UNITED STATES DEPARTMENT OF THE INTERIOR

WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1940

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 909

UNITED STATES DEPARTMENT OF THE INTERIOR
Harold L. Ickes, Secretary

GEOLOGICAL SURVEY
W. C. Mendenhall, Director

Water-Supply Paper 909

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BY

O. E. MEINZER, L. K. WENZEL
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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1941

For sale by the Superintendent of Documents, Washington, D. C. - - - - - - - - Price 25 cents

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INTRODUCTION

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

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 for public waterworks, for irrigation, or for 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 may indicate depletion or replenishment of the artesian reservoirs.

The regular publication of records of water levels and artesian pressure in the United States was begun by the Geological Survey in 1935, and from that year through 1939 one volume containing these data was published each year. The volumes were issued as Water-Supply Papers 777, 817, 840, 845, and 886. This series of reports is in a sense an inventory, year by year, of the ground-water supplies of those parts of the country that it covers. The number of observation wells and the quantity of records on water levels and artesian pressure obtained from them have increased gradually from year to year. As a result it has been deemed advisable to publish the records for 1940 in six volumes, each volume containing records for one of the sections into which the United States has been divided. (See fig. 1.) The present volume covers the south-central section and gives records of water level or artesian pressure in about 1,675 observation wells in Arkansas, Louisiana, Oklahoma, and Texas that were obtained by the Geological Survey and cooperating agencies. About 39 of these wells are equipped with automatic water-stage recorders. For some wells for which records had not heretofore been published complete records of water levels are given in this report, including those for years before 1940. For wells whose previous records have been published, however, this volume gives only current records. If complete

descriptions of the wells were given in one of the previous reports, only the well numbers or the well numbers and brief identifying descriptions are given in this report. The report includes about 10,350 individual measurements of water level or artesian pressure.

The water levels in this report are given with reference to datum planes of different kinds. Some are given in depth below the measuring point--that is, below the recognized reference mark, at or near the top of the well, from which the depth to water level is usually measured; and some are given in height above an assumed datum plane. As the measuring points on some of the wells were changed in 1940, the records may not be directly comparable with those in previous annual volumes, but changes in measuring points are recorded in this report. Water levels given in height above sea level or above assumed datum planes are generally comparable with those given in the previous volumes. Unless otherwise stated, the depth of wells is usually the measured depth below the measuring point.

Acknowledgments for effective services in the preparation of this report are due Mrs. Charlotte P. Berger and Misses Dorothy M. Ireland and Ermelinda F. Mattera, who typed the offset copy; and to Rodney Hart, who prepared many of the illustrations and gave other assistance in preparing the copy.

GENERAL SUMMARY OF CHANGES IN GROUND-WATER LEVEL IN 1940 IN THE SOUTH-CENTRAL PART OF THE UNITED STATES

The precipitation in Louisiana, Oklahoma, and Texas was above normal in 1940, but in Arkansas it was slightly below normal. Not all of the wells, however, had changes in water level that correspond to these moisture conditions. The fluctuations of water level and artesian pressure in observation wells depend upon many complex factors, such as the distribution and amount of precipitation, location of outcrop areas of the water-bearing formations, permeability and specific yield of the water-bearing materials, depth of the water table below the land surface, and proximity of the observation wells to areas of heavy withdrawals. Consequently, it is usually not possible to find a simple relation between the changes in water level or artesian pressure and the departures from normal precipitation. The fluctuations that occur in each observation well or group of similar wells must be studied separately in order

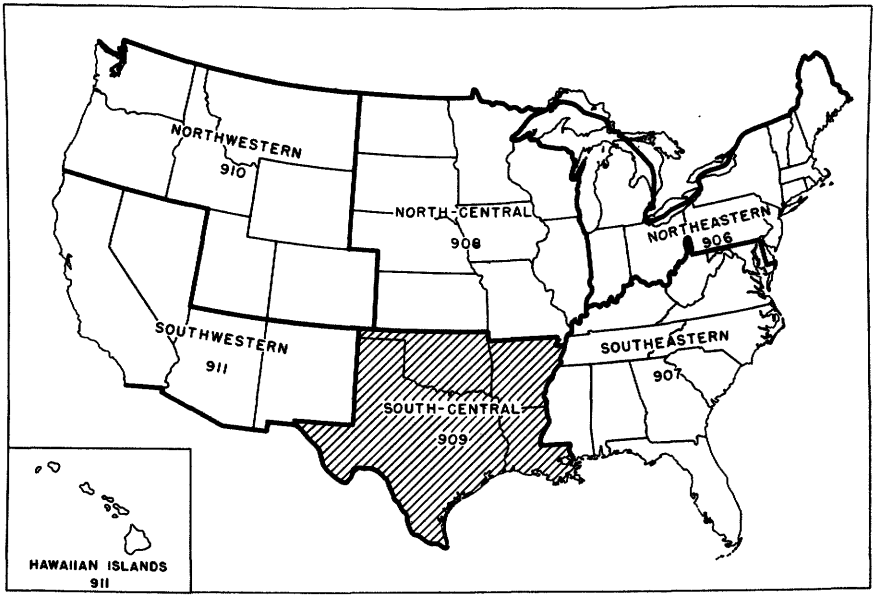

Figure 1.--Outline map of the United States, showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1940. The shaded section represents the part of the country covered by this volume.

to evaluate the effects of the many factors influencing them. It is not ordinarily possible to make general statements regarding changes in ground-water levels that will apply over large areas. The following summaries are taken chiefly from the interpretive texts of the several State sections in this volume. They note very briefly the changes in ground-water levels or artesian pressure that occurred in 1940 in the parts of the underground reservoirs in the south-central States that the observation wells tap.

Arkansas.--There was a net decline in water level from the spring of 1939 to the spring of 1940 throughout most of the Grand Prairie region, but the decline ranged from only about 0.1 foot to 9 feet. The average net change in water level for the entire region was a decline of about 0.5 foot. This is slightly less than the decline that occurred from the spring of 1938 to the spring of 1939.

Nearly everywhere along the eastern and southern borders of the Grand Prairie region, and in small areas along the western border there was a decline in water level of one foot or more. In the interior part of the region, however, the decline was in no place as much as one foot. In a small area several miles north of Carlisle, and in a small area between Stuttgart and Ulm, the ground-water level rose one to two-tenths of a foot from the spring of 1939 to the spring of 1940. In general, the differences in the change of water level from place to place can be attributed to differences in quantity of water pumped from wells for irrigation in different parts of the region.

Louisiana.--The ground-water level in Grant, La Salle, and Avoyelles Parishes, in central Louisiana, fluctuated through a range during 1940 that was comparable to that of 1939. The water levels in wells in or near Alexandria, in Rapides Parish, were, however, in general lower in 1940 than in 1939.

In Tangipahoa and St. Tammany Parishes, in southeastern Louisiana, water levels in wells in 1940 were 1 to 2.5 feet lower than in 1939. The decline apparently was caused by increased draft from wells for irrigation and by a prolonged period of dry weather.

Ample precipitation during the growing season of 1940 provided more water than usual for the rice fields in southwestern Louisiana. As a result the pumpage from wells was reduced and the lowest water levels recorded for the year were on the average about 9 feet above the lowest levels of 1939. At the end of 1940, the water levels were still approximately 3.5 feet above the levels at the end of 1939.

Oklahoma.--Water levels in wells in the Panhandle--Beaver, Cimarron, and Texas Counties--continued the gradual rise in 1940 that has been in progress since 1938. The average water level at the end of November 1940 was 0.05 foot higher than in November 1939 and 0.10 foot higher than in November 1938. The rise has been most pronounced in Beaver County where the November averages for 1939 and 1940 were 0.16 foot and 0.30 foot, respectively, above the average for November 1938. In all three of the Panhandle Counties, the maximum fluctuations of water level for groups of wells have occurred in wells tapping water in the alluvium.

Texas.--Water levels in wells tapping water in the Edwards limestone in Uvalde and Medina Counties were mostly lower at the end of 1940 than at the end of 1939.

In Dimmit and Zavala Counties the water levels in most wells rose in 1940 to stages that were as high or higher than those observed in 1930. Large scale pumping for irrigation in parts of these counties has been in progress for the last 21 years.

Water levels in wells in the Houston area declined rather persistently in 1940, probably owing to increased pumpage. Ground-water levels in the vicinity of Galveston also declined in the year.

Measurements made in approximately 600 observation wells in the High Plains indicate that in areas of heavy pumping for irrigation the net decline in water level during 1940 was greater than it was during 1939. In areas beyong the influence of heavy withdrawals, the fluctuations in ground-water level were small.

The water levels in most wells in the vicinity of El Paso declined in 1940, chiefly because there was a considerable increase in pumpage during the year. The average decline in water level in 32 wells was 2.5 feet.

ARKANSAS

GRAND PRAIRIE REGION

By D. G. Thompson and R. G. Kazmann

Measurements of depth to water level in wells in the Grand Prairie region, which comprises Arkansas County, large parts of Lonoke and Prairie Counties, and very small parts of Jefferson and Monroe Counties, Arkansas, were continued in 1940 by cooperative agreement between the Arkansas Agricultural Experiment Station and the Federal Geological Survey. This is the fourteenth successive year that measurements have been made in this region, the first measurements having been made by the Federal Geological Survey, in cooperation with the Arkansas Geological Survey, in September 1927. The work of measuring the wells was done by employees of the Agricultural Experiment Station under the general supervision of Prof. Deane G. Carter and under the immediate direction of Kyle Engler and L. C. Carter. As in past years, T. J. Fricke, engineer of the Federal Land Bank of St. Louis, has cooperated informally in the well-measurement program and in the study and interpretation of the field records.

Water-Supply Paper 777 contains records of 18 wells from the beginning of measurements, in 1927 or 1928, through 1935; Water-Supply Paper 840 contains the complete records of 16 additional wells; Water-Supply Paper 845 contains the complete records of 5 additional wells; and Water-Supply Paper 886 contains the complete records of 11 additional wells; the present report contains the measurements of these wells made during 1940, with the complete record from the beginning of observations through 1940, of 31 additional wells--a total of 81 wells.

As stated in the earlier reports just mentioned, the trend of water level or artesian head in the Grand Prairie region from year to year may be determined by annual measurements made once a year as late as possible in the spring but before pumping for rice irrigation begins. Accordingly, for most of the wells in most years only a single measurement, in the spring, has been made. Measurements made in the fall, after the irrigation season has ended, give some suggestion as to the effects of pumping during the previous summer; but, because local irregularities due to pumping during

the summer have not been smoothed out, they are not so conclusive as the measurements made during the following spring. For well 280, which is equipped with an automatic water-stage recorder, measurements are given of the depth to water level whenever the recorder charts were changed, which was generally at weekly intervals. A continuous record of the fluctuations of water level in this well has been obtained since August 1928. In the fall of 1940 several wells were measured several times, and these frequent measurements give some indication of the rate of recovery of the water level in wells after the close of the irrigation season.

As described in previous reports, the water level in all wells in the Grand Prairie region fluctuates--at times as much as 0.8 foot in 24 hours and more than 1 foot in a few days--as a result of changes in atmospheric pressure. To make accurate comparisons of the water level on corresponding dates in different years, corrections for fluctuations of atmospheric pressure must be made by comparing the pressures, as determined from barograph records at some place nearby, at the time of measurement in successive years. Messrs. Engler and Fricke have made such corrections for about 350 wells that were measured by them in the spring of 1939 and 1940, and on the basis of the corrected data have prepared a map of the Grand Prairie region showing lines of equal change in water level between the measurements. The map shows that a net decline in water level took place throughout most of the region, and the amount of change in level ranged from only about 0.1 foot to 9 feet. The average change in level for the entire region was about 0.5 foot. This is slightly less than the change from the spring of 1938 to the spring of 1939. It is believed to be due, at least in part, to the fact that the area irrigated by water from the Pleistocene beds was almost 15,000 acres less in 1939 than in 1938; and the quantity of water taken from the beds was about 28,000 acre feet less.

In general, the differences in decline from place to place can be attributed in large part to differences in quantity of water pumped for irrigation in different parts of the region; except that the greatest differences, which occurred in the extreme southeastern part of the region, probably are due to differences in the stage of White River on the dates of measurement of the wells in 1939 and 1940. Nearly everywhere along the eastern and southern borders of the region, and in small areas

along the western border there was a decline of one foot or more. In the interior part of the region, however, the decline apparently was generally not as great as it was from the spring of 1938 to the spring of 1939. In no place in the interior was it as much as one foot. Declines of eight or nine tenths of a foot occurred in a small area near Olena, another small area southwest of DeWitt, and a narrow, elongated area extending from a locality about five miles east of Stuttgart northeastward for several miles. None of these areas coincide with areas of considerable decline in the previous year. The water level in observation wells, corrected for barometric differences in the two years, apparently was one to two-tenths of a foot higher in the spring of 1940 in a small area several miles northeast of Carlisle, and in a small area between Stuttgart and Ulm. In the last year or two a considerable acreage in the vicinity of the latter area has been irrigated from surface reservoirs, and the rise in water level, though small, may reflect a decrease in pumpage of ground water.

It is believed that originally, in practically the whole region, the so-called shallow or Pleistocene water-bearing beds were completely saturated and the water was under artesian pressure. In a preliminary report on the Grand Prairie region,[1/] made public in 1931, it was stated that by the spring of 1929 the water level had declined so much that the upper part of the water-bearing beds had been drained in several areas that totaled about 100 square miles, or about 64,000 acres. It was estimated that at least 220,000, and perhaps more than 333,000, acre-feet of water had been removed from storage. On the basis of well logs and other data, Mr. Engler determined that by the spring of 1939 the area in which the upper part of water-bearing beds had been drained had enlarged to include a very large part of prairie, except only areas near the border of the Grand Prairie. The total area in which drainage is believed to have occurred by 1939 was about 319,000 acres, and by the spring of 1940, it is estimated to have been about 330,000 acres.

On the basis of the computed decline of water level throughout the region, and assuming an average figure for the specific yield, Mr. Engler estimated the quantity of water withdrawn from storage in the region. When this is deducted from estimated total pumpage, the resulting figure is the

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1/ Ground-water supplies for rice irrigation in the Grand Prairie region, Arkansas: U. S. Dept. Interior Press memo. 49844, 21 pp., 2 maps, Jan. 26, 1931.

quantity believed to have moved underground to the wells from areas of recharge, which, as stated in the 1931 report, are all believed to be outside the Grand Prairie region. The quantity of recharge by inflow determined on the basis of the decline in water level in 1939-1940 was estimated to be about 140,000 acre-feet. This is less than the preliminary estimate of safe yield of the water-bearing beds which, in the 1931 report, was given as between 150,000 acre-feet and 175,000 acre-feet of water annually. Similar computations based on the decline from the spring of 1939 to the spring of 1940 gave a figure for inflow very nearly equal to that for the previous period.

In order to check this estimate by another method in the winter of 1938-1939 Mr. Engler made several pumping tests to determine the coefficient of permeability of the water-bearing beds. Additional tests were made in the winter of 1939-40 and 1940-41; and further tests will be made in the winter of 1941-42. L. K. Wenzel, of the Geological Survey participated in the tests of 1939-40, and R. G. Kazmann in those of 1940-41. Computations of inflow based on the coefficients of permeability give results closely comparable to those determined by the drained area method. They all suggest that the safe yield of the Pleistocene water-bearing beds may be sufficient to irrigate only between 60,000 and 70,000 acres of rice instead of between 100,000 and 117,000 acres of rice originally estimated in the report of 1931. This is based on the assumption that the average requirement for rice is 1.8 acre-feet of water.

As pointed out in Water-Supply Paper 845, a study of water-level measurements obtained in the fall of 1938 shows that the water is moving toward the Grand Prairie region from rather distant localities to the west, northwest, and north of the region. Furthermore, in the rice-growing territory north of the Grand Prairie region the water level has declined somewhat as a result of pumping. If there should be a considerable increase in the acreage irrigated in this northern territory, with a consequent increase in consumption of ground water, the inflow from this direction into the Grand Prairie region would probably decrease, and the ultimate safe yield would be even less than the estimate given above. The consumption of ground water from the Pleistocene beds must be reduced greatly if the slow but continual decline in water level is to be stopped.

Water levels in the following wells are given in feet below the measuring points either described in the present report, or, for wells the records of which have been previously published, as described in Water-Supply Papers 777, 817, 840, 845, and 886.

Unless otherwise stated the measuring points for the following wells are either as given in the original published description or in the last amended statement published in footnotes in Water-Supply Papers 777, 817, 840, 845, or 886. Where measuring points have been changed, corrections for the change in altitude have not been made. None of the depths to water level have been corrected for barometric fluctuations.

Arkansas County

280. Fred Hedrich. Equipped with an automatic water-stage recorder. For 1940 the depths to water level whenever the recorder charts were changed, usually at weekly intervals, are given below. Comparison of the 1940 record with previous years may be made by reference to the graph of the lowest water level reached each day since the recorder was installed in Aug., 1928, which was published as figure 1, p. 9, in Water-Supply Paper 840. Lowest water level in 1940, 94.61 feet Aug. 6. Lowest water level in 1939, 94.86 feet Aug. 21. Highest water level in 1940, 89.12 feet Apr. 17. Highest water level in 1939, 88.00 feet Jan. 29. The high points are primarily induced by extreme conditions of low atmospheric pressure.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	2:50 p.m.	90.08	July 5	8:00 a.m.	91.01
12	2:30 p.m.	89.61	12	8:40 a.m.	90.35
21	p.m.	90.10	19	9:25 a.m.	93.25
28	9:45 a.m.	89.97	26	8:05 a.m.	93.88
Feb. 2	2:00 p.m.	89.97	Aug. 2	11:00 a.m.	91.94
9	8:30 a.m.	89.47	9	8:55 a.m.	93.87
18	11:45 a.m.	89.05	16	8:05 a.m.	91.56
23	10:15 a.m.	90.05	23	8:50 a.m.	91.78
Mar. 1	5:30 p.m.	89.35	30	8:15 a.m.	94.05
8	5:10 p.m.	89.54	Sept. 6	7:55 a.m.	92.17
14	3:00 p.m.	89.95	13	8:05 a.m.	91.67
22	11:30 a.m.	89.63	20	8:45 a.m.	91.50
29	8:35 a.m.	89.30	27	8:45 a.m.	91.52
Apr. 5	9:45 a.m.	89.68	Oct. 4	7:45 a.m.	91.18
12	5:45 p.m.	89.96	11	11:20 a.m.	91.12
19	9:00 a.m.	89.15	18	7:55 a.m.	91.10
25	3:15 p.m.	89.54	25	1:20 p.m.	90.81
May 3	2:20 p.m.	89.37	Nov. 1	8:00 a.m.	90.55
9	5:55 p.m.	89.42	8	10:15 a.m.	90.93
18	9:20 p.m.	89.17	15	8:00 a.m.	91.03
24	10:15 p.m.	89.19	22	9:20 a.m.	90.51
June 1	8:45 a.m.	89.59	29	9:40 a.m.	90.59
7	1:15 p.m.	90.12	Dec. 6	8:45 a.m.	90.47
14	8:00 a.m.	93.26	13	10:55 a.m.	90.43
21	8:35 a.m.	90.70	20	11:05 a.m.	90.47
28	8:05 a.m.	92.64	27	9:45 a.m.	89.54

Arkansas County--Continued.

Annual spring measurements, and for a few wells a fall measurement, have been made as follows:

Water level, in feet below measuring point, 1940

Well	Date	Time	Water level	Well	Date	Time	Water level
205	Apr. 22	5:00 p.m.	94.14	437	Sept.22	10:40 a.m.	77.54
210	22	4:25 p.m.	92.67		Oct. 2	11:30 a.m.	77.26
261	27	2:45 p.m.	65.53	440	Apr. 24	12:50 p.m.	87.24
293	(a)			456	24	1:20 p.m.	83.39
304	12	4:25 p.m.	82.51		Sept.14	12:30 p.m.	(e)
311	27	11:45 a.m.	101.81		16	3:30 p.m.	85.57
318	12	9:35 a.m.	87.34		18	3:05 p.m.	85.55
344	24	5:30 p.m.	92.61		20	1:00 p.m.	85.40
353	Sept.22	7:45 p.m.	95.20		22	9.35 a.m.	85.26
362	Apr. 26	5:30 p.m.	56.98		24	1:50 p.m.	95.09
374A	12	5:15 p.m.	39.23		Oct. 2	10:30 a.m.	84.95
378	25	6:25 p.m.	84.91	461	Apr. 24	2:30 p.m.	60.44
392A	25	11:15 a.m.	82.38	465	25	4:00 p.m.	37.45
412	27	4:00 p.m.	c58.99	472	4	12:15 p.m.	52.30
414	26	5:05 p.m.	59.74	475	3	4:35 p.m.	60.62
437	25	2:10 p.m.	74.47	480	26	10:45 a.m.	54.55
	Sept.14	10:45 a.m.	d77.98	486	4	1:10 p.m.	46.16
	16	12:50 p.m.	77.82	499	4	3:05 p.m.	42.44
	18	10:45 a.m.	77.75	501	(b)		
	20	11:30 a.m.	77.65	506	26	11:30 a.m.	49.45
				507	26	12:25 p.m.	42.83

The following measurements are reported for the first time:

245. J. W. Darrough. Near NW cor. sec. 22, T. 2 S., R. 4 W. Measuring point, top of pump base at hole under discharge pipe, about 208 feet above sea level.

Water level, in feet below measuring point, 1929-40

Date	Hour	Water level	Date	Hour	Water level
Apr. 18, 1929	5:00 p.m.	69.56	Sept. 7, 1934	12:15 p.m.	78.76
May 8	12:00 p.m.	69.72	Oct. 1	3:00 p.m.	h80.00
Apr. 15, 1930	3:30 p.m.	70.94	Dec. 5	12:20 a.m.	77.90
Sept.29	5:00 p.m.	74.14	Feb. 22, 1935	.....	77.28
Apr. 13, 1931	1:40 p.m.	72.09	Mar. 15	1:30 p.m.	77.35
Sept.29	4:25 p.m.	74.69	Apr. 10, 1936	.....	77.90
28, 1932	3:30 p.m.	f76.22	22, 1937	9:15 a.m.	79.05
Mar. 3, 1933	4:30 p.m.	g76.23	26, 1938	10:05 a.m.	i79.84
Sept.30	5:45 p.m.	76.90	25, 1939	10:10 a.m.	j80.12
Mar. 15, 1934	2:00 p.m.	76.15	Sept.14	9:30 a.m.	82.30
			Apr. 22, 1940	3:10 p.m.	80.68

264. C. B. Stephens. SE¼ sec. 22, T. 2 S., R. 3 W. Measuring point, top of pit at south side, level with land surface. Altitude of measuring point not known. This is an abandoned well near well with pump.

a Gravel in pit above water level. No measurement obtained.
b No measurement made in 1940.
c Heavy oil in pit of well. Measurement may not be accurate.
d Well shut down Sept. 9.
e Pumping
f Pump shut down 1 month.
g Pit probably clogged; measurement may not indicate true level.
h Tape hit pump.
i New measuring point, top of pit on north side, about 0.1 foot below old measuring point and about 208 feet above sea level.
j Measurement made from top of pit on north side.

Arkansas County--Continued.

264. C. B. Stephens--Continued.

Water level, in feet below measuring point, 1929-40

Date	Hour	Water level	Date	Hour	Water level
May 25, 1929	12:05 p.m.	55.47	Apr. 26, 1938	10:50 a.m.	b61.72
Sept.21	4:20 p.m.	60.16	25, 1939	11:50 a.m.	c60.67
Mar. 10, 1936	.....	62.91	25	11:55 a.m.	d61.29
Apr. 22, 1937	10:10 a.m.	61.41	27, 1940	2:55 p.m.	c63.65
26, 1938	10:45 a.m.	a60.31		2:55 p.m.	d64.42

274. W. W. Crum. NW¼ sec. 29, T. 3 S., R. 6 W. Measuring point, top of pit, east side, 1 foot above land surface and 195.48 feet above sea level.

Water level, in feet below measuring point, 1928-40

July 24, 1928	4:25 p.m.	18.65	Feb. 26, 1932	9:00 a.m.	19.63
Aug. 23	2:42 p.m.	18.88	Apr. 30	2:00 p.m.	19.68
Oct. 4	11:00 a.m.	19.22	Sept.26	5:10 p.m.	20.80
Nov. 3	2:35 p.m.	19.32	Mar. 4, 1933	9:00 a.m.	20.72
Jan. 4, 1929	12:45 p.m.	19.20	Sept.28	3:40 p.m.	20.82
Feb. 21	4:30 p.m.	18.84	Mar. 15, 1934	1:10 p.m.	20.33
Mar. 18	9:30 a.m.	18.65	Sept.27	12:50 p.m.	21.34
May 2	10:55 a.m.	18.62	Nov. 23	1:00 p.m.	21.55
July 4	9:00 a.m.	e18.77	Dec. 26	1:50 p.m.	21.72
29	2:45 p.m.	19.10	Mar. 7, 1935	8:40 a.m.	21.09
Sept. 6	10:20 a.m.	19.66	15	11:00 a.m.	20.74
25	10:10 a.m.	19.82	Apr. 5, 1937	2:30 p.m.	21.75
May 1, 1930	11:10 a.m.	19.71	Sept.24	11:15 a.m.	22.80
Aug. 29	10:20 a.m.	f20.98	Apr. 2, 1938	2:15 p.m.	21.77
Sept.25	10:30 a.m.	20.94	3, 1939	2:40 p.m.	22.27
May 5, 1931	10:10 a.m.	20.63	Sept. 5	12:05 p.m.	22.52
Sept.25	1:15 p.m.	21.54	Apr. 2, 1940	3:30 p.m.	22.90

305. Pearl Clow. NW¼NW¼ sec. 32, T. 3 S., R. 5 W. Measuring point, top of pump base at hole with cover on north side, about 200 feet above sea level.

Water level, in feet below measuring point, 1928-40

July 7, 1928	2:45 p.m.	g48.51	Mar. 4, 1933	10:20 a.m.	46.82
Aug. 23	4:15 p.m.	48.15	Sept.28	4:40 p.m.	m49.47
Oct. 4	1:50 p.m.	48.52	Mar. 8, 1934	11:30 a.m.	m48.47
Jan. 4, 1929	1:40 p.m.	44.74	Sept.27	2:00 p.m.	49.45
May 2	12:10 p.m.	44.38	Nov. 26	1:00 p.m.	48.77
Sept.25	11:25 a.m.	h48.10	Dec. 26	3:30 p.m.	48.80
Oct. 4	10:30 a.m.	47.30	Mar. 7, 1935	10:20 a.m.	48.52
May 1, 1930	8:40 a.m.	45.30	6, 1936	.....	48.79
Sept.25	1:00 p.m.	48.69	Sept. 2	.....	51.95
Oct. 11	12:20 p.m.	48.14	Apr. 5, 1937	5:15 p.m.	49.11
May 2, 1931	12:15 p.m.	46.29	Sept.24	10:15 a.m.	50.99
Aug. 29	12:00 p.m.	151.90	Apr. 2, 1938	4:00 p.m.	50.09
Sept.25	3:30 p.m.	j48.47	May 3, 1939	3:45 p.m.	50.49
Feb. 26, 1932	8:05 a.m.	46.95	Sept. 5	3:00 p.m.	54.29
Apr. 30	12:45 p.m.	46.66	Apr. 2, 1940	4:50 p.m.	49.97
Sept.26	6:45 p.m.	k47.70			

a Altitude 212 feet -- West well.
b Altitude 213 feet -- East well.
c West well measured from top of pit.
d East well measured from top of pit.
e Well not used this season.
f Pumped for about 3 weeks for irrigating corn and cotton; no rice irrigated.
g Pump shut down 9:00 a.m.
h Pump shut down about Sept. 17.
i Pump shut down Aug. 25, having pumped 51 days.
j Measuring point settled about 2 inches.
k Pit settled 14 inches during pumping season and 2 inches in 1931, thus making the measuring point 16 inches lower than the original point. Measurement taken from the new point.
m Measured from old measuring point, which was restored.

Arkansas County--Continued.

355. W. A. Fehrenbaker. SE¼NE¼ sec. 21, T. 3 S., R. 3 W. Measuring point, top of pump base, 0.3 foot above land surface and 204.10 feet above sea level. With a few exceptions water level in well has been lower at each measurement than at the previous one and the measurements may not represent the true ground-water level.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
July 30, 1928	.....	66.44	Apr. 15, 1931	11:45 a.m.	68.50
Sept.22	11:05 a.m.	66.61	Sept.26	8:45 a.m.	b69.40
Dec. 31	1:50 p.m.	66.48	28, 1932	12:40 p.m.	c69.70
Mar. 5, 1929	3:45 p.m.	66.62	Mar. 2, 1933	5:30 p.m.	69.95
Apr. 16	12:50 p.m.	66.58	Sept.29	10:20 a.m.	d70.18
July 11	8:20 a.m.	66.76	Mar. 14, 1934	12:30 p.m.	70.55
Aug. 3	8:30 a.m.	66.84	Sept. 8	12:00 p.m.	e70.75
Sept. 7	11:25 a.m.	67.02	Mar. 1, 1935	3:20 p.m.	70.95
23	9:45 a.m.	67.03	14	5:00 p.m.	71.11
Apr. 16, 1930	10:30 a.m.	67.22	fApr. 3(?),1937	12:35 p.m.	72.23
Sept. 3	.....	a68.15	Apr. 27, 1939	2:20 p.m.	g73.27
26	10:30 a.m.	68.25	27, 1940	5:00 p.m.	73.88

362. H. Bothe estate. NW¼ sec. 22, T. 3 S., R 2 W. Measuring point, top of pump base at small hole, 0.5 foot above land surface and 199.53 feet above sea level.

Water level, in feet below measuring point, 1928-40

Aug. 15, 1928	.....	50.20	Apr. 20, 1932	11:50 a.m.	54.36
Sept. 1	.....	50.39	Sept. 8	4:30 p.m.	55.25
Oct. 9	3:40 p.m.	50.82	27	4:30 p.m.	i55.52
Mar. 1, 1929	1:30 p.m.	h51.65	Oct. 18	12:10 p.m.	55.85
Apr. 17	5:30 p.m.	51.04	Mar. 2, 1933	10:30 a.m.	56.37
May 10	5:12 p.m.	50.79	Sept.29, 1933	1:40 p.m.	j54.62
26	10:50 a.m.	50.56	Oct. 17	9:20 a.m.	54.87
July 11	9:30 a.m.	49.70	Mar. 14, 1934	2:30 p.m.	56.10
Aug. 3	10:15 a.m.	49.84	Sept.10	3:00 p.m.	k56.09
Sept.,0	11:30 a.m.	50.72	28	11:15 a.m.	56.42
Oct. 15	12:00 p.m.	51.45	Oct. 17	12:40 p.m.	56.74
15	5:25 p.m.	51.39	Mar. 1, 1935	1:45 p.m.	56.85
Apr. 16, 1930	12:45 p.m.	51.95	14	3:15 p.m.	56.80
Aug. 11	12:45 p.m.	53.05	18, 1936	.....	56.05
Sept. 3	3:00 p.m.	53.58	Sept.16	.....	58.97
26	12:20 p.m.	54.15	Apr. 19, 1937	5:30 p.m.	55.45
Oct. 15	4:00 p.m.	54.46	Sept.24	3:20 p.m.	l55.92
Apr. 15, 1931	2:00 p.m.	55.00	Apr. 23, 1938	2:45 p.m.	m54.38
Sept. 4	7:45 a.m.	55.37	Sept.12	9:25 a.m.	n54.95
26	9:45 a.m.	55.40	Apr. 22, 1939	2:50 p.m.	o54.70
Oct. 15	4:00 p.m.	55.70	26, 1940	5:30 p.m.	56.98
Feb. 25, 1932	9:45 a.m.	55.60			

a Pump shut down about Aug. 27.
b Well pumped recently.
c Well not pumped in 1932.
d Well not pumped in 1933.
e Well shut down several days before measurement was made.
f Exact date not known; either Apr. 3 or Apr. 30.
g Well pumped in 1938.
h Measurement uncertain.
i Well not pumped in 1932
j Well not pumped in 1933.
k Well not pumped in 1934.
l Apparently same pump in well and same measuring point, but equipped with electric motor. Hole caved around well that was about 15 feet in diameter and 9 feet deep with nearly straight sides. This may explain high water level in 1937. Well may have been pumped in 1937.
m Measured from top of pit, level with land surface; pump out of well.
n Measured from base of pump.
o Measured from top of pit.

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Arkansas County--Continued.

364. J. T. McWilliams. SE¼NE¼ sec. 35, T. 3 S., R. 2 W. Measuring point, top of pump base, about level with land surface. Altitude of measuring point unknown.

Water level, in feet below measuring point, 1929-40

Date	Hour	Water level	Date	Hour	Water level
May 26, 1929	3:25 p.m.	50.32	Mar. 2, 1933	9:45 a.m.	54.63
Aug. 3	11:15 a.m.	53.58	Sept.29	3:10 p.m.	54.15
Sept.10	1:10 p.m.	52.85	Oct. 17	10:20 a.m.	a54.45
Oct. 15	3:30 p.m.	52.23	Mar. 14, 1934	4:10 p.m.	54.77
Apr. 16, 1930	2:45 p.m.	51.62	Sept.28	9:10 a.m.	56.51
Sept.26	4:45 p.m.	55.48	Mar. 1, 1935	11:30 a.m.	55.85
Oct. 15	1:30 p.m.	54.10	14	1:00 p.m.	55.82
Apr. 15, 1931	3:40 p.m.	54.30	18, 1936	.....	55.18
Sept.26	1:00 p.m.	56.00	Sept.16	.....	58.77
Oct. 15	2:00 p.m.	55.67	Apr. 19, 1937	4:45 p.m.	54.35
Apr. 20, 1932	11:25 a.m.	53.54	23, 1938	2:10 p.m.	54.76
Sept.27	9:40 a.m.	55.38	22, 1939	2:35 p.m.	55.63
Oct. 18	10:40 a.m.	55.50	26, 1940	5:15 p.m.	57.69

415. J. W. Watkins. SW¼SE¼ sec. 19, T. 4 S., R. 2 W. Measuring point, top of outer raised rim of pump base, level with land surface. Altitude of measuring point not known.

Water level, in feet below measuring point, 1929-40

Sept.10, 1929	2:40 p.m.	b67.96	Oct. 17, 1934	8:20 a.m.	68.48
26, 1930	5:20 p.m.	69.12	Dec. 6	4:30 p.m.	66.96
26, 1931	2:30 p.m.	69.16	Mar. 1, 1935	10:00 a.m.	65.08
Oct. 15	5:00 p.m.	67.90	14	10:40 a.m.	64.95
Sept.27, 1932	10:30 p.m.	c68.65	18, 1936	.....	61.10
Oct. 18	8:00 a.m.	67.98	Sept.23	.....	70.50
Mar. 2, 1933	1:45 p.m.	64.38	Apr. 19, 1937	2:45 p.m.	66.28
Sept.29	6:00 p.m.	67.62	19, 1938	3:30 p.m.	65.98
Oct. 17	12:30 p.m.	d67.19	Sept.12	10:30 a.m.	71.07
Mar. 14, 1934	5:30 p.m.	63.51	Apr. 22, 1939	12:30 p.m.	67.16
Sept.28	7:15 a.m.	68.90	26, 1940	3:30 p.m.	66.12

420. Price. Near NE cor. sec. 30, T. 4 S., R. 1 W. Measuring point, top of pump base at hole under west side of base, 186.85 feet above sea level.

Water level, in feet below measuring point, 1928-40

Sept. 1, 1928	p.m.	44.05	Apr. 20, 1932	12:00 p.m.	46.29
Oct. 9	5:20 p.m.	43.90	Sept.28	8:20 a.m.	47.09
Mar. 7, 1929	11:30 a.m.	44.04	Oct. 18	9:00 a.m.	47.21
Apr. 17	3:40 p.m.	43.54	Mar. 2, 1933	8:40 a.m.	47.49
May 10	3:25 p.m.	43.40	Sept.29	3:40 p.m.	46.55
26	12:50 p.m.	43.26	Oct. 17	11:10 a.m.	e46.67
July 11	p.m.	42.77	Mar. 14, 1934	4:40 p.m.	47.05
Aug. 3	p.m.	42.68	Sept.10	5:45 p.m.	f51.85
Sept.10	1:40 p.m.	43.16	28	8:00 a.m.	47.57
Oct. 15	2:05 p.m.	43.22	Oct. 17	9:40 a.m.	g47.56
Apr. 16, 1930	3:30 p.m.	43.35	Mar. 1, 1935	10:45 a.m.	47.80
Aug. 11	11:45 a.m.	43.60	14	12:15 p.m.	48.14
Sept. 3	4:45 p.m.	44.14	20, 1936	.....	46.94
Oct. 15	1:00 p.m.	44.45	Sept.16	.....	h47.88
Apr. 15	4:20 p.m.	45.54	Apr. 19, 1937	4:20 p.m.	47.28
Sept.26, 1931	1:40 p.m.	45.54	23, 1938	1:35 p.m.	47.37
Oct. 15	1:15 p.m.	46.63	22, 1939	2:00 p.m.	47.48
Feb. 25, 1932	11:00 a.m.	47.00	26, 1940	4:50 p.m.	48.24

a Well pumped in 1933.
b Pump shut down Sept. 6
c Pump shut down 2 weeks before measurement was made.
d Well pumped in 1933.
e Well not pumped in 1933.
f Well pumped in 1934.
g Measurement may be in error 0.04 foot
h Measured from bottom edge of pump base.

Arkansas County--Continued.

457. Missouri State Life Insurance Co. (?). SE¼SE¼ sec. 31, S., R. 3 W. Measuring point, top of pit, level with land surface 188.67 feet above sea level. This is an abandoned well about 50 feet nwest of well with pump. See well 457-A for record of measurements hat well.

Water level, in feet below measuring point, 1928-40

	Hour	Water level	Date	Hour	Water level
8, 1928	.....	a73.55	Sept.22, 1932	4:20 p.m.	70.09
.22	1:20 p.m.	67.50	Feb. 24, 1933	.....	f68.80
16	2:30 p.m.	65.19	Sept.23	1:30 p.m.	72.50
15, 1929	6:30 p.m.	(b)	24, 1934	2:00 p.m.	71.40
.10	3:30 p.m.	72.49	Feb. 23, 1935	3:00 p.m.	68.53
23	11:15 a.m.	70.82	Mar. 13, 1936	.....	69.18
24, 1930	4:45 p.m.	65.23	Apr. 7, 1937	11:00 a.m.	70.18
15	2:45 p.m.	64.97	Sept.22	2:40 p.m.	72.64
.22	3:30 p.m.	68.52	Apr. 8, 1938	9:20 a.m.	70.30
29, 1931	11:00 a.m.	(c)	4, 1939	11:24 a.m.	71.56
.22	12:00 p.m.	(d)	Sept.20	11:40 a.m.	74.64
24, 1932	3:40 p.m.	e65.50	Apr. 3, 1940	3:50 p.m.	71.07

457-A. Missouri State Insurance Co. (?). SE¼SE¼ sec. 31, T. 5 S., W. Measuring point, top of pump base, 0.5 foot above land surface 189.13 feet above sea level. This is well with pump about 50 feet heast of abandoned well 457.

Water level, in feet below measuring point, 1929-40

15, 1929	6:30 p.m.	63.60	Mar. 1, 1934	4:50 p.m.	67.96
.10	3:30 p.m.	72.90	Sept.11	9:10 a.m.	i71.54
23	11:15 a.m.	71.18	24	1:50 p.m.	70.76
29, 1931	11:00 a.m.	66.17	Feb. 23, 1935	.....	68.87
15	11:00 a.m.	66.26	Mar. 13, 1936	.....	69.51
.22,	12:10 p.m.	g70.85	Apr. 7, 1937	11:00 a.m.	70.55
24, 1932	.....	67.42	Sept.22	2:40 p.m.	73.99
20	5:00 p.m.	66.85	Apr. 8, 1938	9:25 a.m.	69.86
.22	4:20 p.m.	h70.28	4, 1939	11:25 a.m.	71.20
24, 1933	5:50 p.m.	67.28	Sept.20	11:40 a.m.	75.02
.23	1:45 p.m.	71.11	Apr. 3, 1940	3:45 p.m.	j71.40

458. Peter Schaefer. SE¼ sec. 36, T. 5 S., R. 3 W. Measuring t, top of pump base, about level with land surface and 189.48 feet e sea level.

Water level, in feet below measuring point, 1928-40

14, 1928	p.m.	60.66	Sept.23, 1932	4:00 p.m.	66.42
8, 1929	9:10 a.m.	59.58	Mar. 1, 1933	5:20 p.m.	65.00
15	5:50 p.m.	59.51	Sept.23	10:20 a.m.	k65.32
.10	6:10 p.m.	62.18	Mar. 1, 1934	4:00 p.m.	63.91
23	5:20 p.m.	61.85	Sept.24	12:40 p.m.	l66.32
20, 1930	4:20 p.m.	60.18	Feb. 23, 1935	2:00 p.m.	65.37
24	4:00 p.m.	59.84	Mar. 14, 1936	.....	64.18
.22	2:55 p.m.	65.32	Apr. 19, 1937	12:30 p.m.	64.96
29, 1931	7:30 a.m.	63.59	19, 1938	5:50 p.m.	64.96
.23	7:30 a.m.	63.59	20, 1939	4:10 p.m.	65.32
23, 1932	5:30 p.m.	65.02	24, 1940	2:45 p.m.	65.80
20	4:30 p.m.	64.03			

a Pump operating in nearby well.
b Well apparently dry at about 65 feet, but judging from later urements tape probably was lodged on obstruction.
c Well reported dry at 66 feet by observer; tape probably lodged on ruction.
d Tape seemed to hit mud at 73 feet.
e Measured to obstruction.
f Obstruction at 67 feet.
g Electric plant.
h Well pumped in 1932.
i Well not pumped in 1934.
j Measuring point 1 inch above top of pit.
k Pump shut down 3 weeks.
l Well pumped in 1934.

Arkansas County--Continued.

484. George M. Forman Co. NE¼NW¼ sec. 32, T. 6 S., R. 2 W. Measuring point, bottom of hole in side of pump, 0.5 foot above land surface and 183.96 feet above sea level.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
July 31, 1928	.....	41.66	Apr. 28, 1931	5:15 p.m.	49.87
Aug. 30	6:00 p.m.	51.82	May 16	9:15 a.m.	49.70
Sept.13	6:10 p.m.	46.00	Sept.23	8:40 a.m.	b55.60
22	4:55 p.m.	45.96	Feb. 24, 1932	8:10 a.m.	40.58
Nov. 10	11:00 a.m.	46.37	Apr. 21	8:40 a.m.	43.40
Mar. 6, 1929	2:00 p.m.	41.65	Sept. 9	11:30 a.m.	55.47
13	11:55 a.m.	40.70	23	12:30 p.m.	53.27
Apr. 10	3:45 p.m.	31.98	Feb. 24, 1933	2:10 p.m.	47.68
May 11	10:40 a.m.	31.38	Sept.22	4:20 p.m.	c52.19
29	10:40 a.m.	32.53	Mar. 7, 1934	10:00 a.m.	48.46
July 10	8:30 a.m.	48.40	Sept.11	4:45 p.m.	d54.81
Aug. 8	8:00 a.m.	54.25	21	10:40 a.m.	e55.75
Sept. 9	10:00 a.m.	53.98	Feb. 28, 1935	1:15 p.m.	50.60
23	3:05 p.m.	49.18	Mar. 13, 1936	.....	48.75
Jan. 24, 1930	3:50 p.m.	43.35	Sept.29	.....	54.49
Mar. 20	11:00 a.m.	41.05	Apr. 16, 1937	10:30 a.m.	44.14
Apr. 17	2:30 p.m.	42.07	15, 1938	10:30 a.m.	44.14
25	12:10 p.m.	42.85	Sept.12	1:35 p.m.	58.30
Aug. 28	3:50 p.m.	a62.12	Apr. 14, 1939	11:30 a.m.	47.16
Sept.23	7:00 a.m.	54.97	Sept.20	2:50 p.m.	53.45
Apr. 16, 1931	9:45 a.m.	50.01	Apr. 26, 1940	11:15 a.m.	51.88

491. Cunningham and 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 and about 180 feet above sea level.

Water level, in feet below measuring point, 1928-40

Sept.19, 1928	p.m.	32.91	Mar. 13, 1936	.....	34.02
Dec. 9	12:30 p.m.	33.87	Apr. 6, 1937	5:20 p.m.	31.98
Sept. 9, 1929	4:20 p.m.	32.40	8, 1938	1:45 p.m.	32.08
Aug. 28, 1930	.....	33.82	4, 1939	1:40 p.m.	34.52
Sept.24, 1934	4:15 p.m.	f35.82	4, 1940	1:45 p.m.	35.81

492. A. M. Lowe. SE cor. sec. 3, T. 7 S., R. 3 W. Measuring point, top of iron plate on which pump rests level with land surface and about 182 feet above sea level.

Water level, in feet below measuring point, 1928-40

Sept.13, 1928	1:30 p.m.	43.74	Apr. 21, 1932	11:00 a.m.	43.06
22	2:35 p.m.	43.05	Sept. 9	8:20 a.m.	47.18
Nov. 10	3:00 p.m.	42.60	23	8:45 a.m.	h46.73
Apr. 16, 1929	3:00 p.m.	39.09	Mar. 1, 1933	1:40 p.m.	45.00
May 11	3:45 p.m.	38.04	Sept.23	7:00 a.m.	i45.17
29	4:45 p.m.	g38.15	Mar. 7, 1934	2:20 p.m.	43.28
Sept. 9	3:00 p.m.	g43.87	Sept.11	11:45 a.m.	j46.79
23	12:55 p.m.	43.43	24	6:00 p.m.	j46.36
Apr. 17, 1930	9:15 a.m.	40.40	Feb. 28, 1935	4:15 p.m.	45.28
Aug. 28	9:45 a.m.	g47.14	Mar. 13, 1936	.....	43.09
Sept.22	5:00 p.m.	46.14	Apr. 7, 1937	3:50 p.m.	42.91
Apr. 16, 1931	1:30 p.m.	44.20	8, 1938	4:15 p.m.	43.16
Sept. 4	11:00 a.m.	47.04	Sept.12	12:45 p.m.	k46.59
22	2:45 p.m.	46.98	Apr. 4, 1939	3:00 p.m.	44.64
Feb. 24, 1932	10:30 a.m.	43.85	4, 1940	3:20 p.m.	45.65

a Pump shut down 7:00 p.m. Aug. 27; started 4:00 p.m. Aug. 28.
b Pump shut down Sept. 17.
c Several pumps operating nearby.
d Well pumped in 1934.
e Pump shut down 1 hour before measurement was made.
f Well not pumped in 1934; measured from land level.
g Pump operating in well 0.25 mile south.
h Well not pumped in 1932.
i Well not pumped in 1933.
j Well pumped in 1934
k Well abandoned.

Arkansas County--Continued.

514. J. M. Satchfield. SE¼NW¼ sec. 33, T. 7 S., R. 2 W. Measuring point, top of outer raised rim of pump base, level with top of concrete foundation and 181.85 feet above sea level. This well is east of an abandoned well.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
July 31, 1928	.....	30.63	Sept.23, 1931	9:10 a.m.	50.34
Aug. 30	.....	42.50	Feb. 24, 1933	2:45 p.m.	38.79
Sept.13	5:15 p.m.	a64.95	Sept.22	4:45 p.m.	b47.45
22	5:20 p.m.	41.76	Mar. 7, 1934	p.m.	42.09
Oct. 30	1:45 p.m.	43.00	Feb. 28, 1935	2:15 p.m.	44.12
Apr. 16, 1929	5:10 p.m.	19.74	Mar. 13, 1936	.....	42.49
May 11	1:00 p.m.	20.86	Sept.29	.....	48.34
29	1:05 p.m.	16.12	Apr. 16, 1937	12:30 p.m.	36.96
Sept.23	3:40 p.m.	45.55	Sept.22	10:55 a.m.	47.68
Apr. 17, 1930	4:00 p.m.	35.70	Apr. 16, 1938	12:00 p.m.	31.18
Sept.23	8:00 a.m.	49.90	14, 1939	12:50 p.m.	35.12
Apr. 16, 1931	11:10 a.m.	44.45	Sept.20	5:10 p.m.	46.97
Sept.23	4:25 p.m.	52.25			

B 87. W. E. Boyd. Center north side sec. 31, T. 2 S., R. 5 W. Measuring point, hole north side, 0.9 foot above land surface.

Water level, in feet below measuring point, 1935-40

Apr. 24, 1935	.....	60.35	Apr. 5, 1937	.....	62.18
Sept.11	.....	63.80	2, 1938	9:30 a.m.	63.31
Apr. 13, 1936	.....	60.87	3, 1939	1:13 p.m.	63.80
Sept.16	.....	64.95	2, 1940	2:00 p.m.	63.84

B 91. Enders. SE¼ sec. 10, T. 2S, R. 4 W. Measuring point, hole in west side, 0.4 foot above land surface and about 208 feet above sea level.

Water level, in feet below measuring point, 1935-40

May 24, 1935	.....	79.40	Sept.15, 1936	.....	83.33
Sept.16	.....	81.70	Apr. 15, 1937	.....	81.07
Mar. 9, 1936	.....	79.98	14, 1938	10:25 a.m.	81.80
Apr. 10	.....	79.95	12, 1939	3:00 p.m.	82.87
Sept.15	.....	83.40	22, 1940	3:50 p.m.	82.67

B 110. N½ sec. 20, T. 3 S., R. 5 W. Measuring point, hole in southwest side, 0.5 foot above land surface.

Water level, in feet below measuring point, 1935-40

Apr. 18, 1935	.....	79.05	Apr. 11, 1938	10:05 a.m.	82.75
Sept.12	.....	84.08	10, 1939	10:20 a.m.	82.72
Mar. 30, 1936	.....	79.66	Sept. 7	3:25 p.m.	84.02
Sept.16	.....	84.60	Apr. 12, 1940	5:55 p.m.	83.62
Apr. 10, 1937	.....	80.87			

B 133. Snow Wilson (Goetz). SW¼NW¼ sec. 21, T. 4 S., R. 5 W. Measuring point, top of pit, 0.4 foot above land surface.

Water level, in feet below measuring point, 1935-40

Apr. 26, 1935	.....	66.00	Apr. 4, 1938	10:38 a.m.	68.79
Sept.13	.....	70.22	Sept. 5	3:45 p.m.	75.70
Apr. 12, 1937	.....	68.23	Apr. 3, 1940	1:40 p.m.	c68.59
Apr. 4, 1938	12:10 p.m.	68.57			

B 171. South side sec. 13, T. 5 S., R. 3 W. Measuring point, edge of pit on east side, 0.5 foot above land surface and about 192 feet above sea level.

Water level, in feet below measuring point, 1937-40

Apr. 19, 1937	.....	73.82	Apr. 22, 1939	11:15 a.m.	74.51
20, 1938	2:40 p.m.	73.63	26, 1940	2:55 p.m.	74.74

a Measurement made while pump was operating.
b Several nearby pumps operating.
c Measuring point, 0.25 foot above top of pit.

Arkansas County--Continued.

B 189. W. J. Bohnert. NW¼ sec. 32, T. 7 S., R. 3 W., on State Highway 1. Measuring point, edge of hole in side of pump.

Water level, in feet below measuring point, 1937-1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 7, 1937	.....	29.97	Apr. 4, 1940	2:10 p.m.	31.25
8, 1938	3:00 p.m.	29.45			

B 192. 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 and about 179 feet above sea level.

Water level, in feet below measuring point, 1937-40

Apr. 7, 1937	.....	27.04	Sept.20, 1939	1:35 p.m.	31.36
8, 1938	3:45 p.m.	26.55	Apr. 4, 1940	2:30 p.m.	32.88
4, 1939	2:15 p.m.	29.39			

Jefferson County

270. Water level, in feet below measuring point, 1940: Apr. 2, 3:15 p.m., 18.57.

Lonoke County

Water level, in feet below measuring point, 1940

Well	Date	Hour	Water level	Well	Date	Hour	Water level
1	.....	.....	(a)	61	May 2	12:50 p.m.	49.40
8	May 2	3:05 p.m.	49.94	78	2	.....	(b)
10	2	4:25 p.m.	59.49	126	2	9:55 a.m.	38.62
28	2	4:35 p.m.	69.85	127	2	9:30 a.m.	c35.68

The following measurments are reported for the first time:

5. Carl Lilly. SE cor. SW¼ sec. 31, T. 3 N., R. 7 W. Measuring point, top of raised outer flange of pump base, 0.5 foot above land surface and 243.20 feet above sea level.

Measuring point, in feet below measuring point, 1929-40

Date	Hour	Water level	Date	Hour	Water level
May 14, 1929	1:35 p.m.	47.24	Sept.14, 1934	3:30 p.m.	j68.78
Sept.11	4:25 p.m.	d57.98	Oct. 15	10:30 a.m.	57.60
24	12:55 p.m.	56.72	Nov. 19	1:00 p.m.	56.92
Apr. 21, 1930	4:00 p.m.	53.12	Feb. 19, 1935	11:05 a.m.	55.86
May 21	12:00 p.m.	53.30	Apr. 22	.....	55.15
Sept. 1	3:10 p.m.	e59.06	Sept.12	.....	58.68
Oct. 10	4:15 p.m.	f52.31	Apr. 24, 1936	.....	55.86
Apr. 20, 1931	1:45 p.m.	54.19	May 4, 1937	6:45 p.m.	58.17
Oct. 12	12:45 p.m.	g56.33	2, 1938	4:40 p.m.	58.73
13, 1932	12:00 p.m.	h57.80	1, 1939	2:55 p.m.	59.25
Feb. 21, 1933	2:30 p.m.	55.80	Sept.21	2:00 p.m.	64.05
Oct. 14	11:30 a.m.	i57.04	May 2, 1940	4:10 p.m.	59.60
Feb. 28, 1934	5:00 p.m.	55.58			

a No measurement made in 1940. b Well caved; no measurement made in 1940.

c Pump in well; measuring point, bottom of hole on south side of pump, 0.3 foot above pit.

d Stopped pumping Sept. 10. e Well not used in 1930

f Since this measurement shows the water level to have been higher than in April and May, 1930, the measurement of Oct. 10 probably was made in an old well nearby.

g Well not pumped in 1931

h Well pumped in 1932; pump shut down a month before measurement was made.

i Well pumped in 1933. j Well pumped in 1934.

Lonoke County--Continued.

19. Charles G. Miller. SW¼ sec. 26, T. 2 N., R. 8 W. Measuring point, bottom of hole in side of pump, 0.2 foot above top of pit, about 1 foot above land surface and 232.64 feet above sea level.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
Aug. 3, 1928	.....	47.77	Sept.26, 1933	11:35 a.m.	50.75
Sept.24	12:55 p.m.	47.92	Feb. 20, 1934	1:15 p.m.	a49.22
Nov. 20	11:45 a.m.	47.80	Aug. 28	2:00 p.m.	51.60
Jan. 18, 1929	.....	45.60	Sept.26	5:10 p.m.	50.72
May 13	2:55 p.m.	46.23	Feb. 20, 1935	9:30 a.m.	49.77
July 3	4:45 p.m.	46.77	Apr. 22	.....	49.72
Aug. 5	2:00 p.m.	47.42	Mar. 11, 1936	.....	49.59
Sept. 4	3:50 p.m.	47.86	May 4, 1937	4:20 p.m.	50.26
24	3:50 p.m.	49.12	3, 1938	5:40 p.m.	50.98
Feb. 20, 1930	1:40 p.m.	47.01	2, 1939	2:35 p.m.	51.95
Apr. 21	11:45 a.m.	46.86	Sept. 9	12:20 p.m.	54.31
Sept.24, 1931	10:45 a.m.	50.10	May 2, 1940	6:25 p.m.	b51.88
Feb. 20, 1932	12:25 p.m.	48.50			
Apr. 18	4:10 p.m.	47.76			

27. J. T. Kelly. NE¼NW¼ sec. 1, T. 2 N., R. 7 W. Measuring point, top of pump base at hole in side of base on south side, 236.82 feet above sea level.

Water level, in feet below measuring point, 1928-40

Oct. 25, 1928	5:00 p.m.	56.70	Oct. 13, 1932	9:00 a.m.	59.62
Nov. 20	4:10 p.m.	56.13	Sept.14, 1934	4:10 p.m.	f61.55
Jan. 25, 1929	4:45 p.m.	55.04	Oct. 15	9:10 a.m.	60.09
July 3	2:00 p.m.	c59.67	Nov. 19	10:00 a.m.	59.27
Sept.11	5:40 p.m.	61.15	Feb. 19, 1935	9:20 a.m.	58.00
24	10:45 a.m.	d59.12	Apr. 22	8:40 a.m.	57.26
Apr. 22, 1930	11:15 a.m.	54.51	24, 1936	.....	58.09
May 21	1:00 p.m.	54.25	May 3, 1937	5:20 p.m.	59.55
Sept. 1	1:15 p.m.	61.55	2, 1938	2:20 p.m.	g62.28
Oct. 10	2:30 p.m.	58.86	1, 1939	1:35 p.m.	h63.48
Apr. 20, 1931	11:30 a.m.	55.84	2, 1940	5:25 p.m.	63.18
Oct. 12	11:30 a.m.	e55.84			

37. SW¼SE¼ sec. 29, T. 2 N., R. 7 W. Measuring point, bottom of hole in side of pump, 0.2 foot above concrete base and 229.2 feet above sea level.

Water level, in feet below measuring point, 1927-40

Sept.21, 1927	.....	51.66	Apr. 25, 1932	10:00 a.m.	51.76
Apr. 19, 1928	.....	50.20	Sept.24	2:00 p.m.	53.66
Aug. 10	.....	51.29	Feb. 18, 1933	2:20 p.m.	52.87
Sept.24	12:45 p.m.	51.56	Apr. 29	8:30 a.m.	52.39
Oct. 23	10:00 a.m.	51.51	Sept.26	12:10 p.m.	54.06
Jan. 18, 1929	.....	49.74	Feb 28, 1934	2:40 p.m.	53.40
Apr. 25	1:00 p.m.	49.88	Aug. 28	3:30 p.m.	64.70
May 13	2:30 p.m.	50.08	Sept.26	5:30 p.m.	54.54
July 3	5:15 p.m.	50.59	Dec. 1	11:00 a.m.	54.24
Aug. 6	5:30 p.m.	51.20	Feb. 20, 1935	9:50 a.m.	53.85
Sept. 4	4:15 p.m.	51.43	Apr. 22	2:10 p.m.	53.10
24	4:05 p.m.	51.82	24, 1936	.....	53.83
Feb. 20, 1930	3:50 p.m.	50.90	May 4, 1937	4:00 p.m.	54.98
Apr. 21	8:30 a.m.	50.79	3, 1938	5:40 p.m.	55.96
Sept.24	12:05 p.m.	153.22	2, 1939	11:40 a.m.	57.10
Apr. 21, 1931	2:25 p.m.	j52.24	Sept. 9	12:35 p.m.	58.54
Sept.24	11:00 a.m.	k53.38	May 2, 1940	6:15 p.m.	57.18

a Well pumped in 1933.
b Pump out of well; measured from top of pit.
c No nearby pump operating.
d Well 1 mile northeast operating.
e Uncertain measurement.
f Well not pumped in 1934.
g Plant operated, altitude 235 feet.
h Measuring point, top of projecting base.
i Pumped in 1930; new pump installed.
j New measuring point, bottom of hole on north side of pump, 0.25 foot above land surface.
k Pump shut down Aug. 25.

Monroe County

193. Water level in feet below measuring point, 1940: May 2, 10:55 a.m., 72.81.

The following measurements are reported for the first time:

178. Kreimeir Estate. SW¼NW¼ sec. 22, T. 1 S., R. 4 W. Measuring point, top of pit, 1 foot above land surface and 208.2 feet above sea level.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
Aug. 4, 1928	.....	67.57	Mar. 15, 1934	5:15 p.m.	70.60
Sept.20	11:30 a.m.	67.28	Sept.12	2:30 p.m.	b72.20
Nov. 13	4:05 p.m.	66.47	Oct. 2	11:30 a.m.	72.48
Jan. 9, 1929	10:05 a.m.	65.42	Nov. 12	2:40 p.m.	72.27
May 17	2:45 p.m.	64.14	Dec. 4	3:50 p.m.	72.30
Sept.21	5:20 p.m.	69.30	22	2:00 p.m.	72.00
Apr. 23, 1930	1:50 p.m.	66.94	Mar. 6, 1935	12:00 p.m.	71.20
Sept.29	1:00 p.m.	70.50	15	4:00 p.m.	71.50
Apr. 22, 1931	3:00 p.m.	68.87	Apr. 23	2:30 p.m.	71.23
Sept.29	1:00 p.m.	70.86	30, 1937	11:40 a.m.	72.59
Feb. 26, 1932	3:55 p.m.	69.54	30, 1938	11:30 a.m.	c73.14
Apr. 22	11:15 a.m.	69.14	29, 1939	10:40 a.m.	73.81
Sept.29	11:00 a.m.	a71.65	Sept.13	4:35 p.m.	75.46
Mar. 4, 1933	3:00 p.m.	70.58	May 2, 1940	10:10 a.m.	74.02
Sept.30	3:30 p.m.	71.73			

Prairie County

Water level, in feet below measuring point, 1940

Well	Date	Hour	Water level	Well	Date	Hour	Water level
55	May 2	2:25 p.m.	61.81	116	Oct. 4	9:45 a.m.	77.15
88	1	4:35 p.m.	61.19	122	May 2	12:10 p.m.	d77.57
100	Apr. 29	5:25 p.m.	71.18	135	Apr. 23	10:40 p.m.	45.85
116	29	5:50 p.m.	74.74	144	.....	.....	(e)
	Sept.19	9:45 a.m.	79.69	159	May 1	5:00 p.m.	58.90
	21	9:30 a.m.	78.55	201	Apr. 23	9:45 a.m.	47.28
	23	10:00 a.m.	77.84				

The following measurements are reported for the first time:

45. Frank Dvorak. NE¼SW¼ sec. 19, T. 2 N., R. 6 W. Measuring point, top of pump base, level with land surface and 237.80 feet above sea level.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
Aug. 1, 1928	.....	74.85	Sept.24, 1931	3:05 p.m.	74.68
Sept.24	11:50 a.m.	72.65	Feb. 20, 1932	3:10 p.m.	68.94
Jan. 15, 1929	4:40 p.m.	67.79	Apr. 21	6:30 p.m.	67.65
Apr. 25	11:40 a.m.	f64.85	Sept.24	5:20 p.m.	h76.74
May 13	2:00 p.m.	64.76	Feb. 18, 1933	9:40 a.m.	71.22
Sept.12	3:00 p.m.	g77.02	Apr. 29	7:50 a.m.	69.55
24	9:55 a.m.	75.42	Sept.26	5:00 p.m.	75.05
Feb. 20, 1930	4:45 p.m.	67.90	Feb. 20, 1934	2:10 p.m.	i70.37
Apr. 22	9:00 a.m.	66.42	Aug. 24	2:00 p.m.	77.35
Sept. 1	12:00 p.m.	78.85	Sept.15	9:10 a.m.	76.40
24	9:10 a.m.	75.73	26	10:00 a.m.	75.60
Apr. 21, 1931	10:25 a.m.	68.60	Oct. 15	5:45 p.m.	74.10

a Pump shut down 10 days before measurement was made.
b Well pumped in 1934.
c Measuring point about 207 feet.
d Measuring point, top of pit on south side
e No measurement made in 1940
f Well operating Apr. 24.
g Pump shut down about Sept. 5.
h Pump shut down 2 weeks; Nearby pump shut down Sept.20.
i Well pumped in 1933.

Prairie County--Continued.

45. Frank Dvorak--Continued.

Water level, in feet below measuring point, 1928-40

Date	Hour	Water level	Date	Hour	Water level
Nov. 20, 1934	9:00 a.m.	73.24	Sept.18, 1936	.....	79.28
Dec. 21	1:00 p.m.	72.54	May 3, 1937	1:10 p.m.	b73.95
Feb. 20, 1935	10:50 a.m.	71.68	Sept.23	10:20 a.m.	c80.07
Apr. 22	5:50 p.m.	70.14	May 2, 1938	1:25 p.m.	75.32
Sept.12	.....	a77.29	1, 1939	12:05 p.m.	76.28
Mar. 11, 1936	.....	71.17	Sept. 8	2:45 p.m.	81.48
Apr. 21	.....	70.84	Apr. 30, 1940	4:25 p.m.	75.83

97. J. A. Papan. SW cor. sec. 20, T. 1 N., R. 6 W. Measuring point, outer raised rim of pump base, 222.67 feet above sea level.

Water level, in feet below measuring point, 1928-40

Aug. 18, 1928	.....	d62.25	Feb. 22, 1932	1:25 p.m.	e56.00
Sept.18	4:05 p.m.	57.40	Sept. 7	2:10 p.m.	f61.37
Nov. 9	3:15 p.m.	55.07	Oct. 20	10:10 a.m.	58.79
Feb. 14, 1929	2:20 p.m.	53.81	20, 1933	10:45 a.m.	g58.52
May 15	3:15 p.m.	53.16	Mar. 12, 1934	10:10 a.m.	57.03
July 9	10:30 a.m.	56.64	Aug. 25	9:10 a.m.	63.07
31	10:50 a.m.	59.84	Oct. 19	11:00 a.m.	58.85
Sept.12	4:00 p.m.	59.02	Nov. 10	4:15 p.m.	58.58
18	10:40 a.m.	59.09	Feb. 21, 1935	10:40 a.m.	57.75
Apr. 26, 1930	2:45 p.m.	53.98	Mar. 13	11:15 a.m.	56.57
Aug. 15	8:45 a.m.	59.70	Apr. 20, 1936	.....	58.02
Sept.18	4:30 p.m.	57.26	Sept. 9	.....	63.97
Oct. 22	4:00 p.m.	56.35	Apr. 27, 1937	2:45 p.m.	59.03
Apr. 25, 1931	11:30 a.m.	54.70	27, 1938	2:55 p.m.	60.10
Sept. 7	1:30 p.m.	58.85	26, 1939	2:35 p.m.	60.60
Oct. 22	8:30 a.m.	57.22	May 1, 1940	5:10 p.m.	60.93

110. F. W. Sickel. NW¼NE¼ sec. 15, T. 1 N., R. 5 W. Measuring point, outer raised rim of pump base, 0.1 foot above top of pit, 0.3 foot above land surface and 222.6 feet above sea level.

