discharge pipe, 2.9 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 13, 53.77; Nov. 9, 62.14.

239. Lyn Hebert. 12 miles northwest of Katy. Used drilled rice irrigation well, diameter 30 inches, depth 828 feet. Measuring point, top of 1-inch hole in pump base, 0.5 foot above land surface. Equipped with a 2,000 gallon-a-minute turbine pump, diesel driven.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Oct. 27, 1941	60.16	Mar. 18, 1942	53.00	Nov. 9, 1943	65.90
Jan. 20, 1942	54.33	Apr. 13, 1943	52.05		

a Dry.

240. Owner's well 3. B. Ray Woods. 6 miles west of Katy. Used drilled rice irrigation well, diameter 20 inches, casing slotted opposite all sands between 80 and 290 feet. Measuring point, top of 2-inch pipe, 0.5 foot above land surface. Equipped with turbine pump, diesel driven.

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1940	60.90	Jan. 20, 1942	53.86	Apr. 13, 1943	58.06
Jan. 23, 1941	59.51	Mar. 17	58.64	Nov. 9	59.76
Oct. 27	59.36	Sept. 23	59.59		

242. Robichaux and Thompson. 8 miles northwest of Katy. Used drilled rice irrigation well, diameter 18 inches, 207 feet of casing slotted between 60 and 555 feet. Measuring point, top of hole in pump base, 0.8 foot above land surface. Equipped with a 1,000 gallon-a-minute turbine pump, electrically driven. Water levels, in feet below land-surface datum; Oct. 27, 1941, 63.15; Jan. 20, 1942, 60.25; Mar. 18, 1942, 58.76; Apr. 13, 1943, 59.46.

245. Owner's well 2. G. P. Nelson. 10 miles northwest of Katy. Used drilled irrigation well, diameter 20 inches, 288 feet of casing slotted between 51 and 482 feet. Measuring point, top of pump base, 1.5 feet above land surface. Equipped with turbine pump, electrically driven.

Water level, in feet below land-surface datum, 1941-43

Jan. 22, 1941	59.5	Mar. 18, 1942	56.75	Nov. 9, 1943	68.15
Oct. 27	63.21	Sept. 23	70.35		
Jan. 20, 1942	57.5	Apr. 13, 1943	56.40		

246. Owner's well 2. A. E. Thompson. 3.5 miles northwest of Katy. Used drilled irrigation well, diameter 18-5/8 inches, casing slotted opposite sands between 145 and 908 feet. Measuring point, top of 1-inch hole in pump base, 1 foot above land surface. Equipped with a 1,390 gallon-a-minute turbine pump, electrically driven.

Water level, in feet below land-surface datum, 1940-43

Oct. 7, 1940	57.41	Jan. 20, 1942	52.03	Apr. 13, 1943	51.78
Jan. 22, 1941	52.63	Mar. 18	51.37	Nov. 9	59.03
Oct. 28	54.48	Oct. 21	55.42		

247 (*909, p. 204; 939, p. 163; 947, p. 174). T. B. Tucker. 6.5 miles northwest of Katy. Measuring point, top of air line hole in pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Nov. 9, 64.91.

252. J. A. Kimball. 2.25 miles northwest of Katy. Used drilled irrigation well, diameter 24 inches, casing slotted opposite sands between 90 and 209 feet. Measuring point, top of hole in pump base, 0.2 foot above land surface. Equipped with a 1,260 gallon-a-minute turbine pump, electrically driven.

Water level, in feet below land-surface datum, 1940-43

Oct. 4, 1940	63.41	Mar. 17, 1942	58.93	Apr. 13, 1943	59.02
Jan. 22, 1941	61.37	Sept. 24	62.58	Nov. 9	63.84
15, 1942	60.19				

Wharton County

1 (*947, p. 178). Bob Ragsdale. 11 miles west of Hahn. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 37.30.

8 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 174; 947, p. 173). J. W. Wyer. About 0.7 mile west of Round Mott School. Measuring point, top of pit, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 37.13.