Water level, in feet below measuring point, 1928-40

Aug. 24, 1928	4:30 p.m.	86.87	Feb. 23, 1934	3:10 p.m.	73.78
Nov. 13	12:45 p.m.	71.35	Sept.22	2:50 p.m.	82.18
May 17, 1929	4:40 p.m.	65.67	Oct. 1	9:10 a.m.	80.85
Sept.12	10:55 a.m.	90.33	22	9:40 a.m.	78.30
27	2:20 p.m.	82.10	Nov. 12	10:40 a.m.	77.50
Nov. 13	2:30 p.m.	74.50	28	2:45 p.m.	76.47
Apr. 23, 1930	10:30 a.m.	68.75	Dec. 4	2:00 p.m.	j74.38
Sept.29	9:15 a.m.	81.44	22	10:45 a.m.	j76.90
Nov. 19	10:15 a.m.	75.54	Feb. 20, 1935	3:00 p.m.	74.42
Apr. 22, 1931	9:15 a.m.	71.28	Apr. 13	9:30 a.m.	73.19
25	9:20 a.m.	70.86	23	9:20 a.m.	72.75
Aug. 28	9:05 a.m.	h87.88	18, 1936	.....	79.21
Sept.29	9:15 a.m.	79.47	28, 1937	5:20 p.m.	75.05
Feb. 22, 1932	10:00 a.m.	70.13	29, 1938	5:05 p.m.	k76.26
Apr. 22	9:00 a.m.	67.75	Sept. 9	4:55 p.m.	92.10
Sept.29	2:20 p.m.	78.58	Apr. 28, 1939	3:45 p.m.	77.26
Feb. 21, 1933	9:30 a.m.	i72.65	Sept. 8	5:30 p.m.	94.47
Oct. 12	2:30 p.m.	76.95	May 2, 1940	1:05 p.m.	78.33

a Measuring point 0.3 foot higher.
b Measuring point, bottom of hole on west side, 1.20 feet above land surface and 1.10 feet higher than old measuring point.
c Well equipped with new electric pump. Measuring point, hole inside base, about .6 foot above land surface; cannot compare accurately with old measurements.
d Pump shut down Aug. 17.
e Approximate measurement since surface water apparently was dripping into well.
f Well nearby pumping. g Well not pumped in 1933
h Pump shut down Aug. 25.
i Measured from top of casing, 0.25 foot below measuring point; pump removed for new setting.
j Surface water dripping into well
k Measuring point about 223 feet above sea level.

LOUISIANA

By J. C. Maher and T. B. Stanley, Jr.

Periodic measurements of water level and artesian pressure in observation wells in Louisiana were continued in 1940 as a part of the cooperative ground-water investigations by the Federal Geological Survey and the Louisiana State Department of Conservation. At the end of the year observations were being made on 117 wells in 18 parishes (see fig. 2). At the beginning of the year 116 wells in 10 parishes were under observation. The 18 parishes include Acadia, Allen, Avoyelles, Bienville, Calcasieu, East Baton Rouge, East Carroll, East Feliciana, Evangeline, Grant, Jefferson Davis, LaSalle, Livingston, Morehouse, Rapides, Tangipahoa, St. Tammany, and Washington. Measurements were made weekly in 4 wells in Alexandria (Rapides Parish) and in 2 wells in Baton Rouge (East Baton Rouge Parish); biweekly in 13 wells in Grant, LaSalle, and Rapides Parishes; and monthly in 21 wells in Acadia, Allen, Evangeline, and Jefferson Davis Parishes. Water-stage recorders were operated on 4 wells in East Baton Rouge Parish, on 4 wells in Rapides Parish, on 2 wells in Allen Parish, and on 1 well in each of Acadia, Calcasieu, and Morehouse Parishes. Other observation wells were measured at irregular intervals. Approximately 1,325 individual measurements of water level were made in the observation wells in 1940. Most of the measurements were made by employees of the Federal Geological Survey, but some were supplied by E. J. Cheney, Superintendent of the Lake Providence water works. The records from a water-stage recorder operated on well Al-29, at Elizabeth, were obtained through the cooperation of W. E. Emigh of the Calcasieu Sulphate Paper Company.

In January 1940 Geological Bulletin 17 of the Louisiana State Department of Conservation, entitled "Ground-water resources of Rapides Parish, Louisiana" was published. This was followed by a geological pamphlet[1] on

1/ Maher, J. C., Preliminary report on ground-water conditions at Alexandria, Louisiana: La. Dept. Cons. Geol. Pamph. 2, 1940.

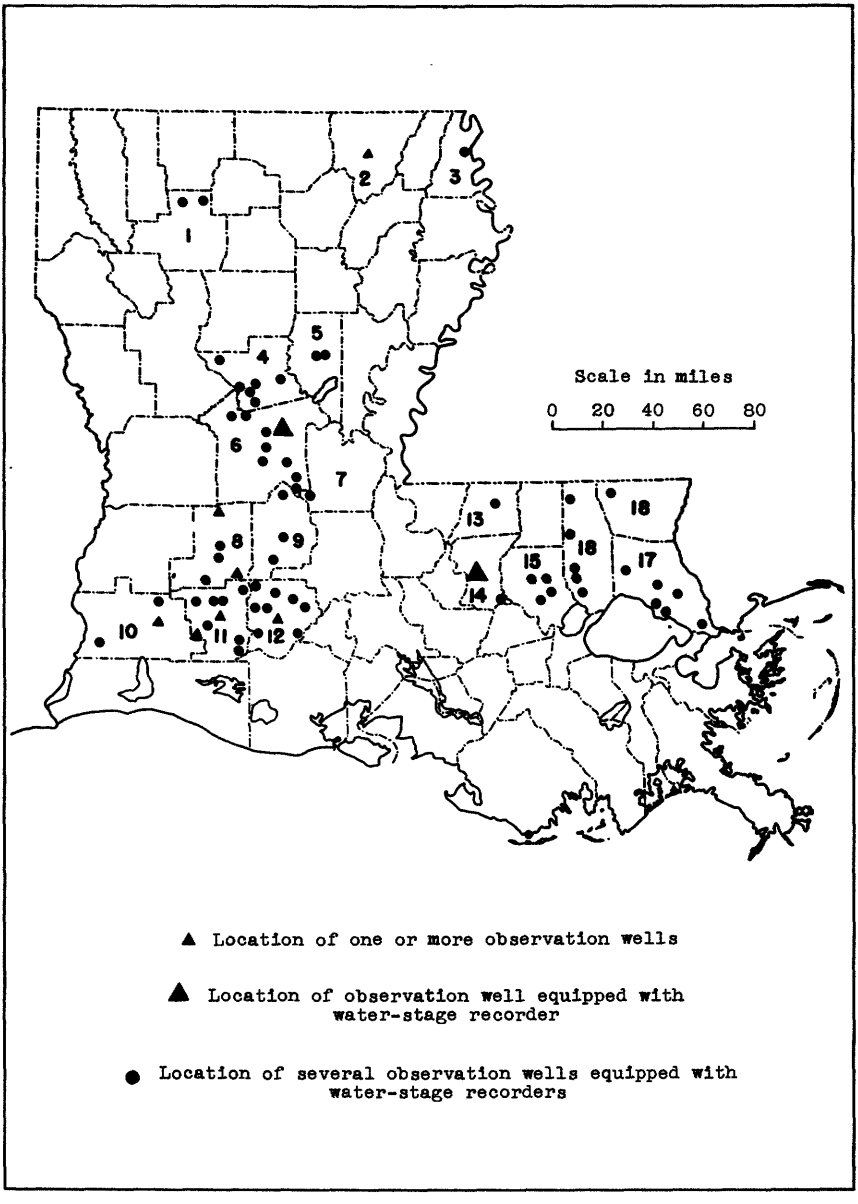

Figure 2.--Map of Louisiana showing location of observation wells.

ground-water conditions at Alexandria, and two articles[2/] in the Louisiana Conservation Review. A report on the ground-water resources of Grant and LaSalle Parishes was sent to press in December to be published as a geological bulletin of the Louisiana Department of Conservation. In September detailed field investigations were completed in Jefferson Davis and Acadia Parishes, which comprise the principal rice-irrigation area of the State, and a report on this area is now in preparation. A study of the potential ground-water supply in the industrial area of Baton Rouge, where increasingly heavy pumpage has created a serious problem, was begun in 1940 and will be continued in 1941.

NORTHERN LOUISIANA

Four observation wells were established in northern Louisiana in 1940--at Lake Providence (East Carroll Parish), Bastrop (Morehouse Parish), Gibsland (Bienville Parish), and Arcadia (Bienville Parish). The wells tap artesian water in sands of the Eocene series at depths from 470 to 655 feet. An automatic water-stage recorder was installed on the well at Bastrop, where heavy pumpage for paper mills is reported to have caused the water levels to decline considerably.

CENTRAL LOUISIANA

Observations were continued in 1940 on 49 wells in Rapides, Grant, LaSalle, and Avoyelles Parishes. A total of 553 measurements of water levels were made in 35 wells in Rapides Parish; 172 measurements were made in 10 wells in Grant Parish; 78 measurements were made in 3 wells in LaSalle Parish, and 1 measurement was made in 1 well in Avoyelles Parish.

The water levels in wells in Grant, LaSalle, and Avoyelles Parishes during 1940 were at stages comparable with those recorded in 1939. The consumption of ground water in these parishes is very small compared to that in Rapides Parish.

2/ Maher, J. C., and Stanley, T. B., Progress of ground-water investigations in Louisiana: La. Cons. Rev., winter issue, 1939-40. Maher, J. C., Ground water in Grant and LaSalle Parishes, Louisiana: La. Cons. Rev., spring issue, 1940.

The water levels in wells in or near Alexandria, in Rapides Parish, continued to show considerable fluctuation due to pumpage for municipal and industrial purposes. The water levels of the principal water-bearing sand, the "1,000-foot sand", were in general lower in 1940 than in 1939. The average of the weekly water levels in well 26, near the Monroe Street pumping station, was 98.20 feet below the measuring point in 1940 as compared to 96.95 feet in 1939. The water level in this well, however, rose in November to 91.76 feet below the measuring point, which is only 2.96 feet lower than the highest stage recorded since observations were begun in 1938 (See fig. 3, well 26). This rise was probably caused by the cessation of pumping from well 1, which is situated near well 26, and can not therefore be regarded as indicating improved ground-water conditions in the area. The water levels in wells tapping the "1,000-foot sand" at the City Park pumping station continued to decline in 1940 with only minor interruptions (See fig. 3, well 35). The average of the weekly water levels in well 35, near the City Park pumping station, was 108.43 feet below the measuring point in 1940 as compared to 99.57 feet in 1939. The continued decline of the water level in this well illustrates the serious problem of ground-water supply in the area.

SOUTHEASTERN LOUISIANA

Water-level measurements in wells in Tangipahoa and St. Tammany Parishes were made in 1940 during the strawberry irrigation season. More water than usual was required in May because of a rather prolonged period of dry weather. As a result of the combination of increased draft for irrigation and dry weather the water levels in 1940 were 1 to 2.5 feet lower than in 1939.

Observations were extended into four nearby parishes. Ten observation wells were located in East Baton Rouge Parish, four in Livingston Parish, one in East Feliciana Parish, and one in Washington Parish. Four water-stage recorders were installed on wells in the industrial area north of Baton Rouge. The water in the parishes is derived from thick Pleistocene sands and gravels at depths ranging from 300 to 2,100 feet. The water is under artesian pressure and most wells flow at the surface. The shut-in water pressures range from a fraction of a pound to about 60 pounds to the square inch.

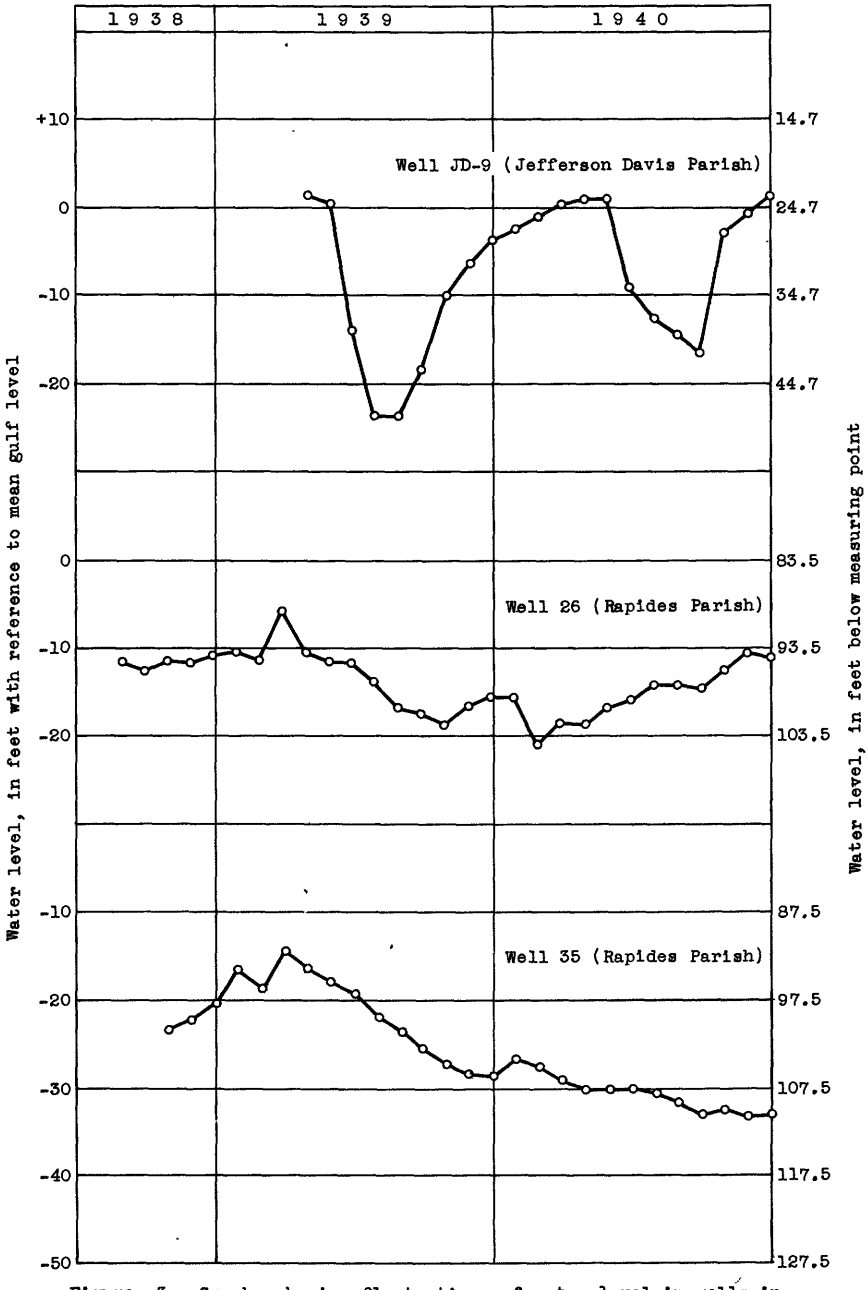

Figure 3.--Graphs showing fluctuations of water level in wells in Louisiana.

Perhaps the most concentrated withdrawal of ground water in the State is made north of Baton Rouge in East Baton Rouge Parish where estimates indicate that during the summer the pumpage, which is chiefly for cooling purposes, amounts to approximately 50 million gallons of water a day. The withdrawal of large quantities of water from the "400-foot sand" and the "700-foot sand" in this area has resulted in the decline of the non-pumping water level from 44 feet below the surface, as reported in 1914, to over 170 feet in 1940.

The non-pumping water levels of sands penetrated at depths of 1,100 feet to 2,100 feet in the area at Baton Rouge, shown by well EB-82 at the Gulf States Utilities power plant, have recently begun to decline. The water level of well EB-82 declined from 35.7 feet above the measuring point on March 12, 1940, to 14.9 feet above the measuring point on November 23, 1940. The decline is chiefly a result of the increase in withdrawals from the sands caused by the drilling of new deep wells. The water is too warm to be used for cooling purposes.

SOUTHWESTERN LOUISIANA

Monthly water-level measurements were made in 1940 in seven wells in Jefferson Davis Parish, eight wells in Acadia Parish, three wells in Allen Parish, and three wells in Evangeline Parish. Automatic water-stage recorders were operated on four wells. Observations are not usually made on the wells during the summer months because during these months most of the wells are pumped for rice irrigation. Four new observation wells were established in Calcasieu Parish, one of which, situated near Lake Charles, was equipped with a water-stage recorder. A total of 388 individual measurements of water level were made in the observation wells in southwestern Louisiana in 1940.

The major fluctuations of water level in wells in the rice area are caused by pumping for the irrigation of rice. The fluctuations are characterized by steep declines during the summer months when the pumpage is heavy and gentle rises during the fall, winter and spring months when the pumpage is light. The water levels in all the wells equipped with water-level recorders fluctuate in response to changes in atmospheric pressure. Graphs produced by water-stage recorders on two of the wells

showed fluctuations of water level on May 18 that correspond with the time of the earthquake in Imperial Valley, California. The maximum fluctuation recorded was 0.19 foot.

Increased precipitation during the growing season of 1940 provided a supply of water for the rice fields that was greater than usual. As a result the pumpage from wells was reduced and the lowest water levels recorded for the year were on the average about 9 feet above the lowest levels of 1939. At the close of 1940, the water levels were still approximately 3.5 feet above the levels at the close of 1939. The fluctuations of water level in the rice area are illustrated by a comparison of average monthly water levels in well JD-23 given in the following table.

Average monthly water levels, in feet below measuring point, in well JD-23 in 1939 and 1940

Month	Water level 1939	Water level 1940	Net change in water level	Month	Water level 1939	Water level 1940	Net change in water level
Jan.	22.78	24.36	-1.58	July	34.16	26.42	+7.74
Feb.	21.76	23.35	-1.59	Aug.	33.38	26.48	+6.90
Mar.	20.97	22.33	-1.36	Sept.	32.53	27.43	+5.10
Apr.	20.96	21.61	-0.65	Oct.	29.14	25.41	+3.73
May	23.95	21.73	+2.22	Nov.	27.40	23.73	+3.67
June	30.61	25.58	+5.03	Dec.	25.70	22.16	+3.67
				Annual average	26.84	24.22	+2.62

Acadia Parish

Ac-5. Mrs. W. S. Bruner. NW¼ sec. 15, T. 8 S., R. 2 E. Water level, in feet below measuring point, 1940: Apr. 4, 1:10 p.m., 46.36; Sept. 23, 42.27; Oct. 4, 2:00 p.m., 50.95; Nov. 1, 3:35 p.m., 49.84.

Ac-7. Lozen Leger. NE¼ sec. 9, T. 10 S., R. 2 E.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 3	2:00 p.m.	30.09	Sept. 23	.....	34.90
Aug. 23	9:35 a.m.	37.50	Oct. 4	1:30 p.m.	33.67
30	2:45 p.m.	42.73	Nov. 1	3:00 p.m.	32.22

Ac-19. Measurements discontinued.

Ac-22. Harry Frey. Sec. 19, T. 7 S., R. 1 E.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 6	11:45 a.m.	42.80	Oct. 4	2:35 p.m.	49.45
Aug. 30	4:00 p.m.	55.95	Nov. 1	4:25 p.m.	46.46
Sept.24	.....	51.52	Dec. 6	3:35 p.m.	42.86

Acadia Parish--Continued.

Ac-32. Measurements discontinued.

Ac-34. Dr. F. N. Hayes, SW¼ sec. 10, T. 7 S., R. 2 W.
Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 8	2:45 p.m.	45.25	Sept.27	6:00 p.m.	51.65
Aug. 23	11:55 a.m.	51.05	Oct. 25	5:40 p.m.	49.07
30	5:25 p.m.	55.15	Nov. 26	4:55 p.m.	46.88
Sept.24	.....	52.39			

Ac-35. Onezime Doucet. NW¼ sec. 22, T. 8 S., R. 2 W.
Water level, in feet below measuring point, 1940

Apr. 8	3:20 p.m.	38.06	Oct. 25	5:10 p.m.	42.23
Sept.24	.....	45.51	Nov. 26	4:30 p.m.	39.77
27	5:30 p.m.	44.86			

Ac-40. H. A. Kerr. NE¼ sec. 1, T. 9 S., R. 1 W. Equipped with water-stage recorder.
Water level, in feet below measuring point, 1940

Jan. 5	9:00 a.m.	31.78	July 5	9:00 a.m.	37.42
12	9:10 a.m.	31.44	12	1:15 p.m.	36.27
19	10:00 a.m.	31.31	19	8:25 a.m.	35.36
26	9:00 a.m.	31.06	26	8:10 a.m.	38.47
Feb. 2	9:30 a.m.	30.86	Aug. 2	7:50 a.m.	38.98
9	9:00 a.m.	30.41	16	10:25 a.m.	34.70
16	8:50 a.m.	30.26	23	11:00 a.m.	39.90
23	9:35 a.m.	30.06	30	4:30 p.m.	42.84
Mar. 1	9:00 a.m.	29.79	Sept. 6	11:45 a.m.	43.35
8	9:05 a.m.	29.66	13	11:00 a.m.	42.19
15	9:00 a.m.	29.48	20	9:05 a.m.	40.66
22	10:00 a.m.	29.32	27	4:40 p.m.	36.36
29	9:00 a.m.	29.13	Oct. 4	3:05 p.m.	35.10
Apr. 5	9:15 a.m.	28.94	11	10:50 a.m.	34.21
12	8:40 a.m.	28.85	18	1:10 p.m.	33.54
19	9:30 a.m.	28.65	25	4:25 p.m.	33.02
26	9:10 a.m.	29.25	Nov. 1	4:25 p.m.	32.42
May 3	9:45 a.m.	29.78	8	10:25 a.m.	31.95
10	9:20 a.m.	34.65	15	12:45 p.m.	32.20
17	9:00 a.m.	40.64	21	10:30 a.m.	30.95
24	9:05 a.m.	45.61	28	3:25 p.m.	30.54
31	9:00 a.m.	46.39	Dec. 5	4:03 p.m.	30.19
June 7	8:20 a.m.	47.62	12	12:10 p.m.	29.77
15	7:30 a.m.	42.25	19	2:30 p.m.	29.34
21	9:00 a.m.	41.62	26	4:00 p.m.	28.83
28	9:00 a.m.	39.24			

Ac-56. Henry Bieber. NW¼ sec. 36, T. 7 S., R. 1 E.
Water level, in feet below measuring point, 1940

Apr. 6	10:50 a.m.	48.30	Nov. 1	4:10 p.m.	51.73
Aug. 23	10:20 a.m.	56.98	Dec. 6	3:15 p.m.	49.52
30	3:35 p.m.	63.36			

Ac-104. Measurements discontinued.

Ac-139. Measurements discontinued.

Ac-145. Measurements discontinued.

Ac-147. Measurements discontinued.

Ac-152. Measurements discontinued.

Acadia Parish--Continued.

Ac-175. Leon Lapleau. North line sec. 46, T. 10 S., R. 2 W. Drilled irrigation well, diameter 12 inches, depth 320 feet. Measuring point, bottom edge of inclined discharge pipe. Tape distance along discharge pipe from measuring point to level of bench mark, 12.25 feet. Bench mark on pump base, level with land surface, 10.02 feet above mean sea level.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 3	4:30 p.m.	20.79	Oct. 25	3:45 p.m.	24.14
Aug. 30	2:10 p.m.	25.33	Nov. 26	3:25 p.m.	22.09
Sept.23	.....	26.29	Dec. 26	3:30 p.m.	20.64
27	4:00 p.m.	25.71			

Ac-179. Dr. F. N. Hayes. NW¼ sec. 34, T. 8 S., R. 1 W.

Water level, in feet below measuring point, 1940

Apr. 8	11.15 a.m.	38.03	Oct. 25	4:45 p.m.	42.20
Sept.24	.....	46.24	Nov. 26	4:07 p.m.	39.77
27	5:00 p.m.	45.45			

Allen Parish

Al-1. R. R. McClelland. SE¼ sec. 35, T. 6 S., R. 3 W. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Jan. 5	10:00 a.m.	48.90	June 21	10:00 a.m.	48.20
12	10:22 a.m.	48.38	28	10:10 a.m.	38.37
19	11:30 a.m.	48.87	July 5	10:00 a.m.	45.64
26	10:00 a.m.	48.63	19	9:25 a.m.	43.74
Feb. 2	11:00 a.m.	48.44	26	9:25 a.m.	48.05
9	10:20 a.m.	46.74	Aug. 16	9:30 a.m.	40.09
16	10:00 a.m.	48.06	23	12:20 p.m.	49.24
23	11:10 a.m.	48.16	30	5:50 p.m.	49.46
Mar. 1	10:00 a.m.	47.82	Sept. 6	10:45 a.m.	48.70
8	10:10 a.m.	47.76	13	9:45 a.m.	40.82
15	10:00 a.m.	47.97	20	10:35 a.m.	48.78
22	11:00 a.m.	47.56	27	10:45 a.m.	48.56
29	10:00 a.m.	47.03	Oct. 4	4:10 p.m.	48.58
Aug. 5	10:30 a.m.	47.41	11	3:30 p.m.	48.49
12	9:45 a.m.	46.34	18	12:00 noon	48.44
19	10:45 a.m.	46.77	25	10:20 a.m.	48.21
26	10:25 a.m.	47.08	Nov. 1	11:05 a.m.	47.91
May 3	10:15 a.m.	46.82	8	3:25 p.m.	48.06
10	10:20 a.m.	46.70	15	11:30 a.m.	47.75
17	10:15 a.m.	46.99	21	2:30 p.m.	46.14
24	10:20 a.m.	47.12	28	10:10 a.m.	32.23
31	10:00 a.m.	48.56	Dec. 5	9:05 a.m.	39.32
June 7	9:35 a.m.	49.13	12	10:45 a.m.	43.16
15	9:00 a.m.	47.40	19	10:10 a.m.	45.73

Al-7. M. Carroll. NW¼ sec. 36, T. 4 S., R. 4 W. Drilled irrigation well. Measuring point, bottom edge of inclined discharge pipe. Tape distance along discharge pipe from measuring point to land surface, 3.6 feet. Water levels, in feet below measuring point, 1940: Jan. 15, 50.96; Sept. 27, 9:05 a.m., 51.24; Oct. 25, 8:35 a.m., 50.83; Nov. 26, 8:37 a.m., 50.89.

Allen Parish--Continued.

Al-16. Sam Fisher. SE¼ sec. 22, T. 5 S., R. 4 W. Drilled irrigation well. Measuring point, bottom edge of inclined discharge pipe. Tape distance along discharge pipe from measuring point to land surface, 5.6 feet.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 16	.....	44.00	Oct. 25	9:05 a.m.	43.69
Aug. 30	9:10 a.m.	44.61	Nov. 26	9:10 a.m.	43.78
Sept.27	9:30 a.m.	44.12			

Al-17. Town of Kinder. Near south wall of water works building. Abandoned, drilled public supply well. Measuring point, elbow in casing, 4.69 feet above land surface.

Water level, in feet below measuring point, 1940

Jan. 16	.....	38.39	Oct. 25	9:35 a.m.	38.26
Aug. 30	9:30 a.m.	37.53	Nov. 26	9:40 a.m.	37.38
Sept.27	10:00 a.m.	38.10	Dec. 26	9:15 a.m.	35.95

Al-29. Calcasieu Sulphate Paper Co. Elizabeth, east of paper mill. Abandoned drilled industrial well, depth 160 feet. Measuring point, floor of recorder house, 2.65 feet above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Feb. 20	2:40 p.m.	51.10	July 30	8:00 a.m.	51.76
27	8:15 a.m.	50.96	Aug. 6	8:00 a.m.	51.62
Mar. 5	8:30 a.m.	51.36	13	8:00 a.m.	51.54
12	8:00 a.m.	51.32	20	8:00 a.m.	51.74
19	8:00 a.m.	51.33	27	8:00 a.m.	51.62
26	8:00 a.m.	51.36	Sept. 3	8:00 a.m.	51.58
Apr. 2	8:00 a.m.	51.36	10	8:00 a.m.	51.51
9	8:00 a.m.	51.65	17	8:00 a.m.	51.62
16	8:00 a.m.	51.44	24	8:00 a.m.	51.12
23	8:00 a.m.	48.25	Oct. 1	8:00 a.m.	51.52
30	8:00 a.m.	50.52	8	8:00 a.m.	51.30
May 7	9:00 a.m.	51.25	15	8:00 a.m.	51.19
14	9:00 a.m.	51.21	22	8:00 a.m.	51.44
21	8:00 a.m.	51.44	29	8:00 a.m.	51.38
28	8:00 a.m.	51.68	Nov. 5	8:00 a.m.	51.26
June 4	8:00 a.m.	51.77	12	8:00 a.m.	51.57
11	8:00 a.m.	51.70	19	8:00 a.m.	51.58
18	8:00 a.m.	51.77	26	8:00 a.m.	51.48
25	9:00 a.m.	51.76	Dec. 3	8:00 a.m.	51.69
July 2	8:00 a.m.	51.44	10	8:00 a.m.	51.48
9	8:00 a.m.	51.58	17	8:00 a.m.	51.69
16	8:00 a.m.	51.53	24	5:30 p.m.	49.29
23	8:00 a.m.	51.70	31	8:00 a.m.	50.53

Avoyelles Parish

Av-7. Measurements discontinued. Well pulled.

Av-18. Haas Investment Company. Shirley Plantation, on parish line, sec. 28, T. 1 S., R. 2 E. Water level, in feet below measuring point, 1940: Mar. 27, 12.75.

Bienville Parish

Bi-2. Town of Gibsland. Gibsland, behind water plant. Abandoned drilled municipal well, diameter 8 inches, depth 500 (?) feet. Measuring point, top of 8-inch casing, 3.5 feet above land surface. Water levels, in feet below measuring point, 1940: Aug. 16, 49.25; Oct. 8, 51.75.

Bi-4. Community Public Service. Arcadia, 50 feet south of water plant. Drilled public supply well, diameter 6 inches, depth 585 feet. Measuring point, 1-inch hole in 6-inch pipe, 4.5 feet above land surface. Water level, in feet below measuring point, 1940: Oct. 9, 154.05.

Calcasieu Parish

Cu-2. Town of Vinton. At ice plant, westernmost of three air-lift wells. Drilled public supply well, depth 422 feet. Measuring point, top of casing, 3.0 feet above land surface. Water levels, in feet below measuring point, 1940: June 20, 2.30; July 18, 10:20 a.m., 2.68.

Cu-4. Krause & Managan Lumber Co., Ltd. Town of Westlake on lake front approximately south-southeast of municipal water tower. Drilled industrial well, diameter 6 inches. Measuring point, top of 6-inch casing, 0.9 foot above land surface. Water level, in feet below measuring point, 1940: July 20, 6.35.

Cu-5. Jim Turner. SE¼ sec. 8, T. 8 S., R. 8 W. Drilled industrial well, diameter 6 inches, depth 430 feet. Measuring point, top of 6-inch casing, 1.7 feet above land surface. Water level, in feet below measuring point, 1940: Aug. 6, 9.96.

Cu-8. Krause & Managan Lumber Co., Ltd. SE¼ sec. 15, T. 9 S., R. 9 W. Drilled industrial well, depth 500 feet. Measuring point, top of casing, 1.2 feet above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Aug. 26	11:25 a.m.	6.98	Nov. 1	12:35 p.m.	5.96
30	11:30 a.m.	6.56	8	1:40 p.m.	5.80
Sept. 6	2:45 p.m.	6.74	15	3:25 p.m.	5.44
13	1:50 p.m.	6.64	21	12:45 p.m.	5.20
20	1:00 p.m.	6.66	28	12:15 p.m.	4.79
27	12:55 p.m.	6.43	Dec. 5	10:50 a.m.	4.90
Oct. 4	10:20 a.m.	6.57	12	3:05 p.m.	4.90
11	1:20 p.m.	6.55	19	11:30 a.m.	4.53
18	3:45 p.m.	6.27	26	12:45 p.m.	4.20
25	12:45 p.m.	6.25			

East Baton Rouge Parish

EB-15. Standard Oil Company of Louisiana. Baton Rouge refinery, southeast of tank 67. Abandoned drilled industrial well, diameter 12 inches, depth 686 feet. Measuring point, top concrete base, 1.4 feet above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

July 20	12:05 p.m.	163.24	Oct. 25	10:00 a.m.	156.29
22	1:40 p.m.	162.05	Nov. 1	9:53 a.m.	155.14
Aug. 23	3:30 p.m.	174.53	8	9:35 a.m.	153.89
30	10:30 a.m.	173.84	15	9:25 a.m.	152.07
Sept. 6	3:00 p.m.	174.16	22	10:00 a.m.	148.38
13	9:45 a.m.	172.94	29	9:30 a.m.	149.96
20	2:20 p.m.	172.02	Dec. 6	9:30 a.m.	148.26
27	10:20 a.m.	172.47	12	9:55 a.m.	145.55
Oct. 4	10:05 a.m.	167.08	20	9:23 a.m.	148.04
11	9:45 a.m.	159.98	27	9:50 a.m.	143.33
18	10:35 a.m.	157.82			

East Baton Rouge Parish--Continued.

EB-22. Standard Oil Company of Louisiana. Baton Rouge refinery, southwest of tank 784. Abandoned drilled industrial well, diameter 12 inches, depth 701 feet. Measuring point, top of 12-inch casing, 0.5 foot above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Sept. 11	10:00 a.m.	178.43	Nov. 8	9:15 a.m.	153.08
13	10:30 a.m.	176.69	15	9:04 a.m.	151.50
20	2:00 p.m.	177.40	22	9:40 a.m.	144.86
27	10:00 a.m.	177.55	29	9:05 a.m.	150.06
Oct. 4	9:30 a.m.	168.42	Dec. 6	9:00 a.m.	148.12
11	9:05 a.m.	162.22	13	9:30 a.m.	150.63
18	10:10 a.m.	158.22	20	9:00 a.m.	145.94
25	9:25 a.m.	156.26	27	9:25 a.m.	140.59
Nov. 1	9:20 a.m.	154.44			

EB-39. Standard Oil Company of Louisiana. Baton Rouge refinery, southeast corner along Bayou Sara road. Abandoned drilled industrial well, diameter 8 inches, depth 1,575 feet, screens at 1,150 and 1,575 feet. Measuring point, gage on 3/4-inch elbow, 0.5 foot above land surface. Water level, in feet above measuring point, 1940: Aug. 30, 2:30 p.m., 12.0.

EB-45. Standard Oil Company of Louisiana. Baton Rouge refinery, east well on dock approach. Abandoned drilled industrial well, diameter 10 inches, depth 665 feet. Measuring point, top of 10-inch casing, about 15 feet above stream bed.

Water level, in feet below measuring point, 1940

Oct. 4	1:30 p.m.	148.12	Nov. 29	10:05 a.m.	130.58
25	10:35 a.m.	137.15	Dec. 6	10:30 a.m.	130.20
Nov. 1	11:40 a.m.	135.78	13	10:35 a.m.	126.65
8	10:35 a.m.	134.82	20	10:05 a.m.	127.08
15	11:00 a.m.	133.38	23	11:15 a.m.	122.00
22	10:30 a.m.	129.21			

EB-53. Standard Oil Company. Baton Rouge refinery, west well on dock approach. Abandoned drilled industrial well, diameter 10 inches, depth 414 feet. Measuring point, top of 10-inch casing, about 15 feet above stream bed.

Water level, in feet below measuring point, 1940

Oct. 4	1:45 p.m.	137.72	Nov. 22	10:40 a.m.	119.91
18	10:50 a.m.	125.25	29	10:15 a.m.	119.52
25	10:35 a.m.	125.20	Dec. 6	10:40 a.m.	118.07
Nov. 1	11:55 a.m.	123.77	20	10:20 a.m.	117.93
8	10:40 a.m.	122.99	27	11:30 a.m.	114.58
15	10:50 a.m.	121.23			

EB-74. Solvay Process Company. Baton Rouge, at gate of plant. Abandoned drilled industrial well, diameter 12 inches, depth 440 feet. Measuring point, top of 12-inch casing, 0.5 foot above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Sept. 10	3:00 p.m.	162.86	Nov. 1	8:50 a.m.	152.96
13	11:20 a.m.	163.15	8	8:50 a.m.	151.35
20	1:20 p.m.	163.26	15	8:35 a.m.	149.49
27	9:55 a.m.	163.58	22	9:15 a.m.	147.72
Oct. 4	9:00 a.m.	163.72	29	8:37 a.m.	146.65
11	8:40 a.m.	161.23	Dec. 6	8:40 a.m.	146.86
18	9:40 a.m.	157.88	20	8:30 a.m.	144.32
25	8:45 a.m.	155.37	27	8:55 a.m.	142.08

East Baton Rouge Parish--Continued.

EB-82. Gulf States Utilities. Baton Rouge, power plant. Drilled industrial well, diameter 8 inches, depth 2,056 feet. Measuring point, ¼-inch gage hole, 4 feet above land surface. Water levels, in feet above measuring point, 1940: Mar. 12, 35.7; Sept. 5, 16.5; Nov. 23, 14.9.

EB-125. Peoples Ice and Fuel Company. Baton Rouge, 1031 Railroad Avenue, at side door. Abandoned drilled industrial well, diameter 8 inches, depth 744 feet. Measuring point, top concrete base, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Aug. 13, 116.87; Sept. 17, 113.49; Nov. 3, 113.62.

EB-128. Ice Service, Inc. Baton Rouge, 135 South 15th Street. Abandoned drilled industrial well, diameter 8 inches, depth 412 feet. Measuring point, top of 8-inch casing, 1.0 foot above land surface. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Oct. 3	1:30 p.m.	92.50	Nov. 15	8:05 a.m.	89.10
12	10:00 a.m.	93.44	22	8:30 a.m.	88.23
18	8:45 a.m.	92.55	27	7:55 a.m.	87.27
25	8:00 a.m.	91.33	Dec. 6	8:04 a.m.	86.49
Nov. 1	8:00 a.m.	90.43	20	7:40 a.m.	84.81
8	8:05 a.m.	89.89	27	11:30 a.m.	84.13

EB-175. Santa Maria Dairy. Sec. 54, T. 8 S., R. 2 E., Kleinpeter. Abandoned drilled domestic well, diameter 2 inches, depth 675 feet. Measuring point, top of 2-inch casing, 0.4 foot above land surface. Water level, in feet below measuring point, 1940: July 10, 15.24.

East Carroll Parish

Ec-3. Town of Lake Providence. Lake Providence, at rear of water plant. Abandoned drilled public supply well, diameter 8 inches, depth 470 feet. Measuring point, top of air line, 4.1 feet above land surface. Water levels, in feet below measuring point, 1940: Oct. 18, 66.01; Oct. 25, 67.50; Nov. 8, 65.30; Nov. 28, 52.90.

East Feliciana Parish

Ef-1. Town of Clinton. Clinton, below water tank, southwest of concrete reservoir. Drilled municipal well, diameter 8 inches, depth 160 feet. Measuring point, ½-inch hole in discharge pipe, 2.8 feet above land surface. Water level, in feet below measuring point, 1940: June 10, 11.12.

Evangeline Parish

Ev-1. John LaHaye. SW¼ sec. 20, T. 4 S., R. 1 E. Water levels, in feet below measuring point, 1940: Sept. 25, 45.18; Nov. 8, 53.39; Dec. 6, 4:45 p.m., 52.12.

Ev-2. Dorestant Ardoin. North line sec. 37, T. 6 S., R. 1 W. Water levels, in feet below measuring point, 1940: Sept. 25, 56.58; Nov. 8, 8:55 a.m., 44.51; Dec. 6, 5:05 p.m., 44.03.

Evangeline Parish--Continued.

Ev-4. Rock Island Ry. SW¼ sec. 31, T. 1 S., R. 1 E. Drilled industrial well, depth 600 feet. Measuring point, top of concrete foundation, 1.2 feet above surface.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 18	.....	37.49	Nov. 8	.....	29.75
Aug. 20	10:55 a.m.	22.15	Dec. 6	5:30 p.m.	23.88
Sept.25	.....	16.08			

Grant Parish

G-2. Carnahan, Hunthunce, and Hargiss. Sec. 5, T. 5 N., R. 3 W.

Water level, in feet below measuring point, 1940

Jan.	11	9:40 a.m.	3.82	July	9	10:55 a.m.	1.79
	25	1:45 p.m.	3.89		23	11:27 a.m.	3.95
Feb.	7	12:40 p.m.	3.86	Aug.	6	11:15 a.m.	3.74
	22	10:05 a.m.	3.51		20	9:55 a.m.	5.22
Mar.	7	10:20 a.m.	3.93	Sept.	4	10:15 a.m.	5.65
	20	10:45 a.m.	3.72		17	9:55 a.m.	6.55
Apr.	3	10:20 a.m.	4.47	Oct.	2	9:45 a.m.	6.93
	17	10:00 a.m.	1.97		16	1:35 p.m.	7.37
May	1	10:00 a.m.	2.58		30	10:05 a.m.	7.57
	15	9:55 a.m.	3.20	Nov.	13	10:00 a.m.	7.24
	28	9:40 a.m.	2.56		26	10:55 a.m.	7.29
June	12	10:00 a.m.	3.22	Dec.	10	10:45 a.m.	4.59
	25	1:35 p.m.	2.89		22	3:25 p.m.	4.31

G-9. City of Colfax. Pumping station.

Water level, in feet below measuring point, 1940

Jan.	11	10:00 a.m.	31.35	June	12	10:25 a.m.	27.74
	19	2:00 p.m.	31.53		26	9:20 a.m.	27.01
Feb.	7	1:20 p.m.	31.44	July	10	8:45 a.m.	26.08
	22	10:35 a.m.	30.76		29	10:30 a.m.	26.30
Mar.	7	10:50 a.m.	30.58	Aug.	7	9:55 a.m.	25.92
	20	11:15 a.m.	30.78		21	9:45 a.m.	26.00
Apr.	3	10:50 a.m.	31.07	Sept.	4	10:40 a.m.	26.46
	17	10:30 a.m.	29.72		17	10:25 a.m.	26.98
May	1	10:30 a.m.	29.27		17	10:30 a.m.	26.76
	15	10:40 a.m.	28.75		17	11:00 a.m.	46.14
	28	10:00 a.m.	28.34	Oct.	2	10:15 a.m.	27.50

G-11. City of Colfax. Behind pumping station.

Water level, in feet below measuring point, 1940

Jan.	11	10:10 a.m.	29.10	July	10	8:55 a.m.	23.54
	25	2:35 p.m.	31.55		24	10:40 a.m.	23.81
Feb.	7	1:30 p.m.	29.16	Aug.	7	10:05 a.m.	23.49
	22	10:25 a.m.	28.46		21	9:55 a.m.	23.67
Mar.	7	10:40 a.m.	28.30	Sept.	4	10:50 a.m.	24.13
	20	11:05 a.m.	28.53		17	10:40 a.m.	24.72
Apr.	3	11:00 a.m.	28.83	Oct.	2	10:25 a.m.	25.30
	17	10:40 a.m.	27.32		16	2:10 p.m.	28.13
May	1	10:40 a.m.	26.73		30	10:40 a.m.	26.48
	15	10:45 a.m.	26.28	Nov.	13	10:25 a.m.	26.52
	28	10:10 a.m.	25.86		26	11:55 a.m.	27.22
June	12	10:35 a.m.	25.28	Dec.	10	11:10 a.m.	23.74
	26	9:30 a.m.	24.54		22	3:45 p.m.	24.69

G-19. W. C. Maxwell. Sec. 28, T. 7 N., R. 2 W. Water levels, in feet below measuring point, 1940: May 15, 12:25 p.m., 13.09; Nov. 26, 1:15 p.m., 15.36.

Grant Parish--Continued.

G-21. United States Department of Agriculture. Catahoula Fire Tower, Pollock.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Feb. 22	12:25 p.m.	137.55	July 29	1:00 p.m.	138.58
Mar. 7	12:30 p.m.	138.11	Aug. 7	11:55 a.m.	138.54
20	1:00 p.m.	139.11	21	12:25 p.m.	138.10
Apr. 3	12:45 p.m.	138.38	Sept. 4	12:48 p.m.	139.07
17	12:40 p.m.	138.54	Oct. 2	12:20 p.m.	137.62
May 1	1:15 p.m.	137.87	16	4:00 p.m.	138.59
15	1:10 p.m.	137.72	30	1:00 p.m.	137.54
28	12:15 p.m.	137.71	Nov. 26	1:50 p.m.	136.90
June 12	12:15 p.m.	138.18	Dec. 10	1:00 p.m.	138.50
July 10	10:40 a.m.	136.88	22	2:40 p.m.	138.07

G-27. 4-H Club Camp. SE¼SW¼SW¼ sec. 4, T. 6 N., R. 1 E., Fishville. Water level, in feet above measuring point, 1940: May 29, 10:00 a.m., 2.19.

G-30. Rock Hill School. On Highway 71. Water levels, in feet below measuring point, 1940: May 15, 10:20 a.m., 22.30; Nov. 26, 11:30 a.m., 23.54.

G-38. Grant Utilities Company. Montgomery, northwest well behind power plant.

Water level, in feet below measuring point, 1940

Jan. 11	10:40 a.m.	17.47	July 10	9:25 a.m.	17.78
19	12:30 p.m.	17.82	24	11:10 a.m.	19.83
25	3:30 p.m.	18.10	Aug. 7	10:40 a.m.	19.45
Feb. 7	2:00 p.m.	20.21	21	10:35 a.m.	19.84
22	11:05 a.m.	20.07	Sept. 4	11:18 a.m.	19.95
Mar. 7	11:15 a.m.	17.39	17	11:35 a.m.	19.98
20	11:45 a.m.	16.87	Oct. 2	10:55 a.m.	20.12
Apr. 3	11:35 a.m.	17.13	16	2:45 p.m.	20.14
17	11:10 a.m.	16.49	30	11:25 a.m.	20.05
May 1	11:20 a.m.	16.05	Nov. 13	11:00 a.m.	20.01
15	11:20 a.m.	16.01	26	12:40 p.m.	17.37
28	10:45 a.m.	17.21	Dec. 10	11:45 a.m.	16.86
June 12	11:05 a.m.	19.01	22	4:20 p.m.	18.32
26	9:55 a.m.	18.53			

G-41. Measurements discontinued.

G-44. Louisiana and Arkansas Railway Company. NW¼ sec. 8, T. 6 N., R. 1 W. Bentley, 30 feet east of railroad tracks. Plugged Nov. 16, 1940.

Water level, in feet below measuring point, 1940

Jan. 11	11:35 a.m.	38.13	May 28	11:55 a.m.	38.49
26	12:50 p.m.	38.36	June 12	12:00 noon	38.28
Feb. 7	3:05 p.m.	38.30	26	10:50 a.m.	38.39
22	12:10 p.m.	38.73	July 10	10:25 a.m.	38.29
Mar. 7	12:15 p.m.	38.33	29	12:45 p.m.	38.20
20	12:40 p.m.	38.45	Aug. 7	11:40 a.m.	38.13
Apr. 3	12:35 p.m.	38.53	21	12:05 p.m.	38.14
17	12:25 p.m.	38.37	Sept. 4	12:35 p.m.	38.07
May 1	1:00 p.m.	38.55	17	12:35 p.m.	38.07
15	12:55 p.m.	38.53	Oct. 2	12:05 p.m.	38.10

Grant Parish--Continued.

G-61. Oakgrove Church. NW¼ sec. 11, T. 6 N., R. 2 W.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 11	11:20 a.m.	39.36	July 10	11:30 a.m.	37.85
26	12:15 p.m.	39.33	24	12:30 p.m.	37.63
Feb. 7	2:50 p.m.	39.18	Aug. 7	11:25 a.m.	37.53
22	11:55 a.m.	38.88	21	11:50 a.m.	37.64
Mar. 7	12:00 noon	38.83	Sept. 4	12:20 p.m.	37.84
20	12:30 p.m.	38.89	17	12:20 p.m.	38.08
Apr. 3	12:20 p.m.	38.98	Oct. 2	11:50 a.m.	38.25
17	12:10 p.m.	38.58	16	3:30 p.m.	38.46
May 1	12:45 p.m.	37.98	30	12:30 p.m.	38.67
15	12:40 p.m.	37.80	Nov. 13	11:55 a.m.	38.52
28	11:40 a.m.	37.74	26	1:30 p.m.	38.10
June 12	11:45 a.m.	38.08	Dec. 10	12:40 p.m.	38.03
26	10:35 a.m.	37.94	22	2:10 p.m.	37.62

Jefferson Davis Parish

JD-1. Measurements discontinued.

JD-5. Measurements discontinued.

JD-6. Latrielle Estate. NW¼ sec. 22, T. 8 S., R. 4 W.

Water level, in feet below measuring point, 1940

Apr. 10	10:00 a.m.	42.48	Oct. 25	11:30 a.m.	46.20
Sept.19	.....	50.36	Nov. 26	10:59 a.m.	44.06
27	11:30 a.m.	48.79	Dec. 26	10:55 a.m.	42.13

JD-7. Measurements discontinued.

JD-8. Measurements discontinued.

JD-9. Calcasieu-Marine National Bank. NW¼ sec. 34, T. 9 S., R. 4 W. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Jan. 5	1:40 p.m.	26.70	July 5	2:10 p.m.	39.23
12	1:35 p.m.	26.35	12	11:00 a.m.	43.33
19	2:45 p.m.	26.17	19	11:00 a.m.	36.56
26	1:00 p.m.	25.89	26	12:10 p.m.	36.48
Feb. 2	3:15 p.m.	25.66	Aug. 2	10:10 a.m.	38.79
9	12:00 noon	25.17	12	8:20 a.m.	33.40
16	12:25 p.m.	24.88	16	8:00 a.m.	32.20
23	12:45 p.m.	24.69	23	4:10 p.m.	35.55
Mar. 1	1:30 p.m.	24.37	30	1:00 p.m.	41.19
8	2:00 p.m.	24.20	Sept. 6	12:45 p.m.	38.37
15	11:40 a.m.	24.06	13	12:05 p.m.	35.05
22	2:30 p.m.	23.81	20	2:15 p.m.	32.93
29	3:00 p.m.	23.55	27	2:55 p.m.	31.20
Apr. 5	2:10 p.m.	23.46	Oct. 4	12:25 p.m.	30.05
12	2:25 p.m.	23.39	11	11:45 a.m.	29.15
19	2:55 p.m.	23.31	18	2:15 p.m.	28.45
26	2:15 p.m.	24.77	25	2:25 p.m.	27.90
May 3	12:00 noon	23.70	Nov. 1	2:10 p.m.	27.22
10	2:30 p.m.	24.52	8	11:45 a.m.	26.67
17	2:10 p.m.	28.26	15	2:05 p.m.	27.98
24	12:00 noon	32.19	21	11:25 a.m.	25.56
31	3:00 p.m.	33.80	28	2:10 p.m.	25.15
June 7	12:10 p.m.	36.78	Dec. 5	1:15 p.m.	24.72
15	3:00 p.m.	33.49	12	1:15 p.m.	24.27
21	3:25 p.m.	31.16	19	1:15 p.m.	23.88
28	11:50 a.m.	34.93	26	2:15 p.m.	23.24

JD-10. Measurements discontinued.

Jefferson Davis Parish--Continued.

JD-11. Mrs. T. L. Linscomb. NE¼ sec. 28, T. 7 S., R. 3 W.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Apr. 1	8:40 a.m.	46.32	Oct. 25	11:00 a.m.	49.05
Aug. 30	6:10 p.m.	52.12	Nov. 26	10:40 a.m.	47.54
Sept.19	.....	51.77	Dec. 26	10:25 a.m.	45.79
27	11:10 a.m.	50.86			

JD-12. Measurements discontinued.

JD-13. Measurements discontinued.

JD-14. Measurements discontinued.

JD-15. Measurements discontinued.

JD-17. Measurements discontinued.

JD-18. Measurements discontinued.

JD-19. Measurements discontinued.

JD-20. Measurements discontinued.

JD-21. Measurements discontinued.

JD-23. Calcasieu-Marine National Bank. NE¼ sec. 4, T. 10 S., R. 6 W. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Jan. 5	1:10 p.m.	24.79	July 5	1:30 p.m.	26.66
12	1:00 p.m.	24.47	12	10:00 a.m.	26.40
19	2:15 p.m.	24.25	19	10:30 a.m.	26.35
26	12:30 p.m.	24.01	26	11:40 a.m.	26.26
Feb. 2	3:00 p.m.	23.80	Aug. 2	10:40 a.m.	26.36
9	11:20 a.m.	23.43	12	9:15 a.m.	26.35
16	12:00 noon	23.19	16	8:25 a.m.	26.17
23	12:15 p.m.	22.96	23	3:35 p.m.	26.00
Mar. 1	1:00 p.m.	22.70	30	11:45 a.m.	27.54
8	1:40 p.m.	22.54	Sept. 6	1:40 p.m.	28.07
15	11:10 a.m.	22.40	13	12:50 p.m.	27.80
18	2:45 p.m.	22.30	20	1:30 p.m.	27.31
22	2:00 p.m.	22.21	27	2:15 p.m.	26.52
29	2:15 p.m.	21.78	Oct. 4	11:15 a.m.	26.03
Apr. 5	1:30 p.m.	21.84	11	12:25 p.m.	25.57
12	1:30 p.m.	21.74	18	2:50 p.m.	25.19
19	2:15 p.m.	21.46	25	1:45 p.m.	24.85
26	1:40 p.m.	21.40	Nov. 1	1:35 p.m.	24.45
May 3	11:15 a.m.	21.16	8	12:50 p.m.	24.14
10	2:00 p.m.	21.09	15	2:40 p.m.	23.67
17	1:35 p.m.	21.08	21	12:00 noon	23.35
24	11:15 a.m.	21.69	28	1:20 p.m.	23.05
31	2:35 p.m.	23.63	Dec. 5	12:10 p.m.	22.73
June 7	11:35 a.m.	24.40	12	2:10 p.m.	22.35
15	2:30 p.m.	25.72	19	12:20 p.m.	22.02
21	2:50 p.m.	25.64	26	1:30 p.m.	21.53
28	11:15 a.m.	26.57			

JD-26. I. L. Hebert. NE¼ sec. 21, T. 10 S., R. 3 W.

Water level, in feet below measuring point, 1940

Apr. 2	5:45 p.m.	24.92	Oct. 25	2:50 p.m.	28.18
Aug. 30	1:20 p.m.	30.86	Nov. 26	2:30 p.m.	26.10
Sept.27	3:15 p.m.	29.12	Dec. 26	2:38 p.m.	24.52

Jefferson Davis Parish--Continued.

JD-32. Measurements discontinued.

JD-41. Measurements discontinued.

JD-42. Fritz Miller. SE¼ sec. 24, T. 8 S., R. 5 W. Drilled irrigation well. Measuring point, bottom edge of inclined discharge pipe. Tape distance along discharge pipe from measuring point to level of bench mark, 5.3 feet. Bench mark at land surface, 38.18 feet above mean sea level.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Aug. 23	1:40 p.m.	49.90	Oct. 25	11.40 a.m.	44.95
Sept.19	.....	49.37	Nov. 26	11:11 a.m.	42.90
27	11:50 a.m.	48.65	Dec. 26	11:15 a.m.	40.65

JD-43. C. Leger. NE¼ sec. 24, T. 8 S., R. 6 W.

Water level, in feet below measuring point, 1940

Apr. 1	3:35 p.m.	31.66	Oct. 25	11:50 a.m.	34.03
Sept.19	.....	34.64	Nov. 26	11:25 a.m.	32.42
27	12:00 noon	35.78	Dec. 26	11:40 a.m.	30.29

JD-50. Measurements discontinued.

JD-63. Measurements discontinued.

JD-65. Dewitt Smith. SW¼ sec. 3, T. 11 S., R. 3 W.

Water level, in feet below measuring point, 1940

Apr. 2	5:15 p.m.	17.38	Oct. 25	3:05 p.m.	19.96
Sept.20	.....	21.37	Nov. 26	2:47 p.m.	18.20
27	3:30 p.m.	20.78	Dec. 26	3:00 p.m.	17.09

JD-115. Calcasieu-Marine National Bank. NE¼ sec. 34, T. 9 S., R. 5 W.

Water level, in feet below measuring point, 1940

Apr. 1	5:30 p.m.	32.79	Oct. 25	2:10 p.m.	37.23
Aug. 30	12:20 p.m.	56.39	Nov. 26	1:57 p.m.	34.58
Sept.19	.....	43.49	Dec. 26	2:03 p.m.	32.49
27	2:45 p.m.	41.06			

LaSalle Parish

La-18. Good Pine Lumber Company. NE¼ sec. 9, T. 8 N., R. 3 E. Good Pine, under derrick on pond behind boiler room.

Water level, in feet below measuring point, 1940

Jan. 11	12:50 p.m.	34.65	July 10	12:00 noon	34.39
26	2:50 p.m.	34.78	24	2:20 p.m.	34.27
Feb. 7	4:25 p.m.	34.74	Aug. 7	1:50 p.m.	34.22
22	1:50 p.m.	34.98	21	1:55 p.m.	34.38
Mar. 7	2:00 p.m.	34.92	Sept. 4	2:05 p.m.	34.13
20	2:35 p.m.	34.60	17	2:25 p.m.	34.15
Apr. 3	2:05 p.m.	34.63	Oct. 2	2:05 p.m.	34.17
17	2:10 p.m.	34.68	16	5:20 p.m.	34.21
May 1	2:25 p.m.	34.56	30	2:25 p.m.	34.23
16	2:35 p.m.	34.61	Nov. 13	1:55 p.m.	34.28
29	11:10 a.m.	34.45	26	3:05 p.m.	34.32
June 12	1:25 p.m.	34.43	Dec. 18	2:25 p.m.	34.19
26	12:15 p.m.	34.25	22	3:55 p.m.	33.91

LaSalle Parish--Continued.

La-41. Louisiana Delta Hardwood Lumber Company. NE¼ sec. 8, T. 8 N., R. 3 E. Trout, at west road entrance to mill.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 11	12:20 p.m.	29.37	July 10	11:30 a.m.	29.37
26	2:10 p.m.	29.66	24	1:50 p.m.	29.10
Feb. 7	3:50 p.m.	29.70	Aug. 7	1:20 p.m.	29.09
22	1:15 p.m.	29.73	21	1:20 p.m.	29.23
Mar. 7	1:25 p.m.	29.78	Sept. 4	1:30 p.m.	29.41
20	2:00 p.m.	29.37	17	1:55 p.m.	29.77
Apr. 3	1:30 p.m.	26.38	Oct. 2	1:30 p.m.	29.72
17	1:35 p.m.	26.09	16	4:45 p.m.	29.93
May 1	1:55 p.m.	29.58	30	1:55 p.m.	29.83
16	2:05 p.m.	29.62	Nov. 13	1:15 p.m.	29.98
29	10:40 a.m.	29.57	26	2:35 p.m.	30.06
June 12	12:50 p.m.	29.55	Dec. 10	1:55 p.m.	29.79
26	11:40 a.m.	29.37	22	3:20 p.m.	29.28

La-42. Louisiana Delta Hardwood Lumber Company. NE¼ sec. 8, T. 8 N., R. 3 E., Trout, under derrick at lumber shed.

Water level, in feet below measuring point, 1940

Jan. 11	12:30 p.m.	33.86	July 10	11:40 a.m.	34.08
26	2:20 p.m.	34.93	24	2:00 p.m.	33.90
Feb. 7	4:00 p.m.	34.49	Aug. 7	1:30 p.m.	33.94
22	1:25 p.m.	34.37	21	1:30 p.m.	34.09
Mar. 7	1:35 p.m.	34.29	Sept. 4	1:40 p.m.	34.27
20	2:10 p.m.	34.05	17	2:05 p.m.	34.51
Apr. 3	1:40 p.m.	31.38	Oct. 2	1:40 p.m.	34.45
17	1:45 p.m.	31.17	16	4:45 p.m.	34.82
May 1	2:05 p.m.	34.15	30	2:05 p.m.	34.69
16	2:35 p.m.	34.21	Nov. 13	1:25 p.m.	34.82
29	10:50 a.m.	34.20	26	2:45 p.m.	34.87
June 12	1:00 p.m.	34.24	Dec. 10	2:05 p.m.	34.67
26	11:50 a.m.	34.02	22	3:30 p.m.	34.08

Livingston Parish

Li-4. Garyville Lumber Company. Livingston, northeast well at abandoned shop site. Abandoned jetted industrial well, diameter 3 inches. Measuring point, top of concrete pipe at land surface. Water level, in feet above measuring point, 1940: May 24, 0.92.

Li-10. McCarroll Lumber Company. Frost, north side of mill pond. Abandoned jetted industrial well, diameter 2 inches, depth 350 (?) feet. Measuring point, top of 1½ inch plug, 1.7 feet above land surface. Water levels, in feet above measuring point, 1940: May 24, 1.0; July 15, 2.21; Oct. 16, 2.0.

Li-11. Sharp CCC Camp. Springville. Abandoned domestic well, diameter 2½ inches, depth 600 (?) feet. Measuring point, top of tee, 1.1 feet above land surface. Water levels, in feet above measuring point, 1940: May 28, 2.8; July 15, 3.35.

Li-16. J. F. McCarroll. Holden, 200 feet west of residence. Drilled domestic well, diameter 4 inches, depth 1,750 feet. Measuring point, 3/4 inch outlet in pipe to field at land surface. Pressure, in pounds per square inch, 1940: June 7, 59.

Morehouse Parish

Mo-1. Town of Bastrop. Bastrop, city park. Abandoned public supply well, diameter 16 inches, depth 655 (?) feet. Measuring point, steel base plate at land surface. Water-stage recorder installed Nov. 22, 1940. Water levels, in feet below measuring point, 1940: Nov. 14, 74.30; Nov. 22, 74.14; Nov. 23, 73.54.

Rapides Parish

1. City of Alexandria. St. Ann St. and levee.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	9:50 a.m.	150.25	Mar. 8	10:15 a.m.	155.89
12	10:05 a.m.	149.88	15	11:45 a.m.	156.15
19	9:35 a.m.	150.29	22	10:05 a.m.	157.60
Feb. 2	9:40 a.m.	158.32	29	10:00 a.m.	154.95
9	10:35 a.m.	156.67	Apr. 5	9:55 a.m.	156.09
16	11:20 a.m.	156.23	26	11:30 a.m.	150.00
23	9:45 a.m.	156.12	May 3	9:45 a.m.	193.00
Mar. 4	9:30 a.m.	156.06	13	6:15 p.m.	154.00

3. City of Alexandria. Fourth and Monroe Sts. Casing pulled July 2, 1940.

Water level, in feet below measuring point, 1940

Jan. 5	9:50 a.m.	61.73	Apr. 5	9:40 a.m.	59.88
12	9:50 a.m.	61.66	12	9:35 a.m.	58.83
19	9:25 a.m.	60.79	19	2:10 p.m.	58.88
26	10:30 a.m.	60.99	26	11:20 a.m.	57.18
Feb. 2	9:25 a.m.	60.79	May 3	9:30 a.m.	58.98
9	10:20 a.m.	60.18	9	9:40 a.m.	58.90
16	11:11 a.m.	59.99	16	9:40 a.m.	59.29
23	9:30 a.m.	59.86	23	9:15 a.m.	59.77
Mar. 1	12:20 p.m.	60.19	30	9:45 a.m.	59.24
8	10:00 a.m.	60.11	June 6	9:45 a.m.	59.49
15	11:35 a.m.	59.89	13	9:30 a.m.	59.95
22	9:50 a.m.	59.76	20	8:55 a.m.	59.38
29	9:45 a.m.	59.98	27	8:55 a.m.	59.67

4. City of Alexandria. Fourth and Monroe Sts. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Jan. 5	9:25 a.m.	19.10	July 4	8:05 a.m.	11.15
12	9:40 a.m.	18.98	11	9:35 a.m.	-9.50
19	9:15 a.m.	19.15	18	8:35 a.m.	9.04
25	10:20 a.m.	19.18	25	10:30 a.m.	10.29
Feb. 2	9:15 a.m.	19.25	Aug. 1	11:15 a.m.	10.80
9	10:05 a.m.	18.26	8	11:35 a.m.	10.66
16	11:05 a.m.	18.29	15	11:40 a.m.	10.53
23	9:20 a.m.	18.00	22	9:07 a.m.	12.24
Mar. 1	12:10 p.m.	17.92	29	9:10 a.m.	12.90
8	9:50 a.m.	18.08	Sept. 5	9:20 a.m.	13.60
15	11:25 a.m.	18.23	12	11:00 a.m.	14.24
22	9:40 a.m.	18.28	19	9:20 a.m.	14.76
29	9:35 a.m.	18.40	26	9:50 a.m.	14.70
Apr. 5	9:30 a.m.	18.28	Oct. 3	9:00 a.m.	15.27
11	9:25 a.m.	17.59	10	8:50 a.m.	15.60
19	2:00 p.m.	16.38	17	9:20 a.m.	15.96
26	11:10 a.m.	16.51	24	8:50 a.m.	16.31
May 3	9:20 a.m.	15.39	31	8:45 a.m.	16.60
9	9:30 a.m.	15.25	Nov. 7	8:45 a.m.	16.55
16	9:30 a.m.	15.37	14	9:50 a.m.	16.12
23	9:05 a.m.	15.23	20	11:10 a.m.	16.41
30	9:35 a.m.	14.63	27	11:56 a.m.	14.63
June 6	9:35 a.m.	13.55	Dec. 4	10:20 a.m.	13.72
13	9:20 a.m.	12.95	11	11:00 a.m.	13.49
20	8:45 a.m.	11.50	17	10:20 a.m.	11.02
27	8:45 a.m.	10.98	25	9:45 a.m.	8.83

7. City of Alexandria. Fifth and Monroe Sts. Water level, in feet below measuring point, 1940: Nov. 1, 137.00.

Rapides Parish--Continued.

11. City of Alexandria. NE corner Fourth and Oak Sts., across Bayou Rapides. Water level, in feet below measuring point, 1940: May 14, 135.00.

12. No measurements made in 1940.

20. City of Alexandria. SW corner of old swimming pool in City Park. Water-stage recorder removed May 22, 1940.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	8:45 a.m.	72.17	July 11	12:30 p.m.	120.00
12	9:00 a.m.	72.68	18	10:50 a.m.	121.00
19	8:45 a.m.	73.46	26	10:30 a.m.	121.00
25	9:30 a.m.	73.82	Aug. 3	10:30 a.m.	121.00
Feb. 2	8:40 a.m.	78.47	9	12:20 p.m.	122.00
9	9:30 a.m.	81.56	15	11:00 a.m.	124.00
16	10:35 a.m.	82.44	22	11:25 a.m.	129.00
23	8:45 a.m.	83.12	29	12:45 p.m.	131.00
Mar. 1	8:50 a.m.	77.10	Sept. 5	1:50 p.m.	133.00
8	9:05 a.m.	82.05	12	10:15 a.m.	134.00
15	10:50 a.m.	85.48	26	10:55 a.m.	136.00
22	9:00 a.m.	86.94	Oct. 3	10:00 a.m.	137.00
29	9:00 a.m.	88.04	10	1:05 p.m.	139.00
Apr. 5	8:50 a.m.	89.01	17	10:20 a.m.	140.00
12	8:45 a.m.	88.68	31	10:15 a.m.	141.50
17	3:00 p.m.	88.48	Nov. 7	9:45 a.m.	139.00
May 22	10:30 a.m.	89.30	14	11:10 a.m.	139.00
30	9:00 a.m.	93.88	20	12:45 p.m.	142.00
June 20	11:30 a.m.	101.00	27	11:07 a.m.	143.00
27	11:32 a.m.	199.00	Dec. 11	11:30 a.m.	143.00
27	11:36 a.m.	116.00	25	11:05 a.m.	144.00
July 4	1:12 p.m.	117.00			

21. City of Alexandria. Fourth and St. James Sts.

Water level, in feet below measuring point, 1940

Jan. 5	10:05 a.m.	65.89	July 4	10:18 a.m.	82.93
12	10:20 a.m.	65.76	11	10:00 a.m.	83.31
19	9:50 a.m.	65.59	18	9:50 a.m.	83.73
26	10:50 a.m.	65.88	25	9:40 a.m.	84.60
Feb. 2	9:55 a.m.	66.55	Aug. 1	12:30 p.m.	84.29
9	10:50 a.m.	67.34	8	10:00 a.m.	83.52
16	11:30 a.m.	68.86	15	10:00 a.m.	84.05
23	10:06 a.m.	69.99	22	10:30 a.m.	85.10
Mar. 1	10:25 a.m.	69.86	29	9:40 a.m.	85.45
8	10:30 a.m.	70.37	Sept. 5	10:20 a.m.	86.58
15	12:00 noon	71.70	12	9:35 a.m.	86.99
22	10:15 a.m.	73.16	19	10:30 a.m.	87.59
29	10:15 a.m.	73.28	26	11:45 a.m.	86.78
Apr. 5	10:10 a.m.	75.25	Oct. 3	10:55 a.m.	87.62
12	10:00 a.m.	75.53	10	12:00 noon	88.44
19	2:25 p.m.	76.00	17	9:20 a.m.	89.09
26	12:55 p.m.	76.92	24	9:15 a.m.	89.39
May 3	11:15 a.m.	77.23	31	9:15 a.m.	88.95
9	9:55 a.m.	77.56	Nov. 7	9:05 a.m.	89.84
16	10:00 a.m.	77.99	14	10:10 a.m.	90.30
23	9:45 a.m.	77.96	20	1:35 p.m.	90.69
30	10:00 a.m.	77.53	27	10:15 a.m.	89.68
June 6	10:00 a.m.	79.34	Dec. 4	10:40 a.m.	90.28
13	9:45 a.m.	80.23	11	12:15 p.m.	90.94
20	10:15 a.m.	81.26	17	11:25 a.m.	90.98
27	10:45 a.m.	82.02	25	10:05 a.m.	91.10

22. J. N. Balls. Alexandria, Kent Park at Texas Ave. Water level, in feet below measuring point, 1940: Mar. 28, 24.57.

Rapides Parish--Continued.

26. Missouri Pacific R. R. Alexandria, abandoned roundhouse on N. 13th St. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	9:05 a.m.	99.18	July 4	8:30 a.m.	97.32
12	9:20 a.m.	99.83	11	9:20 a.m.	96.70
19	9:00 a.m.	100.65	18	10:15 a.m.	97.73
26	9:55 a.m.	103.09	25	10:10 a.m.	96.68
Feb. 2	9:00 a.m.	103.61	Aug. 1	10:55 a.m.	97.93
9	9:50 a.m.	102.08	8	11:55 a.m.	98.25
16	10:50 a.m.	101.80	15	11:20 a.m.	97.94
23	9:05 a.m.	101.67	22	8:50 a.m.	98.24
Mar. 1	12:35 p.m.	102.52	29	8:55 a.m.	98.38
8	9:25 a.m.	102.75	Sept. 5	9:00 a.m.	98.19
15	11:10 a.m.	101.97	12	10:45 a.m.	98.13
22	9:20 a.m.	102.27	19	9:00 a.m.	97.07
29	9:20 a.m.	102.31	26	10:35 a.m.	96.06
Apr. 5	9:10 a.m.	102.02	Oct. 3	9:20 a.m.	94.72
12	9:05 a.m.	101.64	10	8:30 a.m.	93.70
19	1:45 p.m.	99.89	17	8:35 a.m.	92.91
26	10:50 a.m.	100.89	24	8:20 a.m.	92.57
May 3	9:00 a.m.	99.95	31	8:20 a.m.	93.05
9	8:45 a.m.	100.15	Nov. 7	8:25 a.m.	91.76
16	9:10 a.m.	100.93	14	9:30 a.m.	92.97
23	8:45 a.m.	100.97	20	11:35 a.m.	93.22
30	9:15 a.m.	100.15	27	9:50 a.m.	93.33
June 6	9:15 a.m.	98.54	Dec. 4	10:00 a.m.	93.40
13	9:00 a.m.	98.58	11	10:40 a.m.	94.56
20	9:15 a.m.	97.39	17	10:00 a.m.	94.37
27	9:15 a.m.	97.35	25	9:20 a.m.	94.99

28. Rock Island R. R. Shop on Maple St., Alexandria. Water levels, in feet below measuring point, 1940: Jan. 3, 11:45 a.m., 0.82; Mar. 22, 11:10 a.m., 0.86.

30. Bailey Gaunce Refinery. Alexandria, Ninth St. near Maple St. Water level, in feet below measuring point, 1940: Mar. 22, 12.89.

34. Louisiana and Arkansas Railway. Abandoned roundhouse. Abandoned drilled industrial well, diameter 6 inches, depth 1,100 feet. Measuring point, top casing, 2.65 feet above land surface.

Water level, in feet below measuring point, 1940

Mar. 25	.....	162.00	Aug. 22	10:45 a.m.	103.78
27	.....	147.88	29	10:25 a.m.	101.08
28	.....	132.90	Sept. 5	10:50 a.m.	101.88
29	.....	123.91	12	10:05 a.m.	101.34
May 9	10:05 a.m.	109.75	19	10:50 a.m.	102.21
16	10:15 a.m.	109.86	26	11:10 a.m.	102.48
23	11:20 a.m.	109.73	Oct. 3	10:20 a.m.	103.17
30	11:20 a.m.	109.81	10	12:25 p.m.	103.79
June 6	10:20 a.m.	108.53	17	10:00 a.m.	103.57
13	10:20 a.m.	108.73	24	10:00 a.m.	103.17
20	10:55 a.m.	108.66	31	9:55 a.m.	102.82
27	11:00 a.m.	106.80	Nov. 7	9:45 a.m.	102.54
July 4	10:50 a.m.	108.69	14	10:50 a.m.	102.63
11	10:20 a.m.	108.58	20	12:55 p.m.	102.69
18	10:05 a.m.	108.75	27	10:50 a.m.	101.75
25	9:20 a.m.	104.48	Dec. 4	11:18 a.m.	101.45
Aug. 1	1:00 p.m.	104.58	11	11:45 a.m.	101.20
8	10:20 a.m.	104.80	17	11:55 a.m.	101.68
15	10:40 a.m.	102.98	25	10:25 a.m.	100.60

Rapides Parish--Continued.

35. Pine Products Company. Alexandria. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 5	10:25 a.m.	104.33	July 11	10:40 a.m.	108.63
12	10:40 a.m.	104.74	18	10:20 a.m.	108.87
19	10:05 a.m.	105.41	25	9:00 a.m.	109.06
25	10:30 a.m.	105.29	Aug. 1	12:45 p.m.	109.45
Feb. 2	10:25 a.m.	105.34	8	10:35 a.m.	109.82
9	11:20 a.m.	105.80	15	10:20 a.m.	109.60
16	10:20 a.m.	105.98	22	11:00 a.m.	110.02
23	10:25 a.m.	106.31	29	10:05 a.m.	110.61
Mar. 1	10:30 a.m.	106.64	Sept. 5	10:35 a.m.	111.24
8	11:10 a.m.	106.91	12	9:45 a.m.	112.10
15	12:20 p.m.	107.29	19	11:05 a.m.	112.82
22	11:25 a.m.	107.69	26	10:25 a.m.	113.14
26	9:20 a.m.	107.83	Oct. 3	10:40 a.m.	112.63
Apr. 19	10:30 a.m.	105.82	10	1:40 p.m.	111.58
26	1:20 p.m.	106.25	17	9:45 a.m.	111.60
May 3	11:30 a.m.	105.97	24	9:40 a.m.	109.96
9	10:00 a.m.	106.20	31	9:40 a.m.	110.29
16	10:30 a.m.	106.67	Nov. 7	9:30 a.m.	109.54
23	11:35 a.m.	107.19	14	10:30 a.m.	109.55
30	11:05 a.m.	107.54	20	1:15 p.m.	110.06
June 6	10:40 a.m.	107.20	27	10:35 a.m.	109.58
13	10:40 a.m.	107.89	Dec. 4	11:00 a.m.	109.06
20	10:30 a.m.	107.55	11	11:55 a.m.	108.42
27	11:20 a.m.	107.90	17	11:40 a.m.	109.35
July 4	10:35 a.m.	108.41	25	10:45 a.m.	110.36

43A. Missouri Pacific R.R. Alexandria. Water level, in feet below measuring point, 1940: Apr. 12, 122.23.

45. Louisiana Ice and Electric Company. Ice dock, 3 miles southeast of Alexandria on Highway 71. Water level, in feet below measuring point, 1940: Apr. 12, 84.73.

67. Louisiana Ice and Electric Company. Lecompte. Water level, in feet below measuring point, 1940: Dec. 19, 64.62.

77. J. C. McNutt, SW. corner, sec. 19, T. 1 N., R. 2 E. Cheneyville. Water level, in feet below measuring point, 1940: Mar. 27, 15.93.

78. Percy Hoyt. SW corner, sec. 20, T. 1 N., R. 2 E. Cheneyville. Water level, in feet below measuring point, 1940: Mar. 27, 15.69.

85. H. K. Bubenzer. Five miles southeast of Cheneyville on Highway 71. Water level, in feet below measuring point, 1940: Mar. 27, 18.83.

89. State Colony Farm. SE corner, sec. 39, T. 4 N., R. 2 W. Water level, in feet below measuring point, 1940: Apr. 3, 2.21.

90. J. A. Brown. SW corner, sec. 73, T. 4 N., R. 2 W. Water level, in feet below measuring point, 1940: Apr. 3, 15.01.

133. Texas and Pacific R. R. 200 feet southeast of old water tank, Boyce. Casing pulled Dec. 1940. Water level, in feet below measuring point, 1940: Mar. 20, 5.92.

Rapides Parish--Continued.

135. Arbuthnot mill site. Sec. 61, T. 5 N., R. 3 W.
Water level, in feet above measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Jan. 11	9:30 a.m.	8.1	July 9	10:40 a.m.	8.1
25	1:25 p.m.	7.7	23	11:15 a.m.	7.3
Feb. 7	12:20 p.m.	8.1	Aug. 6	10:55 a.m.	7.4
22	9:45 a.m.	8.1	20	9:40 a.m.	7.5
Mar. 7	9:10 a.m.	7.5	Sept. 4	10:05 a.m.	7.0
20	10:30 a.m.	7.5	17	9:40 a.m.	6.9
Apr. 3	10:00 a.m.	7.8	Oct. 2	9:30 a.m.	6.9
17	9:40 a.m.	7.9	16	1:20 p.m.	6.9
May 1	9:40 a.m.	7.8	30	9:45 a.m.	6.9
28	9:25 a.m.	8.7	Nov. 12	9:45 a.m.	6.1
June 12	9:30 a.m.	8.6	26	10:40 a.m.	6.1
25	11:20 a.m.	8.6	Dec. 22	3:10 p.m.	7.5

138. Texas and Pacific R. R. Quarry station, sec. 1, T. 5 N., R. 4 W. Measurements discontinued July 23, 1940.
Water level, in feet above measuring point, 1940

Jan. 11	8:45 a.m.	1.07	May 1	8:55 a.m.	2.10
25	12:20 p.m.	1.01	15	9:00 a.m.	1.09
Feb. 7	11:35 a.m.	1.03	28	8:45 a.m.	1.16
22	9:00 a.m.	1.07	June 12	8:40 a.m.	1.17
Mar. 7	9:10 a.m.	1.14	25	10:30 a.m.	1.34
20	9:30 a.m.	1.05	July 9	10:00 a.m.	1.35
Apr. 3	9:10 a.m.	1.14	23	10:35 a.m.	1.22
17	9:00 a.m.	1.19			

139. H. Dearborn. Quarry station, sec. 1, T. 5 N., R. 4 W.
Water level, in feet below measuring point, 1940

Jan. 11	8:55 a.m.	17.43	July 9	10:10 a.m.	15.31
25	12:30 p.m.	17.53	23	10:45 a.m.	15.02
Feb. 7	11:45 a.m.	17.59	Aug. 6	10:20 a.m.	15.02
22	9:10 a.m.	16.47	20	9:10 a.m.	15.09
Mar. 7	9:20 a.m.	16.15	Sept. 4	9:30 a.m.	15.45
20	9:40 a.m.	16.25	17	9:05 a.m.	15.84
Apr. 3	9:20 a.m.	15.89	Oct. 2	8:55 a.m.	16.15
17	9:10 a.m.	15.86	16	12:40 p.m.	16.43
May 1	9:05 a.m.	15.42	30	9:05 a.m.	16.84
15	9:10 a.m.	15.72	Nov. 12	9:10 a.m.	16.89
28	8:35 a.m.	15.82	26	9:10 a.m.	15.72
June 18	8:50 a.m.	15.86	Dec. 10	10:15 a.m.	15.78
25	10:40 a.m.	15.66	22	2:35 p.m.	15.32

150. Grady Kelly. Sec. 82, T. 4 N., R. 1 W. Water level, in feet below measuring point, 1940: Apr. 3, 15.09.

183. O. T. Oden. Eight miles south of Alexandria on Highway 165. Water level, in feet below measuring point, 1940: Mar. 22, 27.92.

184. O. T. Oden. Eight miles south of Alexandria on Highway 165. Water level, in feet below measuring point, 1940: Mar. 22, 26.93.

188. J. H. Wise. Woodworth.
Water level, in feet above measuring point, 1940

Jan. 11	3:30 p.m.	7.45	May 15	4:55 p.m.	7.63
25	1:45 p.m.	7.32	28	5:00 p.m.	7.55
Feb. 8	2:20 p.m.	7.59	June 12	3:20 p.m.	7.48
22	4:40 p.m.	7.63	27	5:15 p.m.	7.54
Mar. 7	3:45 p.m.	7.42	July 10	1:45 p.m.	7.26
22	12:45 p.m.	6.47	24	4:30 p.m.	7.24
Apr. 5	4:45 p.m.	7.51	Aug. 9	9:45 a.m.	7.45
19	3:50 p.m.	7.58	21	4:40 p.m.	6.61
May 3	12:45 p.m.	7.49	Sept. 6	4:55 p.m.	5.18

Rapides Parish--Continued.

188.--Continued.

Water level, in feet above measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Sept.18	12:00 noon	6.91	Nov. 26	3:30 p.m.	7.05
Oct. 7	2:45 p.m.	7.03	Dec. 16	1:20 p.m.	2.51
21	4:15 p.m.	6.96	31	3:30 p.m.	1.80
Nov. 6	2:30 p.m.	6.96			

201. Louisiana Ice and Electric Company. Pineville, in street behind power plant.

Water level, in feet below measuring point, 1940

Jan. 5	11:20 a.m.	139.35	July 4	10:00 a.m.	139.23
12	11:20 a.m.	140.37	11	11:40 a.m.	138.37
19	10:35 a.m.	140.27	18	9:35 a.m.	139.59
26	4:30 p.m.	145.37	25	11:15 a.m.	140.53
Feb. 2	11:15 a.m.	155.81	Aug. 1	10:10 a.m.	140.72
9	12:20 p.m.	154.01	8	10:55 a.m.	141.09
16	12:25 p.m.	152.99	15	1:25 p.m.	140.08
23	11:40 a.m.	152.20	22	9:51 a.m.	138.85
Mar. 1	11:55 a.m.	154.91	29	10:40 a.m.	139.77
8	12:10 p.m.	154.64	Sept. 5	11:35 a.m.	140.35
15	10:30 a.m.	152.68	12	11:50 a.m.	140.95
22	11:00 a.m.	156.38	19	10:10 a.m.	140.28
29	12:00 noon	154.29	26	8:15 a.m.	139.14
Apr. 5	11:55 a.m.	154.02	Oct. 3	11:15 a.m.	138.55
12	11:25 a.m.	152.53	10	11:45 a.m.	138.24
19	2:50 p.m.	150.76	17	10:40 a.m.	137.07
26	9:45 a.m.	149.48	24	10:35 a.m.	137.39
May 3	11:00 a.m.	151.35	31	10:40 a.m.	137.32
9	11:00 a.m.	145.88	Nov. 7	10:40 a.m.	137.91
16	12:30 p.m.	152.05	14	11:30 a.m.	137.99
23	11:05 a.m.	141.06	20	10:15 a.m.	138.75
30	10:45 a.m.	138.38	27	11:22 a.m.	139.54
June 6	11:40 a.m.	139.84	Dec. 4	1:20 p.m.	140.75
13	11:30 a.m.	139.47	11	2:55 p.m.	141.99
20	9:55 a.m.	139.29	17	11:10 a.m.	140.72
27	10:30 a.m.	139.35	25	12:55 p.m.	142.76

203. Measurements discontinued.

207. State Hospital for Insane. Pineville. Water level, in feet below measuring point, 1940: Apr. 5, 68.48.

208. State Hospital for Insane. Pineville. Water level, in feet below measuring point, 1940: Apr. 5, 146.95.

209. Veterans Hospital. Pineville.

Water level, in feet below measuring point, 1940

Jan. 18	7:30 a.m.	165.00	Feb. 14	12:00 noon	188.00
18	9:30 a.m.	186.00	14	2:00 p.m.	189.00
30	3:30 p.m.	190.00	14	4:00 p.m.	190.00
Feb. 14	8:00 a.m.	165.00	Sept.16	8:00 a.m.	174.00
14	10:00 a.m.	187.00	16	11:00 a.m.	198.00

212. Measurements discontinued.

218. Camp Beauregard. About 5 miles north of Pineville on Highway 165. Equipped with water-stage recorder.

Water level, in feet below measuring point, 1940

Jan. 5	10:55 a.m.	78.03	Feb. 9	11:55 a.m.	78.08
12	11:05 a.m.	77.97	12	5:00 p.m.	78.04
19	10:20 a.m.	78.10	16	11:45 a.m.	78.00
25	4:00 p.m.	78.13	23	11:10 a.m.	78.05
Feb. 2	10:55 a.m.	78.23	Mar. 1	11:35 a.m.	78.02

Rapides Parish--Continued.

218.--Continued.
Water level, in feet below measuring point, 1940

Date	Hour	Water level	Date	Hour	Water level
Mar. 8	11:40 a.m.	78.03	Aug. 8	11:20 a.m.	80.10
15	10:00 a.m.	78.34	15	1:00 p.m.	80.30
22	10:40 a.m.	78.29	22	9:27 a.m.	80.55
Apr. 5	11:10 a.m.	78.23	29	10:35 a.m.	80.64
12	11:00 a.m.	78.31	Sept. 5	11:15 a.m.	80.65
19	9:40 a.m.	75.71	12	11:30 a.m.	80.57
26	9:10 a.m.	78.55	19	9:45 a.m.	80.43
May 3	10:30 a.m.	78.64	26	8:45 a.m.	80.18
9	10:30 a.m.	78.88	Oct. 3	11:10 a.m.	80.23
13	11:30 a.m.	79.06	10	10:20 a.m.	80.28
16	12:00 noon	79.17	17	11:00 a.m.	80.30
23	10:30 a.m.	79.58	24	12:15 p.m.	80.43
30	10:25 a.m.	79.43	31	11:55 a.m.	80.44
June 6	11:15 a.m.	79.73	Nov. 7	11:00 a.m.	80.66
13	11:10 a.m.	79.67	14	4:20 p.m.	80.65
20	9:35 a.m.	79.70	20	10:40 a.m.	80.77
27	10:10 a.m.	79.65	27	11:37 a.m.	80.75
July 4	9:25 a.m.	79.74	Dec. 4	1:00 p.m.	80.85
11	11:20 a.m.	79.70	11	2:03 p.m.	80.98
18	9:15 a.m.	79.77	17	10:45 a.m.	81.25
25	10:25 a.m.	79.91	25	1:30 p.m.	81.12
Aug. 1	10:30 a.m.	80.11			

St. Tammany Parish

St-2. Mayer Israel. NE¼ sec. 7, T. 6 S., R. 11 E., Covington. Pressure, in pounds per square inch, 1940: July 25, 10:00 a.m., 37.

St-4. Poitevent and Favre Lumber Company. SW¼NE¼ sec. 9, T. 7 S., R. 12 E., on north side of Highway 114. Water level, in feet above gage, 1940: June 14, 6.2.

St-6. Poitevent and Favre Lumber Company. SW¼SW¼ sec. 17, T. 7 S., R. 13 E., on south side of Highway 114. Water level, in feet above gage, 1940: June 14, 6.1.

St-9. Measurements discontinued.

St-10. State Fish Hatchery. Sec. 38, T. 8 S., R. 12 E., Lacombe, south well. Pressure, in pounds per square inch, 1940: July 25, 16.

St-12. Tchefuncte State Park. Sec. 43, T. 8 S., R. 12 E., Golf Course. Pressure, in pounds per square inch, 1940: July 25, 23.7.

St-16. Great Southern Lumber Company. Sec. 20, T. 5 S., R. 13 E., 0.5 mile south and 1.5 mile west of Bush. Pressure, in pounds per square inch, 1940: July 25, 11.3.

Tangipahoa Parish

Ta-5. Southern United Ice Company. Amite, at rear of lot behind ice plant. Water level, in feet above gage, 1940: June 10, 9.3.

Ta-7. Town of Ponchatoula. About 50 feet west of pumping station. Water level, in feet above gage, 1940: June 7, 8.5.

Ta-8. Louisiana Cypress Lumber Company. NE¼SW¼ sec. 45, T. 7 S., R. 8 E., Ponchatoula, about 200 yards west of Highway 122, at railroad spur on road to lumber mill. New measuring point, gage on 1-inch sleeve, 0.5 foot above land surface. Water level, in feet above gage, 1940: May 28, 5.5.

Ta-9. Measurements discontinued.

Tangipahoa Parish--Continued.

Ta-10. Williams Lumber Company. NW¼SE¼ sec. 45, T. 7 S., R. 8 E., 1 mile south of Ponchatoula at arch across Highway 122. Water level, in feet above gage, 1940: May 28, 17.2

Ta-13. Measurements discontinued.

Ta-14. Illinois Central System. NW¼ sec. 7, T. 7 S., R. 8 E., Hammond, 300 yards north of coal chute. Pressure, in pounds per square inch, 1940: June 10, 50.7.

Ta-17. Carl Blumquist. Center NE¼ sec. 6, T. 6 S., R. 8 E., in field corner. Water level, in feet above measuring point, 1940: May 28, 2.5.

Ta-19. V. Stevens. SE¼NE¼ sec. 26, T. 7 S., R. 8 E., in field. Water level, in feet above gage, 1940: May 28, 16.0.

Ta-21. Burns Davis. N½ irreg. sec. 54, T. 7 S., R. 7 E., at shed. Water level, in feet above gage, 1940: May 24, 7.0.

Ta-22. W. B. Cornwell. Center sec. 31, T. 6 S., R. 7 E., at rear of house. Pump installed. Measurements discontinued, May 24, 1940. Water level, in feet above measuring point, 1940: May 24, estimate 0.5.

Ta-23. Otto Bignor. South line, sec. 50, T. 7 S., R. 7 E., in field. Water level, in feet above measuring point, 1940: May 24, 2.7.

Ta-24. Clyde Starkey. Center sec. 53, T. 7 S., R. 7 E., in field. Water level, in feet above gage, 1940: May 24, 4.3.

Ta-36. Town of Kentwood. About 20 feet north of reservoir at pumping station, 2 blocks east of Highway 51. Water level, in feet above gage, 1940: June 10, 21.3.

Washington Parish

Wa-1. Mount Hermon CCC Camp. Mount Hermon, 1 mile west on State Highway 71. Abandoned drilled domestic well, diameter 4 inches, depth 346 feet. Measuring point, bottom edge 2-inch elbow, 1.4 feet above land surface. Water level, in feet below measuring point, 1940: Aug. 21, 70.58.

OKLAHOMA

By S. L. Schoff

The observation-well program in Oklahoma, reported in Water-Supply Papers 840, 845, and 886, was continued in 1940 as part of the investigation of ground-water resources of the State by the Federal Geological Survey in cooperation with the Oklahoma Geological Survey. This investigation was begun in 1937 as a study of ground water in the Oklahoma Panhandle, and most of the observation wells are in that part of the state. In 1939, however, water-level measurements were begun in a well in Cleveland County, and in 1940 the program was expanded further by the additon of 2 observation wells near Supply and Laverne and the inclusion of records obtained by the Oklahoma City Water Department in 9 wells along the North Canadian Valley between Yukon and Woodward. Records for wells in the Stillwater Creek area of the Soil Conservation Service are included in this report in the section on Payne County.

The general geology and ground-water resources of the Panhandle were described in Water-Supply Papers 840 and 845, and the geologic relationships of the well in Cleveland County were described in Water-Supply Paper 886. The part of the North Canadian River valley that contains the observation wells added to the program in 1940 extends from the west line of Harper County, near Laverne, to Yukon, which is about 15 miles west of Oklahoma City. It crosses parts of Harper, Ellis, Woodward, Major, Dewey, Blaine and Canadian Counties. The part above the mouth of Wolf Creek, at Supply, is known locally as Beaver River.

A detailed study has not been made of the ground-water resources of the stretch of the valley considered here, but Gould[1/] in 1905 summarized the water resources of the North Canadian River in Oklahoma, and in 1913 Phillips, Alvord, and Billingsley[2/] reported on the possibilities of obtaining a water supply for Oklahoma City from wells in the alluvium of the valley. Two years later the Geological Survey published a report by Schwennesen[3/] on ground water for irrigation in the part of the valley near Oklahoma City.

1/ Gould, C. N., Geology and water resources of Oklahoma: U. S. Geol. Survey Water-Supply Paper 148, pp. 91-92, 1905.

2/ Phillips, H., Alvord, J. W., and Billingsley, J. W., A report to the mayor and board of commissioners of Oklahoma City on an improved water supply for the city: Chicago Printing and Embossing Co., pp. 98-118, 1913.

3/ Schwennesen, A. T., Ground water for irrigation in the valley of North Fork of Canadian River near Oklahoma City, Oklahoma: U. S. Geol. Survey Water-Supply Paper 345, pp. 41-51, 1915.

The valley of the North Canadian River between the west line of Harper County and Oklahoma City is a trough excavated in upper Permian rocks that consist of red shales and fine sandstones, and gypsum. A strip of sand hills and terrace deposits lies along the north and northeast side of most of this stretch of the valley, and the trough itself has been partly filled with river sands, gravels and silts that in places are more than 50 feet thick. These river sands and gravels are the principal source of ground water for wells in the valley, and several towns and irrigators draw upon this supply. Oklahoma City, however, relies on the flow of the river, which in recent years has been almost entirely flood flow.

In 1930 the Oklahoma City Water Department established 54 observation wells in the river channel between El Reno and Supply, and made weekly measurements of water level in them between August 5 and October 15. From 8 to 11 measurements were made in each well. During most of this period there was a flow in the river, with occasional floods, and at times the water levels in the wells stood as much as 4 feet above the bottom of the channel. In 1 well, however, the water level declined to a level 3.6 feet below the channel on September 11, 1930. An additional measurement was made in each of 24 wells about the middle of November 1931. Many of the wells, however, were washed out and the measurements were discontinued.

The city water department again undertook measurements in wells as a means of determining the depth of the water table below the river channel when a prolonged drought and lack of floods in the last half of 1939 resulted in a shortage of water in the Oklahoma City reservoir. In December of that year 9 wells consisting of 2-inch pipes with blow-torch perforations near the lower end were sunk at strategic points along the river between Yukon and Woodward. Of these wells, 7 were on the flood plain near the channel and 2 were in the channel near El Reno and Yukon. The 2 wells near El Reno and Yukon were replaced by similar wells on the flood plain in April 1940.

Water-level measurements in 1940 were made in 124 wells in Oklahoma, of which 39 are in Beaver County, 2 in Blaine County, 4 in Canadian County, 29 in Cimarron County, 1 in Cleveland County, 1 in Harper County, 1 in Major County, 44 in Texas County, and 3 in Woodward County.

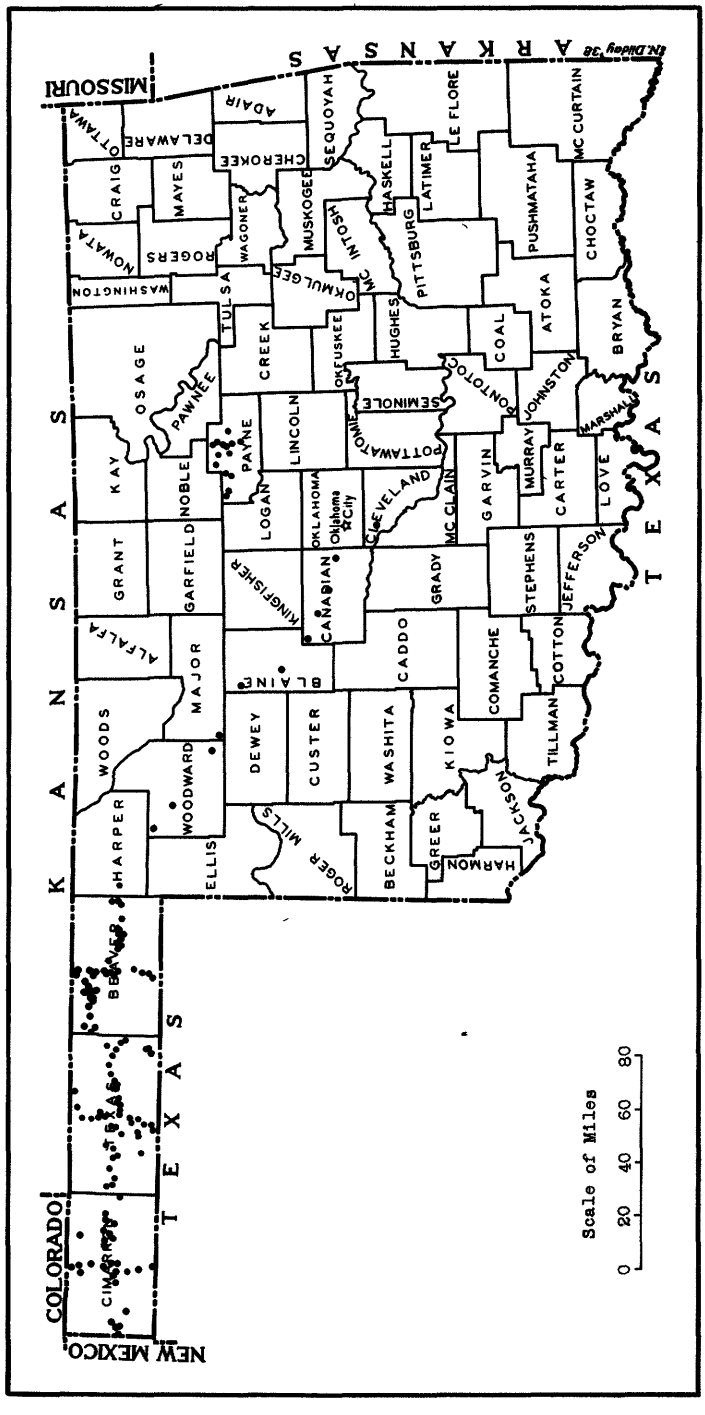

Figure 4.--Map showing location of observation wells in Oklahoma.

Observation wells in the Panhandle (Beaver, Cimarron and Texas Counties) have been measured bimonthly, in January, March, May, July, September and November, and the number of measurements in individual wells has ranged from 1 to 6. The wells near Laverne (Harper County 1) and Supply (Woodward County 3) are measured twice a year, before and after the irrigation season. The wells of the Oklahoma City Water Department are usually measured about once a month, but in the last half of 1940 were measured only twice. The Cleveland County well is measured weekly during the winter and at irregular intervals during the rest of the year.

Of the 683 measurements made in the observation wells in 1940, 209 were made in Beaver County, 11 in Blaine County, 43 in Canadian County, 139 in Cimarron County, 34 in Cleveland County, 2 in Harper County, 10 in Major County, 216 in Texas County, and 20 in Woodward County. In addition to these periodic measurements, an automatic water-stage recorder of the float type was maintained throughout the year on Beaver County well 528.

In 1940, the investigation of the ground-water resources of Beaver County was continued, and several brief studies of possible ground-water supplies for municipalities and state institutions in Oklahoma were made. A summary of the ground-water resources of the Oklahoma Panhandle, by the writer, was published in Economic Geology.[4/]

Fluctuations of water level, 1938-40

During the period of record, 1938-40, the water levels in wells in the Panhandle--Beaver, Cimarron, and Texas Counties--have risen slowly without large fluctuations. The average water level at the end of November 1940 was 0.05 foot higher than in November 1939 and 0.10 foot higher than in November 1938, at which time the lowest stage was recorded. It was, however, 0.09 foot below the highest stage, which was reached in May 1940. The highest stage in 1939 was reached in September and was 0.04 foot below the level of May 1940.

This general rise has been most pronounced in Beaver County, where water levels in wells drawing from the Ogallala formation have risen enough to offset the decline of the water levels in wells in some other aquifers and other localities. The November averages for 1939 and 1940 were 0.16 foot and 0.30 foot, respectively, above the average for November 1938, which was the lowest average stage recorded for the county. The

4/ Schoff, S. L., Ground water in the Oklahoma Panhandle: Econ. Geol., Vol. XXXV, pp. 534-545, 1940.

highest recorded stage occurred in July 1940, but it was only 0.04 foot above the stage for November of the same year.

In Cimarron County, the average water level in November 1939 was 0.06 foot above the average for November 1938, but by November 1940 it had declined to the 1938 level. The average water level for this county, however, has fluctuated through a wider range than the average water levels of Beaver and Texas Counties. The lowest stage occurred in July 1938, at the beginning of the record, and was followed by an irregular rise of 0.41 foot to the highest stage, which was reached in May 1940.

The record for Texas County is the longest in the Panhandle and shows the least range of fluctuation in water level. The highest stage for this county was reached in September 1938, and was 0.13 foot above the low stage, which was reached two months later. The average water levels for November 1939 and November 1940 were 0.07 foot and 0.01 foot, respectively, below the average for November 1938.

In all three of the Panhandle Counties, the maximum fluctuations of water level for groups of wells have occurred in wells tapping water in the alluvium. The following tables present not only average water levels in several groups of wells in each county, but weighted averages for the Panhandle as a whole, in feet above assumed datum planes. These averages are similar to those given in corresponding tables in Water-Supply Paper 886, but differ in detail because of revision of the figures for several of the wells and the inclusion of wells that had been omitted until enough information was available to permit selection of datum planes for them. The most obvious change is in the water levels for red beds in Texas County. This aquifer is represented by one well (No. 294), the datum for which has been raised 0.14 foot. The wells in western Cimarron County that may tap water in the Dakota sandstone have been grouped with upland wells tapping the Ogallala formation because further study has shown that they cannot be distinguished with certainty from the wells in the Ogallala.

Average water levels, in feet above datum planes, in groups of wells in the Oklahoma Panhandle, 1938-1940

Date	Beaver County			Cimarron County		Texas County		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1938								
January	.....	.....	.....	.....	.....	99.94	.....	99.88
March	.....	.....	.....	.....	.....	100.02	.....	100.01
May	.....	.....	.....	.....	.....	100.01	.....	100.38
July	100.17	100.12	100.49	99.89	99.51	100.02	.....	100.15
September	100.14	100.13	100.22	100.01	100.43	100.02	100.03	100.19
November	100.00	100.00	100.00	100.00	100.00	100.00	.....	100.00

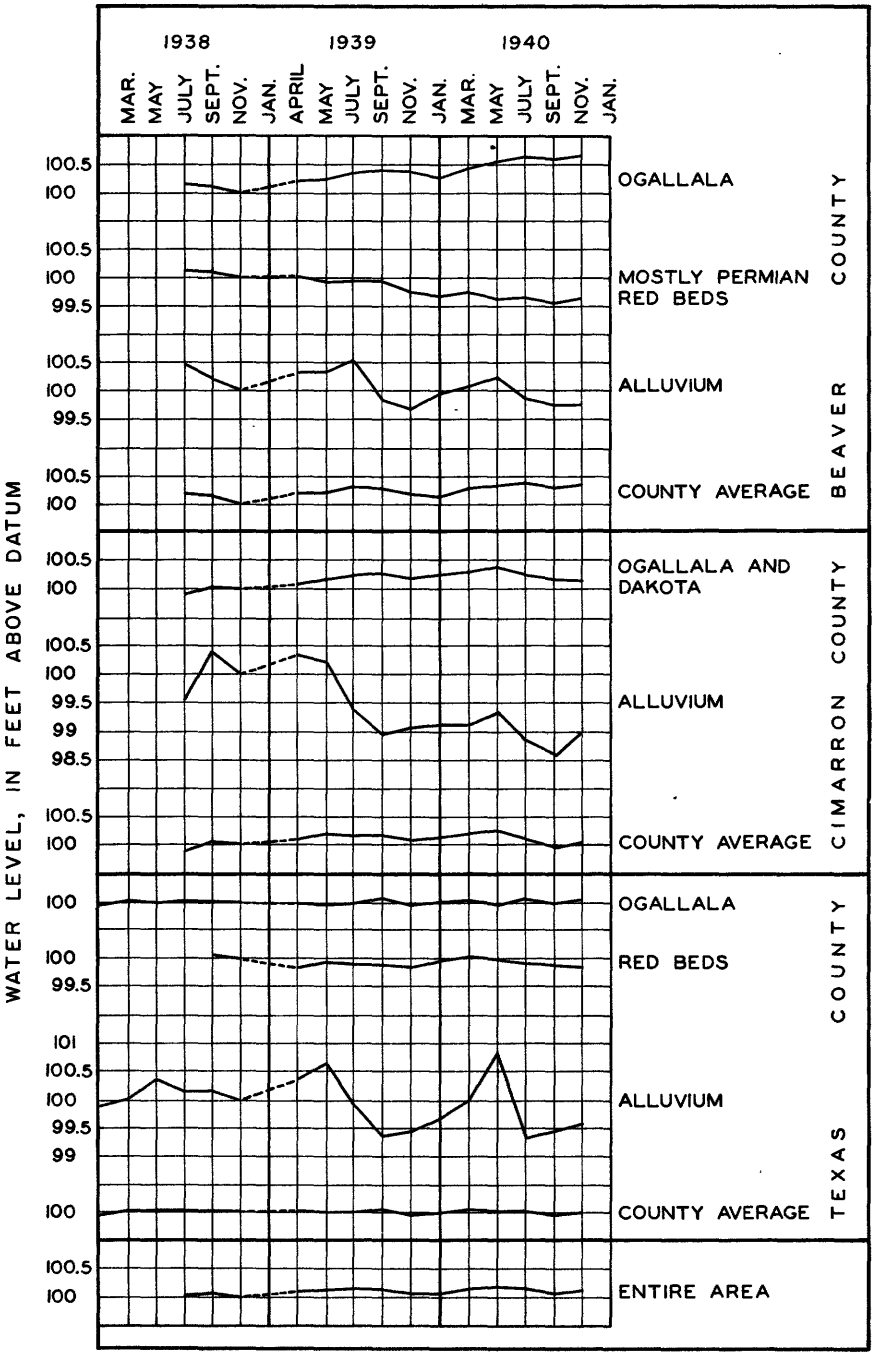

Figure 5.--Hydrographs showing average water levels in wells tapping water in different aquifers in the Panhandle Counties, Oklahoma.

Average water levels, in feet above datum planes, in groups of wells in the Oklahoma Panhandle, 1938-1940--Continued

Date	Beaver County			Cimarron County		Texas County		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1939								
April	100.22	100.07	100.34	100.06	100.32	100.00	99.83	100.37
May	100.26	99.92	100.32	100.19	100.20	99.97	99.93	100.61
July	100.39	99.93	100.53	100.24	99.33	100.00	99.90	99.90
September	100.42	99.92	99.84	100.28	98.96	100.10	99.89	99.33
November	100.40	99.72	99.69	100.17	99.05	99.96	99.86	99.43
1940								
January	100.28	99.67	99.97	100.23	99.12	100.00	.....	99.66
March	100.46	99.75	100.05	100.30	99.12	100.05	100.04	99.99
May	100.58	99.60	100.24	100.36	99.38	99.96	100.00	100.82
July	100.68	99.65	99.84	100.23	98.81	100.05	99.92	99.31
September	100.59	99.53	99.76	100.12	98.57	99.99	.....	99.47
November	100.65	99.62	99.74	100.11	99.01	100.02	99.82	99.54

Explanation

(1) Beaver County, northern and western part; wells tap water chiefly in Ogallala formation.

(2) Beaver County, southern and eastern part; wells tap water in Permian red beds and in Ogallala formation.

(3) Beaver County, eastern half; wells tap water in alluvium of North Canadian (Beaver) River, and its tributaries.

(4) Cimarron County, upland flats; wells tap water in Ogallala formation, and in the extreme western part of the county wells tap water in the Dakota sandstone.

(5) Cimarron County, wells tap water in alluvium of North Canadian (Beaver) and Cimarron Rivers.

(6) Texas County, upland flats; wells tap water in Ogallala formation.

(7) Texas County, well 294; taps water in red beds.

(8) Texas County, wells tap water in alluvium of North Canadian River and its tributaries.

Weighted average water levels in wells in Beaver, Cimarron, and Texas Counties, Oklahoma Panhandle, in feet above datum planes, 1938-40

Date	Beaver[a/]	Cimarron[b/]	Texas[c/]	Entire Panhandle[d/]
1938				
January	.....	.....	99.94	.....
March	.....	.....	100.02	.....
May	.....	.....	100.03	.....
July	100.19	99.85	100.03	100.02
September	100.15	100.05	100.03	100.07
November	100.00	100.00	100.00	100.00

a/ Wells in Ogallala formation in northwestern part of the county, 65 percent; wells in eastern and southern part, mostly in Permian rocks, 25 percent; wells in alluvium, 10 percent.

b/ Wells on upland, in Ogallala and (?) Dakota formations, 90 percent; wells in alluvium, 10 percent.

c/ Method of averaging depends on availability of water levels in red-bed well. January-July and November 1938, and January and September 1940, as follows: wells in Ogallala formation, 95 percent; wells in alluvium, 5 percent. Other dates: wells in Ogallala formation, 93 percent; well in red beds, 2 percent; wells in alluvium, 5 percent.

d/ Average of figures in first three columns.

Weighted average water levels in wells in Beaver, Cimarron, and Texas Counties, Oklahoma Panhandle, in feet above datum planes, 1938-40--Continued

Date	Beaver[a/]	Cimarron[b/]	Texas[c/]	Entire Panhandle[d/]
1939				
April	100.19	100.09	100.02	100.10
May	100.18	100.19	100.00	100.12
July	100.29	100.15	99.99	100.14
September	100.24	100.15	100.06	100.15
November	100.16	100.06	99.93	100.05
1940				
January	100.10	100.12	99.98	100.07
March	100.24	100.18	100.05	100.16
May	100.30	100.26	100.00	100.19
July	100.34	100.09	100.01	100.15
September	100.24	99.96	99.96	100.06
November	100.30	100.00	99.99	100.10

The average water level for observation wells along the North Canadian River,--wells in Blaine, Canadian, Harper, Major, and Woodward Counties, and wells of this type in the Panhandle Counties-- has fluctuated through a range of 2.54 feet in the period 1938-40. Low levels are usually reached in the fall. Part of the fluctuations indicated in the table are probably due to irregularities in the number and geographic distribution of the wells included in the different monthly averages, but part are due to the effect of floods in the river, to recharge in the alluvium by penetration of rainfall, to transpiration by plants, and to evaporation where the water table is near the surface.

The record of the automatic water-stage recorder on Beaver County well 528 showed the effects of floods in the river in 1940. On May 17 and 18 heavy rains totaling 1.65 to 2.38 inches were recorded at stations of the U. S. Weather Bureau in the Panhandle. A flood in the river resulted and the water level in the well, which is about 1,700 feet from the channel, rose 0.27 foot between 6 p.m. on May 18 and noon on May 23. A more pronounced effect was recorded from August 15 to 18, when the water level in the well rose 1.44 feet in about 59 hours during and immediately following

a/ Wells in Ogallala formation in northwestern part of the county, 65 percent; wells in eastern and southern part, mostly in Permian rocks, 25 percent; wells in alluvium, 10 percent.

b/ Wells on upland, in Ogallala and (?) Dakota formations, 90 percent; wells in alluvium, 10 percent.

c/ Method of averaging depends on availability of water levels in red-bed well. January-July and November 1938, and January and September 1940, as follows: wells in Ogallala formation, 95 percent; wells in alluvium, 5 percent. Other dates: wells in Ogallala formation, 93 percent; well in red beds, 2 percent; wells in alluvium, 5 percent.

d/ Average of figures in first three columns.

a flood. On the other hand, precipitation totaling 2.49 to 3.31 inches between November 19 and 26 failed to produce a flow in the river, but on the 26th the water level in the well began a slow rise that continued until December 15.

Average water levels, in feet above datum planes, in wells in alluvium along North Canadian River, 1938-40

Date	Water level	Location of wells
1938		
July 23-Aug. 5	99.19	Boise City to west line of Harper County
Sept.19-22	100.05	Boise City to west line of Harper County
Nov. 18-27	100.00	Boise City to west line of Harper County
1939		
Apr. 1-10	100.50	Boise City to west line of Harper County
May 22-26	100.12	Boise City to west line of Harper County
July 19-28	99.50	Boise City to west line of Harper County
Sept.23-29	99.11	Boise City to west line of Harper County
Nov. 18-24	99.34	Boise City to west line of Harper County
Dec. 15	99.01	Beaver to Yukon
1940		
Jan. 12-30	99.56	Boise City to Yukon
Feb. 4	99.63	Beaver to Yukon
Feb. 24	100.42	Beaver to Yukon
Mar. 2	100.18	Beaver to Yukon
Mar. 21-Apr. 2	99.89	Boise City to Yukon
May 9	100.79	Beaver to Yukon
May 20-25	101.16	Boise City to Yukon
June 23	101.55	Beaver to Yukon
July 22-Aug. 9	99.46	Boise City to Yukon
Sept.21-26	99.27	Boise City to west line of Harper County
Nov. 20-Dec. 4	99.61	Boise City to Yukon

The water level in the Cleveland County observation well fluctuated through a range of 2.57 feet from March 31, 1939, to December 23, 1940. The highest water level recorded in 1939 was 15.05 feet below the measuring point, on September 12, and the lowest was 16.24 feet, on November 14. From January to May 1940 the water level fluctuated between 15.72 feet below the measuring point and 17.08 feet (the record low). From June 21 to July 27 the water level rose 1.2 feet, probably as a result of heavy precipitation, which averaged 2.51 inches above the normal for July at Oklahoma City and Norman, the nearest stations of the U. S. Weather Bureau. This rise was followed by a decline that is poorly recorded because of infrequent measurements. From November to December 23 the water level rose 0.57 foot, reaching the highest level yet recorded. This rise was probably due to heavy precipitation, which for November averaged 3.33 inches above the normal at Oklahoma City and Norman. Over 90 percent of this precipitation came between November 19 and 26.

Precipitation, 1940

Precipitation in the Panhandle for the year ending November 30, 1940, ranged from 12.69 inches at Kenton to 18.83 inches at Beaver, and the average for the 5 stations was 16.49 inches. This was 1.06 inches below the normal annual precipitation for the area. Departures at individual stations ranged from 1.14 inches above normal at Hooker to 5.33 inches below normal at Kenton.

For the same period the precipitation at 7 stations along the North Canadian Valley from Oklahoma City to Supply ranged from 16.45 inches at Supply to 33.84 inches at Oklahoma City. The annual departures at 5 of these stations ranged from 2.69 inches above normal at Oklahoma City to 7.36 inches below the normal at Geary, and averaged 2.01 inches below normal.

The Cleveland County observation well is about half way between Oklahoma City and Norman, and the precipitation reported at both of these cities, therefore, must be considered in interpreting the water-level record for the well. For the year ending November 30, 1940, the average for these two stations was 33.96 inches--1.73 inches above the normal annual precipitation. Significant details of the record for the year have been mentioned in the discussion of the water-level fluctuations in the well.

Pumpage in the Panhandle

The amount of water pumped from the larger municipal, industrial, and irrigation wells in the Oklahoma Panhandle in 1940 is estimated to be about 1,786 acre-feet, divided as follows: Beaver County, 246 acre-feet; Cimarron County, 74 acre-feet; Texas County, 1,466 acre-feet.

Water-Level Records

The records of water-level measurements on the following pages are listed alphabetically by counties and in numerical order within the counties.

Beaver County

61. John R. Woodson. SE¼SE¼NE¼ sec. 1, T. 1 N., R. 23 E. Measurements discontinued.

62. Ray D. Hall. SE¼NE¼SE¼ sec. 14, T. 1 N., R. 23 E. Beginning Sept. 22, 1940, measurements were made from top of west block of wooden pipe clamp on north side of pipe, 1 foot above land surface, 0.41 foot above bench mark and 0.36 foot above original measuring point. Water levels, in feet below original measuring point, 1940: Jan. 29, 162.29; Mar. 20, 162.25; Sept. 22, 162.43; Nov. 21, 162.36.

Beaver County--Continued.

81. L. T. Adelman. SW¼SE¼SW¼ sec. 7, T. 1 N., R. 24 E. Well was repaired and put in use late in 1939, and measuring point was lowered 0.03 foot. Water level, in feet below original measuring point, 1940: July 27, 165.72.

256. Dave and Minnie Hodson. SW¼SW¼SW¼ sec. 4, T. 2 N., R. 24 E. No measurements made in 1940.

258. Frank S. Flynn. NW¼SW¼SW¼ sec. 31, T. 2 N., R. 24 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 29	50.68	May 21	50.90	Sept.22	50.80
Mar. 20	50.74	July 27	50.80	Nov. 21	50.84

401. T. T. Yarnold. NE¼NE¼SE¼ sec. 7, T. 3 N., R. 24 E.

Water level, in feet below measuring point, 1940

Jan. 29	93.68	May 21	93.60	Sept.27	93.57
Mar. 20	93.62	July 27	93.41	Nov. 22	93.60

416. Otto Barby, et al. SE¼SE¼NE¼ sec. 1, T. 3 N., R. 25 E.

Water level, in feet below measuring point, 1940

Jan. 30	120.94	May 20	120.87	Sept.21	120.98
Mar. 21	120.82	July 27	120.95	Nov. 21	121.10

417. Ralph Ridgeway. SW¼NE¼ sec. 11, T. 3 N., R. 25 E. Well abandoned early in 1940, and a new well of similar construction drilled about 50 feet to the northwest. Measuring point at new well is east edge of casing, 1.7 feet above land surface and about 1.28 feet below original measuring point at old well; and 0.03 foot above new bench mark at new well, which is top of head of lower bolt in southeast leg of windmill tower.

Water level, in feet below original measuring point, 1940

Mar. 21	13.28	July 27	12.72	Nov. 21	13.51
May 20	13.34	Sept.22	13.07		

418. Nile J. Mosburg. SE¼SW¼SW¼ sec. 12, T. 3 N., R. 25 E.

Water level, in feet below measuring point, 1940

Jan. 30	65.11	May 20	65.23	Sept.22	65.42
Mar. 21	65.15	July 27	65.34	Nov. 21	65.33

431. State of Oklahoma. SW¼SE¼SE¼ sec. 8, T. 3 N., R. 26 E.

Water level, in feet below measuring point, 1940

Jan. 30	73.58	May 20	73.66	Sept.21	73.57
Mar. 21	73.92	July 27	73.66	Nov. 21	73.35

432. George H. Button. NW¼NE¼NE¼ sec. 10, T. 3 N., R. 26 E.

Water level, in feet below measuring point, 1940

Jan. 30	31.19	July 27	30.66	Nov. 21	30.58
May 20	31.11	Sept.21	30.32		

433. Federal Land Bank. NE¼NW¼NW¼ sec. 12, T. 3 N., R. 26 E.

Water level, in feet below measuring point, 1940

Jan. 30	41.44	May 20	41.40	Sept.21	41.48
Mar. 21	41.41	July 27	41.43	Nov. 21	41.44

434. J. W. Hibbs, et al. SW¼NW¼NW¼ sec. 15, T. 3 N., R. 26 E.

Water level, in feet below measuring point, 1940

Jan. 30	116.91	May 20	116.74	Sept.21	116.98
Mar. 21	116.84	July 27	116.79	Nov. 21	116.73

Beaver County--Continued.

446. Hib Richard. NW¼NE¼NW¼ sec. 15, T. 3 N., R. 27 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 30	25.23	July 27	24.84	Nov. 21	25.32
May 20	25.30	Sept.21	25.15		

461. Arthur E. Sharp. NE¼SE¼NE¼ sec. 3, T. 3 N., R. 28 E. Measurements discontinued.

462. C. G. and W. A. Sawin. SW¼SW¼NW¼ sec. 3, T. 3 N., R. 28 E.
Water level, in feet below measuring point, 1940

Jan. 30	40.66	May 20	40.67	Sept.21	40.88
Mar. 21	40.72	July 27	40.83	Nov. 21	40.98

464. N. W. Johnson. NE¼NE¼NE¼ sec. 9, T. 3 N., R. 28 E.
Water level, in feet below measuring point, 1940

Jan. 30	113.93	May 20	114.10	Sept.21	114.43
Mar. 21	114.03	July 27	113.37	Nov. 21	114.55

518. Pete Sanders Estate. NE¼SE¼SE¼ sec. 36, T. 4 N., R. 23 E. Water levels, in feet below measuring point, 1940: Jan. 29, 39.54; Mar. 20, 39.46; Sept. 22, 40.76; Nov. 22, 39.76.

523. Frances M. Hancock. SW¼SW¼SW¼ sec. 24, T. 4 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 29	24.08	May 20	23.51	Sept.22	24.73
Mar. 21	23.69	July 27	24.06	Nov. 21	24.61

525. V. V. Cosner. NE¼NE¼SE¼ sec. 27, T. 4 N., R. 24 E. Measurements discontinued.

526. Elmer E. Thompson. SW¼SE¼SW¼ sec. 30, T. 4 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 29	40.78	May 21	40.74	Sept.22	40.83
Mar. 20	40.74	July 26	40.76	Nov. 22	40.80

527. Mrs. Ellen F. Williams. SW¼NW¼NW¼ sec. 30, T. 4 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 29	47.51	May 21	48.09	Sept.22	47.77
Mar. 20	47.45	July 26	47.73	Nov. 22	47.70

528. Oklahoma Electric and Water Co. NE¼SW¼ sec. 7, T. 4 N., R. 24 E. (Erroneously reported as NW¼SE¼ in Water-Supply Paper 886.)
Lowest daily water level, in feet below measuring point, on selected dates, 1940
(from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	20.36	Mar. 11	19.81	May 17 a	19.55	June 3	19.35
8	20.33	18	19.76	18 b	19.54	5	19.42
14	20.32	25	19.72	19 c	19.50	6 d	19.40
22	20.29	Apr. 1	19.69	20	19.38	7	19.25
29	20.29	8	19.71	21	19.32	10 e	19.30
Feb. 5	20.29	14	19.69	22	19.29	11	19.26
12	20.22	22	19.56	23	19.26	12	19.17
19	20.09	29	19.53	24	19.25	14	19.13
26	19.96	May 6	19.55	28	19.31	17	19.21
Mar. 4	19.87	13	19.53	30	19.26	24	19.50

a Precipitation at Beaver and upstream stations, 0.27 inch to 2.15 inches.
b Precipitation at Beaver and upstream stations, 0.86 inch to 2.12 inches.
c North Canadian River in flood.
d Precipitation at Beaver, 1.35 inches.
e Precipitation at Beaver and upstream stations, 1.08 inches to 2.13 inches.

Beaver County--Continued.

528.--Continued.

Lowest daily water level, in feet below measuring point, on selected dates, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 1	19.85	Aug. 17	19.57	Oct. 7	20.59	Nov. 25	20.45
8	20.09	18 b	19.46	14	20.64	27 c	20.44
15	20.37	19	19.53	21	20.60	30	20.38
22	20.62	26	20.03	28	20.58	Dec. 2	20.34
29	20.82	Sept. 2	20.35	Nov. 1	20.57	9	20.22
Aug. 5	20.96	9	20.50	8	20.53	16	20.11
10	20.98	16	20.65	11	20.52	23	20.08
15 a	20.88	22	20.78	18	20.47	31	19.98
16	20.78	30	20.60				

573. Federal Land Bank (Wichita). NW¼NW¼NW¼ sec. 34, T. 4 N., R. 28 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 30	17.40	May 20	16.56	Sept.21	16.75
Mar. 21	16.95	July 27	16.79	Nov. 21	16.82

576. J. C. Peters. SE¼SE¼SW¼ sec. 2, T. 5 N., R. 20 E.

Water level, in feet below measuring point, 1940

Jan. 27	160.04	May 22	160.39	Sept.23	159.99
Mar. 22	160.26	July 26	160.04		

577. W. A. Naylor. NE¼NE¼SE¼ sec. 19, T. 5 N., R. 20 E.

Water level, in feet below measuring point, 1940

Jan. 27	141.21	May 22	141.20	Sept.23	141.06
Mar. 22	141.20	July 25	141.04	Nov. 22	141.10

578. J. M. Cleek. NW¼NW¼NE¼ sec. 34, T. 5 N., R. 20 E. Bench mark set in 1939 was destroyed in 1940. Measuring point is 1.2 feet below U. S. Coast and Geodetic Survey bench mark R-10, which is 385 feet northwest of well on north side of U. S. Highway 64, beside corner post of former fence. Water levels, in feet below measuring point, 1940: May 22, 141.35; Nov. 22, 141.20.

591. A. J. Isaac. SE¼SE¼SE¼ sec. 12, T. 5 N., R. 21 E.

Water level, in feet below measuring point, 1940

Jan. 27	192.96	May 21	192.96	Sept.23	192.86
Mar. 22	193.05	July 26	192.66	Nov. 22	192.79

593. Ada Allred. SE¼SE¼SE¼ sec. 17, T. 5 N., R. 21 E.

Water level, in feet below measuring point, 1940

Jan. 27	172.46	May 21	172.35	Sept.23	172.39
Mar. 22	172.43	July 26	172.28	Nov. 22	172.29

611. David Potter. SE¼SE¼NE¼ sec. 2, T. 5 N., R. 22 E. Water levels, in feet below measuring point, 1940: Jan. 27, 181.56; Mar. 21, 181.32; May 21, 180.72.

613. T. J. Trew. SE¼SE¼SE¼ sec. 13, T. 5 N., R. 22 E.

Water level, in feet below measuring point, 1940

Jan. 27	68.30	May 21	66.36	Sept.23	66.25
Mar. 21	66.16	July 26	65.99	Nov. 22	66.45

a North Canadian River in flood.
b Reached high level at 19.42.
c Precipitation at Beaver and upstream stations, Nov. 19-26, 2.49 inches to 3.31 inches.

Beaver County--Continued.

614. Mrs. B. W. Lewis. SW¼SE¼SE¼ sec. 14, T. 5 N., R. 22 E. Water level, in feet below measuring point, 1940: May 21, 91.74.

616. Walter C. Fincher. SE¼SE¼SE¼ sec. 16, T. 5 N., R. 22 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 30	158.74	May 21	158.73	Sept.23	158.80
Mar. 21	158.74	July 26	158.53	Nov. 22	158.63

617. Minnie B. Dorman, et al. SW¼NE¼NE¼ sec. 20, T. 5 N., R. 22 E.
Water level, in feet below measuring point, 1940

Jan. 30	169.77	May 21	169.67	Sept.22	169.49
Mar. 22	169.85	July 26	169.35	Nov. 22	169.49

618. Central Life Assurance Society. NW¼NE¼NE¼ sec. 21, T. 5 N., R. 22 E.
Water level, in feet below measuring point, 1940

Jan. 30	156.22	May 21	156.18	Sept.23	156.01
Mar. 21	156.04	July 26	155.85	Nov. 22	156.04

619. Bank of Idana, Kansas. SE¼SE¼SE¼ sec. 23, T. 5 N., R. 22 E.
Water level, in feet below measuring point, 1940

Jan. 27	82.09	May 21	80.85	Sept.23	80.38
Mar. 21	81.98	July 26	80.45	Nov. 22	80.94

631. George W. Dubois. SE¼SE¼SW¼ sec. 4, T. 5 N., R. 23 E.
Water level, in feet below measuring point, 1940

Jan. 27	112.82	May 21	112.70	Sept.22	112.78
Mar. 21	112.75	July 26	112.65	Nov. 22	112.67

635. A. E. Shillingburg. NW¼NE¼NW¼ sec. 25, T. 5 N., R. 23 E.
Water level, in feet below measuring point, 1940

Jan. 29	62.72	May 21	62.77	Sept.22	62.66
Mar. 20	62.72	July 26	62.66	Nov. 22	62.67

636. Central Life Assurance Society. NE¼NE¼NE¼ sec. 18, T. 5 N., R. 23 E.
Water level, in feet below measuring point, 1940

Jan. 27	112.38	May 21	112.26	Sept.22	112.53
Mar. 21	112.13	July 26	112.69	Nov. 22	112.27

647. Gilbert Hodges. SW¼SW¼SW¼ sec. 8, T. 5 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 27	52.94	May 20	52.92	Sept.22	52.96
Mar. 21	52.93	July 26	52.92	Nov. 22	53.00

648. John Angleton. SW¼SW¼SW¼ sec. 19, T. 5 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 27	8.24	May 21	7.72	Sept.22	7.99
Mar. 20	8.22	July 26	8.46	Nov. 22	8.14

649. Arthur Williams. NW¼SW¼SW¼ sec. 30, T. 5 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 29	10.38	May 21	9.67	Sept.22	10.90
Mar. 20	10.13	July 26	11.16	Nov. 22	10.61

766. George W. Elliott. SE¼SE¼SE¼ sec. 14, T. 6 N., R. 23 E. Measurements discontinued.

Beaver County--Continued.

767. Robert F. LeCrone. SE¼NE¼NE¼ sec. 24, T. 6 N., R. 23 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 27	76.54	May 20	75.96	Sept.22	75.89
Mar. 21	76.29	July 26	75.73	Nov. 22	75.55

777. J. H. Neese. NW¼SW¼SE¼ sec. 20, T. 6 N., R. 24 E.
Water level, in feet below measuring point, 1940

Jan. 27	30.57	May 20	30.97	Sept.22	30.78
Mar. 21	30.69	July 26	30.77	Nov. 22	30.97

Blaine County

1. Oklahoma City Water Department observation well E. NE¼ sec. 27, T. 16 N., R. 12 W., on flood plain of North Canadian River, 200 feet east of channel on south side of bridge, 2.5 miles west of Watonga on U. S. Highway 270. Jetted well, depth 10.7 feet, diameter 2 inches. Measuring point, top of pipe, 2 feet above land surface, and 15.95 feet below bench mark, which is cross chiseled on top of northeast corner of eastern concrete abutment of bridge, 1491.05 feet above sea level.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	9.90	Mar. 2, 1940	9.30	June 23, 1940	7.48
Jan. 12, 1940	9.70	Apr. 2	9.45	Aug. 9	9.60
Feb. 4	9.58	May 9	8.24	Nov. 20	9.75
24	9.25	20	7.98		

2. Oklahoma City Water Department observation well F. Near NE cor. sec. 9, T. 18 N., R. 13 W., on flood plain of North Canadian River, 20 feet southwest of channel on southeast side of bridge in northeast corner of Canton. Jetted well, depth 10.9 feet, diameter 2 inches. Measuring point, top of pipe, 1.4 feet above land surface, and 5.68 feet below bench mark of U. S. Army Engineers which is in top of south side of east pier of bridge.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	10.80	Mar. 2, 1940	9.90	June 23, 1940	7.66
Jan. 12, 1940	10.50	Apr. 2	10.15	Aug. 9	9.60
Feb. 4	10.33	May 9	10.21	Nov. 20	10.42
24	9.90				

Canadian County

1. Oklahoma City Water Department observation well A. SW¼SW¼ sec. 4, T. 12 N., R. 5 W., on flood plain of North Canadian River, 10 feet south of south end of Piedmont Bridge, 2 miles north of Yukon. Jetted well, depth 17.5 feet, diameter 2 inches. Measuring point, top of pipe, 0.6 foot above land surface and 2.31 feet above bench mark, which is cross chiseled in top of east center concrete pier of bridge, 1259.29 feet above sea level. Measurements from Dec. 15, 1939, through Apr. 1, 1940, were made in a similar well, 8.6 feet in depth, in middle of river channel on downstream side of bridge. These measurements have been referred to the measuring point of the present well.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	11.9	Mar. 2, 1940	10.7	May 20, 1940	(a)
Jan. 12, 1940	10.4	Apr. 2	11.15	June 23	6.18
Feb. 4	10.46	12	10.1	Aug. 9	9.95
24	10.7	May 9	10.55	Nov. 20	10.5

a Dry.

Canadian County--Continued.