- 31 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 175; 947, p. 178). Tom Thomas. 6.5 miles north of Louise. Measuring point, top of concrete curb, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 25.32.
- 32 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 175; 947, p. 178). Harfst Bros. About 0.7 mile south of Gobbler Creek school. Measuring point, top of pump base, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 30.30.
- 33 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 175; 947, p. 178). Harfst Bros. Measuring point, top of pump base, 1 foot above land surface. No measurements made in 1943.
- 57 (*939, p. 175; 947, p. 178). W. A. Harrison. 3.25 miles north of Glen Flora. Measuring point, top of brick curb, 1.6 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 14.33.
- 66 (*939, p. 175; 947, p. 178). J. J. Pendegrass. 2.5 miles west of Bonus. Measuring point, top of cement curb, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 21.87.
- 70a (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 175; 947, p. 178). J. J. Vacek. 3.2 miles west of East Bernard. Measuring point, top of pump base, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 10.22.
- 70b (*840, p. 503; 845, p. 548; 886, p. 775; 909, p. 204; 939, p. 175; 947, p. 178). J. J. Vacek. About 275 feet south of well 70a. Measuring point, top of pit, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 11.16.
- 81 (*939, p. 175; 947, p. 178). Wm. J. Corman. In Lissie. Measuring point, top of 6-inch casing, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 24.09.
- 84 (*947, p. 178). Fred Fotjek. 5 miles west of East Bernard. Measuring point, top of wood casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 19.71.
- 108 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 205; 939, p. 175; 947, p. 179). City of Wharton. In Wharton. Measuring point, top of pump base, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 21.01.
- 96 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 204; 939, p. 175; 947, p. 178). Frank Bucek. 8 miles north of Wharton. Measuring point, top of concrete curb, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 9, 22.48.
- 109 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 205; 939, p. 175; 947, p. 179). City of Wharton. In Wharton. Measuring point, top of pump base, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 8, 26.43.
- 140 (*845, p. 548; 886, p. 755; 909, p. 205; 939, p. 175). El Campo Rice Mills. 1.8 miles south of El Campo. Measuring point, top of pump base, at land surface. Measurements discontinued.
- 148 (*947, p. 179). Central Power & Light Co. In El Campo, southwest of ice plant. Measuring point, top of pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 25, 34.51.
- 165 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 205; 939, p. 175; 947, p. 179). H. P. Stockton. 1.4 miles northwest of Louise. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 22.58.
- 173 (*840, p. 503; 845, p. 548; 886, p. 755; 909, p. 205; 939, p. 175; 947, p. 179). Stoval and Appling. 8.25 miles south of Louise. Measuring point, top of pump base, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 12.36.

- 178 (*845, p. 549; 886, p. 756; 909, p. 205; 939, p. 175; 947, p. 179). Adrian Johnson. 8 miles southwest of El Campo. Measuring point, top of casing, under pump base, 2.3 feet below land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 14.46.
- 181 (*845, p. 549; 886, p. 756; 909, p. 205; 939, p. 176; 947, p. 179). T. E. Appling. 7 miles southeast of El Campo. Measuring point, bottom of discharge pipe, 3 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 23.09.
- 186 (*840, p. 204; 845, p. 549; 886, p. 756; 909, p. 205; 939, p. 176; 947, p. 179). Otto Mickelson. 2.5 miles north of Danevang. Measuring point, top of grease ring, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 13.73.
- 200 (*939, p. 176; 947, p. 179). J. L. Myatt. 4.25 miles west of Danevang. Measuring point, top of pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 19.52.
- 209 (*845, p. 549; 886, p. 756; 909, p. 205; 939, p. 176; 947, p. 179). J. C. Allen. 7 miles southeast of El Campo. Measuring point, bottom of discharge pipe, 1 foot above land surface. Water level, in feet below land-surface datum, 1943: Apr. 12, 11.43.
- 239 (*840, p. 504; 845, p. 549; 886, p. 756; 909, p. 205; 939, p. 176; 947, p. 179). Gulf, Colorado & Santa Fe Railway Co. Measuring point, top of 12-inch flange, 1.2 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 10, 18.10.
- 241 (*845, p. 549; 886, p. 756; 909, p. 205; 939, p. 176; 947, p. 179). Texas Gulf Sulphur Co. At New Gulf, 400 feet northeast of timekeeper's office. Measuring point, top of casing, 1.7 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 10, 23.06.
- 243 (*939, p. 176; 947, p. 179). Texas Gulf Sulphur Co. At New Gulf, 500 feet southwest of power plant. Measuring point, top of air line in inner pump base, 3.0 feet above land surface. No measurements made in 1943.