2. Oklahoma City Water Department observation well B. NW¼ sec. 33, T. 13 N., R. 7 W., on flood plain of North Canadian River under bridge 2 miles north of El Reno on U. S. Highway 81. Jetted well, depth 23 feet, diameter 2 inches. Measuring point, top of pipe, 0.7 foot above land surface and 16.92 feet below bench mark, which is cross chiseled in top of northwest wing wall of bridge, 5 feet west and 2.35 feet south of northwest corner of bridge. Bench mark, 1326.89 feet above sea level. Measurements from Dec. 15, 1939, through Apr. 1, 1940, and occasional measurements thereafter, were made in a similar well, 9.1 feet in depth, in river channel at south bank. These measurements have been referred to the measuring point of the present well.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 15, 1939	17.62	Apr. 2, 1940	(a)	May 20, 1940	11.63
Jan. 12, 1940	16.77	11	20.42	June 23	15.74
Feb. 4	17.05	12	20.9	Aug. 9	17.35
24	13.37	May 9	10.47	Nov. 20	(b)
Mar. 2	(a)				

3. Oklahoma City Water Department observation well C. SW¼SW¼ sec. 1, T. 13 N., R. 9 W., on flood plain of North Canadian River at southeast corner of bridge on county road 1.5 miles north of Calumet, 8 feet south of south bank of river and 8.8 feet above bottom of channel. Jetted well, depth 11 feet, diameter 2 inches. Measuring point, top of pipe, 1 foot above land surface and 9.16 feet below bench mark, which is bolt in northwest wing wall of bridge.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	10.30	Mar. 2, 1940	9.60	May 20, 1940	9.45
Jan. 12, 1940	9.60	Apr. 2	9.60	June 23	8.07
Feb. 4	9.92	11	8.0	Aug. 9	9.95
24	9.30	May 9	9.30	Nov. 20	10.10

4. Oklahoma City Water Department observation well D. NW¼NW¼ sec. 16, T. 14 N., R. 10 W., on flood plain beside channel of North Canadian River, 50 feet west of east end of bridge 5 miles north and 2 miles east of Geary. Jetted well, depth 9.2 feet, diameter 2 inches. Measuring point, top of pipe, 0.7 foot above land surface and 7.5 feet below bench mark, which is hole in top of south end of eastern concrete pier of bridge.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	9.30	Mar. 2, 1940	8.90	June 23, 1940	7.70
Jan. 12, 1940	9.20	Apr. 2	9.20	Aug. 9	9.05
Feb. 4	9.04	May 9	8.71	Nov. 20	(c)
24	8.90	20	8.65		

Cimarron County

66. C. K. Womack. NW¼SE¼SE¼ sec. 34, T. 1 N., R. 5 E.

Water level, in feet below measuring point, 1940

Jan. 22	83.95	May 25	83.94	Sept.26	83.86
Mar. 26	83.94	July 22	83.91	Dec. 4	83.89

129. George Camilli. NE¼NE¼SE¼ sec. 2, T. 2 N., R. 2 E.

Water level, in feet below measuring point, 1940

Jan. 22	169.86	May 27	169.85	Sept.27	169.78
Mar. 27	169.78	July 22	169.75	Nov. 25	169.74

a Dry; filled with sand to depth of 9.1 feet.
b Dry; filled with sand to depth of 17.2 feet.
c Dry; filled with sand to depth of 9 feet.

Cimarron County--Continued.

148. T. A. Peters. SE¼SE¼SW¼ sec. 5, T. 2 N., R. 5 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 22	25.11	May 25	24.95	Sept.26	25.57
Mar. 26	25.17	July 22	25.33	Dec. 4	25.69

153. Edmund B. Rogers. SE¼SE¼SE¼ sec. 32, T. 2 N., R. 5 E.

Water level, in feet below measuring point, 1940

Jan. 22	97.40	May 25	97.36	Sept.26	97.29
Mar. 26	97.35	July 22	97.35	Dec. 4	97.33

219. E. R. Morse. SW¼SW¼SW¼ sec. 9, T. 3 N., R. 1 E.

Water level, in feet below measuring point, 1940

Jan. 22	177.87	May 27	177.95	Sept.27	(a)
Mar. 27	177.80	July 22	177.90		

223. E. C. Jones. SE¼NE¼NE¼ sec. 19, T. 3 N., R. 1 E. Water levels, in feet below measuring point, 1940: Mar. 27, 142.00; Sept. 27, 142.95; Nov. 25, 142.15.

224. Walter R. Wood. NE¼SE¼SE¼ sec. 15, T. 3 N., R. 1 E.

Water level, in feet below measuring point, 1940

Jan. 22	140.32	May 27	140.25	Sept.27	140.14
Mar. 27	140.09	July 22	140.33	Nov. 25	140.00

237. Central Life Assurance Society. NE¼NE¼NE¼ sec. 36, T. 3 N., R. 1 E.

Water level, in feet below measuring point, 1940

Jan. 22	67.10	May 27	67.06	Sept.27	66.75
Mar. 27	66.96	July 22	66.80	Nov. 25	66.60

240. J. E. Benson. SE¼SW¼SW¼ sec. 8, T. 3 N., R. 2 E. Water levels, in feet below measuring point, 1940: Jan. 22, 159.70; Sept. 27, 159.56.

262. H. W. and Z. B. Stone. SE¼SE¼SW¼ sec. 12, T. 3 N., R. 4 E. Water levels, in feet below measuring point, 1940: Mar. 27, 181.92; May 25, 181.97.

263. John Ohnick, Jr. SE¼SW¼SW¼ sec. 15, T. 3 N., R. 4 E.

Water level, in feet below measuring point, 1940

Jan. 22	128.71	May 25	128.69	Sept.26	128.63
Mar. 27	128.72	July 22	128.70	Nov. 25	128.60

274. C. Rollins. NE¼SE¼SE¼ sec. 8, T. 3 N., R. 5 E. Measurements discontinued.

275. O. A. Showalter. SW¼NW¼NW¼ sec. 11, T. 3 N., R. 5 E. Measuring point, 0.88 foot below bench mark and 0.27 foot above original measuring point.

Water level, in feet below original measuring point, 1940

Jan. 22	146.40	May 24	146.35	Sept.26	146.41
Mar. 26	146.36	July 22	146.38	Nov. 26	146.47

276. Atchison, Topeka, and Santa Fe Railroad. NW¼SW¼ sec. 14, T. 3 N., R. 5 E.

Water level, in feet below measuring point, 1940

Jan. 22	133.70	May 25	133.72	Sept.26	133.76
Mar. 26	133.67	July 22	133.72	Nov. 26	133.85

a Caved in; measurements discontinued.

Cimarron County--Continued.

282. Minnie Cook. NE¼NW¼NW¼ sec. 20, T. 3 N., R. 5 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 22	159.83	May 25	159.85	Sept.26	159.74
Mar. 26	159.77	July 22	159.83	Dec. 4	159.87

309. Mrs. Wesley Burch. NW¼NW¼NW¼ sec. 3, T. 3 N., R. 7 E. Measurements discontinued after May because well was fitted with a sanitary seal. Altitude of measuring point used in March and May may have differed from original by a few hundredths of a foot. Water levels, in feet below measuring point, 1940: Jan. 24, 72.70; Mar. 25, 72.50; May 24, 72.36.

313. E. J. Behrendt. NW¼NW¼NW¼ sec. 9, T. 3 N., R. 7 E.

Water level, in feet below measuring point, 1940

Jan. 23	a 46.87	May 24	46.98	Sept.26	a 47.22
Mar. 25	a 46.80	July 23	47.20	Dec. 4	a 47.35

328. L. G. Miles. SE¼SE¼NE¼ sec. 7, T. 3 N., R. 8 E. No measurements made in 1940.

338. Federal Land Bank. SW¼SE¼NE¼ sec. 14, T. 3 N., R. 9 E.

Water level, in feet below measuring point, 1940

Jan. 24	183.77	May 24	183.41	Sept.25	183.81
Mar. 25	183.32	July 23	183.54	Dec. 4	183.48

384. R. A. Godown. NW¼NW¼SW¼ sec. 13, T. 4 N., R. 5 E. Water level, in feet below measuring point, 1940: Jan. 23, 155.35. Measurements discontinued.

387. F. M. Tudor. SE¼SW¼SE¼ sec. 28, T. 4 N., R. 5 E. Well was put in service in 1940, and measuring point was shifted several times during repair operations. On Nov. 26 it was 0.50 foot below the bench mark and 0.07 foot below the original measuring point.

Water level, in feet below measuring point, 1940

Mar. 27	169.91	July 22	b 169.96	Nov. 26	170.10
May 25	169.94	Sept.26	b 169.92		

398. Central Life Assurance Society. SE¼SW¼SW¼ sec. 24, T. 4 N., R. 6 E.

Water level, in feet below measuring point, 1940

Jan. 23	113.18	May 24	112.95	Sept.26	112.90
Mar. 26	113.03	July 23	112.98		

415. A. E. Buck. NW¼SW¼ sec. 23, T. 4 N., R. 7 E. Willowbar Lake was very low in March, and was dry through the rest of the year.

Water level, in feet below measuring point, 1940

Jan. 23	75.78	May 24	75.85	Sept.26	75.86
Mar. 26	75.87	July 23	75.81	Dec. 4	75.82

418. T. F. Phillips. NW¼NW¼NW¼ sec. 29, T. 4 N., R. 7 E.

Water level, in feet below measuring point, 1940

Jan. 23	112.98	May 24	111.55	Sept.26	112.51
Mar. 26	112.34	July 23	112.44	Nov. 26	112.51

435. B. J. Wiggins. SW¼SW¼SW¼ sec. 26, T. 4 N., R. 8 E.

Water level, in feet below measuring point, 1940

Jan. 23	138.27	May 24	137.78	Sept.25	138.48
Mar. 24	138.00	July 23	137.99	Nov. 26	138.34

a Adjacent pond dry.

b Altitude of measuring point unknown; possible error may be a few hundredths of a foot.

Cimarron County--Continued.

436. Mrs. S. C. Cantrell. NE¼NE¼NE¼ sec. 32, T. 4 N., R. 8 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 23	153.76	May 24	153.38	Sept.25	152.63
Mar. 25	152.68	July 23	152.58	Nov. 26	151.81

500. Dan Eiland, Sr. SE¼ sec. 12, T. 5 N., R. 4 E., on flood plain of Cimarron River. Dug well, depth 26 feet, diameter 10⅛ inches. Used weekly in summer for irrigation of 1-acre garden. Measuring point, edge of casing on northeast side, 2 feet below land surface and 2.61 feet below bench mark, which is spike driven vertically in northwest side of 6-inch cottonwood tree 24 feet northwest of well. Water level, in feet below measuring point, 1940: Nov. 26, 9.27.

506. Bernard N. North. S½SE¼ sec. 4, T. 5 N., R. 5 E. (revised location). The measuring point used in 1940 was temporary because of work on the well, but it probably was within a few hundredths of a foot of the level of the original point. After May the well caved in. Water levels, in feet below measuring point, 1940: Jan. 23, 13.41; Mar. 26, 13.08; May 25, 13.04.

516. State of Oklahoma. SE¼ sec. 34, T. 5 N., R. 5 E. Oil drum used as well cover and measuring point was knocked over prior to the July measurement. It was replaced in temporary position for that measurement, but was disturbed again before the altitude of the measuring point could be determined. As replaced early in August, the measuring point was 3.06 feet below the bench mark and 0.80 foot below original measuring point.

Water level, in feet below original measuring point, 1940

Jan. 23	8.58	May 25	7.83	Sept.26	8.00
Mar. 26	7.88	July 22	a 8.90	Nov. 26	11.95

528. Alliance Insurance Co. NW¼ sec. 4, T. 5 N., R. 7 E. Water levels, in feet below measuring point, 1940: Mar. 26, 20.48; Dec. 4, 20.15.

610. Mrs. L. K. Bangerter. SW¼NE¼NE¼ sec. 21, T. 6 N., R. 5 E.
Water level, in feet below measuring point, 1940

Jan. 23	33.02	May 25	34.55	Sept.26	29.59
Mar. 26	33.58	July 22	32.13	Nov. 26	30.86

Cleveland County

1. B. B. Leverich. NW¼SW¼ sec. 28, T. 10 N., R. 3 W. Water levels for 1939, reported in terms of feet above a datum in Water-Supply Paper 886, are repeated here in feet below measuring point.

Water level, in feet below measuring point, 1939-40

Mar. 31, 1939	15.29	Feb. 17, 1940	16.80	June 24, 1940	16.93
May 29	16.03	24	16.42	30	16.81
June 7	15.58	Mar. 2	15.72	July 6	16.26
Sept.12	15.05	9	16.05	13	16.16
21	15.28	16	16.06	20	15.96
Oct. 16	16.15	23	16.61	27	15.83
21	15.47	30	16.58	Aug. 3	15.98
28	16.09	Apr. 2	16.70	8	15.95
Nov. 4	16.24	10	16.96	Sept.15	15.93
14	15.77	13	16.88	Oct. 9	16.60
Jan. 13, 1940	16.07	20	16.25	Nov. 27	15.78
20	16.52	27	16.86	Dec. 7	15.16
27	16.56	May 4	16.17	16	15.10
Feb. 3	17.08	11	16.15	23	14.71
10	16.60	June 21	17.03		

a Temporary measuring point.

Harper County

1. E. W. Johnson. NW¼NW¼NW¼ sec. 18, T. 26 N., R. 25 W., on flood plain of Kiowa Creek, about 0.5 mile south of channel and 2.75 miles southwest of junction with North Canadian River. Drilled well, depth 30 feet, diameter 19 inches. Used for irrigation. Initial measurement was obtained shortly after completion of well and before regular irrigation was begun. Measuring point, east edge of casing at lap joint, 8 feet below land surface and 8.18 feet below top of concrete well curb. Water levels, in feet below measuring point, 1940: June 11, 4.5; Nov. 27, 5.06.

Major County

1. Oklahoma City Water Department observation well G. NW¼NW¼ sec. 28, T. 20 N., R. 16 W., on flood plain of North Canadian River on east side of bridge on State Highway 14 north of Seiling. Jetted well, depth 9.8 feet, diameter 2 inches. Measuring point, top of pipe, 2.7 feet above land surface and 9.63 feet below bench mark, which is cross chiseled on southwest wing wall of bridge.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 15, 1939	9.10	Mar. 2, 1940	7.58	June 23, 1940	6.46
Jan. 12, 1940	8.80	Apr. 2	8.05	Aug. 9	9.95
Feb. 4	8.64	May 9	7.54	Nov. 20	(b)
24	7.55	20	a 3.93		

PAYNE COUNTY

STILLWATER CREEK AREA OF SOIL CONSERVATION SERVICE

The observation-well program in the Stillwater Creek area,[5] near Stillwater, Payne County, Okla., was continued through the first half of 1940 by the Soil Conservation Service under the direction of Albert E. Wade, acting technician in charge. The water-level measurements during this part of the year were made by J. Frank Relf, associate agricultural engineer. The Soil Conservation Service, however, was unable to continue the work after July 1 because of reduction in personnel at Stillwater, and the responsibility for the work was assumed by Dr. H. J. Harper, of the Department of Agronomy of Oklahoma Agricultural and Mechanical College. The water-level measurements in the last half of the year were made by Dr. M. J. Plice, also of the Department of Agronomy. In 1940 he and Mr. Relf made 169 water-level measurements in 14 observation wells in the area.

The water levels for the Stillwater area are given in feet above assumed datum planes that were established 10 feet below the water level in each well on January 1, 1935. The average water levels usually are computed from the measurements made in 12 wells (1-4, 7-9, 11-13, 15, and 17), but at times have been more or less irregular because of the omission

a River in flood. b Dry; filled with sand to depth of 8.25 feet.

5/ See Water-Supply Papers 777,817, 840, 845, and 886.

of wells in use or wells temporarily dry. Several irregularities occur in the averages for 1940 because well 8 was in use throughout the year, well 9 was in use from July through December, and well 11 was dry except in June, August, November and December.

Fluctuations of Water Level, 1934-40

From June 1934 through 1940 the average water levels for the observation wells in the Stillwater Creek Basin have been characterized by prompt fluctuations in response to periods of heavy precipitation. They have also shown the effects of general trends in precipitation. The precipitation in the area was generally below the normal from early 1936 until early 1938, and the average water level declined persistently in response to the accumulating deficiency in precipitation. The annual lowest water level has occurred in the fall or winter, but the annual highest water level has occurred on various dates because of the temporary influence of heavy storms.

Yearly highest and lowest average water levels in observation wells, 1935-40

Year	Date of highest water level	Date of lowest water level
1935	July 1	December 2
1936	February 3	September 21
1937	April 5 and June 21	November 22
1938	March 28	January 31
1939	May 24	October 11
1940	December 28	September 26

On June 2, 1934, when the measurements were begun, the average water level was 10.77 feet above assumed datum planes. It declined until August 26-31, reaching the level of 8.74 feet, and then rose to the record high level of 11.80 feet on July 1, 1935. Thereafter the average water level declined, at first rapidly until October 1935 and then more slowly through 1936 and 1937, until it reached 6.98 feet on January 31, 1938. From this level it rose slowly to 8.92 feet on June 27, 1938, declined to 7.65 feet on March 1, 1939, and then rose to 8.32 feet on May 24, 1939. Drought through the summer of 1939 caused a decline to 6.62 feet on October 11, the second lowest level recorded, but the water level rose somewhat toward the end of 1939. In the first 8 months of 1940 there were several fluctuations in the average water level, without a significant general trend, followed by a decline to the lowest recorded level--6.50 feet on September 6.

Thereafter the water level rose steadily in response to unusually heavy fall precipitation, and reached 7.57 feet, the high level for the year, on December 28.

Water levels, in feet above datum planes, 1940

Date	1	2	3	4	5	7	8	9
Jan. 1	7.10	7.93	3.12	6.56	....	5.97	a 5.69	7.87
Feb. 3	7.07	7.75	3.09	6.50	....	5.91	a 4.19	7.38
26	7.31	8.11	3.21	6.44	....	5.93	a 2.60	7.07
Mar. 29-30	7.45	8.34	2.89	6.32	....	5.88	a 5.93	6.16
Apr. 29-30	7.97	9.58	3.04	6.32	8.68	6.28	a 6.13	6.08
May 27-28	8.30	9.31	3.24	6.29	8.57	6.29	a 0.01	6.28
June 26-27	7.98	9.43	3.47	6.29	8.59	6.28	a 2.93	6.68
July 26	7.62	9.35	3.49	6.26	8.59	5.53	a 0.30	a 0.48
Aug. 26-27	7.67	9.08	3.51	6.23	9.02	5.56	a-6.52	a 1.49
Sept. 26	7.11	9.23	3.28	6.27	8.72	5.30	a-1.21	a 3.92
Oct. 26	6.98	8.99	3.12	6.39	8.73	5.04	a 2.40	a 3.32
Nov. 29	8.33	10.27	3.14	6.51	13.25	5.22	a 5.27	a 5.99
Dec. 28	9.76	11.85	3.33	6.48	12.87	5.44	a 3.08	a 7.77

Water levels, in feet above datum planes, 1940

Date	11	12	13	15	16	17	Average
Jan. 1	(b)	7.56	7.39	8.32	9.20	9.02	7.08
Feb. 3	(b)	7.40	7.42	8.67	8.95	8.95	7.01
26	(b)	7.35	7.48	8.88	9.01	9.08	7.09
Mar. 29-30	(b)	7.21	7.20	8.43	8.76	9.27	6.91
Apr. 29-30	(b)	8.03	7.24	8.45	9.94	10.24	7.32
May 27-28	(b)	7.74	7.06	8.40	9.15	10.46	7.34
June 26-27	3.28	7.99	7.28	8.69	9.05	10.27	7.06
July 26	(b)	7.69	7.23	8.54	9.06	9.83	c 7.28
Aug. 26-27	3.49	7.41	7.27	8.61	9.15	9.32	c 6.81
Sept. 26	(b)	7.10	6.95	8.11	9.07	5.17	c 6.50
Oct. 26	(b)	6.95	7.04	8.37	9.13	8.84	c 6.86
Nov. 29	3.57	7.15	7.23	8.41	11.32	10.12	c 6.99
Dec. 28	4.19	8.41	7.10	8.35	9.59	10.76	c 7.57

Texas County

40. August Lorenz. NE¼NW¼ sec. 6, T. 3 N., R. 17 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 26	91.11	May 22	91.23	Sept. 23	91.16
Mar. 22	91.11	July 25	91.17	Nov. 23	91.31

60. J. E. Friesen. SW¼NW¼ sec. 3, T. 3 N., R. 18 E. No measurements made in 1940.

72. William L. Ziegler. SW¼NW¼ sec. 33, T. 4 N., R. 14 E. No measurements made in 1940.

85. George Dean. SE¼NE¼ sec. 34, T. 4 N., R. 11 E. Adjacent lake was dry at all times when measurements were made.

Water level, in feet below measuring point, 1940

Jan. 24	42.39	May 24	42.53	Sept. 25	42.33
Mar. 25	42.43	July 23	42.21	Dec. 4	42.37

a In use. b Dry. c Well 9 omitted.

Texas County--Continued.

120. Joe Gribble. NE¼NE¼ sec. 2, T. 5 N., R. 14 E. Water levels, in feet below measuring point, 1940: Jan. 25, 196.36; Sept. 24, 196.33.

125. J. Donald Hughes. SW¼SE¼SW¼ sec. 13, T. 1 N., R. 18 E. Water levels, in feet below measuring point, 1940: Mar. 20, 1.98; Nov. 23, 3.00.

130. Robert Johnson. SE¼NW¼ sec. 7, T. 1 N., R. 19 E. Water levels, in feet below measuring point, 1940: Mar. 20, 2.77; Nov. 23, 2.61.

138. Joe Sutton. SW¼SE¼ sec. 6, T. 1 N., R. 19 E. Measuring point 0.32 foot lower than in 1939 because top ring of concrete casing was destroyed. Water levels, in feet below original measuring point, 1940: Mar. 20, 2.08; Nov. 23, 3.02.

167. Owner unknown. SW¼SE¼SE¼ sec. 34, T. 2 N., R. 12 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 25	190.59	May 23	190.68	Sept.25	190.80
Mar. 25	190.59	July 24	190.40	Dec. 5	190.50

172. Owner unknown. SE¼SE¼NE¼ sec. 25, T. 2 N., R. 13 E.
Water level, in feet below measuring point, 1940

Jan. 25	120.65	May 23	121.32	Sept.24	122.00
Mar. 23	120.68	July 24	121.72	Nov. 23	121.72

176. W. N. Ballinger. SW¼SW¼ sec. 18, T. 3 N., R. 15 E.
Water level, in feet below measuring point, 1940

Jan. 25	2.35	May 22	0.69	Sept.24	2.92
Mar. 23	1.94	July 24	3.05	Dec. 4	2.36

182. Panhandle Agricultural and Mechanical College. NE¼NE¼SE¼ sec. 34, T. 2 N., R. 13 E.
Water level, in feet below measuring point, 1940

Jan. 25	137.84	May 23	b 138.87	Sept.24	d 141.66
Mar. 23	a 137.86	July 24	c 141.35	Nov. 23	a 140.46

187. John Gill. SE¼NW¼ sec. 12, T. 3 N., R. 15 E.
Water level, in feet below measuring point, 1940

Jan. 26	5.06	May 22	4.32	Sept.24	5.29
Mar. 22	4.78	July 25	5.63	Nov. 23	4.91

188. Kuhn Brothers. NW¼ sec. 1, T. 2 N., R. 14 E.
Water level, in feet below measuring point, 1940

Jan. 26	125.04	May 22	124.98	Sept.24	124.90
Mar. 23	125.03	July 24	124.75	Dec. 5	124.89

270. Owner unknown. NW¼SW¼ sec. 7, T. 3 N., R. 11 E.
Water level, in feet below measuring point, 1940

Jan. 24	73.76	May 24	73.21	Sept.25	72.79
Mar. 25	73.13	July 23	72.80	Dec. 4	72.84

284. Paul Spradlin. NE¼NE¼NE¼ sec. 5, T. 3 N., R. 12 E.
Water level, in feet below measuring point, 1940

Jan. 24	102.44	May 24	102.39	Sept.25	102.40
Mar. 25	102.37	July 23	102.36	Nov. 27	102.43

a Southern town well pumping.
b Southern town well idle; northern town well shut off 1 hour; campus irrigation well shut off 2 hours.
c Both town wells and campus irrigation well pumping.
d Southern town well and campus irrigation well pumping.

Texas County--Continued.

286. William Webb. SW¼SW¼ sec. 9, T. 3 N., R. 12 E.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 24	23.85	May 24	20.42	Dec. 4	23.89
Mar. 25	23.82	Sept.25	23.32		

294. Stonebraker-Zea ranch. NW¼NW¼ sec. 25, T. 3 N., R. 13 E. Water levels, in feet below measuring point, 1940: Mar. 25, 43.07; May 24, 43.11; July 24, 43.19; Dec. 5, 43.29.

295. E. O. Hobson. SW¼NW¼ sec. 14, T. 3 N., R. 15 E.
Water level, in feet below measuring point, 1940

Jan. 26	11.72	May 22	b 10.87	Sept.24	d 12.19
Mar. 22	a 11.47	July 25	c 11.67	Nov. 23	e 11.68

307. Henry Behne. NE¼NE¼NE¼ sec. 5, T. 3 N., R. 14 E. Measurements discontinued.

308. Charles Reust. SE¼SE¼SE¼ sec. 5, T. 3 N., R. 14 E.
Water level, in feet below measuring point, 1940

Jan. 24	69.80	May 23	69.80	Sept.25	69.86
Mar. 25	69.80	July 23	69.81	Dec. 4	69.83

323. Mrs. Bostwick. SW¼SE¼ sec. 1, T. 3 N., R. 16 E.
Water level, in feet below measuring point, 1940

Mar. 22	22.61	July 25	22.26	Nov. 23	22.91
May 22	22.43	Sept.24	22.64		

324. Anna Calvert. SW¼SW¼ sec. 2, T. 3 N., R. 16 E.
Water level, in feet below measuring point, 1940

Mar. 22	95.78	July 25	95.86	Nov. 23	95.91
May 22	95.85	Sept.27	95.90		

325. Ensten. NW¼NW¼ sec. 2, T. 3 N., R. 16 E.
Water level, in feet below measuring point, 1940

Jan. 26	105.31	May 22	105.33	Sept.24	105.45
Mar. 22	105.18	July 25	105.35	Nov. 23	105.45

332. Owner unknown. SW¼SE¼ sec. 17, T. 3 N., R. 15 E.
Water level, in feet below measuring point, 1940

Jan. 25	69.90	May 22	68.82	Sept.24	69.62
Mar. 22	69.27	July 24	69.30	Nov. 23	70.37

350. C. A. Nash. NW¼NW¼ sec. 18, T. 3 N., R. 16 E. Water levels, in feet below measuring point, 1940: Mar. 23, 2.65; May 23, 2.50; July 25, 4.05; Sept. 25, 3.51.

354. A. M. Fankhauser. SE¼SW¼ sec. 27, T. 6 N., R. 15 E. Water level, in feet below measuring point, 1940: Dec. 5, 148.78.

386. Frank Roten. SE¼SE¼ sec. 3, T. 2 N., R. 14 E.
Water level, in feet below measuring point, 1940

Jan. 26	102.02	May 22	101.94	Sept.24	101.86
Mar. 23	102.02	July 24	102.03	Dec. 5	101.98

a Last pumped 8 hours prior to measurement.
b Last pumped 7⅛ hours prior to measurement.
c Last pumped (25 gallons) ⅛ hour prior to measurement.
d Last pumped 2⅛ hours prior to measurement.
e Last pumped 1 hour prior to measurement.

Texas County--Continued.

399. Andrew Bender. NE¼SE¼ sec. 26, T. 2 N., R. 14 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 26	127.66	May 23	127.60	Sept.24	127.56
Mar. 23	127.58	July 24	127.53		

404. Everett J. Ritter. NW¼NE¼ sec. 4, T. 1 N., R. 14 E. Water levels, in feet below measuring point, 1940: Mar. 23, 166.93; May 23, 166.95 (windmill shut off 12 hours); Sept. 24, 166.96; Dec. 5, 166.80 (windmill shut off 22 hours).

436. Leo Holtgraver. NE¼NE¼ sec. 24, T. 4 N., R. 14 E. Water levels, in feet below measuring point, 1940: Mar. 23, 171.66; May 23, 171.10; Dec. 5, 170.95.

446. Owner unknown. NW¼NE¼NW¼ sec. 8, T. 4 N., R. 15 E. Nearby pond was dry at all times when measurements were made.

Water level, in feet below measuring point, 1940

Jan. 25	149.35	May 23	150.31	Sept.24	149.42
Mar. 23	149.38	July 24	149.34	Dec. 5	149.38

459. Owner unknown. NE¼NW¼ sec. 21, T. 1 N., R. 14 E. No measurements made in 1940.

461. Owner unknown. NW¼NW¼ sec. 31, T. 1 N., R. 14 E.

Water level, in feet below measuring point, 1940

Jan. 25	191.78	May 23	191.81	Sept.25	191.96
Mar. 25	191.76	July 25	191.73	Dec. 5	191.71

487. J. E. Friesen. SE¼SE¼SE¼ sec. 34, T. 4 N., R. 18 E.

Water level, in feet below measuring point, 1940

Mar. 22	102.08	July 25	102.13	Nov. 23	102.36
May 22	102.23	Sept.23	102.09		

497. R. M. Van Hyning. NW¼NW¼SW¼ sec. 21, T. 4 N., R. 19 E.

Water level, in feet below measuring point, 1940

Mar. 22	104.38	July 25	104.28	Nov. 22	104.27
May 22	104.37	Sept.23	104.25		

507. J. H. Wells. SE¼SW¼ sec. 1, T. 4 N., R. 14 E. Water levels, in feet below measuring point, 1940: Jan. 25, 165.74; May 23, 165.75; July 24, 165.78.

530. Owner unknown. NE¼NE¼ sec. 26, T. 5 N., R. 14 E.

Water level, in feet below measuring point, 1940

Jan. 25	178.35	May 23	178.34/	Sept.24	178.42
Mar. 23	178.46	July 24	178.33	Dec. 5	178.35

551. Owner unknown. SW¼SW¼ sec. 19, T. 4 N., R. 13 E.

Water level, in feet below measuring point, 1940

Jan. 24	146.50	May 24	146.23	Sept.25	146.38
Mar. 25	146.43	July 23	146.24	Dec. 4	146.16

552. B. G. Manwarren. NE¼NE¼ sec. 1, T. 3 N., R. 12 E. Water level, in feet below measuring point, 1940: Dec. 4, 178.22.

589. August Lorenz. NW¼NW¼ sec. 34, T. 4 N., R. 17 E.

Water level, in feet below measuring point, 1940

Jan. 26	120.17	May 22	120.17	Nov. 23	120.20
Mar. 22	120.11	Sept.23	120.11		

Texas County--Continued.

618. Owner unknown. NW¼NW¼ sec. 11, T. 3 N., R. 10 E. Measurements discontinued.

621. Owner unknown. NW¼NW¼ sec. 2, T. 3 N., R. 10 E.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 24	151.30	May 24	150.87	Sept.25	151.18
Mar. 25	150.93	July 23	151.00	Dec. 4	150.85

626. John Copeland. SW¼NW¼ sec. 27, T. 4 N., R. 10 E. Water levels, in feet below measuring point, 1940: Jan. 24, 90.74; Mar. 25, 90.96; Sept. 25, 91.14; Dec. 4, 90.46.

661. William Webb. SE¼NE¼ sec. 8, T. 3 N., R. 12 E. Measurements discontinued.

761. Federal Life Insurance Co., Chicago. NW¼NW¼ sec. 7, T. 3 N., R. 19 E.

Water level, in feet below measuring point, 1940

Jan. 26	108.36	May 22	107.61	Sept.23	107.56
Mar. 22	107.38	July 25	107.48	Nov. 23	107.92

765. O. Jolliff. SW¼ sec. 26, T. 3 N., R. 19 E. Measuring point altered following the July measurement; in November it was 4.13 feet above bench mark and 0.46 foot below its original level.

Water level, in feet below original measuring point, 1940

Mar. 22	107.46	July 25	107.16	Nov. 22	107.78
May 22	107.51	Sept.23	107.58		

770. A. C. DeHart. SW¼NW¼ sec. 15, T. 3 N., R. 19 E.

Water level, in feet below measuring point, 1940

Jan. 26	123.94	May 22	123.86	Sept.23	123.63
Mar. 22	123.83	July 25	123.69	Nov. 23	123.82

795. Herman Zable. NW¼SW¼ sec. 30, T. 4 N., R. 18 E.

Water level, in feet below measuring point, 1940

Mar. 22	116.75	May 25	116.73	Nov. 23	116.83
May 22	116.83	Sept.23	116.74		

842. C. A. Rahm. NW¼NE¼ sec. 22, T. 6 N., R. 16 E.

Water level, in feet below measuring point, 1940

Jan. 25	124.40	May 23	124.38	Sept.24	124.57
Mar. 23	124.38	July 24	124.41	Dec. 5	124.56

Woodward County

1. Oklahoma City Water Department observation well H. NE¼NW¼ sec. 8, T. 20 N., R. 17 W., on flood plain of North Canadian River, 15 feet northeast of channel on south side of bridge on county road 3 miles north and 0.25 mile east of Richmond. Jetted well, depth 9.4 feet, diameter 2 inches. Measuring point, top of pipe, 2.2 feet above land surface and 8.7 feet below bench mark, which is 60-penny spike in 5⅛-inch tree at northeast end of bridge.

Water level, in feet below measuring point, 1939-40

Dec. 15, 1939	10.30	Feb. 24, 1940	7.80	May 20, 1940	5.88
Jan. 12, 1940	9.00	Apr. 2	8.30	June 23	6.79
Feb. 4	8.87	May 9	7.84	Nov. 20	8.96

Woodward County--Continued.

2. Oklahoma City Water Department observation well I. NE¼NE¼ sec. 25, T. 23 N., R. 21 W., on flood plain of North Canadian River beside south bank of channel, on east side of bridge in northern part of Woodward. Jetted well, depth 9.4 feet, diameter 2 inches. Measuring point, top of pipe, 3.2 feet above land surface and 8.3 feet above bench mark, which is zero level of U. S. Army Engineers river gage, 1867.4 feet above sea level.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 15, 1939	8.90	Feb. 24, 1940	7.75	May 20, 1940	6.25
Jan. 1, 1940	8.40	Apr. 2	7.13	June 23	7.20
Feb. 4	8.16	May 9	8.35	Nov. 20	(a)

3. Western State Hospital, Supply. NE¼NE¼ sec. 16, T. 24 N., R. 22 W., on flood plain of Wolf Creek about 2.5 miles upstream from its junction with North Canadian River. Drilled well, diameter 12 inches, depth 57 feet; used with 4 other wells for irrigation and as auxiliary to general hospital supply through summer. Well is second from the north. Measuring point, top edge of air-line hole in north side of base of pump, about level with land surface. Water level, in feet below measuring point, 1940: Nov. 27, 12.01 (1 week after termination of season of heavy pumping).

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a Dry; filled with sand to depth of 6.25 feet.

TEXAS

STATE-WIDE PROJECT

By R. W. Sundstrom

The ground-water resources of Texas have been under investigation since 1929 by the Federal Geological Survey in cooperation with the Texas State Board of Water Engineers. The measuring of water levels and artesian pressure in selected observation wells has constituted a part of this study. The earliest measurements were made in 1928 and 1929 in Dimmit, Zavala, Uvalde, and Medina Counties, and in 1930 and 1931 in the Houston-Galveston area. As the ground-water investigations were extended to other areas, the water-level observation program was expanded accordingly. During 1941, a total of more than 7,000 water-level measurements was made in about 1,300 wells in 78 counties. Twenty-two water-stage recorders were maintained on wells for the purpose of securing continuous records of the fluctuations of water level in selected areas. In some parts of the State, water levels were measured at intervals of a month or less, but in most places they were made at intervals ranging from 3 to 12 months.

The water-level measurements made in connection with the program prior to 1940 are published in Water-Supply Papers 777, 817, 840, 845, and 886. During 1940, two mimeographed reports were issued; the first contains a discussion of water-level fluctuations in the Houston district from 1930 to 1940, and the second contains a discussion of the water-level fluctuations in the High Plains of Texas from 1934 to 1940.

BALCONES FAULT ZONE

Water-level observations in wells in the Balcones fault zone, which comprises parts of Bexar, Comal, Guadalupe, Hays, Kinney, Travis, Uvalde, Val Verde, and Williamson Counties, were started in 1929 in Uvalde and Medina Counties. In 1932, observations were begun in Bexar County, and in 1937 they were extended to include Kinney, Comal, Hays, Travis, Guadalupe, and Val Verde Counties. Most of the observation wells in the area tap the Edwards limestone, which is the source of the water discharged by the large springs of the Balcones fault zone. The public and industrial water supplies of several large towns, including

San Antonio, and most of the irrigation supply of Uvalde and Bexar Counties are obtained from the Edwards limestone. The water enters the limestone on the outcrop area along the Balcones escarpment and on the Edwards Plateau. The artesian head in many of the wells situated down the dip responds rather quickly to recharge from rains on the outcrop area.

In the San Antonio area a water-stage recorder has been maintained since the fall of 1932 on a well at Beverly Lodges (see accompanying illustration). The water level in the well is affected to some extent by changes in the rate of pumping in the San Antonio area. The larger fluctuations of the water level, however, are chiefly dependent on the amount of the precipitation on the outcrop of the Edwards limestone north of the well. It is apparent that although the well is several miles down the dip, the water level in it responds quickly to heavy rains on the outcrop. From 1932 to April 9, 1935, the accumulated deficiency from normal precipitation at San Antonio was large; the discharge from the Edwards reservoir exceeded the recharge and the water level in the well declined. During the period April 9 to June 15, 1935, the precipitation at San Antonio amounted to about 24 inches, and the water level in the Beverly Lodges well rose about 15 feet. The total precipitation from June 1935 to May 1936 was below normal, but moderately heavy rains occurred in September 1935 and March 1936 and during these months the water level in the well rose slightly. The net decline in the period was about 5 feet. During May, June, and July 1936, heavy rains, which amounted to more than 15 inches at San Antonio, returned the water level to the peak stage of 1935. During the remainder of 1936 the precipitation was slightly above normal and the water level in the well remained comparatively high. During 1937 and the early part of 1938 the total precipitation was somewhat above normal. Heavy rains in May and December 1937 and in April 1938 caused pronounced rises in the water level in the well. In May 1938 the water level was within 2 feet of the peak stages of 1935 and 1936. From May 1938 to October 1940 there was a large accumulated deficiency in the precipitation and the water level declined to its lowest observed stage, almost 20 feet below the peak stages of 1935 and 1936. Heavy rains in October, November, and December 1940 caused a sharp rise and in December 1940 the water level was about 8 feet lower than it was when the record was started in October 1932.

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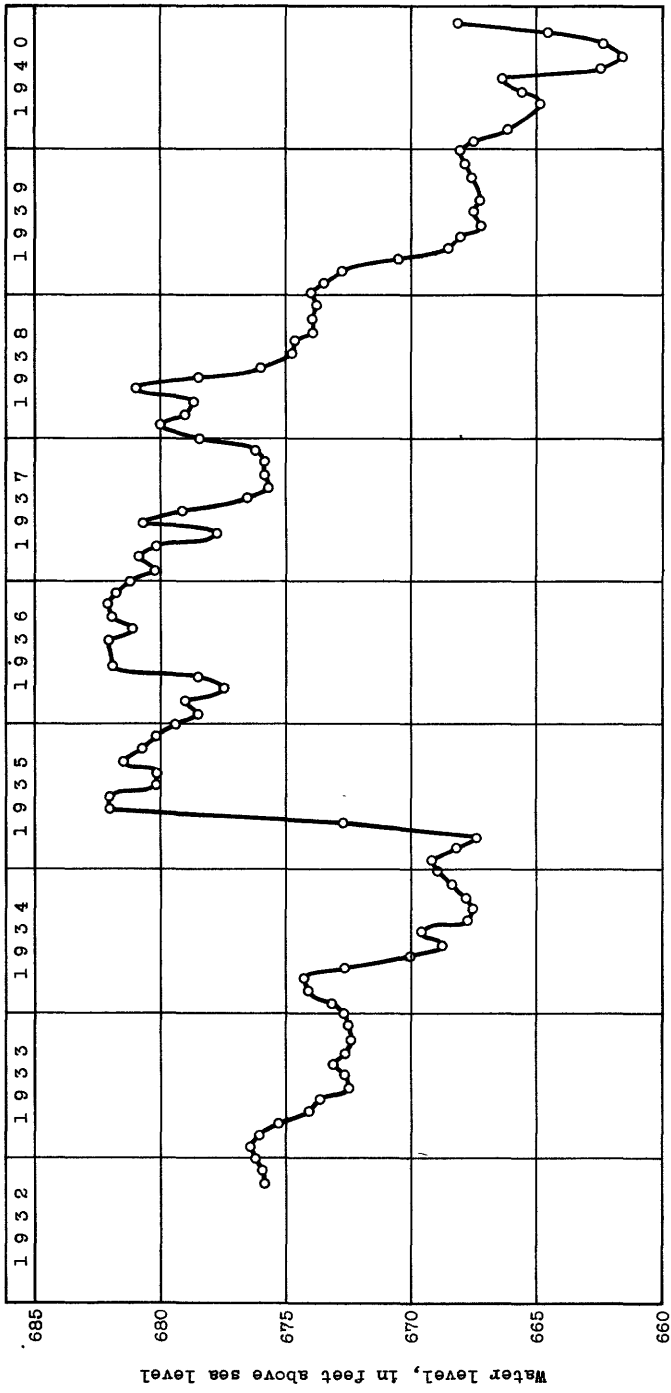

Figure 6.--Graph showing average monthly water level in Beverly Lodges well, San Antonio, Texas.

In 1939 a water-stage recorder was installed on a well at Brackettville in Kinney County. The two-year record shows the influence of precipitation on the water level in this well (see accompanying illustration).

Water levels in wells drawing from the Edwards limestone in Uvalde and Medina Counties are likewise affected by recharge from precipitation. In most of the wells the water levels were high during the first part of 1940, and then declined until they were affected by rains in April, May, and June, 1940. In some of the wells the highest water levels in 1940 occurred from May to July. After this period the water levels declined gradually to the end of the year, when they were mostly lower than at the beginning of the year.

SOUTHWEST TEXAS

Dimmit and Zavala Counties: The Winter Garden district.--Large scale pumping for irrigation in this area has been in progress for the past 21 years. The Carrizo sand, from which nearly all the water is derived, crops out in a belt about 1 to 7 miles wide extending across the western part of Dimmit County, the western and northern parts of Zavala County, and parts of eastern Maverick and southern Uvalde Counties. The sand is about 200 feet thick on the average, and it dips generally to the east and southeast. The belt in which it can be reached within a depth of 1,000 feet is about 15 miles wide. The water-level measurements in the area were started in 1929.

The water levels in wells on the outcrop area which are remote from heavy pumping show relatively little seasonal or yearly fluctuations, and have changed only slightly during the last 11 years. In areas down the dip where pumping has been heavy, the range of fluctuation of the water levels is large. The lowest stages were recorded late in the winter and in the spring of 1929-30 and 1931-32; the highest stages were recorded late in the summers of 1931, 1932, 1933, and 1940. The water levels in some of the wells in which the fluctuations of water level are the greatest rose 5 to 20 feet from August 1939 to August 1940. It is believed that these rises were due to the fact that there was less pumping for irrigation in 1939-40 than there was in 1938-39. The water levels in most of the wells were as high or higher in the summer of 1940 as in the summer of 1930.

SOUTH TEXAS

Duval County.--Measurements of water levels in 38 wells reveal that there was an average rise of about 0.3 foot from April 1939 to February 1940. Twenty of the wells had an average rise of 1.64 feet during this period whereas 17 wells had an average decline of 1.28 feet. No change in water level occurred in one well.

Brooks County.--A comparison of water-level measurements made in February 1940 with those made in January 1938 indicates that there has been a decline in the water levels in all except 2 observation wells in the county. The declines range from about 1.5 feet to about 17 feet and average about 5 feet.

Kleberg County.--A decline in the water levels has occurred in Kleberg County from 1904 through 1940. In 1940 the net decline, however, was much less than in previous years, and in a few wells there were small rises of water level. The average net decline since 1935 in 16 observation wells has been slightly less than 4 feet.

SOUTHEAST TEXAS

Wharton County.--Large quantities of ground water are used in Wharton County for irrigating rice; considerable ground water is used also in connection with the operation of the sulphur and petroleum industries. According to records of the U. S. Department of Agriculture, 16,700 acres of rice were irrigated in 1935 and about 19,700 acres were irrigated in 1939. About 30,000 acre-feet of ground water was used for this irrigation in 1939. The sulphur industry used about 4,600 acre-feet; the public water supplies of Wharton, El Campo, and Boling used about 700 acre-feet. Although the records of water levels in the observation wells do not indicate that the decline was great, they show that the water levels in 13 wells declined an average of 1.1 feet from March 1939 to March 1940. The water levels in 3 wells rose in this period.

Jackson County.--The water levels in 18 wells in Jackson County had an average net decline of about 1.1 feet from the time measurements were begun in 1934 to December 1940. The declines range from a maximum of 4.7 feet to a minimum of 0.1 foot. The water level in 1 well showed a rise of 0.2 foot during this period. The average decline of the water levels in the 18 wells from March 1939 to March 1940 was 0.8 foot. From March 1940 to December 1940, the water levels in 9 wells rose an average of 0.8 foot whereas the water levels in 10 wells declined an average of 0.4 foot.

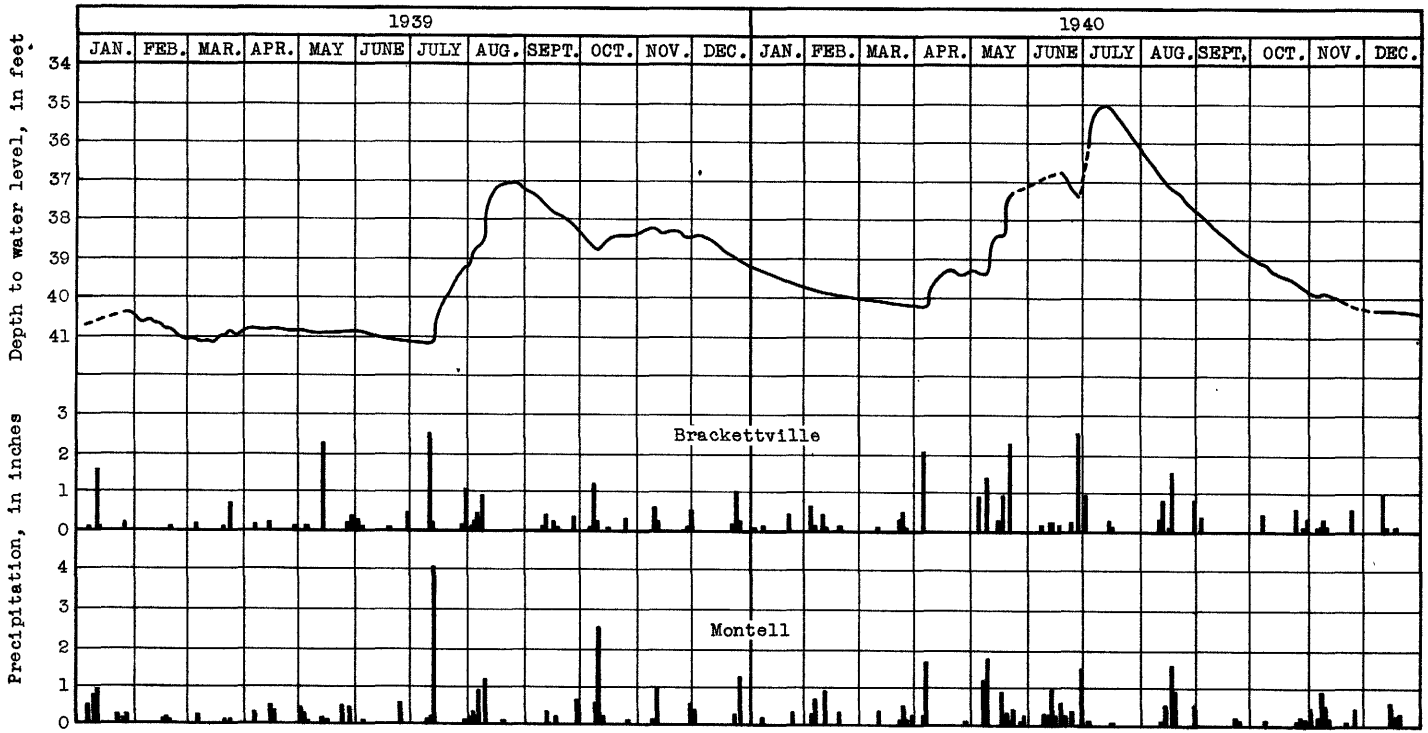

Figure 7.--Graph showing fluctuations of water level in well 199 and daily precipitation at Montell and Brackettville, Texas.

Matagorda County.--Observations have been made on only four wells in southwestern Matagorda County. The water level in one of the wells (40), which is owned by the city of Palacios, has been affected by the pumpage from a nearby well that was drilled in 1938 and by pumpage for the irrigation of rice that began north of Palacios during 1939 and 1940. The water level in well 40 has declined about 16 feet since 1938. The water level in observation well 3, at Midfield, declined several feet in the same period.

Houston-Galveston and adjacent region.--The water levels in the Houston area are chiefly influenced by heavy pumping. According to a report 1/ recently issued, the average daily pumpage in the Houston, Pasadena, and Katy district increased from 63 million gallons in 1935 to 100 million gallons in 1937, to 112 million gallons in 1939, and to 126 million gallons in 1940. As a result the water levels in wells tapping sands from which this water is pumped have declined persistently throughout the period. The magnitude of the decline depends on the position of the observation well with respect to the centers of heavy pumping.

The water levels in the vicinity of Galveston continued to decline during 1940.

EAST-CENTRAL AND EAST TEXAS

Water-level measurements were continued in 1940 in lines of wells extending from Austin northeast to the Texas-Louisiana boundary. The water levels in most of the shallow wells, which are quickly influenced by variations in precipitation were generally low when the measurements were made in April and July, but were much higher when measurements were made in November. The water levels in deeper wells, which do not respond quickly to variations in precipitation, were still at low stages in November. In the deep wells tapping the Carrizo sand, in Angelina and Nacogdoches Counties, the water levels declined during the year due to heavy pumping for industrial purposes in the vicinity of Lufkin. The amount of decline varied with the distance and location of the observation

1/ White, W. N., Rose, N. A., and Guyton, W. F., Progress report on the ground-water resources of the Houston district, Texas (mimeographed report): Texas State Board of Water Engineers, Nov. 1940.

wells with respect to the centers of pumping. Well 169 at the Gulf Pipeline pumping station in Angelina County is believed to be influenced both by the pumping of the city of Lufkin well at Redlands about 3 miles away and of the paper mill wells about 4 miles away. The water level in well 169 declined 39 feet from April to November 1940.

HIGH PLAINS

The water levels in approximately 600 observation wells in the High Plains were measured during 1940. The measurements indicate that in the areas of heavy pumping for irrigation the net decline during the year was greater than it was in 1939. In areas beyong the influence of the heavy pumping, the fluctuations of water level were small. A detailed discussion of the changes in water level in the High Plains from 1934 through 1940 is given in a report by White, Broadhurst, and Lang.[2/]

RECORDS OF WATER LEVEL

On the following pages the records of water level are expressed in feet with reference to the measuring point unless otherwise noted.

2/ White, W. N., Broadhurst, W. L., and Lang, J. W., Ground water in the High Plains in Texas (mimeographed report): Texas State Board of Water Engineers, Dec. 1940.

Andrews County

Well numbers correspond to those in Water-Supply Papers 840, 845, and 886.

122. J. E. Parker, SE¼SE¼ sec. 18, blk. A-46, P. S. L., 2 miles west of Andrews. Water levels, in feet below measuring point, 1940: Jan. 16, 111.40; July 31, 111.36; Nov. 22, 111.31.

216. No measurements made in 1940.

220. Mrs. Lela McQuatters. NW¼ sec. 20, blk. A-34, P. S. L., 11.5 miles north of Andrews. Water levels, in feet below measuring point, 1940: Jan. 16, 78.58; Nov. 22, 78.86.

Angelina County

Well numbers correspond to those in Water-Supply Papers 840, 845, 849-A, and 886.

1. McKnight. In valley, 1.1 miles southeast of Cherokee County line, 1.2 miles southwest of Nacogdoches County line, 14.35 miles northwest of Lufkin. Unused drilled oil test, diameter 6 inches. Measuring point, top of casing, 2 feet above land surface. Flowing well. Water levels, in feet above measuring point, 1940: Apr. 9, well flowing; July 14, 12.3.

3. Earl Ash. South side of U. S. Highway 69, 15.25 miles northwest of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 9, 9.38; July 14, 9.49; Nov. 28, 4.74.

5. Town of Pollock. Four hundred feet south and 150 feet east of crossroads in Pollock, 11.25 miles northwest of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 9, 6.48; July 14, 8.05; Nov. 28, 5.24.

13. Miss N. Carson. Ten miles northwest of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 9, 7.90; July 14, 10.95; Nov. 28, 6.33.

21. Caved. Measurements discontinued.

43. W. A. Collmorgan. Three and one-half miles north of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 7, 18.40; July 14, 27.25; Nov. 28, 38.24.

45. W. A. Collmorgan. Three and one-half miles north of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 7, 6.05; July 14, 7.14; Nov. 28, 6.06.

47. City of Lufkin. At city pumping plant, 2.5 miles north of Lufkin.

Flow in gallons a minute, 1939-40

Date	Flow	Date	Flow	Date	Flow
Feb. 9, 1939	4.0	Dec. 13, 1939	0.4	July 14, 1940	6.0
May 8	6.0	Apr. 7, 1940	6.0	Nov. 29	7.5
July 20	1.3				

50. No measurements made in 1940.

53. J. W. Shearrand. On north side of U. S. Highway 69, 1.75 miles northwest of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 8, 10.45; July 14, 10.50; Nov. 28, 12.19.

56. Irwin Hopper. East of U. S. Highway 69, 6 miles north of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 8, 19.26; July 14, 18.77; Nov. 28, 19.22.

73. J. L. Bonner. About 300 yards south of old State Highway 94, just west of swampy lake, 11 miles south-southwest of Lufkin. Used drilled oil test, diameter 6 inches, depth 1,325 feet. Measuring point, top of casing, 2 feet above land surface. May 11, 1937, flowing; Apr. 8, 1940, flowing; July 15, 1940, flowing.

Angelina County--Continued.

167. W. F. Athey. East side of U. S. Highway 59, 6.6 miles north of Lufkin. Water levels, in feet below measuring point, 1940: Apr. 7, 11.21; July 14, 11.03; Nov. 28, 4.76.

168. City of Lufkin. In brick pump house, about 300 feet west of Redland School, 2 blocks west of U. S. Highway 59 at Redland. Used drilled public supply well, diameter 16 inches, depth 1,170 feet, graveled wall and screen at 1,058 to 1,170 feet. Equipped with turbine pump. Measuring point, top of 1-inch pipe nipple in pump base, 1 foot above land surface. Water levels, in feet below measuring point, 1940: Feb., ab/140; Apr. 8, a/131; July 16, 144.09; Nov. 29, 153.59.

169. Gulf Pipe Line Co. At northwest corner of earth tank, about 300 feet west of pump station, 2.75 miles northwest of Redland. Used drilled industrial well, diameter 6 inches, depth 959 feet, screen at 820 to 848 feet. Measuring point, top of coupling on casing, 3 feet above land surface. Flowing well, equipped with centrifugal pump. Water levels, in feet above measuring point: Oct. 23, 1939, c/40; Apr. 8, 1940, c/20.5; July 14, 1940, c/14; Nov. 28, 1940, c/1.

Aransas County

35. W. S. Kirby. On west side of State Highway 35, northeast edge of Aransas Pass. Used drilled domestic well, diameter 4 inches, depth 39 feet. Measuring point, top of casing, 0.5 foot above land surface and 10.68 feet above mean sea level. Equipped with windmill. Water levels, in feet below measuring point: Apr. 19, 1939, 16.10; Mar. 19, 1940, 9.92; Aug. 5, 1940, 10.89; Dec. 7, 1940, 8.53.

46. R. R. Barber. In Estes, on northwest side of State Highway 35, 5.25 miles southwest of Rockport. Used drilled domestic and stock well, diameter 4 inches, depth 52 feet. Measuring point, top of casing 1 foot above land surface and 12.78 feet above mean sea level. Equipped with windmill. Water levels, in feet below measuring point: Apr. 19, 1939, 10.30; Mar. 19, 1940, 9.72; Dec. 8, 1940, 9.31.

59. E. F. Barber. Five and one-half miles west of Rockport. Used drilled domestic and stock well, diameter 3 inches, depth 97 feet. Measuring point, top of 3 by 8-inch wood water pipe clamp, 1 foot above land surface and 12.41 feet above mean sea level. Equipped with windmill. Water levels, in feet below measuring point: May 16, 1939, 12.00; Mar. 20, 1940, 10.95; Aug. 6, 1940, 10.90; Nov. 20, 1940, 10.34.

77. H. G. Smith. One-half mile southwest of center of Rockport, in southwest edge of Rockport. Used drilled domestic well, diameter 4 inches, depth 58 feet. Measuring point, top of casing, 0.5 foot above land surface and 10.86 feet above mean sea level. Equipped with automatic pump. Water levels, in feet below measuring point: June 19, 1939, 16.80; Mar. 19, 1940, 6.33; Aug. 6, 1940, 8.30; Nov. 20, 1940, 8.90.

244. Willie Owens. Six-tenths mile northeast of Oak Grove school. Unused drilled well, diameter 4 inches, depth 68 feet. Measuring point, 2-inch ell in top of 4-inch casing, 1.3 feet above land surface and 10.35 feet above mean sea level. Water levels, in feet below measuring point, 1940: Mar. 27, 12.71; Aug. 6, 14.12; Nov. 20, 13.88.

247. G. M. Broach. Six-tenths mile west of State Highway 35 on Bayside road, 60 feet north-northeast of windmill well. Used drilled domestic and stock well, diameter 4 inches, depth 29 feet. Measuring point, top of concrete base, 0.3 foot above land surface and 16.89 feet above mean sea level. Equipped with hand pump. Water levels, in feet below measuring point, 1940: Mar. 23, 5.50; Aug. 6, 8.92; Nov. 20, 7.25.

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a Airline and gage measurement.
b Shut down 1 hour; measured by Mr. Russel.
c Measured with altitude gage.

Bailey County

Well numbers correspond to those in Water-Supply Papers 840, 845, and 886.

5a. Gus Schrader. NW¼NE¼ sec. 3, blk. Z, 10 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 64.13; Nov. 14, 64.27.

9. Jim Ellis. NE¼NW¼ sec. 21, blk. Z, 10.5 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 39.07; Nov. 14, 40.16.

11. Tom Smith. NE¼SW¼ sec. 22, blk. Z, 10.5 miles west of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 25.57; Nov. 14, 27.24.

21a. Mrs. J. W. Gregory, Sr. NW¼NW¼ sec. 6, blk. X, 8 miles west of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 23.88; Nov. 14, 25.97.

25. C. A. Wagner. Northwest corner SE¼ sec. 6, blk. Z, 8 miles west of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 21.88; Nov. 14, 24.86.

31. J. H. Farley. Northwest corner NW¼ sec. 10, blk. X, 6.5 miles west of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 15.15; Nov. 14, 15.8.

33. Mrs. J. W. Gregory. Northwest corner SW¼ sec. 12, blk. X, 7 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 30.05; Nov. 14, 33.27.

34a. -----. NE¼NE¼ sec. 20, blk. X, 6 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 25.56; Nov. 14, 26.58.

35. No measurements made in 1940.

35a. F. O. Boone. NE¼SE¼ sec. 24, blk. X, 4.5 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 25.56; Nov. 14, 26.58.

36. J. M. Murrah. NE¼NW¼ sec. 23, blk. X, 4.75 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 18.8; Nov. 14, 20.0.

38. No measurements made in 1940.

45. H. M. Schofner. NW¼SW¼ sec. 32, blk. Y, 2.25 miles northwest of Muleshoe. Water levels, in feet below measuring point, 1940: Feb. 26, 20.34; Oct. 28, 21.79; Nov. 14, 21.78.

49. Jess Mitchell. Northwest corner NE¼SE¼ sec. 33, blk. X, 3.75 miles northwest of Muleshoe. Water level, in feet below measuring point, 1940: Nov. 14, 27.04.

53. W. B. Gwyn, Sr. NE¼SE¼ sec. 22, blk. Y, 3.25 miles northwest of Muleshoe. Water level, in feet below measuring point, 1940: Nov. 14, 28.87.

62. Levi Churchill. Northwest corner SE¼ sec. 42, blk. Y, 2.75 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 23.13; Nov. 14, 27.13.

63. Sam Gorrell. Northwest corner SW¼ sec. 42, blk. Y, 2.75 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 24.64; Oct. 28, 29.35; Nov. 14, 30.82.

66. J. L. Wallace. Northwest corner NE¼ sec. 41, blk. Y, 2.25 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 21.48; Nov. 14, 23.57.

67. I. W. Hardin. Northwest corner NE¼NE¼ sec. 41, blk. Y, 2.25 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 20.31; Nov. 14, 22.80.

Bailey County--Continued.

69. E. R. Hart. NW¼SW¼ sec. 52, blk. Y, 1.75 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 17.50; Nov. 14, 17.91.

70. No measurements made in 1940.

74. No measurements made in 1940.

79. D. E. Cox. Southwest corner NW¼ sec. 53, blk. Y, 1 mile north of Muleshoe.

Daily noon water level, in feet below measuring point, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 15	24.38	Nov. 26	25.30	Dec. 3	25.28	Dec. 10	25.29
Oct. 28	25.44	27	25.30	4	25.28	11	25.28
Nov. 13	25.49	28	25.28	5	25.29	12	25.28
21	25.30	29	25.29	6	25.28	13	25.29
22	25.31	30	25.29	7	25.27	14	25.29
23	25.31	Dec. 1	25.30	8	25.28	15	25.28
24	25.31	2	25.29	9	25.28	16	25.29
25	25.28						

92. L. H. McConnell. NW¼NE¼ sec. 51, blk. Y, 3.25 miles north of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 22.02; Nov. 14, 24.65.

95. E. R. Hart. Northwest corner NW¼ sec. 71, blk. Y, 4 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 24.88; Nov. 14, 26.34.

108. T. L. Mounce. Northwest corner SE¼NE¼ sec. 31, blk. W, 7 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 36.30; Nov. 14, 38.35.

116. C. B. Huggins. NW¼NE¼SW¼ sec. 32, blk. W, 6 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 23.13; Nov. 14, 25.32.

117. H. L. Dempster. Northwest corner NW¼ sec. 32, blk. W, 6 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 36.59; Nov. 14, 39.10.

120. I. F. Wilman. Northwest corner SW¼ sec. 83, blk. Y, 5 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 27.8; Nov. 14, 29.73.

124. Measurements discontinued.

129. No measurements made in 1940.

130. E. R. Hart. Northwest corner NE¼SE¼ sec. 33, blk. W, 6 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 2.81; Nov. 14, 4.42.

131. R. D. Precure. Northwest corner SW¼ sec. 34, blk. W, 6 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 21.67; Nov. 14, 23.55.

132. J. A. Ryan. Northwest corner SE¼ sec. 34, blk. W, 6.5 miles northeast of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 22.76; Nov. 14, 24.25.

135. Measurements discontinued.

136. C. A. Barnett. Northwest corner SE¼ sec. 48, blk. W, 5.5 miles east of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 17.14; Oct. 28, 17.65; Nov. 13, 18.73.

137. C. H. Whitehead. Northwest corner SW¼ sec. 48, blk. W, 4.75 miles east of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 18, 4.35; Nov. 13, 5.86.

Bailey County--Continued.

141. L. L. Lowery. Southwest corner NW¼ sec. 49, blk. W, 4.5 miles east of Muleshoe. Water level, in feet below measuring point, 1940: Mar. 18, 3.27.

143. C. H. Whitehead. Southwest corner N½ sec. 93, blk. Y, 4 miles east of Muleshoe. Water level, in feet below measuring point, 1940: Mar. 18, 1.08; measurements discontinued.

151a. Janes Estate. Near center of Lamar County School land section, 4.5 miles southeast from Muleshoe depot, 300 feet northeast from railroad crossing. Unused drilled well, diameter 12 inches, depth 26 feet. Measuring point, top of 13-inch cream can casing, 0.3 foot above land surface. Equipped with automatic water-stage recorder.

Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	23.30	23.30	23.26	23.26	.....	23.64	24.02	24.19	.....	24.60	24.63
2	.....	23.30	23.30	23.26	23.26	.....	23.65	24.03	24.20	.....	24.60	24.63
3	.....	23.30	23.30	23.26	23.26	.....	23.66	24.04	24.21	.....	24.61	24.63
4	.....	23.30	23.30	23.26	23.27	.....	23.67	24.05	24.21	.....	24.61	24.63
5	.....	23.30	23.30	23.26	23.28	.....	23.67	24.06	24.22	.....	.....	24.63
6	.....	23.30	23.30	23.26	23.31	.....	23.68	24.07	24.23	.....	.....	24.63
7	.....	23.30	23.30	23.26	23.31	.....	23.70	24.08	24.23	24.50	.....	24.63
8	22.87	23.30	23.30	23.25	23.32	.....	23.71	24.09	24.24	24.50	.....	24.63
9	.....	23.30	23.30	23.25	23.32	.....	23.72	24.10	24.26	24.51	.....	24.63
10	.....	23.30	23.30	23.25	23.32	.....	23.73	24.10	24.27	24.52	.....	24.63
11	.....	23.30	23.29	23.25	23.33	.....	23.74	24.12	24.27	24.53	24.62	24.63
12	.....	23.30	23.29	23.25	23.33	.....	23.75	24.14	24.28	24.53	24.62	24.63
13	.....	23.30	23.29	23.25	23.34	.....	23.76	24.14	24.29	24.53	24.63	24.63
14	.....	23.30	23.30	23.25	23.34	.....	23.78	24.15	24.30	24.54	24.63	24.63
15	.....	23.30	23.30	23.24	23.35	.....	23.79	24.15	24.31	24.54	24.63	24.63
16	.....	23.30	23.30	23.24	23.35	.....	.....	24.15	24.32	24.54	24.63	24.63
17	.....	23.30	23.30	23.25	23.36	.....	.....	24.15	24.33	24.54	24.63	.....
18	.....	23.30	23.29	23.25	23.37	.....	.....	24.15	24.34	24.55	24.63	.....
19	.....	23.30	23.29	23.25	23.38	.....	.....	24.16	24.34	24.55	24.63	.....
20	22.86	23.30	23.29	23.25	23.38	.....	.....	.....	24.35	24.56	24.63	.....
21	.....	23.30	23.29	23.25	23.39	.....	.....	.....	24.36	24.56	24.63	.....
22	23.34	23.30	23.29	23.25	23.40	.....	23.89	.....	24.36	24.57	24.63	.....
23	.....	23.30	23.29	23.25	23.40	.....	23.90	.....	24.38	24.57	24.63	.....
24	.....	23.30	23.29	23.25	23.41	23.58	23.91	.....	24.39	24.57	24.63	.....
25	.....	23.30	23.28	23.25	23.41	23.58	23.92	.....	24.39	24.58	24.63	.....
26	.....	23.30	23.28	.....	.....	23.58	23.93	.....	24.40	24.58	24.63	.....
27	.....	23.30	23.28	.....	.....	23.59	23.94	24.17	24.41	24.59	24.63	.....
28	.....	23.30	23.27	.....	.....	23.60	23.96	24.17	24.42	24.59	24.63	.....
29	23.30	23.30	23.27	23.25	.....	23.61	23.98	24.17	24.43	24.59	24.63	.....
30	23.30	.....	23.27	23.25	.....	23.62	23.99	24.18	24.44	24.59	24.63	.....
31	23.30	.....	23.27	.....	.....	.....	24.01	24.18	.....	24.60	.....	.....

152. Measurements discontinued.

153. Measurements discontinued.

156. Measurements discontinued.

201a. Halsell Land and Cattle Company. NW¼ lab. 19, lge. 189, Ector County School Land, 5 miles south and 1.5 miles west from Muleshoe. Unused drilled well, diameter 6 inches, depth 57 feet. Measuring point, top of steel casing, 1.0 foot above land surface. Equipped with automatic water-stage recorder.

Daily noon water level, in feet below measuring point, 1939
(from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 10	38.75	Dec. 1	38.67	Dec. 11	38.76	Dec. 15	38.75
16	38.63	2	38.75	12	38.85	16	38.77
23	38.74	3	38.75	13	38.87	17	38.76
29	38.61	4	38.76	14	38.74	18	38.77
30	38.58						

Bailey County--Continued.

201a.--Continued.
Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.88	39.02	39.07	39.30	39.58	.....	39.78	39.98	40.13	.....	40.53	40.72
2	.....	39.08	39.22	39.31	39.48	.....	39.84	40.00	40.10	.....	40.51	40.64
3	.....	39.01	39.19	39.37	39.41	.....	39.87	40.00	40.11	.....	40.44	40.62
4	.....	38.94	39.25	39.41	39.42	.....	39.87	40.01	40.17	.....	40.43	40.57
5	.....	38.97	39.16	39.42	39.47	.....	39.85	40.04	40.22	.....	.....	40.63
6	.....	39.03	39.14	39.30	39.53	.....	39.83	40.06	40.24	.....	.....	40.54
7	.....	38.93	39.23	39.31	39.55	.....	39.89	39.99	40.25	40.45	.....	40.67
8	38.91	39.03	39.15	39.43	39.61	.....	39.82	39.98	40.23	40.25	.....	40.61
9	38.91	39.11	39.10	39.34	39.62	.....	39.83	40.04	40.12	40.21	.....	40.55
10	38.90	39.06	39.14	39.34	39.57	.....	39.85	40.01	40.19	40.33	.....	40.65
11	38.91	39.96	39.18	39.53	39.54	.....	39.86	40.05	40.23	40.41	40.49	40.62
12	38.95	39.09	39.27	39.51	39.52	.....	39.92	40.10	40.19	40.38	40.61	40.64
13	38.95	39.14	39.36	39.35	39.48	.....	39.90	40.05	40.14	40.36	40.65	40.73
14	39.03	39.03	39.30	39.26	39.60	.....	39.85	40.01	40.17	40.49	40.61	40.70
15	39.06	38.96	39.22	39.20	39.58	.....	39.89	39.98	40.21	40.45	40.52	40.66
16	38.91	39.10	39.17	39.22	39.53	.....	.....	40.05	40.25	40.37	40.48	40.77
17	38.85	39.18	39.15	39.39	39.50	.....	.....	40.11	40.25	40.44	40.47	.....
18	39.00	39.10	39.38	39.47	39.63	.....	.....	40.15	40.25	40.42	40.38	.....
19	39.03	39.13	39.25	39.44	39.60	.....	.....	40.14	40.25	40.38	40.48	.....
20	38.96	39.15	39.21	39.41	39.52	.....	.....	.....	40.28	40.38	40.54	.....
21	38.99	39.13	39.22	39.36	39.58	.....	.....	.....	40.28	40.38	40.49	.....
22	38.94	39.10	39.29	39.43	39.67	.....	39.97	.....	40.26	40.38	40.55	.....
23	39.00	39.02	39.26	39.52	39.64	.....	39.94	.....	40.23	40.41	40.62	.....
24	39.04	39.15	39.37	39.44	39.56	39.80	39.92	.....	40.27	40.41	40.59	.....
25	39.01	39.14	39.33	39.40	39.54	39.79	39.88	.....	40.36	40.42	40.45	.....
26	39.00	39.01	39.23	39.45	.....	39.72	39.89	.....	40.28	40.42	40.64	.....
27	38.96	39.10	39.19	39.42	.....	39.73	39.93	40.11	40.20	40.37	40.69	.....
28	39.01	39.16	39.26	39.43	.....	39.84	39.98	40.14	40.22	40.42	40.53	.....
29	39.03	39.12	39.36	39.50	.....	39.89	40.03	40.17	40.31	40.48	40.50	.....
30	39.02	.....	39.36	39.51	.....	39.81	39.99	40.21	40.32	40.42	40.55	.....
31	38.98	.....	39.33	.....	.....	.....	39.97	40.20	.....	40.47	.....	.....

205. No measurements made in 1940.

207. Whittington. SE¼ lab. 22, lge. 188, 8 miles south of Muleshoe. Water level, in feet below measuring point, 1940: Mar. 26, 95.01.

212. Measurements discontinued.

225. Measurements discontinued.

228. Measurements discontinued.

235. Measurements discontinued.

238. Measurements discontinued.

240. Measurements discontinued.

322. G. H. Harvey. SW¼ lab. 16, lge. 193, 5 miles east of Baileyboro. Water level, in feet below measuring point, 1940: Mar. 26, 79.61.

324a. Foard County School Land. NW¼ lab. 15, lge. 192, 9 miles south of Muleshoe. Water levels, in feet below measuring point, 1940: Mar. 26, 100.97; Dec. 3, 100.37.

333. Measurements discontinued.

355. No measurements made in 1940.

423. Measurements discontinued.

427. Measurements discontinued.

Bailey County--Continued.

430. K. C. Moser. Southwest corner NW¼ sec. 15, lge. 107, 13 miles south of Baileyboro. Water levels, in feet below measuring point, 1940: Mar. 26, 84.55; Dec. 3, 84.04.

435. I. C. Enochs. SE¼ lab. 69, lge. 182, 9 miles southeast of Baileyboro. Water levels, in feet below measuring point, 1940: Mar. 26, 28.17; Dec. 3, 28.16.

Bastrop County

Well numbers correspond to those in Water-Supply Papers 840, 845, and 886.

1. Cottonwood Colored School. On southwest side of U. S. Highway 290, 1.8 miles southeast of county line, 12.6 miles northwest of Bastrop. Water levels, in feet below measuring point, 1940: Apr. 1, 16.32; July 9, 16.85; Nov. 21, 16.90.

2. Ben Clayton. Near small one-story frame house, 0.05 mile south of U. S. Highway 290, 6 miles west-northwest of Bastrop. Water levels, in feet below measuring point, 1940: Apr. 1, 9.13; July 9, 4.46; Nov. 21, 7.21.

3. J. K. Young. Thirty feet west of cattle guard on west side of local road, 0.05 mile south of U. S. Highway 290, 2.8 miles west of Bastrop. Water levels, in feet below measuring point, 1940: Apr. 1, 30.16; July 9, 30.36; Nov. 21, 31.43.

4. Texas Public Utilities Company. On northwest side of water and ice plant, 1 block north of U. S. Highway 290, near center of Bastrop. Water levels, in feet below measuring point, 1940: Apr. 1, 29.33; July 9, 29.03; Nov. 21, 29.34.

5. No measurements made in 1940.

7. Wesley McPhaul. In valley, 80 feet south of U. S. Highway 290, 10 miles east of Bastrop. Water levels, in feet below measuring point, 1940: Apr. 1, 10.88; July 9, 8.49; Nov. 21, 10.55.

8. Max Schlinder. Fifteen feet west of frame garage, 120 feet north of U. S. Highway 290, 2.55 miles east of railroad station at Paige. Water levels, in feet below measuring point, 1940: Apr. 1, 63.91; July 9, 64.46; Nov. 21, 64.48.

9. Paul Saegert. On west side of lane, 0.4 mile south of U. S. Highway 290, 2.8 miles east of Paige. Water levels, in feet below measuring point, 1940: Apr. 1, 119.62; July 9, 119.71; Nov. 21, 119.73.

Bexar County

Well numbers correspond to those in Water-Supply Papers 840, 845, and 886.

15. Robert Mechler. Six miles east of Castroville.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	126.62	Apr. 23	130.13	July 22	128.63	Oct. 25	133.45
Feb. 21	128.03	May 20	130.36	Aug. 23	132.59	Dec. 2	129.60
Mar. 21	129.37	June 17	129.56	Sept.24	133.23		

26. Fuller's Earth Plant. South side U. S. Highway 290, 13.5 miles west of San Antonio.
Water level, in feet below measuring point, 1940

Jan. 17	110.83	Apr. 23	114.47	July 22	112.97	Oct. 21	117.62
Feb. 21	112.14	May 20	114.64	Aug. 23	117.17	Dec. 2	113.71
Mar. 18	113.61	June 17	113.79	Sept.24	117.60		

Bexar County--Continued.

28. Robert Boenig. South side U. S. Highway 290, 8 miles west of San Antonio.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 21	71.09	May 20	73.63	Aug. 23	76.17	Oct. 21	76.40
Mar. 18	72.51	June 17	72.74	Sept.24	76.50	Dec. 2	72.13
Apr. 26	73.74	July 22	71.89				

XB-1. Oscar Schievelbein. On north side of tin barn, on top of hill 25 feet southwest of end of rock-surfaced lane, 0.1 mile south of U. S. Highway 90, 11 miles west of post office at San Antonio.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	125.80	Apr. 23	128.62	July 22	127.03	Oct. 21	131.44
Feb. 21	126.27	May 20	128.75	Aug. 23	131.27	Dec. 2	127.30
Mar. 18	127.68	June 17	127.80	Sept.24	131.47		

XB-2. Oscar Bippert. South side of U. S. Highway 90, near small brick house with wooden water tank on roof, on top of hill, at end of private road, 18 miles west of post office at San Antonio.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	78.34	Apr. 26	82.20	July 22	80.33	Oct. 25	85.15
Feb. 21	79.75	May 20	82.10	Aug. 23	84.34	Dec. 2	81.32
Mar. 21	81.09	June 17	81.30	Sept.21	85.64		

XB-3. Beitel Church. In front yard of white church on north side of U. S. Highway 81, 7.9 miles northeast of postoffice at San Antonio.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	58.32	Apr. 26	61.31	July 25	60.52	Oct. 25	63.42
Feb. 20	58.83	May 23	60.88	Aug. 28	64.07	Dec. 4	59.98
Mar. 22	59.91	June 21	59.43	Sept.24	63.58		

XB-4. Simon and Borgfield. At west end of Converse gin, southeast of elevated water tank in Converse.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	45.15	Apr. 26	47.63	June 21	45.96	Oct. 25	50.13
Mar. 22	46.34	May 23	47.21	Sept.24	50.30	Dec. 4	46.46

436. 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. Unused drilled well, diameter 12 inches. Measuring point, top of casing, 1.5 feet above land surface and 724.06 feet above mean sea level. Water-level recorder maintained on well since Nov. 12, 1932.

Highest daily water level, in feet below measuring point, 1932
(from recorder charts)

Nov. 12	48.46	Nov. 24	48.16	Dec. 6	48.18	Dec. 20	48.15
13	48.24	25	48.08	7	48.23	21	48.12
14	48.09	26	48.16	8	48.25	23	48.01
15	48.14	27	48.24	9	48.12	24	48.03
16	48.32	28	48.19	10	48.16	25	48.11
17	48.18	29	48.22	14	48.06	26	48.05
18	48.18	30	48.24	15	48.07	27	48.02
19	48.14	Dec. 1	48.23	16	48.15	28	48.03
20	48.09	3	48.34	17	48.22	29	48.02
21	48.04	4	48.42	18	48.25	30	47.96
22	48.14	5	48.32	19	48.18	31	48.25
23	48.08						

Bexar County--Continued.

436.--Continued.

Highest daily water level, in feet below measuring point, 1933
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	48.29	.....	48.11	.....	49.47	.....	.....	51.37	51.02	50.94	51.70	51.83
2	48.17	.....	47.96	.....	49.88	49.93	.....	51.28	50.90	50.85	51.65	51.93
3	48.12	48.07	47.98	.....	49.92	50.12	.....	51.30	50.85	50.80	51.66	51.82
4	48.07	48.08	47.98	.....	49.80	50.14	.....	51.43	50.63	50.86	51.60	51.78
5	48.15	48.13	47.87	.....	50.00	50.06	.....	51.46	50.66	51.02	51.63	51.84
6	48.20	47.97	47.83	.....	49.95	50.23	.....	51.44	50.78	51.22	51.58	51.93
7	48.10	47.90	47.77	.....	49.95	50.30	.....	51.37	50.95	51.34	51.57	51.94
8	48.11	48.38	47.76	.....	.....	50.47	51.08	51.53	51.11	51.44	51.48	51.96
9	48.08	48.68	47.81	.....	.....	50.57	51.04	51.61	51.27	51.35	51.59	51.86
10	48.04	48.60	47.96	.....	.....	.....	50.88	51.74	51.30	51.60	51.79	51.76
11	47.98	.....	47.92	.....	.....	.....	51.21	51.76	51.20	51.64	51.80	51.56
12	48.06	.....	47.88	.....	.....	.....	51.49	51.75	51.44	51.64	51.77	51.68
13	48.06	.....	47.82	.....	.....	.....	51.63	51.78	51.58	51.75	51.71	51.69
14	48.08	.....	47.87	49.16	.....	.....	51.68	51.58	51.74	51.86	51.82	51.69
15	47.95	.....	48.05	48.76	.....	.....	51.76	51.99	51.72	51.70	51.83	51.73
16	47.88	.....	48.09	48.93	.....	.....	51.69	51.61	51.63	51.63	52.03	51.66
17	47.87	47.05	48.12	48.88	50.22	.....	51.44	51.55	51.32	51.63	52.05	51.64
18	47.87	47.13	48.05	49.00	50.35	.....	51.72	51.50	51.07	51.82	52.05	51.54
19	47.91	47.09	48.13	.....	50.41	.....	51.91	51.48	51.03	51.96	52.01	51.59
20	47.90	47.10	48.08	.....	50.37	.....	51.95	51.40	50.98	51.98	51.76	51.61
21	47.85	47.16	48.17	.....	50.38	.....	52.12	51.28	51.12	52.02	51.83	51.60
22	47.85	47.24	48.17	.....	50.22	50.36	52.12	51.50	51.30	52.01	51.94	51.60
23	.....	47.25	48.40	.....	50.50	50.51	52.00	51.69	51.24	51.85	52.03	51.61
24	47.80	47.25	48.40	.....	50.57	50.66	51.81	51.87	51.27	52.00	52.05	51.58
25	47.86	.....	48.49	49.01	.....	50.73	52.07	51.51	51.02	52.12	52.05	51.50
26	47.88	.....	48.45	48.98	.....	50.63	52.07	51.36	50.85	52.15	52.05	51.34
27	47.98	.....	48.32	49.13	.....	50.94	52.27	51.23	50.72	52.14	51.76	51.80
28	48.00	48.12	48.28	49.40	.....	51.01	52.32	51.14	50.71	52.06	51.95	51.86
29	47.87	.....	48.22	49.50	.....	51.18	52.19	51.31	.....	51.89	52.00	51.61
30	47.88	.....	.....	49.56	.....	.....	51.70	51.44	50.84	51.70	51.97	51.54
31	47.93	.....	.....	.....	.....	.....	51.36	51.26	.....	51.78	.....	51.61

Highest daily water level, in feet below measuring point, 1934
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	51.62	50.56	51.14	51.02	50.44	53.07	55.56	53.05	56.68	56.18	57.16	55.90
2	51.77	50.61	50.00	50.94	50.38	53.06	55.22	53.13	56.65	55.96	57.12	55.80
3	51.65	50.60	49.30	51.10	50.19	52.98	55.61	53.09	56.39	55.83	56.82	55.88
4	51.75	50.65	49.19	51.24	50.30	52.88	55.59	53.02	56.18	55.72	56.49	55.96
5	51.85	50.67	49.03	51.27	50.43	53.23	55.40	52.99	56.27	55.78	56.43	55.96
6	51.87	50.82	49.09	50.94	50.36	53.26	55.48	53.02	56.44	55.82	56.55	55.90
7	51.95	50.84	49.12	50.29	50.49	53.38	55.63	53.19	56.60	55.94	56.52	55.88
8	52.05	50.80	49.34	49.81	50.87	53.52	55.71	53.30	56.59	55.89	56.41	55.87
9	52.05	50.97	49.47	49.39	51.16	53.64	55.51	53.53	56.50	56.10	56.58	55.76
10	52.05	50.99	49.64	49.46	51.42	53.64	55.76	53.73	56.37	56.30	56.70	55.84
11	51.97	50.85	49.66	49.42	51.49	53.53	55.95	53.82	56.46	56.59	56.52	55.99
12	51.88	50.85	49.64	49.64	51.43	53.90	55.60	53.88	56.22	56.66	.....	56.00
13	51.97	50.93	49.73	49.55	51.43	54.00	55.67	53.90	56.26	56.79	56.50	55.93
14	51.85	50.95	50.03	49.62	51.46	54.25	55.57	54.31	56.33	56.70	56.64	55.92
15	51.84	50.90	50.06	49.60	51.48	54.39	55.81	54.68	56.32	56.67	56.58	55.90
16	51.86	51.11	50.18	49.59	51.39	54.37	55.60	54.90	56.03	56.87	56.42	55.92
17	51.78	51.16	50.19	49.73	51.54	54.46	55.90	55.10	55.76	56.99	56.23	55.89
18	51.67	51.06	50.44	49.90	51.60	54.33	56.01	55.25	55.91	57.02	56.25	55.70
19	51.47	51.06	50.33	49.72	51.68	54.45	56.34	55.28	56.10	56.91	56.08	55.85
20	51.36	51.14	50.45	49.35	51.85	54.58	56.51	.....	56.09	56.85	56.00	55.83
21	51.47	51.15	50.57	49.07	51.82	54.74	56.57	55.48	56.29	56.80	55.94	55.79
22	51.49	51.19	50.62	48.86	52.14	54.94	56.44	55.76	56.34	56.49	56.10	55.94
23	51.55	51.33	50.67	48.90	52.49	55.03	56.06	55.88	56.34	56.86	56.20	55.87
24	51.34	51.20	50.72	49.11	52.64	55.06	56.28	56.03	56.17	56.93	56.10	55.92
25	51.29	51.22	50.58	49.33	52.46	54.71	56.48	56.20	56.53	56.95	56.01	55.94
26	51.30	51.36	50.50	49.59	52.42	55.03	55.65	56.18	56.67	57.15	56.00	55.84
27	51.10	51.57	50.71	49.90	52.48	55.19	54.41	55.99	56.91	57.21	55.95	55.83
28	50.85	51.44	50.75	49.98	52.35	55.34	53.86	56.18	56.79	57.18	56.04	55.16
29	50.62	.....	50.84	50.15	52.60	55.44	53.42	56.35	56.59	56.93	56.00	54.90
30	50.82	.....	50.88	50.21	52.78	55.42	53.19	56.53	56.47	57.11	55.92	54.92
31	50.77	.....	50.97	.....	52.96	.....	53.13	56.72	.....	57.25	.....	54.84

Bexar County--Continued.

436.--Continued.
Highest daily water level, in feet below measuring point, 1935
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.06	55.55	55.29	56.68	56.47	46.38	.....	.....	45.69	42.02	.....	43.95
2	55.13	55.67	55.24	56.80	56.38	46.13	.....	.....	45.60	42.17	.....	44.00
3	55.08	55.62	55.25	56.76	56.18	45.95	.....	.....	45.70	42.26	.....	44.10
4	55.25	55.58	55.18	56.57	56.12	45.52	.....	42.78	45.85	.....	.....	44.15
5	55.23	55.74	55.24	56.32	55.35	45.20	.....	42.75	45.70	.....	.....	44.05
6	55.23	55.84	55.28	56.20	54.36	45.10	.....	43.10	45.60	.....	.....	44.01
7	55.14	55.93	55.39	56.15	53.98	45.07	.....	43.19	45.19	.....	.....	43.98
8	55.23	55.80	55.38	56.13	54.05	45.08	.....	43.42	44.86	.....	.....	43.90
9	55.36	55.75	55.34	56.10	54.20	.....	.....	43.61	44.56	.....	.....	43.85
10	55.39	55.68	55.32	56.20	53.73	.....	.....	43.73	44.31	.....	.....	43.95
11	55.46	55.36	55.29	56.48	52.90	.....	.....	43.69	44.13	.....	.....	43.91
12	55.51	55.03	55.66	56.55	52.50	.....	.....	43.52	43.98	.....	.....	43.95
13	55.58	54.69	55.41	56.83	52.40	.....	.....	43.65	43.82	.....	.....	43.87
14	55.63	54.36	55.48	56.99	52.55	.....	.....	43.82	.....	.....	.....	43.88
15	55.61	54.27	55.69	57.00	52.73	.....	.....	43.84	.....	.....	.....	44.00
16	55.60	54.32	55.77	57.27	52.75	.....	.....	43.84	.....	.....	.....	43.92
17	55.70	54.45	55.98	57.51	52.25	.....	.....	44.07	.....	.....	.....	44.02
18	55.73	54.39	55.86	57.75	51.40	.....	.....	44.14	.....	.....	.....	44.02
19	55.76	54.55	55.95	57.95	49.75	.....	.....	44.12	43.60	.....	.....	44.05
20	55.77	54.74	56.14	57.17	48.38	.....	.....	44.41	43.65	.....	43.50	44.12
21	55.10	54.84	56.23	56.98	48.25	.....	.....	44.67	43.84	.....	43.52	44.02
22	55.21	54.79	56.44	56.82	47.55	.....	.....	44.78	43.86	.....	43.65	43.98
23	55.14	54.87	56.58	56.80	47.43	.....	.....	44.93	43.75	.....	43.80	43.94
24	55.20	54.81	56.68	56.87	47.32	.....	.....	44.98	43.68	.....	43.78	44.06
25	55.24	54.79	56.66	57.00	47.43	.....	.....	45.06	43.38	.....	43.71	44.10
26	55.17	55.09	56.76	57.11	47.55	38.52	.....	44.98	43.00	.....	43.65	44.11
27	55.29	55.26	56.89	57.03	47.45	38.80	.....	45.12	42.74	.....	43.65	44.15
28	55.30	55.30	57.09	57.00	47.59	39.15	.....	45.37	.....	.....	43.83	44.00
29	55.39	.....	57.26	56.85	47.31	.....	.....	45.52	.....	.....	43.85	44.10
30	55.47	.....	56.99	56.55	46.91	.....	.....	45.70	42.09	.....	43.96	44.08
31	55.50	.....	56.82	.....	46.63	.....	.....	45.72	.....	.....	.....	44.12

Highest daily water level, in feet below measuring point, 1936
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.11	45.20	46.08	45.72	46.48	41.10	.....	.....	42.95	42.35	41.89	42.08
2	44.10	45.12	45.88	46.02	46.50	41.04	.....	.....	42.84	42.22	41.84	42.10
3	44.02	45.02	45.52	46.12	46.52	41.06	.....	.....	42.95	42.22	41.95	42.15
4	44.10	45.30	45.15	45.97	46.45	41.20	.....	.....	43.05	42.20	42.03	42.30
5	43.95	45.45	45.02	45.95	46.70	41.25	.....	.....	43.18	42.10	42.05	42.23
6	44.10	45.46	44.89	46.10	46.82	41.30	.....	41.14	43.25	42.23	42.04	42.25
7	44.35	45.55	44.83	46.24	46.97	41.40	.....	41.32	43.12	42.23	42.15	42.25
8	44.39	45.57	44.80	46.24	46.98	41.48	.....	41.40	43.25	41.98	42.25	42.34
9	44.41	45.63	44.74	46.24	46.85	41.77	.....	41.53	43.42	41.88	42.20	42.25
10	44.48	45.58	44.72	46.48	46.65	41.95	.....	41.43	43.72	41.80	42.25	42.23
11	44.52	45.60	44.72	46.69	46.48	42.18	.....	41.85	43.82	41.82	42.10	42.31
12	44.58	45.62	44.77	46.82	46.42	42.24	.....	42.05	43.95	41.75	42.00	42.39
13	44.57	45.63	44.71	46.65	46.45	42.27	.....	42.28	43.97	41.80	42.01	42.30
14	44.65	45.72	44.77	47.12	46.42	42.47	.....	42.28	43.70	41.85	42.06	42.28
15	44.75	45.80	44.80	47.26	46.43	42.43	.....	42.56	43.60	41.89	42.00	42.45
16	44.75	45.82	44.84	47.25	46.45	.....	.....	42.46	43.45	42.00	42.12	42.45
17	44.79	45.70	44.99	47.34	46.48	.....	.....	42.40	43.30	42.08	42.05	42.37
18	44.82	45.95	44.95	47.44	46.54	.....	.....	42.75	43.07	42.17	42.10	42.52
19	45.10	45.95	45.07	.....	46.65	.....	.....	42.90	42.86	42.18	42.15	42.50
20	44.85	45.84	45.22	47.23	46.50	.....	.....	43.07	42.80	42.34	42.15	42.53
21	44.88	45.92	45.26	47.09	46.58	.....	.....	43.21	42.68	42.50	42.10	42.40
22	44.94	45.97	45.17	46.95	46.65	.....	.....	43.30	42.65	42.62	42.10	42.52
23	44.98	46.00	45.10	46.90	46.52	.....	.....	43.32	42.57	42.60	42.05	42.52
24	45.04	45.85	45.30	46.89	45.58	.....	.....	43.24	42.62	42.43	42.11	42.55
25	45.11	45.92	45.46	46.87	44.57	.....	.....	43.34	42.65	42.20	42.18	42.48
26	45.15	45.90	45.42	46.94	43.73	.....	.....	43.40	42.50	42.17	42.19	42.35
27	45.15	46.02	45.50	46.85	43.26	.....	.....	43.56	42.48	42.16	42.17	42.40
28	45.26	46.07	45.65	46.70	42.25	.....	.....	43.50	42.44	42.20	42.18	42.40
29	45.15	46.16	45.68	46.58	41.77	.....	.....	43.35	42.35	42.07	42.06	42.35
30	45.18	.....	45.62	46.55	41.40	.....	.....	43.35	42.30	42.00	42.05	42.34
31	45.25	.....	45.79	.....	41.30	.....	.....	43.12	.....	41.95	.....	42.55

Bexar County--Continued.

436.--Continued.
Highest daily water level, in feet below measuring point, 1937
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.47	43.32	43.95	42.93	45.47	45.75	44.38	46.57	.....	48.76	48.11	48.32
2	42.53	43.49	44.01	43.00	45.63	45.37	44.70	46.50	.....	48.68	48.29	48.41
3	42.57	43.43	44.00	43.10	45.45	44.85	44.80	46.76	.....	48.65	48.43	48.38
4	42.54	43.55	43.93	43.03	45.78	44.35	44.75	46.82	48.35	48.55	48.41	48.39
5	42.60	43.50	43.92	43.16	45.91	43.18	44.44	46.90	48.30	48.80	48.46	48.34
6	42.69	43.45	43.75	43.28	46.00	42.68	44.45	46.90	48.13	48.90	48.48	48.29
7	42.65	43.47	43.55	43.35	46.13	42.25	44.55	47.15	48.30	49.12	48.43	48.20
8	42.74	43.30	43.41	43.55	46.25	42.10	44.75	47.32	48.35	49.07	48.28	48.26
9	43.02	43.67	43.44	43.62	46.30	42.01	44.68	47.18	48.51	49.14	48.40	48.38
10	43.12	43.85	43.30	43.73	46.16	41.98	44.51	47.42	48.57	49.02	48.19	48.43
11	43.02	43.97	43.20	43.82	46.39	42.07	44.43	47.65	48.55	48.74	48.18	48.39
12	42.92	43.97	43.27	43.73	46.48	42.06	44.30	47.75	48.39	48.93	48.18	48.29
13	42.91	43.96	43.25	43.76	46.69	42.16	44.42	47.82	48.23	48.98	48.24	48.18
14	42.88	43.98	43.10	43.79	46.32	42.11	44.47	47.81	48.50	48.45	48.25	48.31
15	42.98	43.79	43.07	43.84	46.32	42.37	44.70	47.85	48.54	48.20	48.13	48.14
16	42.98	43.86	42.96	44.07	46.32	42.53	44.77	47.62	48.56	48.05	48.29	47.78
17	42.78	43.95	42.93	44.27	46.24	42.72	44.90	47.70	48.52	47.83	48.36	47.63
18	42.84	44.12	42.96	44.45	46.51	42.92	44.85	47.72	48.53	47.63	48.37	47.63
19	42.92	44.04	42.92	44.42	46.67	43.07	44.78	47.88	48.35	47.70	48.47	47.57
20	42.88	44.04	42.95	44.71	46.84	43.31	45.08	48.00	48.20	47.74	48.71	47.69
21	42.96	44.10	43.03	44.71	46.94	43.28	45.36	48.00	48.48	47.64	48.54	47.72
22	43.06	44.00	42.94	44.35	46.98	43.52	45.53	47.95	48.65	47.74	48.41	47.65
23	43.23	43.94	43.00	44.20	47.05	43.73	45.66	47.80	48.78	47.75	48.41	47.71
24	43.10	43.95	43.00	44.26	46.97	43.90	45.78	48.17	48.80	47.71	48.36	47.69
25	43.04	44.07	42.90	44.27	47.20	44.12	45.84	48.20	48.73	47.63	48.32	47.67
26	43.23	44.12	42.91	44.24	47.14	44.16	45.80	48.38	48.63	47.72	48.23	47.61
27	43.37	44.00	42.93	44.47	47.20	44.28	46.06	48.35	48.40	47.89	48.17	47.57
28	43.39	44.04	42.93	44.58	47.30	44.20	46.24	48.37	48.55	48.02	48.32	47.64
29	43.41	.....	42.84	44.93	46.70	44.40	46.40	48.26	48.66	48.08	48.26	47.61
30	43.39	.....	42.87	45.28	46.43	44.32	46.45	48.08	48.75	48.20	48.33	46.90
31	43.33	.....	42.92	.....	46.28	.....	46.55	48.20	.....	48.27	.....	46.38

Highest daily water level, in feet below measuring point, 1938
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.18	43.34	44.73	45.42	42.95	44.05	47.44	48.17	49.83	50.05	50.33	50.06
2	46.02	43.22	44.74	45.57	42.80	44.19	47.55	48.51	49.92	50.10	50.22	50.05
3	45.97	43.30	44.80	45.60	42.80	44.25	47.56	48.70	49.97	49.94	50.40	50.07
4	46.10	43.35	44.80	45.52	42.85	44.45	47.44	48.70	49.83	50.17	50.30	50.06
5	46.07	43.37	44.95	45.60	42.70	44.62	47.56	48.78	49.50	50.31	50.30	50.16
6	46.02	43.48	45.13	45.63	42.67	44.55	47.76	48.83	49.58	50.32	50.12	50.05
7	46.19	43.51	45.05	45.72	42.78	44.65	47.87	48.81	49.78	50.34	50.17	50.02
8	46.22	43.61	45.11	45.65	42.79	44.97	48.07	48.68	49.78	50.25	50.06	50.13
9	46.16	43.70	45.00	45.70	42.68	45.00	47.95	48.99	49.79	50.15	50.05	50.20
10	46.13	43.84	45.00	45.70	42.76	44.99	47.97	49.15	49.90	49.93	50.00	50.23
11	46.14	43.84	44.93	45.65	42.90	45.24	47.83	49.31	49.75	50.07	49.93	50.36
12	46.15	43.96	44.95	45.85	43.11	45.45	48.11	49.43	49.45	50.16	49.90	50.35
13	46.25	43.97	44.93	45.92	43.20	45.45	48.19	49.40	49.31	50.30	49.92	50.37
14	46.23	44.00	44.87	45.97	43.25	45.95	48.40	49.31	49.26	50.35	49.95	50.34
15	46.30	44.18	44.94	46.02	43.40	46.00	48.35	49.16	49.19	.....	49.95	50.44
16	46.32	44.31	45.05	46.10	43.33	45.94	48.47	49.49	49.07	.....	49.84	50.40
17	46.27	44.38	45.15	46.27	43.18	45.96	48.41	49.77	48.99	.....	49.90	50.54
18	46.36	44.38	45.16	46.10	43.11	46.10	48.26	49.82	48.91	50.35	49.82	50.48
19	46.40	44.59	45.32	46.04	43.12	46.20	48.61	49.94	48.87	50.08	49.80	50.45
20	46.42	44.60	45.25	45.90	43.18	46.29	48.69	49.88	48.95	50.18	49.90	50.48
21	46.44	44.57	45.25	45.62	43.18	46.51	48.87	49.83	49.13	50.32	50.05	50.38
22	46.52	44.52	45.31	45.44	43.22	46.69	48.74	49.59	49.23	50.40	50.00	50.40
23	46.22	44.54	45.38	45.11	43.19	46.86	48.48	49.95	49.30	.....	49.85	50.53
24	44.77	44.62	45.38	44.85	43.28	46.89	48.15	49.99	49.42	50.19	50.05	50.42
25	44.33	44.64	45.42	44.41	43.25	46.97	47.90	49.83	49.48	50.11	50.23	50.39
26	43.97	44.67	45.52	44.18	43.26	47.05	48.15	49.80	49.30	49.98	50.34	50.40
27	43.68	44.67	45.52	44.05	43.32	46.78	48.19	49.85	49.59	50.20	50.18	50.28
28	43.46	44.66	45.30	43.65	43.42	46.94	48.35	49.73	49.77	50.22	50.15	50.05
29	43.28	.....	45.32	43.35	43.56	47.14	48.40	49.43	49.90	50.34	50.25	50.25
30	43.13	.....	45.35	43.18	43.62	47.30	48.46	49.56	49.95	50.40	50.11	50.23
31	43.28	.....	45.43	.....	43.78	.....	48.29	49.82	.....	50.39	.....	50.03

Bexar County--Continued.

436.--Continued.
Highest daily water level, in feet below measuring point, 1939
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	50.16	50.95	52.29	54.36	55.17	58.04	.....	.....	.....	.....	56.17
2	50.00	50.25	51.02	52.41	54.79	54.88	57.93	.....	.....	.....	.....	56.21
3	49.96	50.42	50.92	52.43	54.95	54.77	57.74	.....	.....	.....	.....	56.12
4	49.97	50.50	50.87	52.76	55.06	54.63	58.00	.....	.....	.....	.....	56.04
5	50.15	50.43	51.03	52.96	54.86	54.46	58.10	.....	.....	.....	.....	56.22
6	50.17	50.36	51.08	53.17	54.98	54.57	58.37	.....	.....	.....	.....	56.29
7	50.25	50.47	51.23	53.08	54.93	54.66	.....	.....	.....	.....	.....	56.27
8	50.19	50.56	51.03	53.07	54.85	54.70	.....	.....	.....	.....	.....	56.32
9	50.11	50.43	51.03	53.02	55.36	54.75	.....	.....	.....	.....	.....	56.29
10	50.14	50.69	51.08	52.85	55.54	54.97	.....	.....	.....	.....	.....	56.24
11	50.12	50.88	51.11	53.43	55.96	55.20	.....	.....	.....	.....	.....	56.17
12	50.09	50.93	51.33	53.70	56.11	55.11	58.16	.....	.....	.....	.....	56.37
13	50.10	50.75	51.28	53.70	56.17	55.56	57.14	.....	.....	.....	.....	56.62
14	50.07	50.78	51.36	53.59	55.64	55.88	56.68	.....	.....	.....	.....	56.67
15	50.08	50.95	51.52	53.57	55.29	56.15	56.33	.....	.....	.....	.....	56.64
16	50.06	50.96	51.60	53.57	55.56	56.37	55.94	.....	.....	.....	56.57	56.58
17	50.00	50.98	51.60	53.53	55.72	56.45	55.51	.....	.....	.....	56.48	56.62
18	50.09	50.88	51.62	53.94	55.84	56.57	55.66	.....	.....	.....	56.41	56.34
19	50.12	50.66	51.62	54.04	55.90	56.32	55.92	.....	.....	.....	56.30	56.52
20	50.12	50.56	51.53	54.32	56.18	56.75	56.06	.....	.....	.....	56.20	56.57
21	50.12	50.98	51.71	54.54	56.18	56.76	.....	.....	.....	.....	56.35	56.54
22	50.17	51.22	51.78	54.56	55.95	57.00	.....	.....	.....	.....	56.35	56.52
23	50.03	51.10	51.91	54.57	56.39	57.05	.....	.....	.....	.....	56.40	56.38
24	50.10	50.99	51.87	54.45	56.61	57.31	.....	.....	.....	.....	56.40	56.52
25	50.29	50.87	51.75	54.67	56.67	57.25	.....	.....	.....	.....	56.46	56.27
26	50.21	50.97	51.58	54.96	56.24	57.03	.....	.....	.....	.....	56.50	55.97
27	50.21	50.84	51.51	54.82	56.37	57.38	.....	.....	.....	.....	56.35	56.02
28	50.03	50.94	51.77	54.71	56.37	57.72	.....	.....	.....	.....	56.50	56.02
29	49.95	.....	52.06	54.71	56.09	57.84	.....	.....	.....	.....	56.45	56.12
30	50.06	.....	52.09	54.57	56.32	57.96	.....	.....	.....	.....	56.29	55.99
31	50.15	.....	52.16	.....	55.62	.....	.....	.....	.....	.....	.....	55.84

Highest daily water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.72	56.50	57.34	.....	59.36	58.17	56.16	60.40	61.89	61.78	60.10	57.68
2	55.80	56.40	57.45	.....	59.55	58.29	56.33	60.45	61.58	61.98	59.94	57.84
3	55.85	56.38	57.58	.....	59.73	58.24	56.46	60.64	61.70	62.20	59.82	58.09
4	55.74	56.19	57.40	.....	60.00	58.55	56.61	60.56	62.01	62.35	59.63	58.16
5	55.84	56.01	57.60	.....	60.15	58.79	56.63	60.52	62.19	62.55	59.71	58.28
6	55.77	56.04	57.55	.....	60.10	59.05	56.83	60.89	62.40	62.57	59.56	58.37
7	55.69	56.16	57.79	.....	60.65	59.23	56.99	61.06	62.51	62.24	59.59	58.43
8	55.72	56.21	57.97	.....	60.72	59.50	57.01	61.25	62.54	61.80	59.59	58.56
9	55.77	56.42	58.05	.....	60.85	59.65	57.43	61.47	62.24	61.64	59.40	58.54
10	55.67	56.37	58.01	.....	59.85	59.18	57.78	61.53	62.62	61.62	59.30	58.65
11	55.57	56.28	57.91	.....	59.61	59.40	58.11	61.36	62.96	61.65	59.32	58.73
12	55.66	56.20	58.15	.....	59.49	59.80	58.36	61.24	62.92	61.69	59.44	58.77
13	55.57	56.47	58.45	.....	59.28	60.15	58.44	61.63	62.93	61.61	59.63	58.06
14	55.70	56.75	58.36	.....	59.46	59.70	58.17	61.81	62.89	61.36	59.77	57.37
15	55.86	56.75	58.56	.....	59.76	59.23	57.81	61.85	62.66	61.50	59.83	56.70
16	55.89	56.67	58.60	.....	60.05	58.60	57.82	61.93	62.43	61.55	59.76	55.14
17	55.86	56.65	58.52	.....	60.02	58.32	57.70	62.11	62.84	61.65	59.71	54.22
18	55.87	56.73	58.40	.....	59.85	58.35	57.56	62.26	62.99	61.79	59.63	53.73
19	56.54	56.55	58.70	.....	59.71	58.45	57.71	61.76	63.03	61.90	59.73	53.42
20	56.88	56.85	58.50	.....	59.31	57.95	57.88	61.62	63.10	61.84	59.89	53.19
21	56.72	56.92	58.35	.....	59.55	.....	58.00	61.74	62.96	61.79	59.92	53.05
22	56.50	57.05	.....	.....	59.80	57.48	57.91	61.82	62.63	62.13	60.02	52.98
23	56.58	56.92	.....	.....	59.42	57.30	58.42	61.91	62.11	62.37	59.73	52.83
24	56.68	56.94	.....	.....	58.57	57.20	58.56	62.04	62.06	62.47	58.90	52.82
25	56.78	57.07	.....	.....	58.39	57.31	58.80	61.92	62.01	62.06	57.94	52.73
26	56.76	56.95	.....	.....	58.40	57.52	59.06	61.86	61.91	61.62	57.52	52.63
27	56.76	56.88	.....	59.48	58.31	57.80	59.26	62.22	61.81	61.27	57.52	52.85
28	56.63	57.04	.....	59.32	58.45	57.97	59.35	62.55	61.84	61.01	57.62	52.97
29	56.43	57.15	.....	58.87	58.42	58.11	59.25	62.32	61.79	61.03	57.60	53.18
30	56.48	.....	.....	59.06	58.10	56.42	59.75	62.28	61.67	60.92	57.68	53.27
31	56.50	.....	.....	.....	58.05	.....	60.18	62.07	.....	60.81	.....	53.35

Brazos County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

7. W. H. Hanover. North side of "Old San Antonio Road", 11.8 miles northeast of Benchley. Water levels, in feet below measuring point, 1940: Apr. 2, 29.68; July 10, 21.32; Nov. 22, 31.61.

9. Grant McDonald. On south side of "Old San Antonio Road", 1.85 miles west of Navasota River bridge. Water levels, in feet below measuring point, 1940: Apr. 2, 26.42; July 10, 26.74; Nov. 22, 26.89.

Brooks County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845 and 886.

202. No measurements made in 1940.

254. E. G. Maun. Two and one half miles northwest of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 14.61.

266. Mrs. B. M. McCullar. Two miles northwest of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 18.75.

270. J. W. Story. One mile northwest of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 21.30.

272. Measurements discontinued.

273. George Franks. One and one half miles west of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 16.64.

322. Filled in. Measurements discontinued.

323. R. D. Donahoe. One mile southwest of center of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 16.06.

324. L. O. Atkinson. One mile south of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 16.87.

333. A. L. Brochet. One mile south of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 15.30.

334. Cecilio Salinas. One mile south of center of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 17, 15.54.

336. E. E. Freeze. One and one half miles south of center of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 17, 12.97.

337. Mrs. J. S. Donahue. One and one half miles south of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 14.27.

340. Dr. H. M. Bennett. Two miles south of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 17, 9.51.

390. Southern Pacific Railway. South of railway station in Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 16.34.

397. J. W. Dale. Two miles east of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 21.91.

405. A. Rupp. Five miles east of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 22.45.

474. A. Rupp. Five and one half miles east-southeast of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 24.26.

504. Neal Rupp. Five and one half miles east-southeast of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 27.04.

505. Neal Rupp. Five and one half miles east-southeast of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 19, 23.64.

821. Garcia Ramos. Twelve miles west-northwest of Rachal. Water level, in feet below measuring point, 1940: Feb. 18, 69.17.

Brooks County--Continued.

822. Garcia Ramos. Twelve miles west of Rachal. Water level, in feet below measuring point, 1940: Feb. 18, 58.53.

865. Florencio Rodriguez. Four and one half miles west of Rachal. Water level, in feet below measuring point, 1940: Feb. 18, 77.98.

872. No measurements made in 1940.

874. No measurements made in 1940.

882. E. Villareal. Five miles west of Rachal. Water level, in feet below measuring point, 1940: Feb. 18, 86.32.

885. Juan Longoria. Four and one half miles west of Rachal. Water level, in feet below measuring point, 1940: Feb. 14, 65.79.

918. Jose Garcia Ramos. West side of highway, Encino settlement. Water level, in feet below measuring point, 1940: Feb. 18, 43.27.

920. Prospero Mangel, Jr. West side of highway, Encino settlement. Water level, in feet below measuring point, 1940: Feb. 18, 45.08.

921. Nicolas Cantu. East side of highway, Encino settlement. Water level, in feet below measuring point, 1940: Feb. 18, 42.61.

Burleson County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

42. City of Caldwell. North side of State Highway 36, at northeast edge of Caldwell. Water levels, in feet below measuring point, 1940: Apr. 1, 1.18; July 9, 1.12.

43. City of Caldwell. One hundred twenty feet northeast of well 42. Water levels, in feet below measuring point, 1940: Apr. 1, 0.98; July 9, 0.96.

48. Otto Benndt. State Highway 36, 1 mile north of Caldwell. Water levels, in feet below measuring point, 1940: July 9, 33.32; Nov. 21, 33.27.

71. A. R. Richardson. Seventy-two feet east of old State Highway 36, 2.5 miles north of Chriesman. Water levels, in feet below measuring point, 1940: Apr. 1, 56.06; July 9, 56.21; Nov. 21, 56.31.

75. L. Kornegay. Fifteen hundredths mile north from crossroads in Chriesman, 7 miles northwest of Caldwell. Water levels, in feet below measuring point, 1940: Apr. 1, 45.48; July 9, 45.44; Nov. 21, 45.53.

114. Joe Veiss. About 1.25 miles southwest of Caldwell. Water levels, in feet below measuring point, 1940: Apr. 1, 14.20; July 9, 13.34; Nov. 21, 14.34.

115. No measurements made in 1940.

147. Filled in. Measurements discontinued.

211. Santa Fe R. R. About 40 feet southwest of well 115. Unused drilled industrial well, diameter 10 inches, depth 353 feet. Measuring point, top of casing, 1 foot above land surface. Water levels, in feet below measuring point: Oct. 19, 1938, 83.65; May 2, 1939, 82.78; Dec. 6, 1939, 81.57; Nov. 21, 1940, 82.39.

Carson County

Well numbers correepond to those in Water-Supply Paper 886:

165A. Along U. S. Highway 60, 3 miles southwest of Gray-Carson County line. Water levels, in feet below measuring point, 1940: Apr. 9, 332.02; Aug. 6, 332.13; Dec. 4, 332.09.

174. No measurements made in 1940.

Castro County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

4. L. L. Cannon. At railroad crossing in west edge of Summerfield. Water level, in feet below measuring point, 1940: Nov. 8, 104.88.

8. S. P. Rosson. NW cor. SW¼NW¼ sec. 125, blk. M-7, 4.5 miles southeast of Summerfield. Water level, in feet below measuring point, 1940: Mar. 19, 74.76.

12. L. B. Holland. SW cor. SW¼NW¼ sec. 128, blk. M-7, 3.75 miles east of Summerfield. Water levels, in feet below measuring point, 1940: Mar. 19, 101.26; Nov. 17, 102.66.

18. No measurements made in 1940.

20. A. C. Hawks. NW cor. NW¼NE¼ sec. 97, blk. M-7, 8.0 miles east of Summerfield and 1.7 miles southeast of Frio Public School. Water levels, in feet below measuring point, 1940: Mar. 19, 73.32; Nov. 7, 79.06.

31. T. L. Sparkman, Jr. NW cor. SE¼SW¼ sec. 74, blk. M-7, 3.0 miles south of Castro-Deaf Smith County line, 1.75 miles west of State Highway 51. Water levels, in feet below measuring point, 1940: Mar. 19, 63.28; Nov. 7, 68.25.

32. W. A. Springer. SW¼NW¼NW¼ sec. 81, blk. M-7, 8.0 miles east of Summerfield and 2.0 miles east of Frio Public School. Water levels, in feet below measuring point, 1940: Mar. 19, 64.46; Nov. 7, 68.25.

36. M. C. Hancock. SW¼NE¼ sec. 72, blk. M-7, 12 miles north of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 19, 85.23; Nov. 7, 92.44.

40. W. W. Adams. NW¼SW¼ sec. 51, blk. M-7, 10 miles north of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 19, 65.75; Nov. 7, 68.67.

46. Edwin Mauk. SW cor. SW¼ sec. 54, blk. M-7, 7 miles north of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 19, 75.20; Nov. 7, 78.28.

48. J. M. Richardson. NW cor. NW¼ sec. 30, blk. M-7, 13.2 miles east of Summerfield. Water levels, in feet below measuring point, 1940: Mar. 19, 64.41; Nov. 7, 68.86.

52. C. G. Maples. NW¼NE¼ sec. 1, blk. M-10A, 6½ miles north of Dimmitt. Water level, in feet below measuring point, 1940: Mar. 19, 71.59. Pump installed. Measurements discontinued.

53. W. A. Hunter. SW cor. SW¼NW¼ sec. 52, blk. M-7, 11.0 miles east of Summerfield. Water levels, in feet below measuring point, 1940: Mar. 19, 61.62; Nov. 7, 64.45.

57. E. S. Ireland. SE¼SW¼SE¼ sec. 33, blk. M-7, 6 miles north of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 19, 78.87; July 23, 79.45; Dec. 19, 79.57.

58. SW¼SW¼ sec. 2, J. E. Tucker subd., 2 miles northeast of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 19, 154.04; July 23, 154.01; Nov. 7, 154.16; Dec. 19, 154.92.

201. NW¼NE¼ sec. 339, blk. M-6, 6.5 miles east of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 20, 153.02; July 23, 152.89; Dec. 19, 153.03.

202. Frank Huseman. SW¼SE¼SW¼ sec. 222, blk. M-6, 11 miles east of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 20, 105.17; July 23, 105.30.

203. B. Decker Estate. SW¼SE¼SW¼ sec. 217, blk. M-6, 11½ miles east of Dimmitt. Water levels, in feet below measuring point, 1940: Mar. 20, 99.75; July 23, 99.77. Measurements discontinued.

Cherokee County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

22. Ben Pritchard. Near U. S. Highway 69, 5.15 miles north of railroad station at Mt. Selman. Water levels, in feet below measuring point, 1940: Apr. 3, 9.27; July 11, 6.92; Nov. 26, 3.74.

27. G. A. McKee. At south city limits of Mt. Selman, on U. S. Highway 69. Water levels, in feet below measuring point, 1940: Apr. 3, 32.71; July 11, 31.53; Nov. 26, 5.18.

158. G. N. Smith. About 500 feet west of U. S. Highway 69, 1.9 miles north of junction with U. S. Highway 175 in Jacksonville. Water levels, in feet below measuring point, 1940: Apr. 3, 15.89; July 11, 12.89; Nov. 25, 6.45.

159. Henry Grimes. About 500 feet west of U. S. Highway 175 in Jacksonville. Water levels, in feet below measuring point, 1940: Apr. 3, 30.30; July 11, 26.73; Nov. 25, 24.20.

179. Ruth Ragsdale. Four and eighty-five hundredths miles northwest of Jacksonville. Water levels, in feet below measuring point, 1940: Apr. 3, 14.38; July 11, 13.06; Nov. 25, 5.27.

186. Joanna Thomas. Nine and one-fourth miles northwest of Jacksonville. Water levels, in feet below measuring point, 1940: Apr. 3, 29.01; July 11, 28.73; Nov. 25, 29.02.

365. M. G. Hazell. Six and ninety-five hundredths miles southeast of Rusk. Water levels, in feet below measuring point, 1940: Apr. 9, 36.33; July 16, 36.28; Nov. 29, 35.81.

418. Mrs. Betty Ferguson. Fifteen feet west of yellow house with tin roof and white porch, 0.3 mile north of junction of county road and highway, 10.4 miles southeast of city park in Jacksonville along U. S. Highway 69. Water levels, in feet below measuring point, 1940: Apr. 9, 21.49; July 16, 19.46; Nov. 29, 9.69.

502. Texas State Forest well 3. About 300 feet east of forester's residence. Twelve and one half miles west of Rusk on U. S. Highway 84. Unused drilled CCC camp well, diameter 6 inches, depth 1,420 feet, water-bearing bed at about 500 feet. Measuring point, top of casing, 1.5 feet above land surface. Water levels, in feet below measuring point: Dec. 14, 1939, 128.89; Apr. 9, 1940, 129.03; July 16, 1940, 129.46; Nov. 19, 1940, 128.65.

622. W. S. Satterwhite. Nine and one half miles southeast of Rusk. Water levels, in feet below measuring point, 1940: Apr. 9, 13.99; July 16, 14.16; Nov. 28, 5.43.

657. City of Alto. In Alto, about 20 feet northeast of city pumping plant. Forty feet north of well 658. Used drilled public supply well, diameter 6 inches, depth 525 feet. Measuring point, top of discharge pipe, 6 feet above land surface. Equipped with air lift.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Oct. 12, 1938	150.87	Dec. 14, 1939	199.15	July 16, 1940	150.02
Feb. 10, 1939	147.02	Apr. 9, 1940	149.13	Nov. 29	150.80
May 8	147.60				

658. City of Alto. In Alto, about 30 feet southeast of city pumping plant, about 40 feet south of well 657. Used drilled public supply well, diameter 6 inches, depth 600 feet. Measuring point, top of steel pump base, 1.5 feet above land surface. Equipped with turbine pump. Water levels, in feet below measuring point: Feb. 10, 1939, 139.00; Dec. 14, 1939, a149; July 16, 1940, a146; Nov. 29, 1940, a147.

a Airline and gauge measurement.

Cherokee County--Continued.

690. Mrs. Ellamae McCulloch. East side of U. S. Highway 69, 1.85 miles southeast of Alto. Water levels, in feet below measuring point, 1940: Apr. 9, 7.89; July 14, 8.04; Nov. 28, 4.94.

694. G. M. Harry. West side of U. S. Highway 69, 11.9 miles southeast of Alto. Water levels, in feet below measuring point, 1940: Apr. 9, 20.03; July 14, 19.62; Nov. 28, 20.01.

707. E. R. McClain. West of U. S. Highway 69, 16.1 miles southeast of Alto. Water levels, in feet below measuring point, 1940: Apr. 9, 32.68; July 14, 32.25; Nov. 28, 32.04.

Cochran County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. Beck Gin Company. Northeastern edge of Whiteface. Water level, in feet below measuring point, 1940: Mar. 26, 151.35.

3. Two and eight-tenths miles northwest of Whiteface. Water level, in feet below measuring point, 1940: Mar. 26, 154.37. Measurements discontinued.

4. Measurements discontinued.

5. Dave Linder. Fifteen hundredths mile south of State Highway 24, 7.9 miles northwest of Whiteface. Water levels, in feet below measuring point, 1940: Mar. 26, 126.92; Dec. 3, 126.71.

6. Measurements discontinued.

7. Measurements discontinued.

8. Measurements discontinued.

10. Five miles north of Morton, NW¼SE¼ sec. 30, lge. 105. Water levels, in feet below measuring point, 1940: Mar. 26, 94.81; Dec. 3, 95.02.

11. No measurements made in 1940.

Comal County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

117. Alfred Beierle. Elias Flint survey, 3.5 miles southeast of Spring Branch.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	134.07	Apr. 30	131.39	Aug. 28	128.96	Oct. 29	125.77
Feb. 27	135.06	May 23	130.80	Sept.27	126.72	Dec. 5	131.25
Mar. 26	130.88	July 1	133.25				

118. Henry Jonas Estate. A. H. Jones survey 78, 3 miles northwest of Smithson Valley.

Water level, in feet below measuring point, 1940

Jan. 29	93.49	Apr. 30	93.49	July 26	93.54	Oct. 29	93.48
Feb. 27	93.52	May 29	93.49	Aug. 28	93.47	Dec. 5	93.49
Mar. 26	93.49	July 1	93.51	Sept.27	93.48		

119. John Stricker. Four miles southeast of Spring Branch.

Water level, in feet below measuring point, 1940

Jan. 29	173.55	Apr. 30	173.87	July 25	174.12	Oct. 28	173.99
Feb. 27	173.53	May 23	173.94	Aug. 27	174.13	Dec. 5	174.33
Mar. 26	173.86	June 27	174.06	Sept.26	174.24		

Comal County--Continued.

120. S. L. Gill. William Strawn survey 74, 2 miles south of Spring Branch.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	78.60	Apr. 30	80.86	July 25	82.85	Oct. 29	84.20
Feb. 28	80.31	May 23	81.00	Aug. 28	84.06	Dec. 5	75.86
Mar. 26	80.95	June 27	86.13	Sept.26	82.77		

127. No measurements made in 1940.

131. J. J. Arrechea. Theo. Hanz survey 725, 5.5 miles south of Spring Branch.

Water level, in feet below measuring point, 1940

Jan. 29	119.91	Apr. 30	120.58	July 25	120.83	Oct. 29	121.37
Feb. 27	120.11	May 29	120.76	Aug. 27	120.98	Dec. 5	121.52
Mar. 26	120.34	June 27	120.82	Sept.27	121.21		

155. George Fronne. Aga. Hara survey, 6 miles north of Bulverde.

Water level, in feet below measuring point, 1940

Jan. 29	121.00	May 23	116.65	July 25	116.62	Sept.26	116.82
Feb. 28	116.31	July 1	116.73	Aug. 27	116.70	Oct. 28	116.66
Mar. 26	116.60						

162. O. A. Doeppenschmidt. Two hundred feet northwest of State Highway 46, 9 miles east of Bulverde. Used drilled stock well, diameter 6 inches, depth 350 feet. Measuring point, top of iron water pipe clamp, 0.6 foot above land surface.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Oct. 11, 1939	139.86	Mar. 26, 1940	140.08	July 1, 1940	138.39
Jan. 29, 1940	139.71	Apr. 29	140.01	Sept.27	140.51
Feb. 27	139.85	May 23	139.99	Oct. 28	140.05

171. Mrs. Mattie Shelburne. C. George survey, 3 miles northeast of Bulverde.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	239.03	Apr. 30	239.47	July 25	239.69	Oct. 28	239.90
Feb. 28	239.11	May 23	239.54	Aug. 27	239.83	Dec. 5	239.35
Mar. 26	239.45	June 27	239.71	Sept.26	240.19		

183. August Wehe. At town of Bulverde, G. Herrera survey 192.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 29	281.52	May 23	278.97	Aug. 27	283.05
Feb. 27	278.71	July 1	277.44		

184. Charles Willig. A. Gayton survey 194, 1.5 miles east of Bulverde. Water level of Nov. 12, 1936, affected by flood stage of nearby river. Corrected measurements for 1939 are included.

Water level, in feet below measuring point, 1939-40

Oct. 11, 1939	323.09	Feb. 27, 1940	323.17	June 27, 1940	324.44
Dec. 19	323.35	Apr. 30	323.69	July 27	324.44
Jan. 30, 1940	326.00	May 23	320.24	Oct. 29	325.25

Comal County--Continued.

193. W. B. Ethridge. Anna Vecker survey 678, 5.5 miles east of Bulverde.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	225.33	May 23	224.71	Aug. 27	225.08	Oct. 29	225.97
Feb. 28	224.71	June 27	223.75	Sept.26	226.01	Dec. 5	217.12
Apr. 30	225.31	July 25	225.81				

195. Robert Heimer. About 200 feet northwest of State Highway 46, 9 miles east of Bulverde. Used drilled domestic and stock well, diameter 6 inches, depth 178 feet. Measuring point, top of iron water pipe clamp, 0.7 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Jan. 29	50.00	Apr. 29	50.05	Sept.27	50.06	Dec. 6	49.98
Feb. 27	50.05	June 27	49.97	Oct. 29	50.05		

221. Albert Simon. Juan M. De Veramendi survey, 4 miles north of New Braunfels.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 29	170.71	Apr. 29	170.73	Aug. 28	170.64
Mar. 26	170.89	May 24	170.96	Sept.23	171.20

222. William Kraft. Juan M. de Veramendi survey, 4 miles northwest of New Braunfels.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	183.21	Apr. 29	183.37	July 29	182.49	Sept.23	183.78
Feb. 27	183.32	May 24	183.54	Aug. 28	183.29	Oct. 29	184.12
Mar. 26	183.49	July 1	182.46				

223. Albert Kraft. I. Miller survey 266, 4.5 miles northwest of New Braunfels.

Water level, in feet below measuring point, 1940

Jan. 29	215.23	Apr. 29	215.62	July 26	214.38	Oct. 29	216.09
Feb. 27	216.56	May 24	215.74	Aug. 28	215.20	Dec. 5	215.96
Mar. 26	216.23	July 1	214.97				

225. W. H. Harborth Estate. E. Hernandez survey 454, 4 miles northwest of New Braunfels.

Water level, in feet below measuring point, 1940

Jan. 29	183.10	Apr. 29	183.62	July 29	182.60	Oct. 29	184.13
Feb. 27	183.32	May 24	183.79	Aug. 28	183.20	Dec. 5	184.16
Mar. 26	183.57	June 27	183.14	Sept.26	183.75		

226. Henry Heise. E. Hernandez survey 454, 5 miles north of New Braunfels.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 29	250.57	Mar. 26	251.07	Oct. 29	251.75
Feb. 27	250.82	July 1	250.18	Dec. 5	251.81

Comal County--Continued.

232. A. J. Caldwell. H. Adams survey 652, 8 miles northwest of New Braunfels.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	180.30	May 23	180.77	Aug. 27	178.83	Oct. 28	185.31
Feb. 27	175.89	June 27	181.33	Sept.26	177.27	Dec. 5	187.62
Apr. 29	177.94	July 26	182.86				

263-A. Alfred Kappelmacher. At junction of Bulverde and State Highway 46, 3.75 miles northwest of New Braunfels.

Water level, in feet below measuring point, 1940

Jan. 29	234.75	Apr. 29	235.12	July 26	234.54	Oct. 29	235.97
Feb. 28	234.89	May 23	234.98	Aug. 27	235.11	Dec. 5	236.00
Mar. 26	235.12	June 27	234.18	Sept.23	235.55		

271. Robert Raabe. One and one-half miles northeast of Gruene station.

Water level, in feet below measuring point, 1940

Jan. 23	92.86	Apr. 27	93.02	July 29	92.50	Oct. 29	93.43
Feb. 27	93.04	May 29	93.00	Aug. 27	92.95	Dec. 5	92.77
Mar. 22	93.12	June 27	92.65	Sept.27	93.32		

274. Charles Soechting. Three miles northeast of Gruene station.

Water level, in feet below measuring point, 1940

Jan. 23	156.10	Mar. 22	156.17	June 27	155.82	Oct. 30	156.17
Feb. 27	155.91	Apr. 29	155.52	Aug. 27	155.45		

278. Nancy Gruene. Two and one-half miles southwest of Hunter, 4.4 miles northeast of Thornhill school.

Water level, in feet below measuring point, 1940

Jan. 23	152.58	Apr. 29	152.93	July 26	151.82	Oct. 29	153.37
Feb. 27	152.69	May 24	152.85	Aug. 27	152.50	Dec. 5	152.11
Mar. 22	152.84	July 1	151.95	Sept.27	153.17		

281. Measurements discontinued.

291. Oscar Preiss. One and one-tenth miles southeast of Thornhill school.

Water level, in feet below measuring point, 1940

Jan. 24	56.00	Apr. 27	56.14	July 29	55.87	Oct. 28	56.58
Feb. 27	56.10	May 28	56.05	Aug. 27	56.33	Dec. 5	55.95
Mar. 22	56.19	June 27	55.68	Sept.23	56.57		

326. William Schaeffer. Thirty feet north of old U. S. Highway 81, 3.5 miles southwest of Solms.

Water level, in feet below measuring point, 1940

Jan. 30	38.47	Apr. 26	39.94	July 25	39.44	Oct. 29	40.86
Feb. 20	38.63	May 23	40.05	Aug. 28	41.44	Dec. 4	39.58
Mar. 22	39.52	June 21	39.22	Sept.24	41.64		

336. A. W. Feich. On ridge point, about 500 feet south of old U. S. Highway 81, 1.5 miles southwest of Solms.

Water level, in feet below measuring point, 1940

Jan. 30	86.46	Apr. 30	87.68	July 25	87.55	Oct. 29	89.37
Feb. 20	86.81	May 23	88.20	Aug. 28	89.14	Dec. 4	88.05
Mar. 22	87.48	June 21	87.71	Sept.26	89.49		

Comal County--Continued.

373. L. Jentsch. North side of U. S. Highway 81, 1 mile east of Solms.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 22	26.91	May 23	27.50	Oct. 29	28.56
Apr. 26	26.44	Sept.24	28.52		

397. Perry Jones. North side of new U. S. Highway 81, and south side of old highway, 300 feet east of junction of old and new highways. Water levels, in feet below measuring point, 1940: Jan. 30, 186.29; May 23, 188.11; June 21, 188.05.

399. John Karback. One and thirty-five hundredths miles north of Gruene station.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	176.99	Apr. 30	176.99	July 29	176.27	Oct. 28	177.54
Feb. 28	177.77	May 28	176.98	Aug. 27	176.81	Dec. 6	176.88
Mar. 22	177.15	June 25	176.58	Sept.23	177.30		

Crosby County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. C. E. Dean (formerly J. E. Rudell). In Cone. Water level, in feet below measuring point, 1940: Mar. 22, 114.20.

2. C. B. Travis. One and eighty-five hundredths miles south of Cone. Water levels, in feet below measuring point, 1940: Mar. 22, 107.17; Nov. 29, 107.08.

3. New Home School. Three and eighty-five hundredths miles south of Cone. Water levels, in feet below measuring point, 1940: Mar. 22, 135.84; Nov. 29, 135.52.

4. Six and seventy-five hundredths miles south of Cone. Water levels, in feet below measuring point, 1940: Mar. 22, 120.13; Nov. 29, 120.01.

5. Measurements discontinued.

6. Miss D. M. Ralls. In Ralls. Water level, in feet below measuring point, 1940: Mar. 22, 121.91.

7. In Ralls. Water levels, in feet below measuring point, 1940: Mar. 22, 95.16; Nov. 29, 95.68.

8. No measurements made in 1940.

9. East edge of Lorenzo. Water levels, in feet below measuring point, 1940: Mar. 22, 80.25; Nov. 29, 81.44.

46. J. R. Noble. SW¼SW¼ J. F. Littlefield survey, 15 miles northwest of Crosbyton. Water level, in feet below measuring point, 1940: Mar. 22, 111.17; measurements discontinued.