Williamson County

- 342 (*939, p. 176; 947, p. 179). J. F. McCann Estate. 4.75 miles southwest of Georgetown. Measuring point, top of concrete block, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Apr. 21, 45.71.
- 344 (*939, p. 176; 947, p. 179). Victor Robertson. 4.75 miles southwest of Georgetown. Measuring point, top of iron clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 116.36; Sept. 8, 119.19.
- 346 (*939, p. 176; 947, p. 179). Jack Gillam. 4.25 miles southwest of Georgetown. Measuring point, top of concrete curb, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 133.12; Sept. 8, 135.34; Dec. 14, 135.83.
- 348 (*939, p. 176). Claude DeDear. 3.5 miles southwest of Georgetown. Measuring point, top of 4-inch square block, 0.3 foot above land surface. Water level, in feet below land-surface datum, 1943: Sept. 8, 165.24.
350. H. M. Weir. 3 miles southwest of Georgetown. Used drilled well, diameter 4 inches, depth 200 feet. Measuring point, top of steel plate, at land surface. Equipped with windmill.

Water level, in feet below land-surface datum, 1940-43

Date	Water level	Date	Water level	Date	Water level
July 16, 1940	153.24	Aug. 12, 1942	134.95	Sept. 8, 1943	138.56
25, 1941	114.15	Dec. 10	135.16	Dec. 14	141.18
Apr. 14, 1942	133.92	Apr. 21, 1943	136.68		

351 (#939, p. 176; 947, p. 180). Fred Montgomery. 2.5 miles southwest of Georgetown. Measuring point, top of iron pipe clamp, 1.3 feet above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 115.46; Sept. 8, 116.09; Dec. 14, 116.31.

353 (#939, p. 176; 947, p. 180). Walter Thwing. 2.25 miles south of Georgetown. Measuring point, top of iron pipe clamp, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 126.15; Dec. 14, 128.84.

413 (#939, p. 176; 947, p. 180). Eubanks Estate. 1.5 miles south of Georgetown. Measuring point, top of iron casing, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 95.57; Sept. 8, 100.70.

420 (#939, p. 176; 947, p. 180). Mrs. Juanita Fleeger. About 0.75 mile southwest of Georgetown. Measuring point, top of casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 93.73; Sept. 8, 97.89; Dec. 14, 93.18.

889 (#947, p. 180). Bankers Life Insurance Co. 2.5 miles northwest of Round Rock. Measuring point, top of iron pipe clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Apr. 21, 96.76; Sept. 8, 97.98.

922 (#939, p. 177; 947, p. 180). Mrs. Asher. 1.25 miles south of Round Rock. Measuring point, top of block, 0.6 foot above land surface. Water levels, in feet below land-surface datum, 1943: Sept. 8, 129.36; Dec. 14, 130.51.

Zavala County

H7-13 (*777, p. 217; 340, p. 504; 845, p. 549; 909, p. 205; 939, p. 177). Roy Cornett. 5 miles north of La Pryor. Measuring point, top of casing, 1.25 feet above land surface. No measurements made in 1943.

H7-20 (*777, p. 217; 340, p. 504; 845, p. 549; 886, p. 756; 909, p. 205; 939, p. 177; 947, p. 180). W. A. Butler. 5.5 miles north of La Pryor. Measuring point, top of 1-inch board cover on top of casing, 0.5 foot above land surface. No measurements made in 1943.

M3-29 a/ (*777, p. 218; 340, p. 504; 845, p. 549; 886, p. 756; 909, p. 205; 939, p. 177; 947, p. 180). R. W. Norton. 12 miles west of La Pryor. Measuring point, top of 4- by 4-inch timber pipe clamp, 0.5 foot above land surface. No measurements made in 1943.