337. W. E. McLaughlin. NW cor. NE¼ sec. 925, blk. C-3, 14.5 miles west of Crosbyton. Water levels, in feet below measuring point, 1940: Mar. 22, 88.94; Nov. 29, 88.98.

338. W. E. McLaughlin. NW cor. NW¼ sec. 925, blk. C-3, 15 miles west of Crosbyton. Water levels, in feet below measuring point, 1940: Mar. 22, 89.98; Nov. 29, 90.07.

Dallam County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

11a. Dewey Decker. NW cor. SW¼ sec. 4, blk. 2, 8 miles east of Texline. Used drilled irrigation well. Measuring point, top of ½-inch hole in north side of pump base, 1.0 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Jan. 4, 1939	46.10	Sept. 6, 1939	46.15	Apr. 12, 1940	45.78
Mar. 9	45.62	Oct. 29	45.86	July 1	47.85
Apr. 8	45.72	Nov. 17	45.75	Aug. 20	47.85
May 8	45.64	Dec. 16	45.76	Sept.24	48.00
July 8	48.46	Jan. 24, 1940	45.90	Oct. 23	48.00
10	47.80	Feb. 12	45.90	Dec. 4	47.50
Aug. 5	47.55	Mar. 18	45.70		

14. Measurements discontinued.

16. M. E. Hay. SW cor. SE¼SE¼ sec. 71, M. E. Hay subd., 6.5 miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	32.00	Apr. 12	32.43	Dec. 6	32.81
Mar. 19	32.46	July 1	33.04		

19. B. M. Hay. SE¼SE¼ sec. 60, M. E. Hay subd., 6 miles east of Texline. Water level, in feet below measuring point, 1940: Mar. 19, 61.58.

20. J. C. Doss. NW cor. NE¼ sec. 69, M. E. Hay subd., 4.75 miles northeast of Texline. Water levels, in feet below measuring point, 1940: Feb. 12, 62.20; Mar. 19, 61.91; Apr. 12, 62.19; Dec. 6, 61.93.

20a. Shamberger. NE cor. SE¼SE¼ sec. 68, M. E. Hay subd., 4 miles northeast of Texline. Unused drilled domestic and stock well, diameter 5 inches, depth 62 feet. Measuring point, top of casing on south side, 1.2 feet above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

Dec. 29, 1938	51.95	Aug. 5, 1939	51.85	Apr. 12, 1940	51.70
Mar. 9, 1939	51.89	Sept. 6	51.86	July 1	51.75
Apr. 8	51.88	Oct. 29	51.85	Aug. 20	51.75
May 8	51.90	Nov. 17	51.70	Sept.24	51.75
June 19	51.86	Dec. 16	51.70	Oct. 23	51.75
July 8	51.85	Mar. 19, 1940	51.65	Dec. 4	52.54

21. Mrs. S. H. Madden. SW cor. NW¼NW¼ sec. 70, M. E. Hay subd., 5 miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	66.77	Mar. 19	66.63	Dec. 6	66.89
Feb. 12	66.60	Apr. 12	66.68		

36a. Art Decker. NW¼SW¼ sec. 1, blk. 2, 8.5 miles northeast of Texline.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	41.20	Apr. 12	41.05	Aug. 20	42.00	Oct. 23	48.00
Feb. 12	41.10	July 1	42.56	Sept.24	41.80	Dec. 4	48.33
Mar. 19	40.90						

40. J. M. French. NE¼NE¼ sec. 3, F. D. W. subd., blk. 2, 9.5 miles east of Texline. Water level, in feet below measuring point, 1940: Dec. 6, 5.51.

Dallam County--Continued.

41. Measurements discontinued.

42. T. L. Thompson. SW cor. sec. 5, blk. 3, 12.5 miles east of Texline.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	12.20	Apr. 12	11.50	Sept. 24	13.55	Dec. 4	13.00
Mar. 18	11.68	Aug. 20	13.00	Oct. 23	13.35		

49. A. F. Harm. SE¼SE¼ sec. 3, F. D. W. subd., blk. 2, 9.5 miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	19.93	Mar. 18	19.91	July 1	20.55	Sept.24	21.80
Feb. 12	20.00	Apr. 12	19.93	Aug. 20	21.80	Dec. 4	(a)

52. Daniel Siedel. SE cor. SW¼ sec. 5, F. D. W. subd., blk. 2, 3 miles east of Texline. Water levels, in feet below measuring point, 1940: Jan. 24, 39.32; Feb. 12, 39.20; Mar. 19, 41.45.

57. Dr. O. Powell. SW cor. SE¼ sec. 8, F. D. W. subd., blk. 4, 10 miles east of Texline. Water levels, in feet below measuring point, 1940: Jan. 24, 25.57; Mar. 19, 25.43; Apr. 12, 25.34; July 1, 26.05.

59. Measurements discontinued.

60. Draper School. NW¼NE¼ sec. 2, F. D. W. subd., blk. 4, 11.5 miles northeast of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	71.48	Apr. 12	71.60	Aug. 20	72.60	Oct. 23	71.70
Feb. 12	71.50	July 1	71.58	Sept.24	74.15	Dec. 4	71.90
Mar. 19	71.08						

61. Burrows & Son. NW cor. sec. 7, F. D. W. subd., blk. 4, 10.5 miles east of Texline. Water levels, in feet below measuring point, 1940: Jan. 24, 25.43; Apr. 12, 25.73; Dec. 6, 26.13.

63. Measurements discontinued.

64. Measurements discontinued.

65. Measurements discontinued.

67a. A. R. Pope. NE cor. NE¼ sec. 4, F. D. W. subd., blk. 4, 13 miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	18.24	Apr. 12	17.46	Aug. 20	19.00	Oct. 23	19.40
Feb. 12	17.80	July 1	18.02	Sept.24	19.55	Dec. 4	19.30
Mar. 19	17.56						

68. Measurements discontinued.

72. W. L. Cotton. NE¼NE¼ sec. 1, F. D. W. subd., blk. 5, 8 miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	36.41	Mar. 19	35.99	Aug. 20	37.20	Oct. 23	37.45
Feb. 12	36.10	Apr. 12	35.94	Sept.24	37.35	Dec. 4	37.43

73. Martin Sewell. NE¼NW¼ sec. 1, F. D. W. subd., blk. 5, 7⅛ miles east of Texline.

Water level, in feet below measuring point, 1940

Jan. 24	39.45	Apr. 12	39.15	Aug. 20	40.00	Oct. 23	40.40
Mar. 19	39.20	July 1	39.60	Sept.24	40.25	Dec. 4	40.73

a Filled to depth of 19.8 feet. Measurements discontinued.

Dallam County--Continued.

95. Measurements discontinued.

98. Measurements discontinued.

106. Measurements discontinued.

108. Measurements discontinued.

122. Church well. SE cor. sec. 13, C. S. S. subd., blk. 17, 22.5 miles east of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 43.72; Dec. 6, 43.82.

126. Ben Warkentin. SE cor. sec. 28, C. S. S. subd., blk. 17, 20.5 miles east of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 19.27; Dec. 6, 19.49.

130. I. I. Regier. SE¼SW¼ sec. 17, C. S. S. subd., blk. 17, 18 miles east of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 16.53; Dec. 6, 17.61.

152. C. O. Hawk. NW cor. sec. 57, blk. 8, 16.5 miles southeast of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 247.30; Aug. 8, 247.06; Dec. 6, 246.86.

158. G. H. Gardets. NW¼SE¼ sec. 77, C. S. S. subd., blk. 7, 4.75 miles southeast of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 72.59; Dec. 6, 72.38.

158a. At Corlena, 150 yards south and 150 yards west of railroad crossing. Unused drilled stock well, diameter 4½ inches, depth 106 feet. Measuring point, top of casing on west side, 0.5 foot above land surface. Equipped with windmill. Water levels, in feet below measuring point: Mar. 8, 1939, 74.17; Apr. 12, 1940, 74.47; Aug. 8, 1940, 74.03; Dec. 6, 1940, 73.96.

159. L. E. Paige. SE cor. NE¼ sec. 83, C. S. S. subd., blk. 7, 3.25 miles southeast of Texline. Water levels, in feet below measuring point, 1940: Apr. 12, 69.02; Aug. 8, 69.37; Dec. 6, 69.80.

234. Ware Public School. In Ware. Water level, in feet below measuring point, 1940: Dec. 6, 275.20.

241. J. F. Shellenberg. NW cor. sec. 30, C. S. S. subd., blk. 18, 26.5 miles north of Dalhart. Water levels, in feet below measuring point, 1940: Apr. 12, 51.54; Dec. 6, 51.60.

243. A. P. Epp. SE cor. sec. 2, blk. 18, 28 miles north of Dalhart. Water levels, in feet below measuring point, 1940: Apr. 12, 34.96; Dec. 6, 34.65.

248. Measurements discontinued.

289. No measurements made in 1940.

319. Conlen Public School. In Conlen. Water level, in feet below measuring point, 1940: Aug. 8, 257.81. Measurements discontinued.

367. Price, Dawson & Fuqua. NE¼NE¼ sec. 25, C. S. S. subd., blk. 1, 6 miles north of Dalhart. Water level, in feet below measuring point, 1940: Apr. 12, 261.59. Measurements discontinued.

376. Hale and Parks. SE¼NW¼ sec. 12, Capitol Syndicate subd., blk. 2, 10.5 miles northwest of Dalhart. Water levels, in feet below measuring point, 1940: Apr. 12, 247.29; Aug. 8, 246.92; Dec. 6, 247.54.

377. E. Ashby. NE¼SW¼ sec. 3, blk. 2, 8.5 miles northwest of Dalhart. Water levels, in feet below measuring point, 1940: Apr. 12, 207.58; Dec. 6, 206.80.

384. O. F. Salasky. SW¼SW¼ sec. 31, B. & B. subd., blk. 2, 5.5 miles west of Dalhart. Water levels, in feet below measuring point, 1940: Apr.12, 200.55; Aug. 8, 199.97; Dec. 6, 199.76.

386. No measurements made in 1940.

Dawson County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

9. I. M. Stafford. NE cor. SE¼ sec. 41, blk. 35, T. 5 N., 6.6 miles southeast of Lamesa on U. S. Highway 87, thence 1.4 miles west. Unused drilled stock and domestic well, diameter 6 inches, depth 86 feet. Measuring point, top of pipe clamp on south side, 0.6 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Apr. 29, 1938	81.92	Aug. 10, 1939	81.36	Nov. 25, 1940	81.15
Jan. 23, 1939	81.67	Aug. 2, 1940	81.40		

601. Panhandle & Santa Fe Railway Company. NW¼NE¼ sec. 71, blk. 35, T. 6 N., 1.5 miles north of Lamesa. Water level, in feet below measuring point, 1940: Mar. 1, 107.68. Measurements discontinued.

602. Owner unknown. SW¼SE¼ sec. 44, blk. 35, T. 6 N., 1.6 miles north of Lamesa and 0.45 miles west of U. S. Highway 87. Water levels, in feet below measuring point, 1940: Mar. 1, 89.78; Aug. 2, 89.94.

603. No measurements made in 1940.

606. Gus White. SE¼ sec. 13, blk. 35, T. 6 N., 7.4 miles north of Lamesa on U. S. Highway 87, thence 0.8 mile west on dirt road. Water levels, in feet below measuring point, 1940: Mar. 1, 100.2; Aug. 2, 100.54; Nov. 25, 99.81.

607. Gus White. NE¼ sec. 13, blk. 35, T. 6 N., 7.4 miles north of Lamesa on U. S. Highway 87 thence 0.1 mile north. Water level, in feet below measuring point, 1940: Mar. 1, 86.20.

611. V. B. Hohn. Eleven and six-tenths miles northeast of Lamesa at Hindman Switch. Water level, in feet below measuring point, 1940: Mar. 1, 52.32.

612. SE cor. SE¼ sec. 6, blk. 34, 12.4 miles northeast of Lamesa and 0.2 mile west of U. S. Highway 87. Water levels, in feet below measuring point, 1940: Aug. 2, 78.56; Nov. 25, 78.38.

614. Texas Highway Department. On east side of U. S. Highway 87 right-of-way, 15.4 miles northeast of Lamesa. Water levels, in feet below measuring point, 1940: Mar. 1, 47.94; Aug. 2, 48.68; Nov. 25, 48.36.

702. Mrs. W. H. Gartin. NW¼ sec. 46, blk. 34, T. 4 N., 2.6 miles northwest of Ackerly. Water levels, in feet below measuring point, 1940: Mar. 1, 100.08; Nov. 25, 99.63.

705. L. Simpson. Near center of sec. 18, blk. 34, T. 4 N., on east side of U. S. Highway 87, 8.5 miles northwest of Ackerly. Water level, in feet below measuring point, 1940: Nov. 25, 96.08.

706. H. Richardson. SE cor. SE¼ sec. 12, blk. 35, T. 4 N., on east side of U. S. Highway 87, 9.2 miles northwest of Ackerly. Measurements resumed. Water levels, in feet below measuring point, 1940: Aug. 2, 84.86; Nov. 25, 83.95.

707. R. Huff. SE¼SW¼ sec. 7, blk. 34, T. 4 N., 0.3 mile east of U. S. Highway 87, 9.2 miles northwest of Ackerly. Water levels, in feet below measuring point, 1940: Mar. 1, 85.15; Aug. 2, 85.24; Nov. 25, 85.20.

708. V. O. Barron. About 600 feet northeast of intersection of dirt road and U. S. Highway 87, 9.1 miles southeast of Lamesa. Water levels, in feet below measuring point, 1940: Mar. 1, 133.07; Aug. 2, 133.50; Nov. 25, 133.42.

709. Truett Shipley. SW cor. SW¼ sec. 47, blk. 35, T. 5 N., 0.8 mile west of U. S. Highway 87, 9.1 miles southeast of Lamesa. Water level, in feet below measuring point, 1940: Nov. 25, 66.13.

Dawson County--Continued.

710. O. Williams. NE¼ sec. 3, blk. 35, T. 4 N., 1.2 miles west of U. S. Highway 87, 9.1 miles southeast of Lamesa. Water level, in feet below measuring point, 1940: Nov. 25, 52.48.

711. Dan Bartlett. NE¼NW¼ sec. 3, blk. 35, T. 4 N., 1.6 miles west of U. S. Highway 87, 9.1 miles southeast of Lamesa. Water levels, in feet below measuring point, 1940: Aug. 2, 82.28; Nov. 25, 82.19.

712. H. H. Barron. Near center of sec. 33, blk. 35, T. 5 N., 3.2 miles southeast of Lamesa on U. S. Highway 87 thence 2.4 miles south on dirt road and 0.35 mile east in field. Measurements resumed. Water levels, in feet below measuring point, 1940: Mar. 1, 79.05; Aug. 2, 79.06; Nov. 25, 78.91.

713. Elmer Walls. SW¼SE¼ sec. 21, blk. 35, T. 5 N., 0.1 mile east of U. S. Highway 87, 4.2 miles southeast of Lamesa. Water level, in feet below measuring point, 1940: Aug. 2, 95.44.

714. H. H. Barron. NE¼NE¼ sec. 29, blk. 34, T. 5 N., 3.2 miles southeast of Lamesa, on U. S. Highway 87, thence 0.95 mile south on dirt road. Water levels, in feet below measuring point, 1940: Mar. 1, 72.06; Aug. 2, 71.96; Nov. 25, 71.87.

716. Measurements discontinued.

718. J. E. Garland. North city limits of Lamesa on U. S. Highway 87 and 0.1 mile west. Water levels, in feet below measuring point, 1940: Mar. 1, 90.82; Aug. 2, 91.19; Nov. 25, 91.17.

719. Measurements discontinued.

720. No measurements made in 1940.

Deaf Smith County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

51. Well filled; measurements discontinued.

53. Well filled; measurements discontinued.

54. Texas Loan and Mortgage Company. SW¼SE¼ sec. 25, blk. K-7, 15.5 miles north of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 161.24.

113. A. S. Higgins. NW cor. NW¼NW¼ sec. 58, blk. K-4, 12.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 98.73; Nov. 8, 98.83.

127. Federal Life Ins. Company. SE¼SE¼ sec. 36, blk. 7, 18 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 74.38; July 24, 74.30.

128. M. H. Byrum. SW¼SE¼ sec. 36, blk. 7, 18 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 25.45.

144. Filled; measurements discontinued.

148. Measurements discontinued.

150. D. Thompson. SE¼SE¼ sec. 79, blk. K-4, 10.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 96.84; Nov. 8, 98.29.

201. Measurements discontinued.

205. Measurements discontinued.

207. R. Schroeler. West line of NW¼SW¼ sec. 12, blk. K-3, 9 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 54.97; Nov. 8, 56.06.

212. Alfred May. NW cor. NE¼NW¼ sec. 16, blk. 3, 12 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Nov. 8, 81.73.

216. H. H. Miller. SW cor. SE¼ sec. 14, blk. 3, 13 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Nov. 8, 71.62.

Deaf Smith County--Continued.

217. W. E. Neal. SE¼NW¼ sec. 21, blk. 3, 13 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 91.61.

219. J. E. Manz. NE¼NW¼ sec. 11, blk. 3, 14 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 76.83; Nov. 8, 79.88.

220. C. T. Wimberley. SW cor. SW¼ sec. 22, blk. 3, 11.5 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 85.66.

224. M. H. Burum. SE cor. NE¼SE¼ sec. 25, blk. 3, 10 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Nov. 8, 57.83.

226. J. B. Stoker. NW cor. NW¼NE¼ sec. 7, blk. K-3, 9 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 51.13.

230. E. C. Reineaur. NW cor. SW¼ sec. 6, blk. K-3, 7.5 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 47.49; Nov. 7, 50.49.

234. Sec. 534, excess acreage strip, 7.75 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Nov. 8, 53.04.

235. W. G. Slagle. SW¼SE¼ sec. 5, blk. K-3, 7 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 53.74; Nov. 7, 55.88.

236. Western National Bank. SW cor. SW¼ sec. 5, blk. K-3, 6.4 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 48.14; July 24, 48.68; Nov. 7, 49.37.

237. Western National Bank. NW cor. NW¼ sec. 5, blk. K-3, 7 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 45.16; Nov. 7, 48.91.

241. J. K. Estes. NW cor. NW¼NW¼ sec. 17, blk. K-3, 5.5 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 47.52; Nov. 7, 48.46.

242. Travis Damron. NW cor. SW¼ sec. 24, blk. K-3, 4.5 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 50.75.

245. A. D. Smith. SW cor. NW¼NW¼ sec. 25, blk. K-3, 5.5 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 44.73; Nov. 7, 56.39.

247. NE¼NE¼ sec. 34, blk. K-3, 7.5 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 23.76.

248. NE¼NW¼ sec. 34, blk. K-3, 7 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 45.65; July 23, 45.90; Nov. 8, 46.34.

251. A. D. Thompson and Blakemore. The most southwesterly of 3 wells. NW cor. SW¼NW¼ sec. 47, blk. K-3, 6.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 49.86; Nov. 8, 53.19.

258. Dr. G. W. Heard. SW cor., NE¼ sec. 77, blk. K-3, 3 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 55.68; Nov. 8, 57.97.

260. Measurements discontinued.

261. D. L. McDonald. NW cor. NW¼NW¼ sec. 65, blk. K-3, 4 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 52.76; Nov. 8, 55.77.

264. Measurements discontinued.

265. Reineaur Bros. NW cor. SE¼ sec. 74, blk. K-3, 6 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 65.16; Nov. 8, 76.08.

Deaf Smith County--Continued.

272. Empire Mortgage Company. SW cor. SE¼SW¼ sec. 86, blk. K-3, 5 miles northwest of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 70.14; Nov. 8, 73.19.

276. SW¼SW¼ sec. 69, blk. K-3, 7.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 39.98; Oct. 29, 40.86.

277. H. H. Myers. SE¼SE¼ sec. 72, blk. K-3, 7.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 24.75; July 23, 25.01; Oct. 29, 25.33; Nov. 8, 25.51.

278. Measurements discontinued.

281. P. H. Filbin. NW¼NW¼ sec. 96, blk. K-3, 5.5 miles northwest of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 67.44.

283. J. T. Gilbreath. North line of NW¼NE¼ sec. 133, blk. M-7, 3 miles west of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 64.65; Nov. 8, 70.74.

288. John W. Kropff. NW¼NW¼ sec. 63, blk. K-3, 2.5 miles north of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 65.00; Nov. 8, 72.63.

291. S. L. Harman. NW cor. NW¼ sec. 59, blk. K-3,1 mile northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 55.77; Nov. 7, 59.33.

299. Measurements discontinued.

300. SW¼SW¼ sec. 43, blk. K-3, 2 miles northeast of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 48.62.

301. SE¼SE¼ sec. 43, blk. K-3, 2.6 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 48.08; Nov. 7, 49.93.

302. J. L. Fuqua. NE¼SE¼ sec. 39, blk. K-3, 4 miles northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 54.19; Nov. 7, 55.67.

308. Hereford State Park. NW cor. NE¼NE¼ sec. 60, blk. K-3, 1 mile northeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 49.55; July 23, 50.30; Nov. 7, 51.42.

311. H. H. Boardman. SW cor. SE¼SW¼ sec. 41, blk. K-3, 2 miles east of Hereford. Water level, in feet below measuring point, 1940: Mar. 19, 51.70.

315. C. P. Hussey. SW¼NE¼ sec. 67, blk. M-7, 3.5 miles east of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 55.92; Nov. 7, 60.18.

317. L. Baskin. SW cor. SE¼SE¼ sec. 110, blk. M-7, 1.6 miles south of courthouse, in Hereford. Water level, in feet below measuring point, 1940: Oct. 29, 68.32.

319. Hooker Estate. SW cor. SE¼NE¼ sec. 79, blk. K-3, 1 mile northwest of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 61.58; Nov. 8, 62.85.

322. Lloyd Edwards. SW cor. SE¼ sec. 112, blk. M-7, 2.5 miles south of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 73.26; Oct. 29, 75.84; Nov. 7, 75.56.

326. SW cor. SW¼SW¼ sec. 114, blk. M-7, 5 miles south of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 91.76; Nov. 7, 95.53.

331. M. C. Doss. SW cor. NW¼ sec. 107, blk. M-7, 4 miles south of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 81.37; Nov. 7, 83.57.

336. E. J. Boeskin. SW cor. NE¼ sec. 86, blk. M-7, 3.5 miles southeast of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 87.54; Nov. 7, 88.74.

340. Felix Urbanczyk. SW¼SW¼ sec. 108, blk. M-7, 3.75 miles south of Hereford. Water level, in feet below measuring point, 1940: Nov. 7, 86.04.

Deaf Smith County--Continued.

342. Felix Urbanczyk. NE¼SE¼ sec. 108, blk. M-7, 3.5 miles south of Hereford. Water levels, in feet below measuring point, 1940: Mar. 19, 76.48; Nov. 7, 82.09.

410. J. H. Weems. SE cor. SE¼SE¼ sec. 36, blk. K-8, 8 miles northwest of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 65.02; Nov. 8, 66.40.

431. Mrs. M. Wooldridge. NE¼NE¼ sec. 152, blk. M-7, 4.5 miles southwest of Hereford. Water level, in feet below measuring point, 1940: Nov. 8, 72.50.

433. Measurements discontinued.

502. M. S. Tannahill. NW¼NW¼ sec. 50, blk. K-8, 8.5 miles west of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 96.23; Nov. 8, 103.08.

506. Alton Fraser. NW¼NW¼ sec. 5, Gregg County School Land, 9 miles west of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 75.30.

513. W. L. Parrott. SW¼SW¼ sec. 174, blk. M-7, 7.5 miles southwest of Hereford. Water level, in feet below measuring point, 1940: Mar. 20, 79.89.

514. Measurements discontinued.

519. J. G. Evans. SW¼SW¼ sec. 25, Gregg County School Land, 10 miles west of Hereford. Water levels, in feet below measuring point, 1940: Mar. 20, 86.35; Nov. 8, 86.63.

Dimmit County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845, and 886.

M9-9. Meyers. Two and one-half miles southwest of Cometa. Water level, in feet below measuring point: Aug. 14, 1939, 85.30; no measurements made in 1940.

N7-25. Mrs. Ella Perrin. Four and one-quarter miles southeast of Cometa. Unused drilled irrigation well, diameter 6 inches, depth 350 feet. Measuring point, top of casing, set in concrete block inside 6 feet high concrete sump tank, 1.0 foot above land surface.

Water level, in feet below measuring point, 1930, 1937-1940

Date	Water level	Date	Water level	Date	Water level
May 14,1930	53.30	Jan. 11, 1938	54.20	July 19, 1939	57.52
July 14,1937	53.13	Aug. 24	55.12	Aug. 13	56.82
Aug. 15	56.60	Apr. 6, 1939	64.09	Aug. 2, 1940	53.77

N7-34. A. Johnson. Two miles northwest of Winter Haven. Water levels, in feet below measuring point: Aug. 16, 1939, 45.24; July 31, 1940, 34.53.

N7-48. H. Hagelstein. One mile east of Winter Haven. Water levels, in feet below measuring point: Aug. 12, 1939, 46.67; Aug. 1, 1940, 32.19.

N7-53. Measurements discontinued.

N7-78. C. Schmitt. Two miles northwest of Carrizo Springs. Water levels, in feet below measuring point: Aug. 13, 1939, 104.92; Aug. 2, 1940, 104.32.

N7-95. M. E. Cook. Three miles west of Carrizo Springs. Water levels, in feet below measuring point: Aug. 13, 1939, 74.98; Aug. 2, 1940, 74.67.

N7-125. J. Gardner. Carrizo Springs. Water levels, in feet below measuring point: Aug. 13, 1939, 66.51; Aug. 2, 1940, 66.97.

Dimmit County--Continued.

N7-127. Measurements discontinued.

N7-135. J. L. Bell. Two miles southwest of Carrizo Springs. Water levels, in feet below measuring point: Aug. 12, 1939, 32.03; Dec. 9, 1939, 32.03; Aug. 2, 1940, 32.40.

N8-19. Hill and Morton. Two miles southeast of Winter Haven. Water levels, in feet below measuring point: Aug. 12, 1939, 79.64; Aug. 1, 1940, 69.33.

N8-26. Charles Dunn. Four miles southeast of Winter Haven. Water levels, in feet below measuring point: Aug. 16, 1939, 53.48; July 31, 1940, 37.97.

N8-28. J. C. Brazil. Four miles southeast of Winter Haven. Water levels, in feet below measuring point: Aug. 16, 1939, 53.86; July 31, 1940, 38.16.

N8-29. J. C. and O. E. Bookout. Four and one-half miles southeast of Winter Haven. Water level, in feet below measuring point, 1939: Aug. 16, 53.07. No measurements made in 1940.

N8-40. M. V. Kerley. Three miles northeast of Carrizo Springs. Water levels, in feet below measuring point: Aug. 12, 1939, 34.89; Aug. 1, 1940, 43.34.

N8-47. C. W. Miller. Two miles east of Carrizo Springs. Water levels, in feet below measuring point: Aug. 11, 1939, 85.08; Dec. 11, 1939, 90.18; July 30, 1940, 83.96.

N8-50. R. H. Price. Three miles east of Carrizo Springs. Water levels, in feet below measuring point: Aug. 11, 1939, 65.00; Dec. 11, 1939, 66.73; July 30, 1940, 56.90.

N8-58. G. & C. Hagelstein. Six miles northeast of Carrizo Springs. Water levels, in feet below measuring point: Aug. 11,1939, 40.47; Dec. 11, 1939, 42.18; July 30, 1940, 26.06.

N8-71. S. M. Owens. Five miles southwest of Brundage. Water levels, in feet below measuring point: Aug. 11, 1939, 41.85; July 30, 1940, 25.31.

N8-73. C. W. Wheeler. Two miles southwest of Brundage. Water level, in feet below measuring point, 1939: Aug. 15, 32.61. No measurements made in 1940.

N8-103. Nueces Land & Irrigation Company. Four miles southwest of Brundage. Water levels, in feet below measuring point: Aug. 15, 1939, 32.42; Dec. 8, 1939, 27.73; Aug. 3, 1940, 12.94.

N9-8. T. S. Buchanan. One and one-half miles north of Big Wells. Water levels, in feet below measuring point: Aug. 11, 1939, 57.28; July 30, 1940, 49.67.

N9-12. R. J. Rothe. One mile west of Big Wells. Water levels, in feet below measuring point: Aug. 11, 1939, 21.67; Dec. 11, 1939, 20.71; July 30, 1940, 11.41.

N9-16. R. B. White Co. One and one-half miles east of Big Wells. Water level, in feet below measuring point, 1939: Aug. 11, 68.73. No measurements made in 1940.

N9-25. South Texas Estates. Four miles southeast of Brundage. Water level, in feet below measuring point, 1940: July 30, 6.15.

N9-32. P. J. Lewis. Two and one-half miles south of Big Wells. Water levels, in feet below measuring point: Aug. 11, 1939, 28.88; July 30, 1940, 18.68.

N9-33. P. J. Lewis. In county road, 2.5 miles south of Big Wells. Used drilled domestic well, diameter 6 inches, depth 1,523 feet. Measuring point, top of casing, 1.0 foot above land surface. Equipped with windmill.

Dimmit County--Continued.

N9-33.--Continued.

Water level, in feet below measuring point, 1932, 1936-40

Date	Water level	Date	Water level	Date	Water level
Aug. 21, 1932	16.50	Aug. 17, 1937	38.44	July 18, 1939	26.94
Dec. 22	14.26	Jan. 15, 1938	23.98	Aug. 11	28.13
Aug. 24, 1936	36.02	Aug. 22	36.28	Dec. 11	24.58
July 10, 1937	22.11	Apr. 9, 1939	43.56	July 30, 1940	17.59

O7-3. Wimar-Richardson. Nine miles northwest of Big Wells. Water levels, in feet below measuring point: Aug. 11,1939, 99.67; July 30, 1940, 94.61.

S1-15. South Texas Winter Gardens, Inc. Six miles southwest of Carrizo Springs. Water levels, in feet below measuring point: Aug. 12, 1939, 56.40; Aug. 2, 1940, 56.64.

S1-16. C. W. Gilfillen and Son. Four and one-half miles southwest of Carrizo Springs. Water levels, in feet below measuring point: Aug. 12, 1939, 59.61; Dec. 9, 1939, 59.72; Aug. 2, 1940, 59.63.

S1-18. South Texas Winter Gardens, Inc. Three and one-half miles southwest of Carrizo Springs. Water levels, in feet below measuring point: Aug. 12, 1939, 106.94; Dec. 9, 1939, 107.06; Aug. 2, 1940, 106.90.

S2-24. L. V. Richardson. Five and one-half miles southeast of Carrizo Springs. Water levels, in feet below measuring point: Aug. 13, 1939, 99.69; Dec. 9, 1939, 108.05; Aug. 3, 1940, 97.57.

S2-27. J. A. McDonald. Three and one-half miles northeast of Asherton. Water levels, in feet below measuring point, 1939: Aug. 11, 57.50; Dec. 8, 55.43. No measurements made in 1940.

S2-29. E. W. Tackett. Four miles northwest of Asherton. Water levels, in feet below measuring point: Aug. 12, 1939, 73.74; Dec. 9, 1939, 82.12; Aug. 3, 1940, 68.29.

S2-77. Measurements discontinued.

S2-78. J. W. Robinson. Two and one-half miles southwest of Asherton. Water levels, in feet below measuring point: Aug. 15, 1939, 158.52; Dec. 10, 1939, 165.46; Aug. 3, 1940, 145.73.

S2-86. E. Hess. Four miles southeast of Asherton. Water levels, in feet below measuring point: Aug. 15, 1939, 127.33; Aug. 3, 1940, 122.87.

S2-91. L. Zaunbrecher. Five miles south of Asherton. Water levels, in feet below measuring point: Aug. 15, 1939, 139.56; Aug. 4, 1940, 138.96.

S2-94. A. J. Frey. Nine miles west of Catarina. Water levels, in feet below measuring point: Aug. 15,1939, 176.51; Aug. 4, 1940, 171.78.

S2-102. J. P. Giles. Four miles northwest of Catarina. Water levels, in feet below measuring point: Aug. 15, 1939, 111.08; Dec. 8, 1939, 111.07; Aug. 3, 1940, 104.80.

S3-10. G. W. Taggert. Four and one-half miles northeast of Catarina. Water levels, in feet below measuring point: Aug. 15,1939, 74.46; Aug. 3, 1940, 65.84.

S3-16. Catarina Farms Company. Two and one-half miles west of Catarina. Unused drilled irrigation well, diameter 10 inches. Measuring point, top concrete curb around casing, 1.5 feet above land surface.

Water level, in feet below measuring point, 1936-40

Aug. 27, 1936	138.80	Jan. 13, 1938	131.55	July 15, 1939	133.41
July 13, 1937	129.24	Aug. 25	133.64	Aug. 15	134.11
Aug. 14	135.82	Apr. 8, 1939	140.56	Aug. 3, 1940	126.32

Dimmit County--Continued.

S5-3. Ingram & Eckler. Six miles east of Catarina. Water levels, in feet below measuring point: July 16, 1939, 103.88; Aug. 15, 1939, 104.10; Aug. 4, 1940, 97.62.

S5-5. Claude Lindley. Thirteen miles southwest of Catarina. Water levels, in feet below measuring point: Aug. 15, 1939, 67.64; Aug. 4, 1940, 67.38.

S5-10. Watson. Five miles southwest of Catarina. Water level, in feet below measuring point, 1939: Aug. 15, 82.37. No measurements made in 1940.

S6-4. C. V. Ray. One and one-half miles southeast of Catarina. Water levels, in feet below measuring point: Aug. 15, 1939, 11.71; Dec. 8, 1939, 10.39; Aug. 3, 1940, 5.09.

T1-5. Flecher. Two and one-quarter miles east of Valley Wells. Water levels, in feet below measuring point: Aug. 11, 1939, 7.95; July 30, 1940, 1.79.

Duval County

Well numbers correspond to those in Water-Supply Papers 776, 777, 840, 845, and 886.

55. L. N. Garcia. Three and seven-tenths miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 56.35.

59. Candeladio Cuellar. Six miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 63.10.

61. Jose M. Sepulyida. Seven miles northwest of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 45.40.

68. Cantu Estate. Nine miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 60.06.

69. Juan Peralez. Nine miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 73.26.

70. M. Cantu. Ten and four-tenths miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 52.11.

71. Helena de Pena. Eleven and two-tenths miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 43.13.

72. Cecilio Valerio. Twelve miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 37.74.

73. Severo Ranjel. Eleven miles west of San Diego. Water level, in feet below measuring point, 1940: Feb. 12, 37.67.

143. Salidonia Ruiz. In Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 41.38.

144. Pete Coronada. In Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 41.64.

145. T. Ramirez. In Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 42.14.

157. Francisco Vaello. Two and one-half miles southwest of Benavides. Water level, in feet below measuring point, 1940: Feb. 14, 92.25.

158. Marco Gomez. One and three-quarters miles southwest of Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 96.31.

173. Ismael Garcia. Two and one-third miles east of Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 51.57.

175. Mrs. Tom Cavenaugh. One mile east of Benavides. Water level, in feet below measuring point, 1940: Feb. 13, 43.98.

Duval County--Continued.

183. Lazaro Vela. Eight miles south of San Diego. Water level, in feet below measuring point, 1940: Feb. 13, 54.53.

184. Eusebio Alanis. Seven and one-half miles south-southwest of San Diego. Water level, in feet below measuring point, 1940: Feb. 13, 46.53.

185. Cervando Saenz. Ten miles south of San Diego. Water level, in feet below measuring point, 1940: Feb. 13, 36.28.

187. Ranchita Anjerlina. Ten and one-half miles south of San Diego. Water level, in feet below measuring point, 1940: Feb. 13, 44.46.

188. Encarnacion Pena. One mile north of San Jose. Water level, in feet below measuring point, 1940: Feb. 13, 76.06.

189. Pedro Lopez. At San Jose, 13 miles south of San Diego. Water level, in feet below measuring point, 1940: Feb. 13, 62.20.

190. Margarita Lopez. One half mile south of San Jose. Water level, in feet below measuring point, 1940: February 13, 45.44.

201. Maria Villareal de Saenz. One and one-fourth miles north of Santa Cruz. Water level, in feet below measuring point, 1940: Feb. 13, 75.86.

203. N. E. Martinez. In Santa Cruz. Water level, in feet below measuring point, 1940: Feb. 13, 51.75.

204. Hilario Saenz. One mile south of Santa Cruz. Water level, in feet below measuring point, 1940: Feb. 13, 67.14.

207. Guadalupe Silva Salinas. Two miles east of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 54.70.

209. W. S. Evans. In Conception. Water level, in feet below measuring point, 1940: Feb. 13, 39.25.

211. J. Perez. One and one-third miles north of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 41.60.

230. San Antonio Loan and Trust Company. Three and one-half miles south of Realitos. Water level, in feet below measuring point, 1940: Feb. 13, 65.67.

240. Gus Minges. One and one-half miles northeast of Realitos. Water level, in feet below measuring point, 1940: Feb. 13, 95.90.

271. J. Mann. Five and one-half miles south-southeast of Realitos. Water level, in feet below measuring point, 1940: Feb. 13, 76.25.

276. Herman Damier. Ten and one-fourth miles south of Realitos. Water level, in feet below measuring point, 1940: Feb. 14, 39.98.

287. Virginia J. Ramidez. Four miles southwest of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 49.56.

289. Adolfo Garcia. Three and one-fourth miles northeast of Sejita. Water level, in feet below measuring point, 1940: Feb. 13, 46.66.

290. Andalasia Garcia. Javelina pasture, 3 miles northeast of Sejita. Water level, in feet below measuring point, 1940: Feb. 13, 51.95.

292. Raphael Flores. One mile east of Sejita. Water level, in feet below measuring point, 1940: Feb. 13, 32.80.

297. San Antonio Loan and Trust Company. Six and one-half miles south-southeast of Sejita. Water level, in feet below measuring point, 1940: Feb. 14, 53.59.

301. Virginia Garcia. Five miles south of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 52.77.

302. Rafael Garcia. Four and one-half miles south of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 33.01.

Duval County--Continued.

304. Rafael Garcia. Three miles south of Conception. Water level, in feet below measuring point, 1940: Feb. 13, 53.67.

315. No measurements made in 1940.

319. No measurements made in 1940.

322. Santone Hinojosa. Three-fourths mile east of La Copita. Water level, in feet below measuring point, 1940: Feb. 14, 39.63.

Ector County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

68. H. C. Barrow Estate. SE¼NW¼ sec. 15, blk. 42, T. I.S., about 0.3 mile east of State Highway 51, 10 miles north of Odessa. Water level, in feet below measuring point, 1940: Jan. 1, 81.08; measurements discontinued.

68a. H. C. Barrow Estate. Seismograph test hole, 10.4 miles north of Odessa. Water levels, in feet below measuring point, 1940: Jan. 16, 72.39; July 31, 72.32; Nov. 23, 72.36.

73a. J. M. Gist. Seismograph test hole, NE¼SE¼ sec. 33, blk. 42, T. I. S., 7 miles north of Odessa. Water levels, in feet below measuring point, 1940: Jan. 16, 71.65; July 31, 71.51; Nov. 23, 70.71.

149. Odessa Cemetery. One-half mile southeast of Odessa County Courthouse. Unused drilled well, diameter 6 inches, depth 87 feet. Measuring point, top of concrete curb around casing, 0.4 foot above land surface.

Water level, in feet below measuring point, 1937-38, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 16, 1937	45.80	Jan. 24, 1938	48.32	Aug. 1, 1940	49.27
June 28	47.18	Jan. 17, 1940	47.03	Nov. 23	48.03

161. J. M. Gist. SW¼SW¼ sec. 10, blk. 42, T. 2 S., 2.5 miles north of Odessa. Water levels, in feet below measuring point, 1940: Jan. 16, 62.40; July 31, 62.67; Nov. 23, a/63.15.

a Windmill 150 feet southeast, pumping.

El Paso County

By A. N. Sayre

The water levels in 52 wells in the vicinity of El Paso, an increase of 12 wells over 1939, were measured about once a month during 1940. Sixteen of the wells are used chiefly or entirely for observational purposes; the rest of the wells are pumped either continuously or at intervals. The water-level measurements were mostly made when the pumps were idle; but in the wells that were operated continuously the measurements were made while the wells were being pumped.

The water levels declined in most of the wells for which measurements are available during the entire year, chiefly because there was a considerable increase in pumpage during the year. The average decline in water level in 32 wells was 2.5 feet. However, in and near the Montana well field the water levels in 7 wells rose an average of 1.55 feet. The pumping in this field was stopped in November, and hence there was an opportunity for the water levels to recover in spite of the fact that the pumpage from the field in 1940 was considerably greater than in 1939.

The average daily pumpage from all the wells in the El Paso area during 1940 was 18,355,000 gallons, as compared with 16,800,000 gallons during 1939. The smallest pumpage for any one month occurred in January when an average of 13,320,000 gallons a day was pumped; the largest was in June when the average daily pumpage was 24,200,000 gallons. The total pumpage in the El Paso area during 1940 was about 6,705,278,000 gallons, an increase of 556,250,000 gallons over the pumpage in 1939. The El Paso Water Department pumped 3,298,061,000 gallons from 11 wells--833,146,000 gallons from the Montana well field, 1,134,307,000 gallons from wells in the downtown area, and 1,330,608,000 gallons from wells in the Mesa well field. The pumpage from private wells, including the wells at Fort Bliss and the city of Juarez, amounted to 407,217,000 gallons. The principal increases in pumpage occurred from the wells at Fort Bliss and the Montana well field. The pumpage from the municipal wells in the downtown area increased only slightly and the pumpage from the wells in the Mesa well field decreased slightly.

El Paso County--Continued.

In the following tables the water levels are expressed in feet above mean sea level. Well numbers correspond to those in Water-Supply Paper 886, except for the wells added during 1940. The highest and lowest water levels on record for each well, except as noted in this report, are given in Water-Supply Papers 817, 840, and 886.

6. El Paso Electric Co. well 2, Santa Fe and 4th Streets.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3,698.85	Apr. 15	3,697.27	July 16	3,697.48	Oct. 15	3,698.07
Feb. 21	3,698.91	May 25	3,696.75	Aug. 14	3,698.32	Nov. 18	3,697.80
Mar. 17	3,697.00	June 23	3,695.75	Sept.11	3,698.31	Dec. 11	3,697.41

7. El Paso Electric Co. well 1, Santa Fe and 4th Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,698.54	Apr. 15	3,696.71	July 16	3,696.77	Oct. 15	3,697.45
Feb. 21	3,698.49	May 25	3,697.61	Aug. 14	3,697.35	Nov. 18	3,697.25
Mar. 17	3,696.24	June 23	a3,694.70	Sept.11	3,697.46	Dec. 11	3,696.65

8. El Paso Electric Co. well 4, Santa Fe and 4th Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,694.24	Apr. 15	3,693.03	July 16	3,692.02	Oct. 15	3,692.88
Feb. 21	3,693.88	May 25	3,691.94	Aug. 14	3,692.73	Nov. 18	3,692.97
Mar. 17	3,692.42	June 23	a3,691.84	Sept.11	3,692.37	Dec. 11	3,692.27

9. El Paso Electric Co. well 3, Santa Fe and 4th Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,698.19	Apr. 15	3,695.81	July 16	3,695.75	Oct. 15	3,696.95
Feb. 21	3,698.26	May 25	3,694.49	Aug. 14	3,696.70	Nov. 18	3,696.79
Mar. 17	3,695.45	June 23	a3,693.42	Sept.11	3,696.87	Dec. 11	3,696.22
18	3,695.83						

10. City of El Paso, 4th and Oregon Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,697.82	May 25	3,695.69	July 16	3,695.20	Oct. 15	3,696.59
Feb. 21	3,697.96	June 14	a3,692.86	Aug. 8	3,696.06	Nov. 18	3,696.49
Mar. 17	3,695.96	26	3,693.17	Sept.11	3,696.55	Dec. 11	3,695.99
Apr. 15	3,695.67						

12. City of Juarez well 1, Municipal market. Water level, in feet above mean sea level, 1940: Dec. 4, b/3,629.17.

13. City of Juarez well 2, Mariscal and Primera Streets. Water level, in feet above mean sea level, 1940: Dec. 4, 3,688.66.

18. City of Juarez well 3, near Hipodromo. Water level, in feet above mean sea level, 1940: Dec. 4, b/3,662.83.

19. El Paso Milling Co., Kansas and 11th Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,694.19	Apr. 15	3,694.64	July 16	3,685.42	Oct. 15	3,693.85
Feb. 21	3,693.64	May 24	3,693.59	Aug. 14	3,693.21	Nov. 18	3,693.37
Mar. 18	3,693.14	June 24	3,685.32	Sept.11	3,693.41	Dec. 11	3,693.10

21. City of El Paso well 10, Campbell and 6th Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,686.71	Apr. 15	3,686.29	July 23	c3,679.35	Oct. 15	3,684.83
Feb. 21	3,686.55	May 22	3,685.67	Aug. 12	3,682.68	Nov. 18	3,685.25
Mar. 14	3,686.04	June 24	b3,619.96	Sept.11	3,683.70	Dec. 11	3,685.12

a Lowest recorded water level. b Pump operating in well.
c Well recently pumped.

El Paso County--Continued.

22. City of El Paso well 6, 2nd and Cotton Streets.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3,689.18	Apr. 22	3,686.54	July 16	3,684.83	Oct. 15	3,686.45
Feb. 21	3,686.97	May 24	3,688.65	30	3,684.99	Nov. 18	3,685.96
Mar. 14	3,686.62	June 24	3,687.24	Aug. 12	3,685.94	28	3,686.24
Apr. 15	3,685.97	25	3,688.01	Sept.11	3,684.86	Dec. 11	3,686.19

28. Acme Laundry, 905 E. Missouri Street.

Water level, in feet above mean sea level, 1940

Jan. 1	a3,676.63	Apr. 21	3,676.13	July 19	3,656.28	Oct. 20	3,672.98
28	3,675.67	May 26	3,675.47	Aug. 16	3,668.54	Nov. 10	3,673.25
Feb. 25	3,676.02	June 18	3,664.98	Sept.22	3,671.77	Dec. 15	3,673.06
Mar. 17	3,675.84	23	3,662.60				

29a. Consumer's Ice and Fuel Co. well 2, Cotton and Dallas Streets. Diameter 12 inches, depth 572 feet. Measuring point, top of eduction pipe-coupling on top of steel plate that rests on top of casing, 2 feet above land surface and 3,708.84 feet above mean sea level. Water level, Nov. 11, 1939, 44.21 feet below measuring point.

Water level, in feet above mean sea level, 1939-40

Date	Water level	Date	Water level	Date	Water level
Nov. 10, 1939	b3,664.63	May 24, 1940	3,664.66	Sept.11, 1940	3,659.52
Feb. 5, 1940	a3,671.35	June 25	3,667.64	Oct. 15	3,667.01
21	3,670.54	July 17	3,658.97	Nov. 18	3,666.94
Mar. 18	3,668.80	Aug. 14	3,665.15	Dec. 11	3,667.95
Apr. 16	3,665.81				

30a. City of El Paso well 14, San Antonio and Walnut Streets. Measuring point since Jan. 29, 1940, top of ½-inch pipe 0.73 foot above floor of pump house and 3,703.99 feet above mean sea level.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	a3,676.93	May 22	b3,664.01	July 16	c3,640.12	Oct. 15	3,665.78
Feb. 21	3,672.64	June 18	c3,640.40	Aug. 12	3,665.80	Nov. 18	3,666.53
Mar. 14	3,670.61	20	d3,660.18	Sept.11	c3,640.10	Dec. 11	3,667.46
Apr. 16	3,667.70	26	3,666.49				

31. City of El Paso well 7, Lee and Magoffin Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,692.51	Apr. 16	3,692.08	July 16	3,692.85	Oct. 18	3,692.84
Feb. 21	3,692.06	May 22	3,692.00	Aug. 14	a3,693.09	Nov. 19	3,692.94
Mar. 28	3,692.26	June 18	b3,691.65	Sept.18	3,693.07	Dec. 16	3,692.93

32a. City of El Paso well 17, San Antonio and Tornillo Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	c3,644.11	May 22	c3,636.99	July 16	c3,635.00	Nov. 18	c3,638.67
Feb. 21	c3,640.97	24	3,668.91	Aug. 12	c3,638.04	28	c3,639.30
Mar. 14	c3,639.88	June 20	c3,635.45	Sept.11	c3,635.70	Dec. 11	c3,638.70
Apr. 16	c3,638.33	25	3,668.68	Oct. 15	c3,638.82		

a Highest recorded water level. c Pump operating in well.
b Lowest recorded water level. d Well recently pumped.

El Paso County--Continued.

33. El Paso Foundry and Machine Co., Williams Street at International Boundary.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	3,692.00	Apr. 16	3,692.22	July 17	3,692.00	Oct. 15	3,692.15
21	3,691.99	May 24	3,692.38	Aug. 17	3,692.36	Nov. 19	3,691.77
Mar. 14	3,692.01	July 1	3,692.48	Sept.21	3,692.23	Dec. 12	3,691.89

36. Southern Pacific Ry., Piedras Street Shops.

Water level, in feet above mean sea level, 1940

Jan. 30	3,686.23	Apr. 16	3,681.90	July 16	3,676.29	Oct. 15	3,676.40
Feb. 21	3,685.54	May 24	3,678.98	Aug. 14	3,678.12	Nov. 18	3,676.74
Mar. 18	3,684.65	June 18	3,676.18	Sept.17	a3,674.36	Dec. 12	3,677.60

39. Midwest Dairies, Inc., Piedras and Oro Streets.

Water level, in feet above mean sea level, 1940

Jan. 30	3,675.79	May 24	b3,667.69	July 16	b3,660.73	Oct. 14	3,668.11
Feb. 25	3,671.69	June 26	b3,666.43	Aug. 14	3,665.89	Nov. 22	3,670.92
Mar. 17	3,670.14	July 16	b3,659.93	Sept.17	3,664.52	Dec. 16	3,670.48
Apr. 16	b3,665.95						

40. City of El Paso well, Piedras and Hamilton Streets. No measurements made in 1940.

41. City of El Paso well 5, Morenci and Grama Streets.

Water level, in feet above mean sea level, 1940

Jan. 30	3,672.25	Apr. 16	3,663.24	July 29	3,659.35	Oct. 17	3,664.75
Feb. 13	3,670.72	May 24	3,662.93	Aug. 14	3,661.98	Nov. 22	3,668.41
21	3,670.53	June 18	a3,658.54	Sept.17	3,660.35	Dec. 12	3,669.37
Mar. 18	3,667.04						

42. City of El Paso well 9, Luna and Pera Streets.

Water level, in feet above mean sea level, 1940

Jan. 29	3,674.92	Apr. 15	3,666.10	June 19	c3,610.92	July 23	3,662.97
Feb. 21	3,671.72	June 17	b3,654.96	25	3,662.64	Aug. 14	3,664.62
Mar. 14	3,669.21	19	c3,610.99				

44. Harry Mitchell Brewing Co., Travis and Frutas Streets.

Water level, in feet above mean sea level, 1940

Jan. 30	3,676.56	Apr. 21	3,668.43	July 19	3,663.79	Oct. 16	3,670.00
Feb. 21	3,674.04	May 26	3,669.44	Aug. 14	3,667.43	Nov. 18	3,671.75
Mar. 17	3,671.38	June 27	c3,611.97	Sept.11	b3,660.34	Dec. 12	3,675.41

48a. City of El Paso well 18, Hadlock Addition. Diameter 24 inches, depth 727 feet. Measuring point after June 25, 1940, floor of pumphouse, 3,702.44 feet above mean sea level. Water level Apr. 8, 1940, 34.80 feet below measuring point.

Water level, in feet above mean sea level, 1940

Feb. 29	3,672.24	May 24	3,666.40	Aug. 14	3,666.63	Oct. 16	3,668.21
Apr. 10	3,665.41	June 25	3,666.27	Sept.11	a3,663.39	Nov. 18	3,672.06
16	3,666.30	July 16	3,664.55	23	3,666.41	Dec. 11	b3,673.28

a Lowest recorded water level.
b Well recently pumped.
c Pump operating in well.

El Paso County--Continued.

48b. City of El Paso test well 33. Diameter 4 inches. Measuring point, top of 4-inch casing, 3,697.37 feet above mean sea level. Water level Nov. 18, 1940, 23.87 feet below measuring point. Water level, in feet above mean sea level, 1940: Nov. 18, 3,673.50; Dec. 11, a/3,674.30.

49. City of El Paso well 4, Montana well field.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	b3,621.48	Apr. 16	b3,606.33	July 17	b3,602.94	Oct. 17	b3,611.66
Feb. 23	b3,619.13	May 22	b3,605.06	Aug. 15	b3,602.60	Nov. 19	3,670.12
Mar. 18	b3,609.78	June 24	b3,603.84	Sept.17	b3,603.34	Dec. 11	3,671.30

50. City of El Paso well 1, Montana well field.

Water level, in feet above mean sea level, 1940

Jan. 30	3,667.98	Apr. 16	3,657.78	July 17	3,655.99	Oct. 17	3,662.91
Feb. 23	3,665.47	May 22	3,657.84	Aug. 15	3,658.32	Nov. 19	3,669.77
Mar. 18	3,661.63	June 24	3,656.29	Sept.17	3,656.94	Dec. 11	3,671.03

51. City of El Paso well 2, Montana well field.

Water level, in feet above mean sea level, 1940

Jan. 9	3,668.92	Mar. 18	3,659.81	July 17	3,654.15	Oct. 17	3,662.86
30	3,668.47	Apr. 16	3,656.95	Aug. 15	3,656.25	Nov. 19	3,670.88
Feb. 23	3,666.00	May 22	3,656.30	Sept.17	3,654.63	Dec. 11	3,672.17
28	3,665.16	June 24	3,660.98				

52. City of El Paso well 3, Montana well field. Measuring point since Feb. 23, 1940, top of ½-inch pipe 0.36 foot above floor of pump house and 3,783.56 feet above mean sea level.

Water level, in feet above mean sea level, 1940

Feb. 12	3,669.83	May 22	b3,631.79	Aug. 15	b3,733.41	Oct. 17	3,664.79
23	3,667.65	June 24	b3,629.83	Sept.17	b3,632.04	Nov. 19	3,670.39
Mar. 18	b3,631.55	July 17	b3,630.40	23	3,662.80	Dec. 11	3,671.62
Apr. 16	b3,629.83						

53. Loretto College, Clifton and Raynolds Streets.

Water level, in feet above mean sea level, 1940

Jan. 30	3,669.88	Apr. 16	3,660.85	July 17	3,658.40	Oct. 17	3,665.25
Feb. 23	3,667.75	May 22	3,660.66	Aug. 20	3,659.78	Nov. 19	3,670.05
Mar. 18	3,663.82	June 24	3,658.63	Sept.17	3,659.00	Dec. 16	3,671.37

55. Texas Co., 0.6 mile northeast of Ascarate.

Water level, in feet above mean sea level, 1940

Jan. 30	3,671.72	Apr. 16	3,667.72	July 17	3,666.89	Oct. 15	3,668.57
Feb. 14	3,671.94	May 24	3,667.53	Aug. 14	3,667.95	Nov. 18	3,671.32
Mar. 18	3,670.09	June 24	3,665.83	Sept.17	3,667.12	Dec. 11	3,672.49

64. City of El Paso and Geological Survey test well 1, Carlsbad Highway.

Water level, in feet above mean sea level, 1940

Feb. 5	3,681.25	Apr. 17	3,681.23	July 20	3,680.78	Oct. 18	c3,680.36
26	3,681.16	May 27	3,681.03	Aug. 20	3,680.64	Nov. 20	3,680.65
Mar. 19	3,681.04	June 25	3,680.74	Sept.18	3,680.84	Dec. 12	3,680.81

a Highest recorded water level.
b Pump operating in well.
c Lowest recorded water level.

El Paso County--Continued.

67. Texas and New Orleans Ry., near south entrance to Fort Bliss.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	3,670.19	Apr. 18	3,665.15	July 17	3,663.35	Nov. 23	3,669.11
28	3,669.43	May 29	3,665.69	Sept.18	3,663.55	Dec. 16	3,670.64
Mar. 25	3,667.72	June 26	3,663.90				

67b. No measurements made in 1940.

72. United States War Department, Fort Bliss well 2.

Water level, in feet above mean sea level, 1940

Feb. 12	3,667.97	Apr. 17	3,659.50	July 20	3,656.49	Nov. 23	3,663.89
26	3,667.87	May 29	3,658.83	Sept.18	3,656.34	Dec. 16	3,664.79
Mar. 20	3,662.29	June 26	3,657.09				

75a. United States War Department, Fort Bliss well 6. Water level, in feet above mean sea level, 1940: Feb. 2, 3,670.16; Feb. 26, 3,669.98; Mar. 20, a/3,590.1.

75b. City of El Paso test well 10, 0.6 mile south of Wilson Road and 0.6 mile west of Airport Road.

Water level, in feet above mean sea level, 1940

Feb. 5	3,672.92	Apr. 17	3,668.97	July 20	3,667.81	Oct. 18	3,670.60
26	3,672.86	May 28	3,668.68	Aug. 20	3,667.73	Nov. 22	3,670.04
Mar. 19	3,672.12	June 27	3,668.00	Sept.18	b3,667.12	Dec. 13	3,670.34

75d. City of El Paso well 19, on Airport Road, 0.6 mile south of Wilson Road. Diameter 24 inches. Measuring point, floor of pumphouse, 3,908.41 feet above mean sea level. Water level Dec. 18, 1940, 233.14 feet below measuring point and 3,673.83 feet above mean sea level.

76. City of El Paso and Geological Survey test well 2, near southeast corner of Biggs Field.

Water level, in feet above mean sea level, 1940

Feb. 5	3,683.76	Apr. 17	3,680.46	July 19	3,679.35	Oct. 18	3,680.54
19	3,683.10	May 27	3,680.14	Aug. 20	3,679.48	Nov. 20	3,681.25
26	3,681.65	June 25	3,679.51	Sept.18	3,679.60	Dec. 13	3,681.52
Mar. 19	3,681.42						

77. City of El Paso well 12, Mesa well field.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 5	3,672.22	Mar. 15	3,671.08	Oct. 18	3,669.96
23	3,672.15	June 27	a 3,632.39	Dec. 13	3,665.04

77b. City of El Paso well 15, Wilson Road and Airport Road.

Water level, in feet above mean sea level, 1940

June 27	a3,646.39	Aug. 17	a3,646.82	Oct. 18	a3,650.82
July 19	a3,646.16	Sept.18	a3,646.65	Nov. 19	3,675.85

78. City of El Paso well 11, Mesa well field.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	3,668.18	Apr. 16	3,660.23	July 19	3,657.13	Oct. 18	3,666.13
23	3,668.06	May 24	3,658.99	Aug. 17	3,657.80	Nov. 19	3,665.60
Mar. 15	3,667.15	June 27	3,657.80	Sept.21	3,657.42	Dec. 13	3,664.15

a Pump operating in well.
b Lowest recorded water level.

El Paso County--Continued.

78c. City of El Paso test well 4. One mile north of Mesa well field.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	3,680.39	Apr. 17	3,680.02	July 20	3,679.35	Oct. 24	3,679.49
23	3,680.15	May 28	3,679.69	Aug. 19	a3,679.20	Nov. 19	3,679.53
Mar. 19	3,680.09	June 27	3,679.55	Sept.20	3,679.35	Dec. 13	3,679.45

79. City of El Paso well 8, Mesa well field. Water level, in feet above mean sea level, 1940: Mar. 15, b/3,598.64.

112. City of El Paso old Mesa well 32, Mesa well field.

Water level, in feet above mean sea level, 1940

Feb. 5	3,665.83	Mar. 15	3,666.53	June 27	3,661.70	Aug. 17	3,661.58
23	3,665.57	Apr. 16	3,664.14	July 19	3,660.72	Sept.18	3,661.71
Mar. 5	3,665.47	May 24	3,662.30				

126. McElroy Packing Co., 3.3 miles north of Wilson Road near Southern Pacific Ry.

Water level, in feet above mean sea level, 1940

Feb. 5	3,690.64	Apr. 17	b3,689.98	July 20	3,690.23	Nov. 22	3,690.34
23	3,690.41	May 28	b3,689.33	Sept.21	3,690.05	Dec. 13	b3,689.05
Mar. 19	3,690.35	June 27	b3,687.38	Oct. 17	a3,690.00	17	3,690.09

126a. City of El Paso test well 37, 2.5 miles east of well 126. Diameter 4 inches, depth 905 feet. Measuring point, top of 2-inch reducer, at land surface and 3,932.56 feet above mean sea level. Water level, Dec. 13, 1940, 242.27 feet below measuring point and 3,690.29 feet above mean sea level. Water level, in feet above mean sea level, 1940: Dec. 13, c/3,690.29.

128c. City of El Paso test well 23, 2.5 miles north of Mesa well field.

Water level, in feet above mean sea level, 1940

Feb. 5	3,688.97	Apr. 17	3,688.73	July 20	3,688.37	Oct. 19	a3,688.16
23	3,688.75	May 28	3,688.57	Aug. 19	3,688.23	Nov. 22	3,688.50
Mar. 19	3,688.70	June 27	3,688.54	Sept.20	3,688.40	Dec. 16	3,688.26

130. G. T. Cook, Sunrise Acres, 2.9 miles north of Wilson Road.

Water level, in feet above mean sea level, 1940

Feb. 5	3,689.96	Apr. 17	3,689.74	July 19	3,689.20	Oct. 18	3,689.22
26	3,689.95	May 29	3,689.55	Aug. 19	a3,689.11	Nov. 22	3,689.51
Mar. 19	3,689.74	June 27	3,689.44	Sept.20	3,689.29	Dec. 13	3,689.54

136. City of El Paso and Geological Survey test well 3, 6.9 miles north of Wilson Road.

Water level, in feet above mean sea level, 1940

Feb. 5	3,699.37	Apr. 17	3,699.53	July 19	3,699.18	Oct. 18	a3,699.00
23	3,699.45	May 28	3,699.32	Aug. 15	3,699.25	Nov. 22	3,699.35
Mar. 19	3,699.28	June 27	3,699.25	Sept.20	3,699.31	Dec. 13	3,699.35

143a. City of El Paso test well 30, 6.5 miles west of Newman, N. Mex. Diameter 4 inches, depth 520 feet. Measuring point, top of casing, 1.2 feet above land surface and 4,042.39 feet above mean sea level. Water level May 27, 1940, 318.91 feet below measuring point.

Water level, in feet above mean sea level, 1940

May 27	3,723.48	July 19	3,723.49	Sept.20	3,723.42	Nov. 22	3,723.53
June 26	3,723.51	Aug. 15	c3,723.53	Oct. 18	a3,723.35	Dec. 13	3,723.37

a Lowest recorded water level.
b Pump operating in well.
c Highest recorded water level.

El Paso County--Continued.

139a. City of El Paso test well 29, 9 miles north of Mesa well field. Diameter 4 inches, depth 567 feet. Measuring point, top of 4-inch casing, 1.0 foot above land surface and 4,047.22 feet above mean sea level. Water level April 23, 1940, 336.60 feet below measuring point.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 23	a3,710.62	July 19	3,709.61	Sept.20	3,709.65	Nov. 22	3,709.79
May 27	3,709.83	Aug. 15	3,709.79	Oct. 18	b3,709.43	Dec. 13	3,709.72
June 26	3,709.68						

a Highest recorded water level.
b Lowest recorded water level.

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Floyd County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

5. M. C. Scheele. SW cor. SE¼ sec. 127, blk. D-2, 11 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 53.14; Oct. 27, 54.68; Nov. 15, 54.48.

14. Herman R. King. SW¼SW¼SE¼ sec. 5, blk. C-9, 10 miles north of Lockney. Water level, in feet below measuring point, 1940: Mar. 6, 62.79.

28. J. C. Anderson. SW cor. SW¼ sec. 3, blk. D-1, 10 miles north of Lockney. Water level, in feet below measuring point, 1940: Mar. 6, 98.13.

32. Frank Whitfill. NW¼NW¼NE¼ sec. 12, blk. C-9, 9 miles north of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 90.20; Nov. 15, 91.51.

44. R. J. McLaughlin. Center of NW¼NE¼ sec. 123, blk. D-2, 10 miles north of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 67.68; Nov. 15, 70.15.

57. T. L. Wilhite. NE¼NW¼ sec. 87, blk. D-2, 7.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 62.79; Nov. 15, 63.87.

71. Measurements discontinued.

79. Measurements discontinued.

106. Texas Land and Development Company. SW¼NE¼NW¼ sec. 65, blk. D-2, 6 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 60.57; Nov. 16, 63.58.

108. Texas Land and Development Company. NW cor. SE¼ sec. 65, blk. D-2, 6.5 miles northwest of Lockney. Water level, in feet below measuring point, 1940: Mar. 6, 58.87.

111. Texas Land and Development Company. SW¼SW¼SW¼ sec. 65, blk. D-2, 6.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 54.88; Oct. 4, 61.63; Oct. 8, 61.01; Nov. 16, 57.88.

112. Texas Land and Development Company. NW¼NW¼NW¼ sec. 12, blk. D-5, 7 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 54.11; Oct. 4, 61.07; Oct. 8, 60.98; Nov. 16, 57.18.

120. Francis Carthel. NW cor. NW¼ sec. 1, blk. D-5, 4.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 60.43; Nov. 16, 63.25.

124. Rosa Lee Carthel. NW¼SW¼SW¼ sec. 50, blk. D-2, 3.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 43.91; Oct. 27, 45.53; Nov. 16, 45.64.

140. Texas Land and Development Company. SW¼NE¼ sec. 2, blk. D-5, 3.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 55.34; Nov. 16, 57.98.

143. Plainview-Lockney Farms. SE¼NW¼SW¼ sec. 8, blk. D-5, 5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 62.98; Oct. 27, 67.47; Nov. 16, 67.05.

150. M. S. Gholson. NW cor. NW¼ sec. 14, blk. D-5, 7 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 48.77; Nov. 16, 51.75.

153. Texas Land and Development Company. SW cor. NW¼ sec. 15, blk. D-5, 6.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 54.90; Nov. 16, 58.10.

156. Measurements discontinued.

157. Texas Land and Development Company. NW cor. NW¼ sec. 10, blk. D-5, 6 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 56.76; Nov. 16, 60.67.

Floyd County--Continued.

161. Texas Land and Development Company. SW cor. NE¼ sec. 10, blk. D-5, 5.5 miles west of Lockney.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 6	61.50	Oct. 31	65.74	Nov. 16	65.51
Oct. 9	66.37	Nov. 5	65.80		

401. George Whitfield. NE¼NE¼SE¼ sec. 39, blk. D-6, 6.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 57.62; Nov. 15, 58.30.

409. Texas Land and Development Company. NW¼NW¼NW¼ sec. 24, blk. N, 5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 57.14; Nov. 15, 58.04.

410. W. C. McGrede. SW cor. W½ sec. 44, blk. D-6, 5.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 51.49; Nov. 15, 55.05.

414. Mrs. Harriet B. Robbins. SW cor. SW¼ sec. 46, blk. D-6, 4.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 63.58; Nov. 15, 69.49.

416. Johnnie Spears. NW cor. NE¼SW¼ sec. 46, blk. D-6, 4.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 65.38; Nov. 15, 71.52.

421. W. W. Cooper. NW cor. NW¼ sec. 48, blk. D-6, 3.5 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 61.80; Oct. 27, 66.93; Nov. 15, 66.40.

422. Measurements discontinued.

428. Texas Land and Development Company. NW cor. F. Griggs survey, 3.5 miles southwest from Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 52.54; Oct. 5, 56.90; Nov. 15, 55.47.

435. Home Owners' Loan Corporation. Middle of L. C. Reed survey, in southwest part of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 59.88; Nov. 15, 63.91.

436. Four hundred feet southeast of railroad depot at Lockney. Water level, in feet below measuring point, 1940: Mar. 6, 48.46.

437. Lockney Oil Mill Company. In Lockney, 0.1 mile north of junction of U. S. Highway 70 with Lockney East Loop. Water levels, in feet below measuring point, 1940: Mar. 6, 52.79; Nov. 15, 54.22.

439. O. J. Schacht. NW cor. W. F. Smith survey, 3 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 54.97; Nov. 15, 57.29.

441. Federal Land Bank. NW cor. NW¼ sec. 50, blk. D-3, 2 miles northeast of Lockney.

Water level, in feet below measuring point, 1940

Jan. 13	64.41	July 9	64.84	Nov. 15	65.23
Mar. 6	64.54	Oct. 27	65.18	Dec. 21	65.34

442. Solon Clements. NW¼SW¼NW¼ sec. 51, blk. D-3, 2 miles east of Lockney.

Water level, in feet below measuring point, 1940

Jan. 13	38.93	July 9	39.28	Dec. 21	39.56
Mar. 6	39.23	Nov. 15	39.51		

446. W. J. King. NE¼SE¼NW¼ sec. 68, blk. G, 2.5 miles southeast of Lockney. Water levels, in feet below measuring point, 1940: Jan. 13, 44.17; Mar. 6, 44.19; Oct. 27, 45.71; Nov. 15, 45.15.

Floyd County--Continued.

459. Texas Land and Development Company. SW cor. M. Y. Price survey, 5.5 miles southwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 49.57; Nov. 15, 51.94.

462. Measurements discontinued.

463. Texas Land and Development Company. NW cor. NW¼ sec.14, blk. N, 6 miles west of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 52.38; Nov. 15, 55.69.

467. C. J. Barnard. NW¼SW¼SW¼ sec. 3, blk. N, 8 miles southwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 7, 42.19; Nov. 15, 45.68.

468. Measurements discontinued.

472. Texas Land and Development Company. NW cor. J. K. Andrews survey, 5.5 miles northwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 49.47; Nov. 15, 51.82.

486. Mrs. M. E. Morris. SE¼NE¼SE¼ sec. 53, blk. G, 5.5 miles southeast of Lockney.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 13	35.70	July 9	35.93	Nov. 15	36.05
Mar. 6	35.80	Oct. 27	36.02		

509. S. H. Boon. North end of C. H. Johnson survey, 8.5 miles south of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 42.60; July 9, 43.88; Nov. 15, 45.14.

510. L. D. Pope. North end of J. R. Powell survey, 8 miles southwest of Lockney. Water levels, in feet below measuring point, 1940: Mar. 6, 45.83; Nov. 15, 51.93.

519. J. L. Faulkner. NE cor. SW¼ sec. 44, blk. G, 7.5 miles west of Floydada. Water levels, in feet below measuring point, 1940: Mar. 6, 52.64; Nov. 15, 53.85.

523. C. F. Harris. NE¼NW¼ sec. 41, blk. G, 7.5 miles northwest of Floydada. Used drilled irrigation well, diameter 14 inches, depth 277 feet. Measuring point, top of 1½-inch hole in flange on column pipe of submersible pump, 1 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point: Dec. 8, 1939, 58.74; Mar. 6, 1940, 57.06; Oct. 20, 1940, 63.03; Nov. 15, 1940, 61.78.

525. W. Fry. NW¼NW¼NW¼ sec. 52, blk. G, 5.5 miles south of Lockney.

Water level, in feet below measuring point, 1940

Jan. 13	41.60	July 9	42.15	Nov. 15	42.41
Mar. 6	41.63	Oct. 27	42.41		

528. Mrs. Maud Hollums. SW cor. SW¼ sec. 82, blk. G, 5 miles northwest of Floydada. Water levels, in feet below measuring point, 1940: Jan. 13, 51.83; Mar. 22, 51.89; Nov. 27, 52.09.

529. Panhandle and Santa Fe Railway. SW cor. SE¼NE¼ sec. 63, blk. 1, 2 miles northwest of Floydada. Water levels, in feet below measuring point, 1940: Mar. 22, 110.88; Nov. 27, 111.04.

533. Martin Heirs. In Floydada, at West Kentucky and Fourth Streets. Water levels, in feet below measuring point, 1940: Mar. 22, 122.37; Nov. 27, 122.83.

534. Measurements discontinued.

535. Measurements discontinued.

562. H. W. Carver. NW¼ of J. A. Huckabee survey. Water level, in feet below measuring point, 1940: Mar. 22, 137.79.

Floyd County--Continued.

601. Measurements discontinued.

602. Measurements discontinued.

603. Gladys Fox. NW¼NE¼ sec. 86, blk. 1, 5.5 miles east of Floydada. Water levels, in feet below measuring point, 1940: Jan. 13, 175.60; Nov. 27, 176.36.

604. Measurements discontinued.

605. W. B. Jones. NW cor. SW¼NE¼ sec. 106, blk. 1, 10.5 miles east of Floydada. Water levels, in feet below measuring point, 1940: Jan. 13, 213.49; Nov. 27, 214.01.

607. Mrs. Kate Martin. NW¼NE¼ sec. 4, blk. 1, 14.5 miles east of Floydada. Water levels, in feet below measuring point, 1940: Jan. 13, 240.47; Nov. 27, 240.39.

Fort Bend County

Well numbers correspond to those given in Records of Wells, etc., State Board of Water Engineers, in cooperation with United States Department of the Interior, Geological Survey. (Mimeographed). 1939.

1. Pecan Acres, Inc. Eleven miles southwest of Katy. Used drilled domestic and stock well, formerly used for irrigation, diameter 18 inches, depth 205 feet, screens set at 59 to 103 feet and 145 to 202 feet. Measuring point, top of 8-inch wood water-pipe clamp set on casing, 1.65 feet above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1931, 1939-40

Date	Water level	Date	Water level	Date	Water level
Sept.11, 1931	29.24	Dec. 21, 1939	30.41	Apr. 26, 1940	30.58
Mar. 15, 1939	28.90	Mar. 12, 1940	31.40	Oct. 1	31.25

6. P. V. Cook. Six miles southwest of Katy. Used drilled irrigation well, diameter 16 inches, depth 596 feet. Measuring point, lower edge of end of discharge pipe, 6.0 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1938-40

Mar. 15, 1939	69.12	Dec. 21, 1939	67.01	Oct. 1, 1940	70.84
Sept.19	69.00	Apr. 26, 1940	66.80		

7. C. C. Cardiff. Four miles south-southwest of Katy. Used drilled irrigation well, diameter 24 inches, depth 653 feet. Measuring point, top of 1-inch hole in pump base, 0.6 foot above land surface. Equipped with electric turbine pump.

Water level, in feet below measuring point, 1931,1933,1939, and 1940

Mar. 3, 1931	53.81	Mar. 10, 1939	57.06	Mar. 12, 1940	59.04
Mar. 18, 1933	53.94	Sept.19	65.34	Oct. 1	65.00
Jan. 6, 1939	58.04	Dec. 21	60.64		

11. P. V. Cook. One and three-fourths miles south-southwest of Katy. Used drilled irrigation well, diameter 28 inches, depth about 170 feet. Measuring point, lower edge of end of discharge pipe, 6.0 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1932-33, 1939-40

Aug. 11, 1932	61.56	Jan. 6, 1939	55.92	Dec. 21, 1939	58.44
Sept.29	61.29	Mar. 10	54.81	Mar. 12, 1940	57.10
Mar. 18, 1933	52.46	Sept.19	62.64	Oct. 4	62.86

12. Stockdick Estate. One-half mile west-southwest of Katy. Unused drilled irrigation well, diameter 18 inches. Measuring point, top of casing, 0.5 foot above land surface.

Water level, in feet below measuring point, 1932-33, 1939-40

Aug. 11, 1932	25.00	Mar. 15, 1939	27.01	Mar. 12, 1940	29.94
Sept.29	25.59	Sept.19	28.05	Apr. 26	29.90
Mar. 18, 1933	26.41	Dec. 21	28.92		

Fort Bend County--Continued.

15. P. V. Cook. Three and one-fourth miles south-southwest of Katy. Used drilled irrigation well, diameter 24 inches, depth 172 feet. Measuring point, top of casing, 0.5 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931-33, 1939-40

Date	Water level	Date	Water level	Date	Water level
Mar. 24, 1931	52.29	Jan. 6, 1939	58.65	Dec. 21, 1939	61.02
May 15	51.30	Mar. 10	57.67	Mar. 12, 1940	59.90
Sept.29, 1932	58.05	Sept.19	63.90	Apr. 26	60.24
Mar. 18, 1933	54.07				

16. C. C. Cardiff. Five miles southwest of Katy. Used drilled stock well, diameter 24 inches, depth 337 feet. Measuring point, top of tin cover over well, 0.1 foot above concrete foundation, 0.5 foot above land surface. Equipped with windmill. Formerly used for irrigation.

Water level, in feet below measuring point, 1931, 1939 and 1940

Aug. 25, 1931	51.82	Dec. 21, 1939	61.37	Apr. 26, 1940	61.67
Sept.19, 1939	63.35	Mar. 12, 1940	a62.57	Oct. 1	65.57

19. R. Robertson. Four and three-fourths miles south of Katy. Used drilled irrigation well, diameter 24 inches, depth 545 feet. Measuring point, lower edge of end of discharge pipe, 5.0 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931,1933, 1939-40

Mar. 24, 1931	39.47	Mar. 10, 1939	44.94	Mar. 12, 1940	46.95
Mar. 18, 1933	46.75	Sept.19	57.94	Apr. 26	47.06
Jan. 6, 1939	45.76	Dec. 21	49.08	Oct. 1	55.38

20. L. Pauli. Five and three-fourths miles south-southeast of Katy. Unused drilled irrigation well, diameter 24 inches, depth 250 feet. Measuring point, top of casing, 2.6 feet above land surface.

Water level, in feet below measuring point, 1931,1933, 1939-40

June 11, 1931	46.35	Mar. 10, 1939	38.85	Mar. 12, 1940	41.12
Mar. 18, 1933	36.60	Sept.19	50.30	Apr. 26	41.20
Jan. 6, 1939	39.63	Dec. 21	42.07	Oct. 1	49.70

21. L. Pauli. Six miles south of Katy. Used drilled irrigation well, diameter 36 inches. Measuring point, top of casing, at land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931-33, 1939-40

Mar. 24, 1931	39.40	Mar. 10, 1939	42.48	Mar. 12, 1940	44.43
Aug. 19, 1932	49.45	Sept.19	52.35	Apr. 26	44.58
Mar. 18, 1933	40.66	Dec. 21	45.28	Oct. 1	51.65
Jan. 6, 1939	43.16				

26. C. Pillot. Ten miles southeast of Katy. Unused drilled well, diameter 26 inches, depth 657 feet. Measuring point, top of casing, at land surface.

Water level, in feet below measuring point, 1939-40

Jan. 6, 1939	27.20	Dec. 21, 1939	29.60	Apr. 26, 1940	32.24
Mar. 10	26.57	Mar. 12, 1940	28.91	Oct. 1	33.50
Sept.19	33.20				

33. Earl McMillian. Three and one-half miles southwest of Katy. Used drilled irrigation well, diameter 15 inches, depth 346 feet. Measuring point, top of casing, 1.5 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1939-40

Mar. 15, 1939	59.27	Dec. 21, 1939	61.75	Apr. 26, 1940	60.90
Sept.19	64.40	Mar. 12, 1940	61.00	Oct. 4	67.32

Fort Bend County--Continued.

50. Owner's number 6. Fort Bend Utilities Company. At Sugarland. Used drilled industrial well, diameter 16 inches, depth 733 feet, screens at 481 to 564 and 664 to 729 feet. Measuring point, top of 1-inch hole in top of pump base, 4 feet above land surface. Equipped with turbine pump. Pumped almost constantly at 1,260 gallons a minute. Water levels, in feet below measuring point, 1940: May 26, a/42.50; July 21, b/46.96; Dec. 1, b/46.10.

53. Owner's number 4. Fort Bend Utilities Company. At Sugarland. Unused drilled well, diameter 8 inches, depth 1,049 feet. Measuring point, top of iron plate under board cover, 2 feet above land surface. Water levels, in feet below measuring point, 1940: May 26, c/38.85; July 21, d/43.77; Dec. 1, d/42.70.

54. Owner's number 3. Fort Bend Utilities Company. At Sugarland. Used drilled public supply well, diameter 24 inches, depth 1,606 feet, screen at 1,492 to 1,553 feet. Measuring point, top of base plate on pump, 1.0 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point, 1940: May 26, e/29.72; July 21, e/30.69; Dec. 1, e/31.87.

75. Gulf Pipe Line Company. Ten miles east-southeast of Sugarland. Used drilled industrial well, diameter 6 inches, depth 665 feet, screen set at 645 to 665 feet. Measuring point, top of 4-inch hole in side of tee on casing, 2.5 feet above land surface. Equipped with air lift.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Dec. 6, 1938	47.79	Sept. 28,1939	50.22	Feb. 21, 1940	51.10
Mar. 13, 1939	47.39	Dec. 2	50.93	Aug. 5	52.76
May 22	47.88	Jan. 16,1940	51.10	Nov. 27	54.80
Aug. 1	48.84				

76. Owner unknown. About one-half mile west of Blue Ridge prison farm. Unused drilled industrial well, diameter 6 inches, depth 192 feet. Measuring point, top of air line, 2.5 feet above land surface.

Water level, in feet below measuring point, 1938-40

Dec. 6, 1938	33.10	Sept.28, 1939	34.42	June 28, 1940	35.74
Mar. 13, 1939	33.27	Jan. 16, 1940	35.11	Aug. 5	36.08
May 22	33.53	Feb. 21	35.20	Sept.30	36.74
Aug. 1	33.72	May 3	35.47	Nov. 27	36.87

Freestone County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

107. George Hoose. Two and seven-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 60.48; July 10, 60.78; Nov. 22, 60.69.

109. H. J. Adamson. Two and six-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 35.12; July 10, 35.38; Nov. 22, 35.83.

111. Magnolia Pipe Line Co. Three and seven-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 42.75; July 10, 43.07; Nov. 22, 43.60.

112. Magnolia Pipe Line Co. Three and eight-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 33.78; July 10, 34.09; Nov. 22, 34.23.

112-A. Magnolia Pipe Line Co. Three and eight-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 82.97; July 10, 83.40; Nov. 22, 80.98.

113. Mrs. Hugh Day. Three and six-tenths miles northwest of Teague. Water levels, in feet below measuring point, 1940: Apr. 2, 24.13; July 10, 23.35; Nov. 22, 23.37.

a Shut down 19 hours.
b Shut down 3 hours.
c Nearby well 50 shut down 19 hours.
d Nearby well 50 shut down 3 hours.
e Shut down about 3 hours after pumping 620 gallons a minute.

Freestone County--Continued.

200-A. John Dubose. In Streetman. Water levels, in feet below measuring point, 1940: Apr. 2, 19.64; July 11, 17.72; Nov. 24, 15.82.

216. J. L. Bonner. Seven miles north of Fairfield. Water levels, in feet below measuring point, 1940: Apr. 2, 72.71; July 11, 72.86; Nov. 24, 72.79.

285. J. L. Miller. Three and three-fourths miles north of Fairfield. Water levels, in feet below measuring point, 1940: Apr. 2, 30.85; July 11, 31.05; Nov. 24, 31.01.

299. Lake & Ed Watson. Four and four-tenths miles west of Fairfield. Water levels, in feet below measuring point, 1940: Apr. 2, 14.20; July 10, 11.25; Nov. 22, 16.33.

649. A. H. White. One-fourth mile east of Dew. Well dry at 22 feet below measuring point on Apr. 2, July 10, and Nov. 22, 1940.

695-A. Clair Clark. Three and seven-tenths miles south of Dew. Water levels, in feet below measuring point, 1940: Apr. 2, 62.50; July 10, 62.99; Nov. 22, 63.61.

697-A. W. F. Ezew. Four and eight-tenths miles south of Dew. Water levels, in feet below measuring point, 1940: Apr. 2, 32.78; July 10, 33.03; Nov. 22, 32.88.

856-A. W. H. Goolsby. At "Goolsby's Tourist Camp", 3.8 miles west of Dew. Water levels, in feet below measuring point, 1940: Apr. 2, 27.61; July 10, 28.03; Nov. 22, 27.90.

858-A. Dyle Black. One and one-half miles west of Dew. Water levels, in feet below measuring point, 1940: Apr. 2, 41.62; July 10, 42.17; Nov. 22, 41.11.

Gaines County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

2. Carrol Cobb. SW¼ sec. 20, blk. A-21, P. S. L., 7.4 miles south of Seminole. Water levels, in feet below measuring point, 1940: Sept. 30, 56.70; Nov. 22, 56.69.

6. Mrs. G. Jones. In Seminole, 0.25 mile south of Gaines County Courthouse. Water level, in feet below measuring point, 1940: Nov. 22, 56.08.

6a. NW¼ sec. 160, blk. G, 1.4 miles south of Seminole. Water levels, in feet below measuring point, 1940: Jan. 16, 41.96; July 31, 41.61; Nov. 22, 42.33.

7. J. M. Parker. Thirty-five hundredths mile east of Gaines County Courthouse. Water level, in feet below measuring point, 1940: Jan. 16, 43.41.

8. Measurements discontinued.

9. S. H. Gilbreath. NW cor. NW¼ sec. 152, blk. G, Western Texas Railroad Company, 10.85 miles southwest of Seagraves. Water levels, in feet below measuring point, 1940: Jan. 16, 67.45; July 31, 67.74.

12. Panhandle & Santa Fe Railroad Company. In Seagraves. Water levels, in feet below measuring point, 1940: Jan. 16, 74.36; July 31, 74.50.

Galveston County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845, and 886.

3. Mrs. A. Voss. Five and three-quarters miles west of League City. Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 18	38.87	May 27	39.12	Oct. 2	41.99
Mar. 27	38.40	July 10	39.56	Dec. 14	40.81

Galveston County--Continued.

11. A. A. Davis. Genoa Quadrangle G-1, in town of Friendswood.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 18	57.18	May 27	58.30	Oct. 2	61.85
Mar. 27	56.67	July 10	59.32	Dec. 14	59.59

16. Cecil Brown. Genoa Quadrangle G-1, in town of Friendswood.

Water level, in feet below measuring point, 1940

Mar. 27	56.46	July 10	59.13	Dec. 14	59.48
May 27	58.16	Oct. 2	61.64		

28. Galveston, Houston & Henderson Railway. In League City.

Water level, in feet below measuring point, 1940

Jan. 18	51.78	May 27	52.11	Oct. 2	56.06
Mar. 27	51.32	July 10	53.25	Dec. 14	54.00

30. J. P. Robinson. Seabrook Quadrangle G-2, in town of Kemah. Water level, in feet below measuring point, 1940: Jan. 18, 36.96; measurements discontinued.

42. J. Freund. Seabrook Quadrangle G-2, in town of Kemah.

Water level, in feet below measuring point, 1940

Jan. 18	37.67	May 27	38.28	Oct. 2	40.35
Mar. 27	37.68	July 10	39.20	Dec. 14	40.22

105. H. E. Newell. Five miles north of Alta Loma.

Water level, in feet below measuring point, 1940

Jan. 18	8.24	May 27	9.24	Oct. 2	10.57
Mar. 27	8.80	July 10	9.13	Dec. 14	9.18

112. Galveston, Houston & Henderson Railway. Six and one-half miles northeast of Alta Loma.

Water level, in feet below measuring point, 1940

Jan. 18	54.48	May 27	58.44	Oct. 2	61.22
Mar. 27	54.74	July 10	58.59	Dec. 14	56.94

113. E. Menotti. Seven miles northeast of Alta Loma.

Water level, in feet below measuring point, 1940

Jan. 18	35.45	July 10	35.67	Dec. 14	35.49
May 27	35.86	Oct. 2	35.88		

115. J. W. Palmer. Six miles northeast of Alta Loma.

Water level, in feet below measuring point, 1940

Jan. 18	a54.18	May 27	40.29	Oct. 2	37.74
Mar. 27	38.69	July 10	39.19	Dec. 14	36.13

142. Maco Stewart. Dickinson Quadrangle, 2.75 miles west of League City.

Water level, in feet below measuring point, 1940

Jan. 18	46.55	May 27	47.20	Oct. 2	51.25
Mar. 27	46.72	July 10	48.31	Dec. 14	49.73

206. A. J. Biran. Three and one-half miles west of Texas City.

Water level, in feet below measuring point, 1940

Jan. 18	45.63	May 27	47.86	Oct. 2	48.97
Mar. 27	46.42	July 10	48.09	Dec. 14	40.65

a Nearby well pumping.

Galveston County--Continued.

244. Stone Oil Company. Texas City Quadrangle, in town of Texas City.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 18	a72.61	May 27	62.41	Oct. 2	a68.23
Mar. 27	67.30	July 10	61.94	Dec. 14	63.70

272. City of Galveston. At Alta Loma. Water levels, in feet below measuring point, 1940: Jan. 18, 73.07; Mar. 28, 77.15; May 28, 72.45; July 10, obstruction at 62 feet.

295. A. T. & S. F. R. R. Hitchcock Quadrangle, in Hitchcock.

Water level, in feet below measuring point, 1940

Jan. 18	42.55	May 28	45.41	Oct. 2	49.18
Mar. 28	44.02	July 10	47.48	Dec. 14	46.92

302. Joe Torraso. Four miles east-southeast of Alta Loma. No measurements made in 1940.

381. Stewart Production Company. Virginia Point Quadrangle, 3 miles southeast of Hitchcock.

Water level, in feet below measuring point, 1940

Jan. 18	33.38	May 28	34.71	Oct. 2	38.62
Mar. 28	34.21	July 10	36.41	Dec. 14	37.05

619. Phenix Dairy. Dickinson Quadrangle, 4 miles northwest of Alta Loma.

Water level, in feet below measuring point, 1940

Jan. 18	44.28	May 28	45.69	Oct. 2	49.13
Mar. 28	44.65	July 10	47.33	Dec. 14	48.27

Gray County

Well number corresponds to that in Water-Supply Paper 886.

1. Along U. S. Highway 60, 6.25 miles southwest of Roberts-Gray County line. Water levels, in feet below measuring point, 1940: Apr. 9, 339.56; Aug. 6, 339.85; Dec. 4, 339.33.

Gregg County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

159. T. B. Harris. Four and six-tenths miles northwest of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 182.66; July 12, 180.39; Nov. 26, 182.79.

188. M. L. Jackson. Four-tenths mile west of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 16.42; July 12, 15.42; Nov. 26, 14.23.

189. M. L. Jackson. One-half mile west of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 17.02; July 12, 17.36; Nov. 26, 17.88.

192. Oil Well Supply Company. Two and one-half miles northwest of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 17.02; July 12, 17.36; Nov. 26, 17.88.

a Well 200 feet northwest recently pumped.

Gregg County--Continued.

259. Owner's number 2. City of Gladewater. In Gladewater, one block southeast of pump station. Used drilled public supply well, diameter 12½ inches, depth 725 feet, plugged at 388 feet. Measuring point, top of pump base, about 1.0 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
June 10, 1938	150.68	Dec. 10, 1939	169.59	Nov. 26, 1940	154.71
Feb. 7, 1939	168.23	Apr. 4, 1940	143.50		

262. Morgan Ice Company. In Gladewater, west of ice houss. Seldom used drilled industrial well, diameter 6 inches, depth 780 feet. Measuring point, top of casing, 1.5 feet above land surface. Equipped with air lift.

Water level, in feet below measuring point, 1931, 1939-40

Nov. 24, 1931	70.07	May 5, 1939	119.01	Apr. 4, 1940	110.93
Feb. 7, 1939	114.94	Dec. 10	126.80	July 12	127.39

263. Morgan Ice Company. In Gladewater. Seldom used drilled industrial well, diameter 6 inches, depth 618 feet. Measuring point, top of casing, 1.5 feet above land surface. Equipped with air lift.

Water level, in feet below measuring point, 1939-40

Feb. 7, 1939	123.64	Dec. 10, 1939	128.52	July 12, 1940	131.38
May 5	130.00	Apr. 4, 1940	112.17	Nov. 26	125.42

264. Owner's number 3. City of Gladewater. In west edge of Gladewater. Unused drilled public supply well, diameter 10 inches, depth 213 feet. Measuring point, top of 1-inch coupling set in concrete, 2 feet above land surface. Water levels and locations corrected from those given in Water-Supply Papers 845 and 886. Water levels, in feet below measuring point, 1940: July 12, 71.99; Nov. 26, a/83.63.

271. Mrs. Allen. Seven and one-half miles northwest of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 47.96; July 12, 48.33; Nov. 26, 48.13.

276. Fred Adrian. Five and eight-tenths miles northwest of Longview city limits. Water levels, in feet below measuring point, 1940: Apr. 4, 23.52; July 12, 23.59; Nov. 26, 14.54.

Guadalupe County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

316. Joe Gleitz. Four hundred feet north of U. S. Highway 81, 0.1 mile east of Guadalupe-Bexar County line.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	114.17	Apr. 30	116.06	July 25	116.57	Oct. 29	118.75
Feb. 20	114.46	May 23	116.30	Aug. 28	118.54	Dec. 4	115.72
Mar. 22	115.56	June 21	115.12	Sept.24	118.49		

317. Joe Gleitz. Twenty feet south of well 316.

Water level, in feet below measuring point, 1940

Jan. 30	77.29	Apr. 30	76.08	July 25	76.26	Oct. 29	76.66
Feb. 20	76.26	May 23	64.30	Aug. 28	77.03	Dec. 4	75.92
Mar. 22	77.06	June 21	61.48	Sept.24	77.14		

a Owner's number 5, 50 feet north, pumping.

Hale County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

11. S. C. Hutchinson. NE¼SE¼ sec. 5, blk. S1, 16 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 39.33; July 9, 39.52; Nov. 16, 40.03.

16. Cottle Co. NW¼NE¼ sec. 8, blk. S1, 15 miles northwest from Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 49.71; July 9, 49.91; Nov. 16, 50.39.

30. Measurements discontinued.

36. Measurements discontinued.

37. G. D. Lewellen. NW¼SW¼ sec. 19, blk. 06, 12 miles northwest of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 27, 67.30; Nov. 16, 67.87.

102. Ed Duvall. SW¼NW¼ sec. 6, blk. C4, 16 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 49.69; July 9, 50.24; Nov. 16, 50.89.

103. Carl Meyer. NE¼SE¼ sec. 8, blk. C4, 16 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 47.89; Nov. 16, 48.68.

105. Texas Land and Development Co. NW¼SW¼ sec. 27, blk. S1, 14 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 51.14; Nov. 16, 55.97.

112. C. Zelner. NW¼NW¼ sec. 12, blk. JK, 12.5 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 55.10; July 9, 55.40; Nov. 16, 60.95.

115. H. L. Gunter. NW¼NE¼ sec. 16, blk. JK, 13.5 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 56.42; July 9, 57.92; Oct. 29, 58.92; Nov. 16, 58.65.

120. Measurements discontinued.

123. L. C. Wayland. NW¼NE¼ sec. 24, blk. JK, 11 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 63.09; Nov. 16, 66.30.

124. Measurements discontinued.

125. E. E. Clark. SE¼SW¼ sec. 1, blk. JK4, 10 miles northwest of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 27, 81.99; Nov. 13, 84.54.

201. Measurements discontinued.

202. Texas Land and Development Company. NW¼NE¼ sec. 20, blk. C3, 17 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 66.72; Nov. 7, 68.63.

203. Measurements discontinued.

206. Texas Land and Development Company. Just east of center of Richard William survey, 18 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 69.66; Nov. 15, 72.00.

208. Texas Land and Development Company. SW¼ J. P. Lattimore survey, 17.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 66.28; Nov. 15, 68.90.

209. Measurements discontinued.

210. Texas Land and Development Company. NW¼ D. R. McVicker survey, 18.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 65.76; Sept. 18, 67.65; Sept. 28, 67.60; Nov. 15, 67.49.

212. Texas Land and Development Company. West center D. R. McVicker strip, west of sec. 55, blk. M14, 18 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 63.89; Nov. 15, 69.37.

Hale County--Continued.

213. Measurements discontinued.

220. Texas Land and Development Company. NW¼NE¼ sec. 3, blk. JK3, 15.5 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 55.60; Nov. 7, 58.32.

221. Measurements discontinued.

223. Texas Land and Development Company. NW¼SE¼ sec. 18, blk. C3, 14.5 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 53.75; Nov. 7, 57.14.

231. M. Hutchinson. NW¼NW¼ sec. 8, blk. JK3, 13.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 48.34; Nov. 7, dry at 49 feet.

232. M. Hutchinson. NW¼NW¼ sec. 1, blk. JK3, 13.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 52.55; Nov. 7, 59.89.

238. Dr. McKinley Howell. SE¼SW¼ sec. 8, blk. JK3, 13.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 53.53; Nov. 7, 55.93.

246. NE¼NE¼ sec. 34, blk. JK2, 12 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 49.65; Oct. 27, 54.20; Nov. 7, 54.62.

248. Measurements discontinued.

249. Measurements discontinued.

252. Measurements discontinued.

255. G. H. Slaton. SE¼NW¼ sec. 15, blk. JK2, 10 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 20.24; Nov. 13, 21.62.

256. R. M. Malone. SE¼SW¼ sec. 10, blk. JK2, 9 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 41.32; July 9, 41.73; Nov. 13, 42.39.

259. C. S. Ebeling. NW¼SE¼ sec. 3, blk. JK2, 9 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 19.89; Nov. 13, 21.71.

261. No measurements made in 1940.

263. Federal Land Bank. NW¼SW¼ sec. 6, blk. JK3, 15 miles northeast of Hale Center.

Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.06	45.08	45.05	45.03	.....	.....	45.47	45.65	45.84	.....	46.34	46.43
2	45.06	45.08	45.05	45.03	.....	.....	45.47	45.66	45.85	.....	46.34	46.43
3	45.06	45.08	45.05	45.03	.....	.....	45.47	45.67	45.87	.....	46.35	46.44
4	45.06	45.08	45.05	45.03	.....	.....	45.47	45.68	45.87	.....	46.35	46.44
5	45.06	45.08	45.05	45.06	.....	.....	45.48	45.68	45.88	.....	.....	46.44
6	45.07	45.08	45.05	45.06	45.18	.....	45.49	45.68	45.88	.....	.....	46.44
7	45.07	45.08	45.05	45.06	45.18	.....	45.50	45.68	45.88	46.23	46.37	46.44
8	45.07	45.08	45.05	45.06	45.19	.....	45.51	45.69	45.89	46.23	46.37	46.44
9	45.07	45.08	45.05	45.06	45.20	.....	45.51	45.70	45.90	46.24	46.37	46.45
10	45.07	45.08	45.05	45.06	45.20	.....	45.51	45.70	45.90	46.26	46.38	46.46
11	45.07	45.08	45.04	45.06	45.21	.....	45.52	45.71	45.90	46.26	46.38	46.46
12	45.07	45.07	45.04	45.06	45.22	.....	45.52	45.73	45.92	46.27	46.38	46.46
13	45.07	45.07	45.04	45.06	45.22	.....	45.54	45.73	45.93	46.27	46.39	46.47
14	45.07	45.07	45.04	45.06	45.22	.....	45.54	.....	45.94	46.28	46.39	46.47
15	45.07	45.07	45.04	45.06	45.23	.....	45.54	.....	45.97	46.28	.....	46.47
16	45.07	45.07	45.04	45.06	45.23	.....	.....	.....	45.97	46.28	.....	46.47
17	45.07	45.07	45.04	45.06	45.24	.....	.....	45.77	.....	46.28	.....	.....
18	45.07	45.07	45.04	45.06	45.25	.....	.....	45.77	45.98	46.29	46.41	.....
19	45.08	45.06	45.04	45.06	45.25	.....	.....	45.77	45.98	46.30	46.41	.....
20	45.08	45.06	45.04	45.07	45.25	.....	.....	45.77	45.98	46.30	.....	.....
21	45.08	45.06	45.04	45.08	.....	.....	.....	45.77	45.99	46.32	.....	.....
22	45.08	45.06	45.04	45.08	.....	.....	45.58	45.78	45.99	46.32	.....	.....

Hale County--Continued.

263.--Continued.

Daily noon water level, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
23	45.08	45.06	45.04	45.08	.....	.....	45.58	45.78	46.00	46.32	.....	.....
24	45.08	45.06	45.04	45.08	.....	45.45	45.58	45.79	46.00	46.33	.....	.....
25	45.08	45.06	45.03	45.09	.....	45.45	45.58	.....	46.01	46.33	46.42	.....
26	45.08	45.06	45.03	45.11	.....	45.45	45.59	.....	46.03	46.33	46.41	.....
27	45.08	45.06	45.03	45.11	.....	45.45	45.60	45.83	46.04	46.34	46.41	.....
28	45.08	45.06	45.03	45.11	.....	45.46	45.61	45.83	46.05	46.34	46.41	.....
29	45.08	45.06	45.03	45.12	.....	45.46	45.63	45.83	46.06	46.34	46.42	.....
30	45.08	.....	45.03	45.13	.....	45.47	45.64	45.83	46.06	46.34	46.42	.....
31	45.08	.....	45.03	.....	.....	.....	45.64	45.84	.....	46.34	.....	.....

304. Measurements discontinued.

305. Texas Land and Development Company. On strip land, 0.55 mile east of SW cor. sec. 54, blk. M14, 18.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 71.59; Nov. 15, 74.46.

307. Texas Land and Development Company. On strip land, 0.3 mile east of SW cor. sec. 53, blk. M14, 19 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 65.07; Nov. 15, 68.40.

308. Measurements discontinued.

314. J. S. Leach. NE¼NE¼ sec. 14, blk. JK3, 17 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 45.74; Nov. 15, 48.92.

316. Texas Land and Development Company. NW¼ S. D. Lemaster survey, 17.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 51.43; Nov. 15, 52.24.

317. Texas Land and Development Company. NE¼ J. F. Owens survey, 18.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 52.32; Oct. 27, 53.90; Nov. 15, 53.66.

321. Measurements discontinued.

330. George White. NE¼ J. M. Martin survey, 16.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 46.03; Nov. 15, 46.68.

338. Dr. J. H. Stewart. NW¼SE¼ sec. 110, blk. D2, 20 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar.6, 47.21; Nov. 15, 48.66.

346. W. B. Seaman. NE¼NE¼ sec. 70, blk. D2, 18 miles northeast of Hale Center. Water level, in feet below measuring point, 1940: Mar. 6, 49.45.

352. Measurements discontinued.

355. C. N. Horne. SE¼SW¼ sec. 1, blk. D6, 15.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 6, 41.51; Nov. 15, 42.99.

356. Measurements discontinued.

357. G. D. Lewellen. SE¼SW¼ sec. 8, blk. D6, 14.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 6, 38.43; Nov. 15, 39.97.

370. D. A. Reading. SE¼SE¼ sec. 5, blk. D4, 14.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 5, 44.03; Nov. 15, 45.33.

Hale County--Continued.

402. N. R. Johnson. SW¼NE¼ sec. 40, blk. JK2, 11 miles northeast of Hale Center.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 29	21.87	Sept.20	23.22	Nov. 7	23.57
July 9	22.54	Oct. 27	23.52		

403. Measurements discontinued.

405. Measurements discontinued.

418. R. B. C. Howell, Jr. NW¼NW¼ sec. 3, blk. D6, 14.5 miles northeast of Hale Center. Used drilled domestic and stock well, diameter 6 inches, depth 38 feet. Measuring point, top of casing, 1.3 feet above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1937-40

Aug. 29, 1937	27.79	Jan. 16, 1939	30.45	Oct. 5, 1939	31.31
Apr. 14, 1938	29.56	Mar. 1	30.67	Mar. 7, 1940	32.15
May 26	29.88	June 19	31.19	Nov. 14	33.63
June 26	29.82				

420. Measurements discontinued.

422. Mrs. J. B. Long. SW¼SW¼ sec. 20, blk. D5, 16 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 42.38; Nov. 15, 43.79.

427. C. M. Smith. NW¼NW¼ sec. 17, blk. D5, 17.5 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 6, 50.65; Nov. 15, 53.40.

428. C. M. Smith. SW¼SW¼ sec. 17, blk. D5, 17 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 50.63; Nov. 15, 53.26.

433-A. Lizzie B. Morris. SW cor. of west 186 acres in sec. 37, blk. D6, 15 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 22.58; July 9, 23.70.

434. Texas Land and Development Company. SW cor. SE¼NE¼ sec. 33, blk. D6, 14.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 46.64; Nov. 14, 48.59.

435. Texas Land and Development Company. SW cor. NE¼ sec. 35, blk. D6, 14 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 51.33; Nov. 14, 53.41.

436. Texas Land and Development Company. NW¼SW¼ sec. 33, blk. D6, 13.5 miles east of Hale Center. Water level, in feet below measuring point, 1940: Nov. 14, 57.26.

445. No measurements made in 1940.

447. Measurements discontinued.

449. W. S. Messick. NW¼NE¼ sec. 10, blk. D7, 8 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 59.00; Nov. 14, 61.91.

450. Measurements discontinued.

454. B. F. Smith. NW¼NE¼ sec. 21, blk. N, 16.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 54.12; Nov. 15, 56.96.

459. Texas Land and Development Company. NE¼SE¼ sec. 16, blk. N, 16.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 42.32; Nov. 15, 45.30.

Hale County--Continued.

460. Measurements discontinued.

462. R. E. Keniston. SW¼SW¼ sec. 16, blk. N, 16 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 44.05; Nov. 15, 47.96.

463. R. E. Keniston. SW¼SW¼ sec. 16, blk. N, 16 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 39.54; Nov. 15, 42.23.

467. M. E. Courtney. NW¼NE¼ sec. 25, blk. N, 13.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 35.50; Nov. 13, 39.80.

470. M. H. Neer. NW¼NW¼ sec. 25, blk. D7, 11 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 33.46; Nov. 13, 33.74.

472. Measurements discontinued.

477. C. J. Jagelky. NW¼NW¼ sec. 22, blk. D7, 8 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 38.76; Nov. 13, 39.67.

500. Measurements discontinued.

504. Measurements discontinued.

508. Mrs. J. H. Slaton. SW cor. sec. 8, blk. JK2, 7.5 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 4, 48.53; Nov. 14, 50.10.

510. R. E. Walker. NE¼NE¼ sec. 9, blk. JK2, 9 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 37.17; July 9, 37.52; Nov. 14, 38.06.

511. Dr. J. Anderson. NW¼NW¼ sec. 28, blk. JK2, 10 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Feb. 29, 22.73; July 9, 22.67; Oct. 27, 23.80; Nov. 14, 23.92.

518. Measurements discontinued.

525. Measurements discontinued.

526. I. W. LaFrance. NE cor. NE¼ sec. 44, blk. A1, 6 miles northeast of Hale Center. Water level, in feet below measuring point, 1940: Nov. 14, 57.77.

533. Measurements discontinued.

535. Measurements discontinued.

539. Fred Rastetter. SE cor. SE¼ sec. 29, blk. A, 3.25 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 58.41; Nov. 14, 59.96.

542. J. B. Hay. NE¼NE¼ sec. 38, blk. A1, 7 miles northeast of Hale Center.

Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.19	37.27	.....	37.47	37.56	.....	37.73	37.80	37.90	.....	38.10	38.20
2	37.19	37.27	.....	37.48	37.57	.....	37.73	37.81	37.90	.....	38.10	38.20
3	37.19	37.28	.....	37.48	37.57	.....	37.73	37.81	37.91	.....	38.11	38.20
4	37.19	37.28	37.40	37.49	37.57	.....	37.73	37.82	37.91	.....	38.11	38.19
5	37.19	37.29	37.40	37.49	37.57	.....	37.73	37.83	37.91	.....	.....	37.19
6	37.19	37.29	37.40	37.49	37.57	.....	37.74	37.83	37.91	.....	.....	38.17
7	37.20	37.29	37.40	37.50	37.57	.....	37.74	37.83	37.91	38.02	.....	38.16
8	37.21	37.29	37.40	37.50	37.57	.....	37.74	37.84	37.92	38.02	.....	38.15
9	37.21	37.29	37.40	37.50	37.57	.....	37.74	37.84	37.93	38.02	.....	38.13
10	37.22	37.30	37.40	37.50	37.57	.....	37.74	37.84	37.93	38.03	.....	38.13
11	37.22	37.30	37.41	37.51	37.58	.....	37.74	37.84	37.93	38.03	.....	38.13
12	37.23	37.30	.....	37.51	37.58	.....	37.75	37.84	37.93	38.03	.....	38.13
13	37.23	37.31	.....	37.51	37.58	.....	37.75	37.84	37.93	38.04	.....	38.13

Hale County--Continued.

542.--Continued.

Daily noon water level, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
14	37.24	37.31	.....	.....	37.58	.....	37.75	37.84	37.93	38.04	.....	38.13
15	37.24	37.31	.....	37.51	37.58	.....	37.75	37.85	37.94	38.04	.....	38.13
16	37.24	37.31	.....	37.51	37.59	.....	.....	37.86	37.95	38.04	.....	38.12
17	37.24	37.32	.....	37.51	37.59	.....	.....	37.87	37.95	38.05	.....	.....
18	37.24	37.32	37.45	37.52	37.59	.....	.....	37.87	37.95	38.05	38.16	.....
19	.....	37.33	37.45	37.52	37.59	.....	.....	37.87	37.95	38.05	38.17	.....
20	.....	37.33	37.45	37.52	37.59	.....	.....	37.87	37.95	38.05	38.17	.....
21	.....	37.33	37.45	37.52	37.59	.....	.....	37.87	37.95	38.06	38.17	.....
22	37.25	37.34	37.45	37.52	37.60	.....	37.79	37.87	37.96	38.06	38.18	.....
23	37.26	37.34	37.45	37.52	.....	.....	37.79	37.88	37.97	38.07	38.18	.....
24	37.26	37.35	37.45	37.52	.....	37.70	37.79	37.88	37.97	38.07	38.18	.....
25	37.26	37.36	37.45	37.53	.....	37.72	37.79	.....	37.97	38.07	38.19	.....
26	37.26	37.36	37.45	37.53	.....	37.72	37.79	.....	37.97	38.08	38.19	.....
27	37.26	.....	37.45	37.54	.....	37.72	37.80	37.89	37.97	38.08	38.19	.....
28	37.26	.....	37.45	37.54	.....	37.73	37.80	37.89	37.98	38.09	38.19	.....
29	37.27	.....	37.45	37.55	.....	37.73	37.80	37.89	37.98	38.09	38.19	.....
30	37.27	.....	37.45	37.56	.....	37.73	37.80	37.90	37.98	38.09	38.19	.....
31	37.27	.....	37.45	.....	.....	.....	37.80	37.90	.....	38.10	.....	.....

547. O. C. McClain. NW¼NW¼ sec. 40, blk. A1, 7 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 52.66; Nov. 14, 54.18.

549. Bennie Harris. SW¼NE¼ sec. 25, blk. A1, 7 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 57.50; Nov. 14, 59.42.

552. H. S. Dunaway. NE¼NW¼ sec. 6, blk. A1, 4 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 60.04; Nov. 13, 61.50.

553. Texas Land and Development Company. NW¼NE¼ sec. 6, blk. A1, 4.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 54.81; Nov. 13, 56.23.

564. T. F. Mounts. NW¼SW¼ sec. 20, blk. A1, 2 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 57.16; July 10, 57.37; Nov. 14, 57.71.

567. J. B. Maxey. SW¼SW¼ sec. 19, blk. A1, 1.25 miles northeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 53.62; Nov. 14, 53.90.

569. O. C. Sanders. SW¼SW¼ sec. 3, blk. A1, 1 mile southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 54.84; Nov. 13, 56.19.

604. Measurements discontinued.

605. J. O. Douglas. NE¼NE¼ sec. 23, blk. O, 11.5 miles northwest of Hale Center. Water levels, in feet below measuring point, 1940: Mar, 27, 86.13; Nov. 13, 87.39.

614. Measurements discontinued.

621. Measurements discontinued.

719-A. W. Bogart. NE¼NE¼NE¼ sec. 22, Sabine County School Land, 15 miles southwest of Hale Center. Water levels, in feet below measuring point, 1940: Jan. 29, 77.30; Mar. 13, 77.42.

719-B. W. Bogart. NE¼NW¼ sec. 22, Sabine County School Land, 17.5 miles southwest of Hale Center. Water level, in feet below measuring point, 1940: Jan. 29, 12.06.

720-B. Measurements discontinued.

Hale County--Continued.

736-A. Measurements discontinued.

736-B. Ross Title Ins. Company. Two miles north and 6.5 miles west of Abernathy. Water levels, in feet below measuring point, 1940: Jan. 29, 33.99; Mar. 13, 34.19; July 10, 34.53.

807. Measurements discontinued.

816. A. M. Eason. SE¼SE¼ sec. 18, blk. R, 9.5 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 56.79; Nov. 13, 57.44.

819. Measurements discontinued.

822. Elsie Thornton. SW¼SW¼ sec. 37, blk. A4, 6.5 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 52.04; July 10, 52.08; Nov. 13, 52.24.

824. J. Wells Kinkaid. SW¼NW¼ sec. 29, blk. A4, 4.75 miles south of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 64.52; July 10, 64.53; Nov. 13, 64.67.

825. Matilda Akeson: NW¼NW¼ sec. 18, blk. A4, 3.25 miles north of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 66.02; Nov. 13, 66.60.

828. C. W. Bigler. NW¼NE¼ sec. 33, blk. A4, 5 miles south of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 73.73; Nov. 15, 75.01.

833. Elsie Thornton. SE¼NE¼ sec. 65, blk. A4, 9.5 miles south of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 84.00; July 10, 84.08.

834. R. E. Sikes. NE¼SE¼ sec. 64, blk. A4, 8.5 miles south of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 77.49; July 10, 77.51; Nov. 13, 77.89.

835. S. E. Wallace. SE¼SW¼ sec. 50, blk. A4, 8 miles south of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 13, 59.92; July 10, 59.98, Nov. 13, 60.15.

837. F. L. Hunsickar. NW¼NW¼ sec. 54, blk. A4, 8 miles southeast of Hale Center. Water level, in feet below measuring point, 1940: Mar. 7, 64.95.

840. Debb McLaughlin. NE¼SE¼ sec. 12, blk. R, 12 miles southeast of Hale Center. Water level, in feet below measuring point, 1940: Nov. 13, 62.59.

848. Mrs. J. E. Cheney. SE¼NE¼ sec. 75, blk. A4, 12.5 miles south of Hale Center. Water level, in feet below measuring point, 1940: Mar. 13, 96.28.

852. Abernathy Cemetery. SW¼SE¼ sec. 2, blk. X; 15 miles south of Hale Center. Water level, in feet below measuring point, 1940: Mar. 13, 117.92.

859. L. Ragland. NE¼SE¼SE¼ sec. 22, blk. C. L., 15.5 miles southeast of Hale Center. Water level, in feet below measuring point, 1940: Nov. 29, 78.16.

906. Floyd Reagan. SW¼SE¼ sec. 59, blk. R, 14 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 42.43; Nov. 13, 44.43.

923. D. C. Bayley. NW¼NW¼ sec. 28, blk. R, 9.5 miles east of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 55.86; Nov. 13, 56.66.

929. Measurements discontinued.

936. B. E. Porter. NW¼NW¼ C. K. Andrews survey, east of sec. 38, blk. R, 14 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 47.34; Nov. 13, 50.06.

Hale County--Continued.

946. B. E. Porter. SE¼SE¼ C. K. Andrews survey, 14.5 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 59.42; Nov. 13, 61.39.

956. J. W. Heard. SW¼NW¼ sec. 7, blk. R, 11.5 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 66.54; Nov. 13, 69.03.

958. W. C. Sewell. SW¼NW¼ sec. 9, blk. R, 12 miles southeast of Hale Center. Water levels, in feet below measuring point, 1940: Mar. 7, 59.00; Nov. 13, 60.14.

971. L. S. Claitor. NW cor. NW¼ sec. 15, blk. C. L., 17.5 miles southeast of Hale Center. Water level, in feet below measuring point, 1940: Nov. 29, 62.66.

974-A. W. B. Mooney. SW¼NW¼ J. A. Alexander survey, 17.5 miles southeast of Hale Center. Water level, in feet below measuring point, 1940: Nov. 29, 63.51.

Hansford County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

124. L. W. Mathews. Five and one-half miles northwest of Spearman. Water level, in feet below measuring point, 1940: Apr. 10, 74.00.

137. S. B. Hale. Five miles northwest of Spearman. Water levels, in feet below measuring point, 1940: Apr. 10, 69.11; Aug. 7, 69.34; Dec. 5, 69.45.

141. J. R. Collard. Six and one-half miles northwest of Spearman. Water levels, in feet below measuring point, 1940: Apr. 10, 72.30; Dec. 5, 72.43.

148. Measurements discontinued.

153. City of Spearman. North well. Water level, in feet below measuring point, 1940: Dec. 5, 257.65.

163. Panhandle Power and Light Company. Six miles west of Spearman. Water level, in feet below measuring point, 1940: Apr. 10, 80.45. Measurements discontinued.

166. Measurements discontinued.

228. No measurements made in 1940.

236. Fred McRee. Eleven miles northwest of Gruver. Water level, in feet below measuring point, 1940: Dec. 5, 170.85.

239. Chicago Rock Island & Gulf Railway. Depot at Gruver. Water levels, in feet below measuring point, 1940: Aug. 8, 148.19; Dec. 5, 148.02.

241. Measurements discontinued.

243. J. H. Gruver. Seven and one-half miles west of Gruver. Water levels, in feet below measuring point, 1940: Aug. 8, 163.78; Dec. 5, 163.73.

244. Patton. Ten miles west of Gruver. Water levels, in feet below measuring point, 1940: Aug. 8, 181.04; Dec. 5, 180.85.

246. H. S. Hays. Two miles southeast of Gruver. Water levels, in feet below measuring point, 1940: Aug. 7, 174.68; Dec. 5, 174.68.

262. Gwinfred Lackey. Five and one-half miles south of Gruver. Water levels, in feet below measuring point, 1940: Aug. 7, 174.68; Dec. 5, 174.68.

270. Measurements discontinued.

277. Coy Holt. Six miles south of Gruver. Water level, in feet below measuring point, 1940: Dec. 5, 28.82.

289. J. J. Jones. Six and one-half miles south of Gruver. Water levels, in feet below measuring point, 1940: Apr. 10, 26.75; Aug. 7, 26.71; Dec. 5, 26.88.

Harris County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845, and 886; Harris County, Texas, Records of wells, etc., State Board of Water Engineers, in cooperation with United States Department of Interior, Geological Survey, 1939 (mimeographed), and Progress Report of the Ground-water Resources of the Houston District, State Board of Water Engineers in cooperation with United States Department of Interior, Geological Survey, 1940 (mimeographed). When two numbers are given the second is the number in the Progress Report of the Ground-water Resources of the Houston District.

6a. C. Matthews. In Waller. No measurements made in 1936-38.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 16, 1939	17.81	June 29, 1940	12.62	Oct. 7, 1940	15.78
Feb. 20, 1940	16.23	Aug. 19	13.44	Nov. 28	10.27
Apr. 30	14.60				

11. J. A. Hafner. Two and one-quarter miles east-southeast of Waller. Between April 30, 1940, and June 1, 1940, measuring point raised 7½ inches to top of iron clamp.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	44.88	June 11	45.55	June 21	45.83	Oct. 7	46.50
Apr. 30	45.30	13	44.98	26	45.53	Nov. 28	46.65
June 1	45.53	15	44.45	Aug. 21	45.90		

12. J. A. Hafner. At house 0.25 mile south of Houston-Hempstead highway, 2 miles northwest of Hockley. Used drilled domestic well, diameter 6 inches, depth 61 feet. Measuring point, top of casing, 3.0 feet above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Apr. 30	48.42	June 13	48.78	June 26	48.95	Oct. 7	48.60
June 1	48.76	15	48.68	July 16	48.52	Nov. 28	48.57
11	45.93	21	48.77	Aug. 21	48.35		

14. J. A. Hafner. One and three-quarters miles east of Waller.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 20	51.95	June 29	52.60	Oct. 7	53.60
Apr. 30	51.94	Aug. 19	53.31	Nov. 28	51.98

31. R. L. Burton. Four miles east-southeast of Waller.

Water level, in feet below measuring point, 1940

Feb. 20	41.80	June 29	47.60	Oct. 7	45.90
Apr. 30	42.27	Aug. 21	a49.41	Nov. 28	44.00

33. W. G. Neeley. Five miles east-southeast of Waller.

Water level, in feet below measuring point, 1940

Feb. 20	29.04	June 29	33.45	Oct. 7	35.30
Apr. 30	32.92	Aug. 21	35.44	Nov. 28	22.58

35. O. M. Taylor. Six and one-quarter miles east-southeast of Waller.

Water level, in feet below measuring point, 1940

Feb. 20	27.72	June 29	27.28	Oct. 7	27.51
Apr. 30	26.89	Aug. 21	27.20	Nov. 28	26.43

a Recently pumped.

Harris County--Continued.

36. Measurements discontinued.

40. Ira Southard. One-quarter mile south of Houston-Hempstead highway at Hockley. Used drilled irrigation well, diameter 18 inches, depth 497 feet. Measuring point, top of 1-inch hole in pump base, 1.0 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point, 1940: Oct. 7, 50.04; Nov. 28, 47.60.

95. H. C. Middlestead. One and three-quarters miles south-southwest of Spring.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 15	26.77	June 28	27.23	Oct. 4	27.78
May 1	26.97	Aug. 25	27.54	Dec. 5	27.32

97. Measurements discontinued.

102. C. P. Addison. Four and one-half miles south of Spring.

Water level, in feet below measuring point, 1940

Feb. 15	16.75	June 28	17.55	Dec. 5	17.85
May 1	16.60	Aug. 25	17.70		

103. Measurements discontinued.

104. C. P. Addison. Four and one-half miles south of Spring.

Water level, in feet below measuring point, 1940

Feb. 20	20.05	June 28	20.40	Dec. 5	20.82
May 1	19.84	Oct. 4	21.26		

120. Ridgeview Land Co. One-quarter mile west of Gano Switch, 1/8 mile south of Houston-Hempstead highway, 3 miles northwest of Cypress. Used drilled stock well, diameter 4 inches, depth 94 feet. Measuring point, top of 4 by 4-inch wood water-pipe clamp set on casing, 2.0 feet above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 3	34.75	June 11	37.84	June 15	35.67	Oct. 7	36.56
May 10	35.29	13	35.75	Aug. 21	36.86	Nov. 30	35.34
June 1	35.22						

134. Ira Southard. Nine miles southwest of Cypress. Water levels, in feet below measuring point, 1940: Mar. 12, 49.80; Apr. 26, 50.13; Oct. 7, 55.23.

134a. Measurements discontinued.

136. J. Freeman. Nine miles southwest of Cypress. Water levels, in feet below measuring point, 1940: Mar. 12, 50.27; Oct. 7, 55.12.

139a. E. W. Peak. Eight and three-quarters miles southwest of Cypress. Water level, in feet below measuring point, 1940: Mar. 12, 47.47.

140. Oscar Kemp. Seven and three-quarters miles southwest of Cypress. Water levels, in feet below measuring point, 1940: Mar. 12, 45.78; Oct. 7, a/55.96.

166. E. C. Smith. One and three-quarters miles northwest of Cypress.

Water level, in feet below measuring point, 1940

Feb. 20	8.22	May 13	7.86	June 10	7.70	June 26	7.93
Apr. 13	7.67	14	7.92	11	7.20	July 1	7.75
30	7.74	21	8.25	12	7.12	16	7.80
May 7	7.53	27	8.60	13	6.99	Aug. 21	10.57
9	7.60	29	8.27	15	8.08	Oct. 3	12.87
10	7.68	30	8.22	21	8.55	Nov. 30	2.44
11	7.75	June 6	8.80				

a Nearby irrigation well pumping.

Harris County--Continued.

167. E. C. Smith. One and three-quarters miles northwest of Cypress.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	17.15	May 11	19.28	May 30	21.16	June 12	20.36
Apr. 13	16.45	13	20.02	June 1	19.35	13	19.88
30	16.45	14	20.24	6	19.40	15	19.42
May 7	16.94	21	21.40	10	20.64	21	18.67
9	17.95	27	22.23	11	20.52	26	(a)
10	18.36	29	21.64				

169a. 160. Ben Pewe. Two and nine-tenths miles northwest of Cypress. Water levels, in feet below measuring point, 1940: Feb. 20, 15.71; Oct. 7, 22.49; Nov. 30, 17.81.

171. E. H. Juergen. In Cypress.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 20	19.61	June 29	18.65	Oct. 3	19.09
Apr. 30	19.08	Aug. 21	18.78	Nov. 30	18.29

178. K. P. Black. Five miles southeast of Cypress.

Water level, in feet below measuring point, 1940

Feb. 20	7.78	June 29	8.52	Oct. 3	15.97
May 1	9.65	Aug. 21	b19.94	Nov. 30	6.19

182. Joel Schmidt. Four and one-half miles south of Cypress. Water levels, in feet below measuring point, 1940: Jan. 3, 34.12; Mar. 13, 33.68; Apr. 26, 33.67; Oct. 4, 42.10.

183. J. J. Sweeney. Five and three-quarters miles south of Cypress. Water levels, in feet below measuring point, 1940: Jan. 3, 31.65; Feb. 13, 31.25; Apr. 26, 31.27; Oct. 4, 38.54.

186. Tucker. Six miles south-southwest of Cypress. Water levels, in feet below measuring point, 1940: Jan. 3, 31.67; Mar. 13, 30.82; Oct. 4, 38.96.

187. Joel Schmidt. At house on Barker-Cypress road, 2 miles north of Spencer road. Unused drilled domestic well, diameter 4 inches, depth 31.5 feet. Measuring point, top of casing, 2.3 feet above land surface. Equipped with pitcher pump.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 11	21.91	June 1	21.49	June 12	21.76	July 1	22.05
13	21.76	3	21.82	13	21.66	16	21.90
21	21.81	6	21.67	15	21.57	Aug. 21	21.98
27	21.76	10	21.47	21	21.84	Oct. 7	22.13
29	21.64	11	21.74	26	21.35	Dec. 6	22.24
30	21.94						

205. Humble Pipe Line Co. Six and one-quarter miles southeast of Cypress.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
May 1	35.16	Aug. 21	37.35	Nov. 30	37.63
June 29	36.85	Oct. 3	38.60		

a Measurements discontinued. b Nearby well pumping.

Harris County--Continued.

206. R. B. Tucker. Six and one-half miles southeast of Cypress. Water levels, in feet below measuring point, 1940: Feb. 20, 30.40; May 1, 29.84; June 29, 36.22; Nov. 30, 32.80.

210. Seven and one-quarter miles southeast of Cypress.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 20	22.75	June 29	27.43	Oct. 3	29.98
May 1	22.69	Aug. 21	29.51	Nov. 30	24.19

221. S. Terpstra. Ten and three-quarters miles east of Cypress.

Water level, in feet below measuring point, 1940

Feb. 15	37.51	June 28	39.27	Oct. 3	42.16
May 1	37.12	Aug. 21	41.25	Dec. 6	39.80

225. Trinity & Brazos Valley Railroad Co. Eleven and one-half miles east-southeast of Cypress.

Water level, in feet below measuring point, 1940

Feb. 15	34.55	June 28	36.83	Oct. 3	39.85
May 1	34.23	Aug. 21	38.98	Dec. 6	37.69

254. Measurements discontinued.

255. J. M. Blake. Two and one-half miles west-northwest of Aldine.

Water level, in feet below measuring point, 1940

Feb. 15	21.06	June 28	20.08	Oct. 4	25.39
May 2	19.05	Aug. 20	a27.50	Dec. 5	20.70

256. J. M. Blake. On Houston-Conroe road, 14 miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 15	36.67	June 28	37.32	Oct. 4	39.29
May 2	36.73	Aug. 20	38.25	Dec. 5	39.26

264. H. Weary. Three miles north of Aldine.

Water level, in feet below measuring point, 1940

Feb. 15	39.68	June 28	40.10	Oct. 4	41.80
May 2	b39.60	Aug. 20	40.89	Dec. 5	c41.71

264a. Fifteen hundredths mile south of well 264 on Hardy Street, opposite mile post 135 on Missouri Pacific Railroad.

Water level, in feet below measuring point, 1940

Feb. 15	15.03	June 28	11.32	Oct. 4	15.09
May 2	10.53	Aug. 20	13.25	Dec. 12	12.57

302. Rebel Oil Company. Three and one-half miles southeast of Humble. Water levels, in feet below measuring point, 1940: Feb. 15, 38.36; June 28, 39.20; Oct. 4, 40.59.

352. A. E. Thompson. Five and three-quarters miles north of Katy. Water levels, in feet below measuring point, 1940: Mar. 12, 52.55; Oct. 7, 62.12.

357. P. V. Cook. Four and one-half miles north-northeast of Katy. Water levels, in feet below measuring point, 1940: Mar. 12, 43.09; Apr. 26, 44.71; well abandoned.

362. E. G. Stockdick. Four miles northeast of Katy. Water levels, in feet below measuring point, 1940: Mar. 12, 43.60; Apr. 26, 43.10; Oct. 4, 55.56.

a Pumping.
b Pond has apparently leaked into casing at times.
c Water 2 feet deep around well.

Harris County--Continued.

367. W. C. Hickman. Three and one-quarter miles east-northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 46.03; Mar. 12, 44.75; Apr. 26, 44.52; Oct. 4, dry at 52 feet.

370. J. M. Johnson. Three miles east of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, a/45.86; Mar. 13, 44.44; Apr. 26, 44.06; Oct. 7, 56.08.

371. L. E. Morrison. Three miles southeast of Katy. Used drilled irrigation well, diameter 24 inches, depth 374 feet. Measuring point, top of casing, 0.5 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Jan. 6, 1939	40.46	Mar. 13, 1940	41.74	Oct. 4, 1940	51.58
Jan. 3, 1940	42.76	Apr. 26	41.66		

381. Seven and one-half miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 33.13; Mar. 13, 32.70; Apr. 26, 32.84.

382. C. Stockdick. Six miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 41.65; Mar. 13, 40.44; Apr. 26, 40.04; Oct. 4, 53.34.

383. Measurements discontinued.

384. A. J. Jordan. Six miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 44.23; Mar. 13, 42.62; Apr. 26, 42.11; Oct. 4, 55.40.

385. A. J. Jordan. Six miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 43.15; Mar. 13, 42.29; Apr. 26, 42.15; Oct. 4, 50.81.

399. Gertie Rice Farm. Nine and one-half miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 30.45; Mar. 13, 30.13; Apr. 26, 30.09; Oct. 4, 35.00.

400. Schmidt Estate. Eleven miles northeast of Katy. Water levels, in feet below measuring point, 1940: Jan. 3, 29.20; Apr. 26, 28.95; Oct. 4, 34.33.

456. Frank Willberg. On Hempstead road, 0.5 mile southeast of Fairbanks. Unused drilled irrigation well, diameter 6 inches, depth 230 feet. Measuring point, top of casing 0.25 foot above land surface.

Water level, in feet below measuring point, 1931, 1939-40

Apr. 2, 1931	30.00	June 29, 1940	41.20	Oct. 3, 1940	44.13
Dec. 2, 1939	40.67	Aug. 21	42.80	Nov. 30	43.94

512. Ed Nichols. Eight and one-half miles west-northwest of Houston Post Office. Water levels, in feet below measuring point, 1940: Feb. 16, 9.58; June 29, 9.10; Aug. 21, 12.50; Nov. 30, 7.89.

519. Felix Meyers. Six and three-quarters miles west-northwest of Houston Post Office. Water level, in feet below measuring point, 1940: Feb. 16, 13.3.

602. River Oaks Country Club. Four miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	65.36	June 25	73.68	Oct. 2	79.80
May 3	67.90	Aug. 5	76.04	Nov. 28	73.66

604. West End Ice Company. Two and one-half miles northwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	68.29	May 3	68.20	Nov. 28	73.41
Feb. 20	67.90	Oct. 2	74.80		

a Measuring point lowered 0.1 foot to top of casing.

Harris County--Continued.

606. Henke & Pillot. Two miles west-northwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	82.22	May 3	87.21	Aug. 6	93.09	Nov. 28	92.30
Feb. 20	84.76	June 25	89.36	Oct. 2	96.80		

608. Fidelity Products Company. One and three-quarters miles west-northwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	76.92	May 3	79.44	Aug. 6	87.17	Nov. 28	84.14
Feb. 20	75.40	June 25	84.69	Oct. 2	87.28		

609. Fidelity Products Company. One and three-quarters miles west-northwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	86.92	May 3	91.79	Aug. 6	98.54	Nov. 28	97.19
Feb. 20	89.18	June 25	94.23	Oct. 2	102.17		

610. No measurements made in 1940.

619. City of Houston. One and one-half miles west-northwest of Houston.

Water level, in feet below measuring point, 1940

Jan. 2	80.37	Mar. 25	85.34	June 10	91.93	Aug. 31	101.65
9	83.17	Apr. 1	84.73	17	94.46	Sept. 7	100.59
15	83.96	8	86.10	24	95.04	14	101.82
29	85.86	15	87.28	July 1	90.80	21	102.62
Feb. 5	85.54	22	88.60	8	94.50	28	101.49
12	88.89	29	87.94	22	94.92	Oct. 5	101.02
19	85.33	May 6	89.06	27	98.44	12	101.62
26	83.45	13	89.69	Aug. 3	98.60	Nov. 19	93.89
Mar. 5	83.39	20	89.78	10	99.66	26	94.73
11	86.84	22	91.04	17	100.32	Dec. 3	95.43
18	87.30	June 4	92.97	24	100.70	18	93.74

620. Public Laundries. At 1601 West Webster Street in Houston. Water level, in feet below measuring point, 1940: Jan. 14, 103.57; May 26, 114.10; Aug. 25, 130.80; Dec. 1, 113.60.