M6-9 b/ (*777, p. 218; 340, p. 504; 845, p. 549; 886, p. 756; 909, p. 205; 939, p. 177; 947, p. 180). King Ware. 8.5 miles northwest of Cometa. Measuring point, top of iron pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 54.04.

M6-10 (*777, p. 218; 340, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 180). W. M. Van Cleve. 7.5 miles northwest of Cometa. Measuring point, top of pipe clamp, 2 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 79.58.

M6-16 (*777, p. 218; 340, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 947, p. 180). J. S. Steward. 6 miles northwest of Cometa. Measuring point, top of casing, at land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 46.40.

M6-18 (*777, p. 218; 340, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 180). N. W. Ware. 4 miles northwest of Cometa. Measuring point, top of pipe clamp, 0.8 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 45.55.

M6-19 (*777, p. 219; 340, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 180). L. D. Van Cleve. 3 miles northwest of Cometa. Measuring point, top of pipe clamp, 0.5 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 9, 61.65.

M9-1 (*777, p. 219; 840, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 180). T. B. Mear. In Cometa. Measuring point, top of pipe clamp, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 7, 73.12; Dec. 19, 68.23.

N1-17 (*777, p. 219; 840, p. 504; 886, p. 756). D. H. Monkhouse. 5 miles west of La Pryor. Measuring point, top of pipe clamp, 0.5 foot above land surface. No measurements made in 1943.

N1-24 (*777, p. 219; 840, p. 504; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 181). J. C. Williams. 2.5 miles northwest of La Pryor. Measuring point, top of pipe clamp, 0.3 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 14, 133.43; Dec. 18, 129.39.

N1-40 (*777, p. 220; 840, p. 504; 845, p. 550; 909, p. 206; 939, p. 177; 947, p. 181). I. T. Pryor. 2 miles west of La Pryor. Measuring point, top of pipe clamp, 1.5 feet above land surface. Water level, in feet below land-surface datum, 1943: Aug. 14, 115.58.

N5-31 (*777, p. 221; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 181). J. C. Williams. 2.5 miles northeast of Crystal City. Measuring point, top of metal curb, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 54.45; Dec. 20, 59.54.

N5-39 (*777, p. 221; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 177; 947, p. 181). C. R. Jarrett. 2 miles northeast of Crystal City. Measuring point, top of pump base, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 73.19; Dec. 20, 71.98.

N5-40 (*777, p. 221; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 178; 947, p. 181). C. R. Jarrett. 2.5 miles east of Crystal City. Measuring point, top of pump base, 1.0 foot above land surface. Water level, in feet below land-surface datum, 1943: Aug. 11, 69.73.

N5-47 (*777, p. 221; 840, p. 505; 845, p. 550; 909, p. 206; 947, p. 181). A. Wagner. 6 miles east of Crystal City. Measuring point, pipe clamp, at land surface. Measurements discontinued.

N5-55 (*777, p. 222; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 178; 947, p. 181). Cribbs and Davidson. 2.5 miles east of Crystal City. Measuring point, top of pump base, southeast side, 1.5 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 75.43; Dec. 20, 76.48.

N5-60 (*777, p. 222; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 178; 947, p. 181). Julius DeWinnie. 4 miles east of Crystal City. Measuring point, top of casing, southeast side, at land surface. No measurements made in 1943.

N7-2 (*777, p. 222; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 178; 947, p. 181). Gene Green. 1 mile southeast of Cometa. Measuring point, top of casing, at land surface. Measurements discontinued.

N8-7 (*777, p. 222; 840, p. 505; 845, p. 550; 886, p. 756; 909, p. 206; 939, p. 178; 947, p. 181). Walter Bidelsbach. 3 miles southeast of Crystal City. Measuring point, base of pump, 1.2 feet above land surface. Water levels, in feet below land-surface datum, 1943: Aug. 11, 70.08; Dec. 20, 74.39.

a Published erroneously in Water-Supply Paper 947 as M3-26.

b Published erroneously in Water-Supply Paper 947 as M3-29.