651a. A. Wilke. Nine miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 14	58.57	June 27	60.34	Oct. 2	64.00
May 2	59.27	Aug. 20	62.10	Dec. 5	63.43

651b. A. Wilke. Nine miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 14	12.07	June 27	12.54	Dec. 5	12.00
May 2	10.74	Aug. 20	14.55		

651c. J. W. Follis. Gulf Bank Road, 0.55 mile east of U. S. Highway 75.

Water level, in feet below measuring point, 1940

Feb. 14	51.02	June 27	52.27	Dec. 5	55.28
May 2	51.44	Oct. 2	55.25		

651d. Eight miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 14	62.78	June 27	64.78	Oct. 2	68.33
May 2	63.64	Aug. 20	66.42	Dec. 5	68.04

Harris County--Continued.

654a. H. C. Meyers. One-quarter mile north-northwest of Beaumann's ranch house. Water levels, in feet below measuring point, 1940: Feb. 14, 0.78; May 2, 0.28; Aug. 20, 0.96; Dec. 5, 0.90.

656. Texas Creosoting Company. Four and one-half miles north of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 14	89.74	June 27	94.75	Oct. 2	98.92
May 2	94.00	Aug. 8	96.70		

662. South Texas Cotton Oil Company. Two and one-half miles north-northeast of Houston Post Office. Water levels, in feet below measuring point, 1940: Feb. 14, 95.39; June 27, 98.92; Oct. 2, 107.45; Nov. 26, 102.43.

663. South Texas Cotton Oil Company. Two and three-quarters miles north-northeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 14	71.46	June 27	75.95	Nov. 26	76.10
May 2	73.48	Aug. 8	78.27		

665. National Lumber and Creosoting Company. Two and three-quarters miles north-northwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 14	71.43	June 27	74.28	Oct. 2	77.78
May 2	72.35	Aug. 8	75.90	Nov. 26	75.13

666a. 623. Houston Foundry & Machine Company. At 2005 White and Weber Streets, Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	80.99	May 3	82.32	Aug. 6	88.98	Nov. 28	89.19
Feb. 20	80.12	June 25	86.38	Oct. 2	91.30		

677. Houston Light and Power Company. Cable Street and Buffalo Bayou in Houston. Water levels, in feet below measuring point, 1940: Jan. 17, 103.6; Feb. 24, 109.5; May 3, 116.3; Oct. 11, 118.96.

680. Houston Electric Company. One-half mile northeast of Houston Post Office.

Water levels, in feet below measuring point, 1940

Jan. 2	64.28	Mar. 25	74.29	June 10	76.91	Aug. 31	93.02
9	62.83	Apr. 1	73.77	17	76.52	Sept. 7	93.55
15	63.15	8	73.46	24	77.04	14	95.72
29	77.75	15	72.00	July 1	79.07	21	97.00
Feb. 5	75.58	22	73.04	8	77.78	28	91.70
12	71.94	29	72.75	20	79.07	Oct. 5	90.59
19	69.37	May 6	72.79	27	80.34	12	90.02
26	67.89	13	75.52	Aug. 3	85.35	Nov. 19	83.09
Mar. 4	67.85	20	77.88	10	87.78	26	81.00
11	71.23	27	76.57	17	89.21	Dec. 3	80.27
18	72.40	June 3	75.89	24	90.59	10	79.15

695. Harris County Courthouse. One-quarter mile north-northeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	58.98	May 2	59.25	Aug. 6	62.38
Feb. 24	58.31	June 27	61.36	Oct. 3	64.70

Harris County--Continued.

738. Houston Packing Company. One and one-half miles east of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	69.76	May 3	69.91	Aug. 6	70.83
Feb. 24	69.81	June 27	70.28	Oct. 3	71.87

741. No measurements made in 1940.

748. Gulf Pipe Line Company. Five miles northeast of Houston Post Office. Unused drilled industrial well, diameter 6 inches, depth 721 feet. Measuring point, top of casing 2.5 feet above land surface.

Water level, in feet below measuring point, 1911, 1931, 1939-40

Nov. --, 1911	a+4.00	July 10, 1939	71.10	Aug. 24, 1939	72.87
Jan. 14, 1931	50.20	11	71.08	Sept. 29	74.24
June 8, 1939	70.96	13	70.20	Oct. 31	75.68
30	70.78	14	70.65	Dec. 14	75.70
July 2	70.90	15	70.87	Feb. 14, 1940	76.07
4	71.00	18	70.78	May 2	77.47
5	71.01	24	71.25	June 27	79.95
6	70.99	Aug. 1	71.64	Aug. 8	81.33
7	71.02	8	71.80	Oct. 3	84.96
8	71.08	15	72.00	Nov. 26	83.49
9	71.13				

751. The Texas Pipe Line Company. Six miles east-northeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Feb. 14	85.40	June 27	89.17	Oct. 3	94.35
May 2	86.91	Aug. 8	90.86	Nov. 26	92.79

757. Layne-Bowler Company. Four and one-quarter miles east of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	90.74	June 27	94.85	Aug. 8	b95.5	Nov. 26	96.00
May 2	92.66	27	b94.5	Oct. 3	100.00		

759. Port City Compress & Warehouse Company. Four and three-quarters miles east of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 14	95.51	June 27	99.45	Nov. 26	103.20
May 2	98.02	Aug. 8	101.56		

783. Houston Riding & Polo Club. Six miles west of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	51.73	Mar. 23	52.20	June 25	54.04	Oct. 2	58.15
Feb. 20	51.59	Apr. 26	52.70	Aug. 5	55.82	Nov. 28	56.75

787. American Service Company. Two and one-half miles west-southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	71.69	Mar. 23	72.59	June 25	76.85	Oct. 2	81.02
Feb. 20	72.10	Apr. 26	73.57	Aug. 5	78.58	Nov. 28	76.39

a Flowed 40 gallons a minute. b Air line measurement.

Harris County--Continued.

787a. 779. American Service Company. At 1623 Westheimer Street in Houston. Water levels, in feet below measuring point, 1940: Jan. 15, 74.94; Feb. 20, 74.65; Oct. 2, 87.83; Nov. 28, 81.75.

787b. 780. Hollyfield Laundry Company. At 1733 Westheimer Street in Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 14	73.97	May 26	74.85	Dec. 1	81.74
Feb. 25	73.64	Aug. 25	84.49		

788. Shepherd Laundries. At 2400 Louisiana Street in Houston.

Water level, in feet below measuring point, 1940

Jan. 14	103.22	May 26	114.24	Dec. 1	113.32
Feb. 25	106.50	Aug. 25	129.92		

790. Southern United Ice Company. Two miles south-southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	74.94	Apr. 24	77.10	Aug. 5	85.52	Nov. 27	82.74
Feb. 21	74.31	June 25	82.72	Sept.30	86.65		

798. Rice Institute. Three and one-half miles southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 16	65.81	Apr. 24	67.40	Aug. 5	72.42	Nov. 27	71.15
Feb. 21	66.83	June 25	69.90	Oct. 2	73.94		

798a. 778. H. C. Weiss. South Main and Sunset Streets in Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	76.15	Apr. 24	77.74	Oct. 2	83.15
Feb. 21	75.62	June 25	80.60	Nov. 27	80.76

802. West University Place. Five and one-half miles west-southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	52.83	Apr. 24	54.03	Aug. 5	57.15
Feb. 20	52.76	June 25	55.63	Oct. 2	59.45

804. West University Place. Five and one-half miles west-southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 15	60.26	Apr. 24	62.45	Aug. 5	64.70
Feb. 20	61.10	June 25	63.80	Oct. 2	(a)

807a. City of Bellaire. Rice and Jessamine Streets at water tower in Bellaire. Water levels, in feet below measuring point, 1940: Jan. 15, 50.60; Apr. 24, 53.24; Aug. 5, 56.50; Nov. 27, 56.56.

809. Gem Electric and Ice Company. In Bellaire.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	62.70	Apr. 24	63.88	Aug. 5	71.39	Nov. 27	71.95
Feb. 20	62.96	June 25	66.75	Oct. 2	73.68		

a Well sealed.

Harris County--Continued.

820. Institute Place. Almeda Road, 5.5 miles south-southwest of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	37.16	Apr. 24	38.06	Aug. 5	39.34
Feb. 21	37.36	June 25	38.43	Sept.30	40.45

853. Port City Ice Company. At 2715 McKinney Avenue in Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	93.82	May 3	96.45	Aug. 8	116.01	Nov. 22	112.04
Feb. 24	94.48	June 27	112.90	Oct. 1	116.65		

854. Port City Ice Company. One mile southeast of Houston Post Office. Water levels, in feet below measuring point, 1940: June 27, 120.94; Aug. 8, 114.24; Oct. 1, 113.7; Nov. 22, 107.19.

868. Hughes Tool Company. Three miles southeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 17	70.48	May 3	73.03	Aug. 6	77.21	Nov. 22	73.91
Feb. 24	71.15	June 27	75.59	Oct. 1	77.15		

876. Houston Country Club. Three and three-quarters miles southeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Jan. 17	75.95	May 3	81.66	July 30	85.50	Oct. 1	89.77
Feb. 24	78.02	June 27	84.41	Aug. 6	86.90	Nov. 22	85.00

878. Houston Compress Company. Anderson-Clayton Turning Basin in Houston. Water levels, in feet below measuring point, 1940: Jan. 17, 81.57; Feb. 24, 83.5; Oct. 1, 97.1; Nov. 22, 94.0.

881. Terminal Compress & Warehouse Company. Eighty-second and Harrisburg Streets in Houston.

Water level, in feet below measuring point, 1940

Jan. 17	83.25	May 3	88.15	Aug. 6	92.18	Nov. 22	94.02
Feb. 24	85.12	June 27	89.70	Oct. 1	95.48		

883. Tennessee Coal and Iron Railroad Company. U. S. Steel. Near Morgan Line Docks on Bayou, 6.75 miles southeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 14	107.83	June 27	114.37	Oct. 3	122.00
May 6	110.79	Aug. 8	119.36	Nov. 26	119.98

886. Phoenix Refinery. Bowie and San Antonio Streets, 5.5 miles southeast of Houston Post Office.

Water level, in feet below measuring point, 1940

Mar. 4	78.21	June 26	82.01	Oct. 1	a82.89
May 3	79.47	Aug. 7	83.80	Nov. 22	82.28

890. Texas Chemical Company. Six miles southeast of Houston Post Office. Water levels, in feet below measuring point, 1940: Feb. 24, 102.31; June 26, 108.06.

a Measuring point lowered 2.5 feet to new top of casing.

Harris County--Continued.

898a. 913. Allen Estate. Park Place Boulevard and Poplar Street in Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	82.13	May 3	84.67	July 31	89.73	Oct. 1	93.97
Feb. 21	83.40	June 26	87.35	Aug. 7	90.49	Nov. 22	92.61

905. City of Houston Prison Farm. Mykawa Road near Garden Villas, 7.5 miles south-southeast of Houston Post Office. Used drilled industrial well, depth 1,900 feet. Measuring point, top of inner pump base, at land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931, 1939-40

Date	Water level	Date	Water level	Date	Water level
Apr. 9, 1931	15.94	Dec. 18, 1939	29.19	June 26, 1940	31.88
May 10, 1939	27.03	Jan. 17, 1940	29.51	Aug. 7	32.43
July 28	27.51	Feb. 21	30.10	Sept.30	33.20
Aug. 30	27.79	May 3	31.14		

1019. Captain Crotty. Morgans Point, bank of channel, north of U. S. Engineers Reservation, Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	61.92	May 6	62.89	Aug. 8	67.81	Nov. 22	65.39
Feb. 21	64.40	June 26	65.87	Oct. 1	67.07		

1020. U. S. Engineers Reservation. Morgans Point, Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	59.02	May 6	61.02	Aug. 8	64.87	Nov. 22	62.58
Feb. 21	61.36	June 26	62.92	Oct. 1	64.27		

1101a. 1100. M. M. Graves Estate. Eight and one-half miles east-northeast of South Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	92.75	Apr. 29	93.67	Oct. 1	97.80
Feb. 21	93.59	Aug. 8	98.64	Nov. 22	96.42

1104. City of La Porte. La Porte water plant. Used drilled public supply well, diameter 10 inches, depth 570 feet. Measuring point, top of tee in air line, 1.0 foot above land surface. Equipped with air lift.

Water level, in feet below measuring point, 1940

May 31	a80.90	Aug. 8	84.01	Nov. 22	82.96
June 26	82.58	Oct. 1	a84.84		

1105. A. A. Womack. Thirteen miles east of South Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	60.23	May 6	60.78	June 26	61.33	Oct. 1	62.60
Feb. 21	60.75	31	60.82	Aug. 8	62.34		

1152a. 1150. City of Galena Park. In Galena.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
May 6	110.20	Aug. 8	116.68	Nov. 22	118.87
June 27	112.88	Oct. 3	117.95		

a Nearby well pumping.

Harris County--Continued.

1154. Universal Water Company. Four and three-quarters miles north of South Houston in Galena Park.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 14	79.28	June 27	80.49	Oct. 3	81.30
May 6	79.75	Aug. 8	80.40	Nov. 22	81.29

1161. Sinclair Refining Company. Three miles north of South Houston.

Water level, in feet below measuring point, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	110.25	Apr. 8	113.50	July 1	120.77	Sept.28	127.91
9	109.13	15	115.29	8	120.93	Oct. 5	127.41
15	109.99	22	117.01	20	123.87	12	128.05
29	115.05	29	115.87	27	125.50	30	128.20
Feb. 5	114.57	May 6	114.96	Aug. 3	126.37	Nov. 8	126.50
12	111.02	13	116.51	10	126.97	14	126.31
19	108.54	20	117.22	17	128.10	19	125.33
26	108.88	31	117.66	24	128.30	26	124.74
Mar. 4	108.79	June 3	119.75	31	125.85	Dec. 3	122.31
11	113.58	10	118.78	Sept. 7	126.37	14	123.40
18	112.14	17	118.04	14	126.97	16	122.45
25	112.60	24	117.61	21	128.72	30	122.43
Apr. 1	114.06						

1170. Houston Light and Power Company. Deep-water plant, 4.25 miles north of South Houston.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
July 21, 1939	100.5	Apr. 19, 1940	108.5	July 26, 1940	118.0
31	96.0	26	115.0	Aug. 1	115.5
Aug. 4	98.5	May 3	108.5	16	118.5
26	105.5	10	109.5	30	116.5
Oct. 13	105.5	17	110.5	Sept.13	115.5
20	103.0	31	111.5	Oct. 10	119.5
Nov. 3	104.0	June 7	113.5	Nov. 1	122.5
Dec. 1	102.0	17	112.0	26	120.5
Mar. 14, 1940	109.5	21	115.0	Dec. 5	116.0
22	107.0	28	114.5	13	114.5
29	110.5	July 5	111.0	27	115.0
Apr. 5	109.5	12	111.5		

1174. Measurements discontinued.

1176. The Texas Company. At refinery in Galena Park, 5.25 miles north-northeast of South Houston.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	61.44	Mar. 18	65.41	June 3	69.63	Aug. 24	74.69
9	61.49	25	64.78	10	68.25	31	74.09
15	62.25	Apr. 1	64.64	17	69.13	Sept. 7	73.51
29	62.87	8	65.67	24	69.90	14	73.80
Feb. 5	62.51	15	66.19	July 1	70.71	28	74.32
12	61.36	22	66.77	8	70.01	Oct. 5	74.03
19	60.78	29	67.11	20	72.13	12	72.45
26	61.32	May 6	66.19	27	72.67	Nov. 19	71.70
Mar. 4	a64.73	13	67.37	Aug. 3	73.28	26	71.54
8	65.15	20	68.03	10	73.87	Dec. 3	70.85
11	65.02	27	68.36	17	74.11		

a Measuring point raised 3.36 feet to top of 8-inch riser on casing.

Harris County--Continued.

1182. Port Terminal Railroad Company. Southeast corner of Crown Refinery.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	128.14	Feb. 26	123.93	Apr. 15	131.42	May 23	128.39
9	123.83	Mar. 4	127.02	22	135.13	June 3	137.21
15	124.99	11	132.55	29	127.49	26	127.74
29	133.40	18	130.48	May 6	125.38	Aug. 8	139.90
Feb. 5	132.09	25	124.99	13	124.42	Oct. 1	137.65
12	122.34	Apr. 1	132.50	20	127.34	Nov. 22	141.38
19	117.48	8	129.52				

1187. City of Pasadena. Three and one-half miles north-northeast of South Houston. Water levels, in feet below measuring point, 1940: Feb. 21, 119.40; Aug. 8, 130.73; Nov. 22, 132.94.

1187a. 1231. City of Pasadena. Three and one-half miles north-northeast of South Houston. Water levels, in feet below measuring point, 1940: Jan. 17, 121.90; Feb. 21, 118.97; Aug. 8, 133.59; Nov. 22, 134.08.

1194. No measurements made in 1940.

1194a. 1232. Deepwater Quadrangle, 0.5 mile south of Deepwater railroad station.

Water level, in feet below measuring point, 1940

Jan. 17	96.54	Apr. 29	97.53	Aug. 8	102.01	Nov. 22	100.66
Feb. 21	97.38	June 26	99.13	Oct. 1	102.61		

1194b. Deepwater Quadrangle, 0.5 mile south of Deepwater railroad station.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	17.37	June 26	16.76	Oct. 1	18.00
Feb. 21	17.50	Aug. 8	16.66		

1205. City of South Houston. At water plant. Used drilled public supply well, diameter 8 inches, depth 668 feet. Measuring point, top of 3/4-inch opening in reducer on top of special 1¼-inch measuring pipe, 1.5 feet above land surface. Equipped with electric turbine pump. Water levels, in feet below measuring point, 1940: Aug. 7, 74.77; Nov. 22, 79.38.

1209. Fireworks Company. One-half mile southeast of South Houston.

Water level, in feet below measuring point, 1939-40

Jan. 27, 1939	55.24	July 7, 1939	56.57	Oct. 30, 1939	57.51
Mar. 6	55.49	8	56.58	Dec. 12	58.00
Apr. 23	55.49	9	56.56	Jan. 17, 1940	57.57
May 22	55.56	10	56.58	Feb. 21	58.31
June 26	56.25	14	56.35	May 3	59.04
July 1	56.43	15	56.35	June 26	59.69
3	56.52	21	56.28	Aug. 7	60.15
4	56.50	Aug. 24	57.03	Oct. 1	61.40
5	56.49	Sept.27	57.84	Nov. 22	62.08
6	56.51				

Hartley County

Well numbers correspond to those in Water-Supply Paper 886.

250. Four and one-half miles northwest of Hartley. Water levels, in feet below measuring point, 1940: Apr. 12, 321.87; Aug. 8, below 320 feet.

297A. No measurements made in 1940.

Hays County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

106. Henry Armbruster. Ten feet north of elevated steel tank, 1.25 miles northwest of Buda. Used drilled domestic and stock well, diameter 6 inches, depth 240 feet. Measuring point, top of casing, 0.75 feet above land surface. Equipped with gasoline engine.

Water level, in feet below measuring point, 1937, 1940

Date	Water level	Date	Water level	Date	Water level
Dec. 1, 1937	155.61	Mar. 25, 1940	167.73	June 24, 1940	162.74
Jan. 9, 1940	167.01	Apr. 27	165.97	July 29	157.60
Feb. 27	166.86	May 28	167.17	Aug. 26	160.76

110. M. O. Rogers. About 100 feet south of county road, about 100 feet east of rock house, 7 miles west of Buda. Used drilled stock well, diameter 6 inches, depth 110 feet. Measuring point, top of iron water pipe clamp, 0.2 foot above land surface. Well drilled 30 feet deeper between Nov. 4, 1937 and Jan. 8, 1940.

Water level, in feet below measuring point, 1937, 1940

Nov. 4, 1937	63.44	Apr. 29, 1940	51.45	Aug. 26, 1940	56.70
Jan. 8, 1940	52.29	May 24	50.87	Sept.27	53.41
Feb. 26	51.79	June 24	50.52	Oct. 30	53.63
Mar. 25	52.64				

126. One hundred feet east of county road, 9.75 miles west of Buda. Seldom used drilled domestic well, diameter 8 inches, depth 127 feet. Measuring point, top of casing, 1.4 feet above land surface. Equipped with rope and bucket.

Water level, in feet below measuring point, 1937, 1940

Nov. 26, 1937	98.49	Apr. 29, 1940	98.43	Aug. 26, 1940	97.48
Jan. 9, 1940	100.04	May 24	98.37	Sept.27	97.61
Feb. 26	99.28	June 24	98.12	Oct. 30	97.38
Mar. 25	102.79	July 26	97.54	Dec. 5	96.32

127. M. G. Michaelis. About 300 feet north of county road, 6.25 miles southwest of Buda. Used drilled domestic and stock well, diameter 6 inches, depth about 250 feet. Measuring point, top of iron water pipe clamp, 1 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Jan. 9	185.60	Apr. 29	185.70	Sept.27	184.95
Mar. 25	186.82	Aug. 29	184.82	Oct. 30	185.26

234-A. N. E. Hughes. About 150 feet south of well 677-A, 0.25 mile northwest of Wimberly. Used drilled domestic well, diameter 5⅝ inches, depth 162 feet. Measuring point, top of casing, 2.3 feet above land surface. Flowing well on Apr. 28, 1938. Equipped with automatic pump since Feb. 28, 1940.

Water level, in feet below measuring point, 1938, 1940

Apr. 28, 1938	a14.9	May 28, 1940	17.34	Sept.23, 1940	18.20
Feb. 28, 1940	11.54	June 25	17.84	Oct. 28	18.27
Mar. 27	14.02	July 29	18.15	Dec. 6	18.31
Apr. 30	16.66	Aug. 29	18.34		

348. P. K. Karnes. At house on hilltop, about 300 feet northeast of State Highway 80, 1.25 miles northwest of San Marcos. Used drilled domestic and stock well, diameter 6 inches, depth 365 feet. Measuring point, lower edge of notch in north side of casing, 0.5 foot above land surface.

Water level, in feet below measuring point, 1937, 1940

Oct. 5, 1937	260.14	May 29, 1940	255.04	Sept.27, 1940	255.51
Jan. 23, 1940	254.76	July 26	254.72	Oct. 29	255.20
Mar. 25	254.60	Aug. 29	255.17	Dec. 5	253.77
Apr. 29	254.51				

a Above measuring point.

Hays County--Continued.

349. E. Brooks. About 100 feet west of county road, about 300 feet south of State Highway 80, 1.75 miles northwest of San Marcos. Used drilled domestic and stock well, diameter 6 inches, depth 176 feet. Measuring point, top of iron water pipe clamp, 0.6 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1937, 1940

Date	Water level	Date	Water level	Date	Water level
Oct. 5, 1937	164.39	Apr. 27, 1940	165.00	Sept.27, 1940	165.79
Jan. 9, 1940	165.79	July 1	164.76	Oct. 29	165.64
Feb. 26	165.10	26	165.23	Dec. 5	164.19
Mar. 25	165.06	Aug. 27	165.61		

502. Carl Fritz. Sixty feet north of U. S. Highway 290, 150 feet west of Hays-Travis County line. Water level, in feet below measuring point, 1940: Jan. 24, 124.50.

504. Glynn C. Key. Two hundred feet north of U. S. Highway 290, 2.3 miles west of Hays-Travis County line.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	39.47	May 5	38.04	July 29	36.80	Oct. 28	36.83
Feb. 28	37.62	28	37.72	Aug. 29	36.69	Dec. 6	36.02
Mar. 27	37.55	June 25	37.60	Sept.23	36.74		

505. Glynn C. Key. Two feet north of well 504.

Water level, in feet below measuring point, 1940

Jan. 24	77.74	May 6	76.47	July 29	66.27	Oct. 28	70.54
Feb. 28	76.16	28	76.96	Aug. 29	70.94	Dec. 6	65.23
Mar. 27	75.81	June 25	75.31	Sept.23	70.05		

506. John L. Tinney. One hundred fifty feet north of U. S. Highway 290, 0.7 mile east of Dripping Springs, 6.8 miles west of Hays County line.

Water level, in feet below measuring point, 1940

Jan. 24	36.47	May 6	36.43	July 29	36.17	Oct. 28	36.19
Feb. 28	36.42	28	36.45	Aug. 29	36.19	Dec. 6	35.78
Mar. 27	36.48	June 25	36.42	Sept.23	36.12		

507. John L. Tinney. Twenty-one feet east of well 506.

Water level, in feet below measuring point, 1940

Jan. 24	66.24	May 6	63.39	July 29	59.42	Oct. 28	64.03
Feb. 28	66.03	28	63.27	Aug. 29	70.55	Dec. 6	64.40
Mar. 27	70.30	June 25	63.16	Sept.23	63.47		

524. H. W. Hageman. Ten feet east of water tank, 100 feet north of local road which turns west from old U. S. Highway 81 at point 1.8 miles north of courthouse in San Marcos.

Water level, in feet below measuring point, 1940

Jan. 23	34.29	Apr. 27	33.99	July 26	36.24	Oct. 29	34.70
Feb. 26	36.41	May 24	34.54	Aug. 26	36.54	Dec. 5	33.34
Mar. 25	34.05	June 27	34.23	Sept.27	34.82		

528. F. N. Whaley. One-tenth mile west of old U. S. Highway 81, 4.75 miles north of courthouse in San Marcos.

Water level, in feet below measuring point, 1940

Jan. 23	98.44	Apr. 27	98.20	July 26	99.96	Sept.27	99.07
Feb. 26	98.31	May 24	98.70	Aug. 26	98.90	Oct. 29	98.93
Mar. 25	98.20	June 27	98.47				

Hays County--Continued.

529. Nicholas Thiele. At south edge of Kyle, 15 feet south of street, 25 feet northeast of first house west of railway.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	148.13	Apr. 27	149.07	July 26	148.87	Oct. 30	148.47
Feb. 26	148.38	May 24	150.01	Sept.27	149.40	Dec. 5	146.53
Mar. 25	149.96	June 27	150.03				

532. San Antonio bank. On old U. S. Highway 81, 150 feet east of highway, 3.2 miles north of Kyle. Water levels, in feet below measuring point, 1940: Jan. 29, 168.79; Mar. 25, 167.14; Aug. 29, 164.06; Oct. 30, 166.02.

534. S. B. Barber. In Buda, on west side near north end of Main Street. Equipped with automatic pump since July 26, 1940.

Water level, in feet below measuring point, 1940

Jan. 23	142.06	Apr. 29	138.80	July 26	125.97	Oct. 29	140.28
Feb. 26	142.91	May 24	140.35	Aug. 26	134.49	Dec. 5	124.33
Mar. 25	143.67	June 24	130.37	Sept.27	137.84		

535. Thomas Yoe. One hundred feet east of U. S. Highway 81, 0.2 mile south of Hays-Travis County line. Not used since Apr. 29, 1940.

Water level, in feet below measuring point, 1940

Jan. 23	27.45	Apr. 29	26.99	July 26	26.24	Oct. 30	26.78
Feb. 26	26.96	May 24	27.01	Aug. 26	26.50	Nov. 30	26.58
Mar. 25	27.58	June 24	26.95	Sept.27	26.66		

543. W. P. Donaldson. Five hundred feet northwest of old U. S. Highway 81, 2.6 miles southwest of San Marcos.

Water level, in feet below measuring point, 1940

Jan. 23	77.18	Apr. 27	73.90	July 1	a 5.95	Aug. 27	76.83
Feb. 27	76.89	May 24	76.44	26	76.43		

553. G. M. Jackson. On old U. S. Highway 81, opposite school house, 300 feet west of road, 2.95 miles southwest of courthouse at San Marcos. Not used since Sept. 28, 1938.

Water level, in feet below measuring point, 1940

Jan. 23	122.03	Apr. 27	121.84	July 26	121.87	Oct. 29	122.56
Feb. 27	121.84	May 24	122.18	Aug. 27	122.32	Dec. 5	121.01
Mar. 25	121.99	June 27	121.95	Sept.27	122.64		

565. San Antonio bank. On old U. S. Highway 81, 1 mile north of Kyle. Water levels, in feet below measuring point, 1940: Jan. 23, 161.17; May 24, 162.14; Oct. 30, 159.17; Dec. 5, 159.75.

585. R. F. Clayton. On State Highway 80, 100 feet southwest of road intersection, 4.15 miles south of Wimberly.

Water level, in feet below measuring point, 1940

Jan. 24	65.18	Apr. 30	66.13	July 29	61.73	Oct. 28	64.36
Feb. 28	65.48	May 28	68.11	Aug. 29	66.40	Dec. 6	61.49
Mar. 27	65.85	June 25	66.67	Sept.23	64.71		

586. W. A. Leath. Two hundred fifty feet east of State Highway 80, 1 mile southeast of Wimberly.

Water level, in feet below measuring point, 1940

Jan. 24	44.43	May 28	44.31	July 29	43.05	Oct. 28	42.57
Mar. 27	43.91	June 25	43.05	Sept.23	44.69	Dec. 6	41.70
Apr. 30	42.73						

a Affected by heavy rain.

Hays County--Continued.

590. Fred Boyett. One hundred feet south of local road, 3.2 miles west of well 585, 4.15 miles southwest of Wimberly.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	69.28	Apr. 30	70.50	Aug. 29	71.37	Oct. 28	70.21
Feb. 28	68.79	May 28	68.15	Sept.23	68.49	Dec. 6	65.20
Mar. 27	68.96	June 25	64.38				

591. Fred Boyett. One hundred feet south of well 590.

Water level, in feet below measuring point, 1940

Jan. 24	56.49	Apr. 30	50.96	July 29	49.88	Oct. 28	55.54
Feb. 28	54.69	May 28	53.60	Aug. 29	53.26	Dec. 6	42.90
Mar. 27	55.16	June 25	37.72	Sept.23	54.52		

613. A. J. Haley. One hundred fifty feet west of road, 11.4 miles south of Dripping Springs.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 24	174.04	Mar. 27	174.28	Aug. 29	174.61
Feb. 28	174.24	May 28	174.24	Oct. 28	175.55

614. J. D. McCall. Fifty feet west of road, 6.85 miles south of Dripping Springs. Water level affected by heavy rains.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	109.24	Apr. 30	24.95	July 29	24.81	Oct. 28	88.70
Feb. 28	24.91	May 28	26.09	Aug. 29	55.70	Dec. 6	24.06
Mar. 27	26.06	June 25	24.49	Sept.23	69.79		

615. Wiley Roberts. One-tenth mile west of county road, 4.6 miles south of Dripping Springs.

Water level, in feet below measuring point, 1940

Jan. 24	86.10	Apr. 30	85.95	July 29	85.87	Oct. 28	86.04
Feb. 28	86.08	May 28	86.02	Aug. 29	85.98	Dec. 6	85.87
Mar. 27	86.05	June 25	85.89	Sept.23	86.05		

629. J. N. Byler. Forty feet northeast of rock house, 100 feet east of road, 6.45 miles north of Wimberly. Equipped with automatic pump. Water levels, in feet below measuring point, 1940: Jan. 24, 233.28; Feb. 28, 233.7; Sept. 23, 232.15; Oct. 28, 232.48.

677-A. T. E. Hughes. At northwest edge of Wimberly.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	20.55	Apr. 30	28.50	July 29	29.94	Oct. 28	30.06
Feb. 28	23.31	May 28	29.14	Aug. 29	30.13	Dec. 6	30.12
Mar. 27	25.80	June 25	29.64	Sept.23	30.01		

677. J. E. Bryant. Six and fifty-five hundredths miles north of Wimberly.

Water level, in feet below measuring point, 1940

Jan. 24	a102.05	Apr. 30	100.43	July 29	100.70	Oct. 28	101.12
Feb. 28	100.08	May 28	100.58	Aug. 29	100.73	Dec. 6	100.91
Mar. 27	100.16	June 25	100.75	Sept.23	100.96		

a Pumping slowly.

Hays County--Continued.

678. J. E. Bryant. One-tenth mile south of well 677.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	275.23	Apr. 30	275.00	July 29	275.01	Oct. 28	275.34
Feb. 28	275.10	May 28	275.01	Aug. 29	275.12	Dec. 6	275.38
Mar. 27	275.13	June 25	275.02	Sept.23	275.23		

699. A. A. Elsner. One and six-tenths miles south of Dripping Springs.

Water level, in feet below measuring point, 1940

Feb. 28	133.36	May 28	133.49	July 29	121.90	Sept.23	131.94
Mar. 27	133.39	June 25	132.63	Aug. 29	129.85	Oct. 28	132.56
May 6	133.40						

706. Jim Roberts. Seventy-five feet east of road, 0.9 mile north of Wimberly, 14.4 miles south of Dripping Springs. Water level affected by heavy rains.

Water level, in feet below measuring point, 1940

Jan. 24	59.35	Apr. 30	38.78	July 29	45.68	Oct. 28	62.11
Feb. 28	42.34	May 28	57.90	Aug. 29	59.12	Dec. 6	8.21
Mar. 27	56.14	June 25	9.83	Sept.23	59.59		

Hemphill County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. Twelve and eight-tenths miles northwest of northern end of Canadian River bridge, thence 0.5 mile southeast by way of rock trail. Water levels, in feet below measuring point, 1940: Apr. 9, 137.15; Aug. 6, 137.58; Dec. 4, 137.26.

2. Nine and two-tenths miles northwest of northern end of Canadian River bridge, and 600 feet west of U. S. Highway 83. Water level, in feet below measuring point, 1940: Aug. 6, 44.98.

3. No measurements made in 1940.

4. Four hundred feet west of U. S. Highway 83, 2.65 miles south of main street in Canadian. Water level, in feet below measuring point, 1940: Apr. 9, 51.65.

5. No measurements made in 1940.

6. Fifteen and eight-tenths miles southwest of main street in Canadian, 30 feet north of U. S. Highway 60. Water levels, in feet below measuring point, 1940: Apr. 9, 14.01; Aug. 6, 15.45. Measurements discontinued.

7. Two hundred and fifty feet north of well 6. Water levels, in feet below measuring point, 1940: Apr. 9, 5.67; Aug. 6, 7.20; Dec. 4, 6.44.

Henderson County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

270. T. M. Mathews. About 300 feet west of U. S. Highway 175, 3.6 miles northwest of courthouse in Athens. Measured flow, in gallons per minute, 1940: Apr. 3, 2.0; July 11, 2.1; Nov. 25, 2.0.

275. D. F. Dean. One hundred fifty feet east of State Highway 19, 1.45 miles north of courthouse in Athens. Water levels, in feet below measuring point, 1940: Apr. 3, 24.73; July 11, 21.18; Nov. 25, 23.07.

279. E. M. Henderson. One hundred feet north of U. S. Highway 175, 1.9 miles southeast of courthouse in Athens. Water levels, in feet below measuring point, 1940: Apr. 3, 17.58; July 11, 18.58; Nov. 25, 14.19.

Henderson County--Continued.

292. Drane Ice Company. In Athens. Water levels, in feet below measuring point, 1940: Apr. 3, 70.74; July 11, 76.41; Nov. 25, 73.09.

316. J. W. Christopher. Five and four-tenths miles east-northeast of Malakoff. Water levels, in feet below measuring point, 1940: Apr. 3, 40.93; July 11, 41.11.

323. J. W. Spiller. Six and one-fourth miles west of Athens. Water levels, in feet below measuring point, 1940: Apr. 3, 45.62; July 11, 45.94; Nov. 25, 45.09.

623. J. Casey. Three hundred feet south of U. S. Highway 175 in center of Poyner. Water levels, in feet below measuring point, 1940: Apr. 3, 40.45; July 11, 40.29; Nov. 25, 40.47.

628. Texas and New Orleans Railroad. In center of Poyner. Water levels, in feet below measuring point, 1940: Apr. 3, 5.29; July 11, 5.21.

710. Will Richardson. Four and ninety-five hundredths miles southeast of courthouse in Athens. Water levels, in feet below measuring point, 1940: Apr. 3, 17.62; July 11, 15.39; Nov. 25, 17.07.

723. La Rue Public School. In La Rue. Well dry at 24 feet on Apr. 3, July 11, Nov. 25, 1940.

724. J. R. Hallmark. About 300 feet north of U. S. Highway 175, 11.9 miles southeast of Athens. Well dry at about 36 feet on Apr. 3, July 11, Nov. 25, 1940.

741. La Poyner School. About 300 feet north of U. S. Highway 175, 2.8 miles northwest of Poyner. Water levels, in feet below measuring point, 1940: Apr. 3, 57.25; July 11, 53.60; Nov. 25, 56.33.

813. R. P. Tidmore. About 400 feet north of State Highway 31, 1.2 miles east-northeast of Malakoff. Equipped with automatic pump. Water levels, in feet below measuring point, 1940: Apr. 3, 27.63; July 11, 28.20; Nov. 24, 27.65.

902. Richard Derden. One and fifteen hundredths miles north-northwest of Malakoff. Water levels, in feet below measuring point, 1940: Apr. 3, 87.98; July 11, 88.23; Nov. 24, 87.82.

905-A. Drane Ice Company. Two hundred fifty feet east of State Highway 31, in Malakoff. Water levels, in feet below measuring point, 1940: Apr. 3, 95.93; July 11, 99.55; Nov. 24, 98.33.

919. Lone Star Gas and Fuel Company. In company grounds, 1.6 miles southeast of Trinidad. Pumped almost continuously. Water levels, in feet below measuring point, 1940: Apr. 3, 61.44; July 11, 45.63; Nov. 24, 62.26.

920. W. M. Bradley. About 400 feet east of Lone Star Gas Company plant. Water levels, in feet below measuring point, 1940: Apr. 3, 16.22; July 11, 15.49; Nov. 24, 15.79.

921. Lone Star Gas and Fuel Company. Sixty feet northwest of bridge, 1.8 miles southeast of Trinidad. Pumped almost continuously. Water levels, in feet below measuring point, 1940: Apr. 3, a/92.14; July 11, a/91.52; Nov. 24, a/ 91.84.

925. Cotton Gin Company. In Trinidad. Measuring point to July 11, 1940, top of wood curb, 2.3 feet above land surface. Measuring point since July 11, 1940, top of brick-concrete curb, 0.3 foot above land surface. Water levels, in feet below measuring point, 1940: Apr. 3, 31.01; July 11, 31.35; Nov. 24, 29.03.

Hockley County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. Measurements discontinued.

2. Measurements discontinued.

3. Measurements discontinued.

a Pumping.

Hockley County--Continued.

4. Measurements discontinued.

5. Santa Fe Railroad Company. In Smyer. Water level, in feet below measuring point, 1940: Mar. 26, 92.68.

6. No measurements made in 1940.

7. South line of lab. 23, Wm. Tubbs survey, 5.2 miles east of Levelland. Water level, in feet below measuring point, 1940: Mar. 26, 87.55.

8. Measurements discontinued.

9. Measurements discontinued.

12. Measurements discontinued.

14. Measurements discontinued.

17. Measurements discontinued.

18. On south line of lab. 21, lge. 67, Hardeman County School Land, 8.0 miles west of railroad depot in Levelland. Water levels, in feet below measuring point, 1940: Mar. 26, 133.40; Dec. 3, 133.44.

19. Mrs. W. T. Coble. NW¼ lab. 30, lge. 65, Hardeman County School Land, 9.55 miles west of railroad depot in Levelland. Water levels, in feet below measuring point, 1940: Mar. 26, 143.86; Dec. 3, 143.80.

20. Measurements discontinued.

21a. O. E. Lucas. SE¼NE¼ sec. 14, blk. I, 0.9 mile south and 3 miles west of Ropes. Water levels, in feet below measuring point, 1940: Jan. 16, 69.63; July 31, 69.76; Nov. 20, 69.82.

22a. Town of Ropes. At east edge of small park, 0.4 mile east of railroad depot in Ropes. Water level, in feet below measuring point, 1940: Nov. 20, 98.81.

24. R. Y. Hughen. SW¼ sec. 99, blk. A, R. M. Thomson survey, 2 miles southeast of railroad depot in Anton. Water levels, in feet below measuring point, 1940: Mar. 13, 27.12; Dec. 16, 28.38.

25. Texas Highway Department. SW¼ sec. 105, blk. A, R. M. Thomson survey, 0.6 mile east of railroad depot in Anton. Water levels, in feet below measuring point, 1940: Mar. 13, 29.27; Dec. 16, 30.40.

27. Measurements discontinued.

28. Dan Jackson and Paul Whitfield. NW cor. SW¼ sec. 106, blk. A, R. M. Thomson survey, 0.35 mile west and 0.5 mile south of railroad depot in Anton. Water levels, in feet below measuring point, 1940: Mar. 13, 34.52; Dec. 16, 36.39.

29. A. L. Lindsey. SE cor. SE¼ sec. 124, blk. A, R. M. Thomson survey, 1.7 miles west of railroad depot in Anton. Water level, in feet below measuring point, 1940: Dec. 16, 31.65.

125. E. F. Allen. SE¼NE¼SW¼ sec. 87, blk. A, 1 mile west of railroad water tank in Roundup. Water levels, in feet below measuring point, 1940: Mar. 13, 66.2; Dec. 16, 67.1.

126. W. M. Alexander. SE¼SE¼SW¼ sec. 89, blk. A, 3 miles south of Anton. Water levels, in feet below measuring point, 1940: Mar. 13, 28.29; Dec. 16, 28.97.

127. Leeds. SE¼SE¼SE¼ sec. 90, blk. A, 3 miles south of Anton. Water levels, in feet below measuring point, 1940: Mar. 13, 24.09; Dec. 16, 24.40.

Howard County

Well numbers correspond to those in Water-Supply Papers 817, 840, 845 and 886.

51. City of Big Spring. Measurements furnished by E. V. Spence, City Manager.

Water level, in feet below measuring point, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	132.08	133.08	135.50	141.17	144.17
2	.....	131.92	133.42	135.83	141.50	144.25
3	.....	131.75	133.08	136.17	141.75	144.75
4	.....	.....	133.00	.....	141.83	144.67
5	.....	130.83	132.83	137.17	142.42	145.00
6	.....	131.50	133.08	136.33	142.25	145.17
7	.....	131.17	133.42	136.33	142.33	145.67
8	.....	.....	133.25	135.75	142.67	160.42
9	.....	.....	133.33	135.33	142.75	146.67
10	.....	131.42	133.42	135.33	142.42	145.58
11	.....	.....	133.17	136.00	143.17	144.83
12	132.00	130.50	133.42	136.25	143.00	144.42
13	131.67	131.08	133.58	136.17	143.00	144.75
14	131.75	131.08	133.75	136.17	142.92	144.50
15	131.67	131.17	133.83	136.75	143.92	144.58
16	131.50	.....	134.17	137.67	144.50	144.75
17	131.33	.....	134.00	137.83	143.67	144.92
18	.....	.....	133.58	138.08	143.50	145.50
19	131.25	130.42	133.83	138.50	142.92	145.42
20	131.50	131.75	133.75	138.75	142.33	145.42
21	131.92	131.67	134.50	.....	142.58	145.50
22	131.42	132.42	134.92	139.17	142.25	144.75
23	131.25	132.42	135.17	139.25	141.25	144.33
24	131.33	132.42	135.08	139.58	141.42	144.17
25	131.17	132.17	134.17	139.67	141.33	144.58
26	131.25	131.83	133.92	139.92	141.58	.....
27	131.08	132.17	134.08	140.42	141.83	143.25
28	131.25	132.50	134.50	140.00	142.33	142.00
29	131.00	133.00	134.92	140.33	142.83	143.75
30	131.50	.....	135.50	140.83	143.25	143.58
31	131.67	.....	135.33	.....	143.75	.....

Water level, in feet below measuring point, 1940

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	143.25	140.33	134.17	130.75	128.58	127.33
2	.....	140.58	134.00	130.58	.....	.....
3	142.42	139.83	133.83	130.42	.....	127.17
4	.....	139.58	.....	130.33	128.42	.....
5	141.08	139.25	133.50	130.25	.....	127.00
6	141.92	139.00	133.17	130.17	.....	.....
7	140.58	138.83	133.17	130.08	.....	126.83
8	140.08	138.33	133.17	130.00	.....	.....
9	140.08	138.17	133.08	.....	128.25	126.67
10	155.08	137.83	132.83	129.83	.....	.....
11	142.00	137.83	.....	129.75	.....	126.50
12	142.42	137.42	132.67	129.67	.....	.....
13	.....	137.33	.....	.....	.....	126.33
14	.....	137.25	132.50	.....	128.00	.....
15	.....	137.00	132.50	129.50	.....	.....
16	.....	136.83	.....	129.42	.....	126.08
17	.....	136.75	132.50	129.25	.....	.....
18	.....	136.50	.....	.....	.....	.....
19	.....	136.25	132.25	129.17	127.83	125.83
20	142.50	136.17	132.17	.....	.....	.....
21	142.33	136.00	132.00	129.08	127.67	.....
22	141.17	135.83	131.83	.....	.....	125.58
23	140.92	135.58	131.83	129.00	.....	.....
24	140.83	135.42	131.75	.....	.....	.....
25	142.00	135.25	131.67	128.92	127.58	125.33

Howard County--Continued.

51. City of Big Spring.--Continued.

Water level, in feet below measuring point, 1940

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	142.17	135.00	131.50	.....	.....	.....
27	141.17	134.67	131.42	128.83	.....	.....
28	141.83	134.42	131.33	.....	.....	125.00
29	141.00	134.33	131.25	128.75	127.42	.....
30	.....	134.25	131.00	128.67	.....	124.75
31	140.25	134.17	.....	.....	.....	.....

56. City of Big Spring. Measurements furnished by E. V. Spence, City Manager.

Water level, in feet below measuring point, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	158.25	163.75	165.92	173.17	174.42
2	.....	157.50	163.33	167.00	174.00	174.92
3	.....	156.75	161.25	168.50	174.17	175.42
4	.....	.....	160.58	172.58	174.33	175.50
5	.....	149.92	160.42	170.42	174.75	176.17
6	.....	155.17	162.67	166.58	172.50	177.00
7	.....	156.17	162.58	164.33	174.75	177.58
8	.....	.....	162.00	162.67	174.58	179.17
9	.....	151.08	162.08	161.75	174.33	179.42
10	.....	156.83	161.17	162.08	173.17	178.67
11	.....	.....	159.75	165.25	173.83	.....
12	157.00	150.17	161.25	165.50	173.50	.....
13	155.50	154.00	161.25	164.75	173.00	.....
14	155.25	156.08	162.08	165.25	173.25	.....
15	155.00	154.83	162.42	167.58	174.08	.....
16	155.75	.....	164.83	170.42	175.42	.....
17	154.42	.....	164.25	171.17	174.58	.....
18	.....	.....	160.17	171.42	174.25	.....
19	154.25	151.25	161.67	171.58	171.17	.....
20	154.75	158.67	162.08	172.25	169.67	.....
21	157.67	160.00	164.25	175.17	170.33	.....
22	153.75	161.67	166.42	172.00	168.67	.....
23	154.42	160.58	165.93	172.08	165.75	.....
24	154.92	159.75	164.67	172.33	167.00	.....
25	155.00	158.67	161.08	172.42	167.50	172.58
26	154.50	157.33	160.00	172.67	169.17	.....
27	154.83	159.08	161.25	173.17	169.50	167.83
28	155.50	160.50	163.08	171.83	170.33	165.75
29	153.33	162.67	165.92	171.83	172.33	170.50
30	157.67	.....	168.17	172.92	173.17	172.08
31	158.33	.....	165.58	.....	173.58	.....

Water level, in feet below measuring point, 1940

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	171.08	.....	153.00	148.00	144.42	141.75
2	.....	.....	152.75	147.92	144.33	.....
3	166.58	.....	152.58	147.83	144.25	141.58
4	.....	.....	.....	147.67	144.25	.....
5	163.50	.....	151.33	147.42	144.17	141.17
6	.....	.....	151.25	147.33	144.08	.....
7	.....	.....	151.50	.....	144.17	141.08
8	.....	.....	152.25	147.08	143.92	.....
9	.....	.....	151.58	.....	143.83	140.75
10	.....	.....	150.83	146.83	143.75	.....
11	.....	.....	.....	146.75	143.67	140.58
12	.....	.....	150.75	146.67	143.58	.....
13	.....	.....	.....	.....	143.50	140.42
14	.....	.....	150.25	.....	143.42	.....
15	.....	.....	150.17	146.33	143.25	.....
16	.....	.....	.....	146.25	143.17	140.25

Howard County--Continued.

56. City of Big Spring.--Continued.

Water level, in feet below measuring point, 1940

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	.....	.....	149.83	145.92	143.00	140.08
18	.....	.....	.....	.....	142.83	.....
19	.....	.....	149.67	145.33	142.67	139.92
20	.....	156.08	149.58	.....	142.58	.....
21	.....	155.17	149.42	145.08	.....	139.75
22	.....	154.50	149.25	.....	.....	.....
23	.....	154.42	149.08	144.75	142.42	139.58
24	.....	154.17	149.00	.....	.....	.....
25	.....	153.92	148.83	144.67	142.33	139.42
26	.....	153.50	148.75	.....	.....	.....
27	.....	153.67	148.67	144.67	152.08	139.25
28	.....	153.42	148.50	.....	.....	.....
29	.....	153.08	148.42	144.58	141.92	.....
30	.....	153.00	148.25	144.50	.....	139.00
31	.....	153.17	.....	.....	.....	.....

65. City of Big Spring. Measurements furnished by E. V. Spence, City Manager.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 11	171.92	June 15	172.67	June 19	173.50	June 22	172.67
12	171.92	16	172.67	20	173.33	23	172.33
13	173.25	17	172.92	21	173.58	24	172.67
14	172.33	18	174.17				

606. Mrs. Cora Eley. SE¼SE¼ sec. 5, blk. 33, T. 1 S., 4.5 miles southwest of Big Spring. Water levels, in feet below measuring point, 1940: Jan. 17, 111.50; Aug. 1, 112.25; Nov. 24, 112.36.

846. Earl Phillips. NW¼SW¼ sec. 6, blk. 32, T. 1 N., 6.5 miles north of Big Spring. Water levels, in feet below measuring point, 1940: Mar. 1, 44.42; Nov. 25, 44.22.

853. No measurements made in 1940.

859. No measurements made in 1940.

861. Delia S. Wright. SE¼SE¼ sec. 44, blk. 33, T. 3 N., 15.75 miles northwest of Big Spring. Water level, in feet below measuring point, 1940: Aug. 2, 45.39. Measurements discontinued.

876a. Twelve and one-half miles northwest of Big Spring on U. S. Highway 87, thence 2.5 miles west on county road. Water levels, in feet below measuring point, 1940: Mar. 1, 16.76; Aug. 2, 17.72. Measurements discontinued.

879. J. H. Hanks. SW¼SW¼ sec. 39, blk. 33, T. 2 N., 7.75 miles north of Big Spring on U. S. Highway 87, thence 2.5 miles west on county road. Water levels, in feet below measuring point, 1940: Mar. 1, 22.38; Aug. 2, 22.29; Nov. 25, 24.15.

893b. R. L. Schwerzenbach. NW¼ sec. 30, blk. 32, T. 1 N., 3.5 miles north of Big Spring. Water levels, in feet below measuring point, 1940: Mar. 1, 68.95; Aug. 2, 70.47; Nov. 25, 71.55.

898. R. B. Cline. SE¼SE¼ sec. 46, blk. 33, T. 1 N., 2 miles west of U. S. Highway 87 at Fairview. Water levels, in feet below measuring point, 1940: Mar. 1, 68.68; Aug. 2, 67.13.

899. J. W. Smith. NE¼NE¼ sec. 44, blk. 33, T. 2 N., 5 miles west of U. S. Highway 87 at Fairview. Water levels, in feet below measuring point, 1940: Mar. 1, 23.39; Aug. 2, 28.35; Nov. 25, 23.72.

915. No measurements made in 1940.

942. Burton Lingo Lumber Company. At west edge of Big Spring, 0.1 mile south of U. S. Highway 80. Water levels, in feet below measuring point, 1940: Jan. 17, 53.32; Aug. 1, 53.28; Nov. 24, 53.81.

Jackson County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

5. Jackson County. Thirty feet east of Upper Cordele School, 5.7 miles north of Cordele. Water levels, in feet below measuring point, 1940: Mar. 8, 35.33; Dec. 10, 35.43.

6. N. J. Marthiljohni. Windmill in pasture, without buildings, 50 feet west of county road, 1 mile south of Morales. Water levels, in feet below measuring point, 1940: Mar. 8, 36.46; Dec. 10, 34.18.

7. D. W. Schropshire. Fifty feet west of county road, 1.25 miles north of Navidad. Equipped with hand pump since Dec. 15, 1939. Water levels, in feet below measuring point, 1940: Mar. 8, 46.26; Dec. 10, 44.62.

11-A. Nellie Miller Estate. Thirty feet northeast of old well 11, 0.1 mile southwest of county road, about 5 miles south of Morales. Water levels, in feet below measuring point, 1940: Mar. 8, 36.22; Dec. 10, 35.66.

12. J. L. Shepherd. Three and three-fourths miles southeast of Morales. Water levels, in feet below measuring point, 1940: Mar. 8, 38.59; Dec. 10, 38.54.

14. Mrs. C. V. Watson. West side of road, 2.3 miles north of Cordele. Water levels, in feet below measuring point, 1940: Mar. 8, 36.03; Dec. 10, 36.19.

56. A. H. Nagel. Fifty feet east of store at Cordele. Water levels, in feet below measuring point, 1940: Mar. 8, 33.38; Dec. 10, 33.62.

57. S. G. Drushel. At northwest corner of crossroads, 2.55 miles south of Cordele. Water levels, in feet below measuring point, 1940: Mar. 8, 38.40; Dec. 10, 38.53.

64. Wm. Clifford. Three and one-half miles west of Edna. Water levels, in feet below measuring point, 1940: Mar. 8, 33.50; Dec. 10, 33.62.

66. S. J. and E. F. Swenson. Two hundred feet west of road, 0.6 mile south of Navidad River, 5 miles northeast of Edna. Water levels, in feet below measuring point, 1940: Mar. 8, 38.78; Dec. 10, 37.76.

69. A. E. Westhoff. Three hundred feet south of Cordele road, 2.5 miles northeast of Edna. Water levels, in feet below measuring point, 1940: Mar. 8, 36.23; Dec. 10, 35.98.

71. W. Rogers. Six-tenths mile west of Lavaca River bridge, 3.7 miles west of Edna. Water levels, in feet below measuring point, 1940: Mar. 8, 24.64; Dec. 10, 25.78.

76. Southern Pacific Railway Company. At southwest corner of Jackson County Courthouse square in Edna. Water levels, in feet below measuring point, 1940: Mar. 8, 28.88; Dec. 10, 29.15.

78. Rose, Sample, Taylor and Bagby. North side of road, 2 miles east of Edna, opposite Mansion railroad station. Water levels, in feet below measuring point, 1940: Mar. 8, 32.06; Dec. 10, 32.31.

86. Measurements discontinued.

103. A. C. Wilbeck. Six and one-tenth miles northwest of Ganado. Water levels, in feet below measuring point, 1940: Mar. 8, 39.11; Dec. 10, 38.28.

106. Measurements discontinued.

108-A. Sugarland Fig Growers Association. Ten feet east of well 108, in Ganado. Water levels, in feet below measuring point, 1940: Mar. 11, 28.42; Dec. 9, 28.36.

115. R. W. Silliman. Thirty feet southeast of road intersection, 5.3 miles southeast of Ganado. Water levels, in feet below measuring point, 1940: Mar. 11, 27.11; Dec. 9, 27.55.

123. Mrs. C. L. Gaines. One and two-tenths miles north of State Highway 111, 9 miles southeast of Ganado. Water levels, in feet below measuring point, 1940: Mar. 11, 28.49; Dec. 9, 28.56.

Jackson County--Continued.

154. No measurements made in 1940; well flowing.

155. Measurements discontinued.

156. Bennie Elliott. Two-tenths mile west of Matagorda County line, 0.4 mile south of State Highway 35. Water levels, in feet above measuring point, 1940: Mar. 11, 5.75; Dec. 11, 3.85.

180. L. Ward. On east side of road, at La Ward. Water levels, in feet below measuring point, 1940: Mar. 11, 22.99; Dec. 11, 23.84.

228. W. A. Utzman. One hundred feet west of well 229. Water levels, in feet below measuring point, 1940: Mar. 8, 8.87; Dec. 10, 9.00.

229. W. A. Utzman. Eight-tenths mile south of Casa Blanca School, 2.9 miles north of Vanderbilt. Water levels, in feet below measuring point, 1940: Mar. 8, 34.40; Dec. 10, 33.30.

230. Royal Dedman. Fifty feet south of road, 5.5 miles northeast of Vanderbilt. Water level, in feet below measuring point, 1940: Mar. 8, 37.49.

Jim Wells County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845, and 886.

193. M. Morales. Eight and one-half miles west-northwest of Ben Bolt. Water level, in feet below measuring point, 1940: Feb. 17, 28.06.

201. Santos Garcia. Eight and one-half miles west-southwest of Ben Bolt. Water level, in feet below measuring point, 1940: Feb. 17, 32.51.

206. Emilio Barrera. Six and one-half miles west of El Par. Water level, in feet below measuring point, 1940: Feb. 17, 57.18.

207. Roman Saenz. Six miles west of El Par. Water level, in feet below measuring point, 1940: Feb. 17, a/71.53.

221. Felix Perez Cadena. Six miles west-northwest of Wadoto. Water level, in feet below measuring point, 1940: Feb. 17, 52.76.

222. Manuel Cadena. Six miles west-northwest of Wadoto. Water level, in feet below measuring point, 1940: Feb. 17, 52.52.

252. Cerapio Hinojosa. Six and one-half miles west-southwest of Ella. Water level, in feet below measuring point, 1940: Feb. 17, 54.49.

253. San Juan Hinojosa. Six and one-half miles west-southwest of Ella. Water level, in feet below measuring point, 1940: Feb. 17, a/65.60.

374. E. G. Maun. Four and one-half miles northwest of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 18, 13.79.

391. O. A. Fore. Two and one-half miles north of Falfurrias. Water level, in feet below measuring point, 1940: Feb. 17, 25.83.

Kinney County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

XK-1. Well 210 b/. Ethel Whitaker. Three-tenths mile west of Kinney County line, 2.1 miles west of Cline on U. S. Highway 90.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 2, 1939	67.23	Apr. 24, 1940	67.04	Aug. 22, 1940	64.80
Jan. 15, 1940	66.15	May 21	66.55	Sept.25	66.54
Feb. 23	66.23	June 19	66.01	Oct. 23	68.43
Mar. 19	66.71	July 24	65.06	Dec. 4	68.03

a Pumping

b Kinney County, Texas, Records of wells, etc., Texas State Board of Water Engineers. (Mimeographed). 1940.

Kinney County--Continued.

XK-5. Well 177 a/. Judge John Fritter. Four hundred seventy feet south of U. S. Highway 90, 5.45 miles east of Brackettville city limits.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Dec. 6, 1939	26.36	Apr. 25, 1940	29.09	Aug. 22, 1940	21.79
Jan. 15, 1940	28.69	May 21	23.83	Sept.25	24.76
Feb. 23	30.27	June 19	22.25	Oct. 23	27.08
Mar. 19	31.10	July 24	21.44	Dec. 4	27.54

XK-6. Well 165 a/. Dr. B. F. Orr. Three-tenths mile south of U. S. Highway 90, 2.8 miles east of Brackettville city limits.

Water level, in feet below measuring point, 1939-40

Dec. 5, 1939	35.36	Apr. 24, 1940	37.23	Aug. 22, 1940	32.50
Jan. 15, 1940	36.07	May 21	37.17	Sept.20	33.37
Feb. 23	36.60	June 18	34.75	Oct. 23	34.50
Mar. 19	36.94	July 23	31.31	Dec. 4	35.25

XK-9. Well 128 a/. C. J. Poehler. Fifty feet west of north-south road, 1.75 miles west and 0.9 mile south from intersection of Brackettville loop and U. S. Highway 90.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	37.87	Apr. 24	38.94	July 23	38.89	Oct. 22	38.22
Feb. 23	37.55	May 21	39.54	Aug. 21	38.03	Dec. 3	39.34
Mar. 19	38.06	June 18	39.22	Sept.19	37.69		

XK-11. Well 111 a/. J. F. Beidler. Forty feet southwest of old house on south side of Highway 90, 6.1 miles west of intersection of Highway 90 and loop road to Brackettville.

Water level, in feet below measuring point, 1940

Feb. 22	28.32	May 21	28.84	Aug. 21	28.58	Oct. 22	29.24
Mar. 19	28.26	June 18	28.88	Sept.19	28.76	Dec. 3	28.94
Apr. 24	28.38	July 23	28.72				

XK-12. Well 101 a/. J. F. Beidler. Two-tenths mile south of U. S. Highway 90 on top of hill, 11.5 miles west of intersection of Brackettville loop and U. S. Highway 90.

Water level, in feet below measuring point, 1940

Jan. 5	23.84	Apr. 24	26.72	July 23	24.60	Oct. 22	22.15
Feb. 23	24.74	May 21	23.48	Aug. 21	23.97	Dec. 3	21.62
Mar. 19	26.83	June 18	23.71	Sept.19	23.15		

XK-13. Well 90 a/. Mac L. Weathersby. Nine-tenths mile north of U. S. Highway 90, 16.35 miles west of Brackettville loop road intersection with U. S. Highway 90. Measuring point lowered 0.24 foot on Jan. 4, 1940. Measurements corrected to original measuring point.

Water level, in feet below measuring point, 1940

Jan. 4	59.38	Apr. 24	62.74	June 18	59.98	Aug. 21	59.81
Feb. 23	59.09	May 21	58.91	July 23	59.09	Dec. 3	61.39
Mar. 19	57.98						

a Kinney County, Texas, Records of wells, etc., Texas State Board of Water Engineers. (Mimeographed). 1940.

Kinney County--Continued.

XK-17. Well 137 a/. Jimmy Lowrance. About 300 yards east of intersection of Brackettville loop and U. S. Highway 90 at west edge of town. Unused drilled domestic well, diameter 8 inches, depth 600 feet. Measuring point, top of water-pipe clamp set on concrete block, 0.4 foot above land surface.

Water level, in feet below measuring point, 1937-1940

Date	Water level	Date	Water level	Date	Water level
Nov. 19, 1937	52.24	July 15, 1939	50.76	Apr. 24, 1940	50.70
Oct. 12, 1938	50.79	Aug. 12	50.27	May 21	49.77
Jan. 26, 1939	50.78	Sept.13	50.75	June 18	49.92
Mar. 1	52.54	Oct. 24	50.39	July 23	47.32
Apr. 1	50.94	Dec. 2	50.52	Aug. 21	50.67
May 1	51.03	Jan. 9, 1940	50.56	Sept.19	50.93
June 7	51.04	Feb. 23	50.45	Oct. 22	50.98
July 7	51.09	Mar. 19	50.86	Dec. 3	50.95
14	50.80				

XK-112. Well 54 a/. E. Webb. On hilltop, 100 yards west of Silver Lake road, 0.6 mile north of Elm Creek, 7.65 miles, by road, north of Brackettville post office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	189.4?	Apr. 25	197.14	June 19	191.58	Sept. 19	196.38
Feb. 22	195.88	May 22	190.74	July 24	185.04	Oct. 23	198.74
23	195.93	June 18	191.29	Aug. 21	191.15	Dec. 3	200.82
Mar. 19	197.85						

XK-114. Well 62 a/. E. Webb. About 200 yards southwest of ranch house west of Rock Springs-Brackettville road, 5.85 miles, by road, north of Brackettville post office, about 0.5 mile east of Pinto Creek.

Water level, in feet below measuring point, 1940

Jan. 9	65.97	Mar. 20	68.11	June 19	66.53	Oct. 22	68.49
Feb. 22	67.39	Apr. 24	67.61	Sept.19	67.63	Dec. 3	69.32
23	67.42	May 22	67.40				

XK-116. Well 63 a/. J. D. Harwood. About 200 feet west of Rock Springs-Brackettville road, 8.65 miles by road north of Brackettvill post office.

Water level, in feet below measuring point, 1940

Jan. 9	134.90	Mar. 20	137.85	May 22	135.40	Sept.19	135.80
Feb. 22	136.79	Apr. 25	135.96	July 24	121.28	Oct. 23	137.52
23	136.79	May 21	135.64	Aug. 21	132.20	Dec. 3	138.58

XK-163. Well 78 a/. Edward Mey. Nine-tenths mile east of Carta Valley Road, 7.60 miles by road north of junction of Carta Valley Road and U. S. Highway 90, 12.8 miles west of Brackettville post office.

Water level, in feet below measuring point, 1940

Jan. 11	72.72	May 21	74.15	Aug. 21	73.40	Oct. 22	74.64
Mar. 19	73.91	June 18	73.98	Sept.19	73.82	Dec. 3	74.96
Apr. 24	74.18	July 23	73.54				

XK-170. Well 46 a/. Nolan & Postell. One and nine-tenths miles north of Laguna-Brackettville road junction with Tularosa road, 11.75 miles, by road, northeast of Brackettville post office, 0.2 mile west of road. Used drilled stock well, diameter 6 inches, depth 342 feet. Measuring point, top of iron water-pipe clamp, 0.65 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Jan. 27	191.35	Mar. 20	192.25	July 24	189.83	Oct. 22	193.46
Feb. 22	191.06	Apr. 25	192.25	Aug. 21	191.36	Dec. 3	192.76
23	191.06	May 22	190.73				

a Kinney County, Texas, Records of wells, etc., Texas State Board of Water engineers. (Mimeographed). 1940.

Kinney County--Continued.

XK-180. Well 41 a/. N. P. Petersen. One mile south of Laguna-Brackettville road, 9.95 miles by road northeast of Brackettville post office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 22	176.98	Apr. 25	176.63	June 19	176.17	Sept.19	178.36
23	176.22	May 22	176.11	Aug. 21	176.44	Oct. 22	176.48
Mar. 20	176.50						

XK-187. Well 182 a/. Mrs. G. A. Harrison. Fifty feet north of U. S. Highway 90, 9.3 miles east of Brackettville post office. Used drilled stock well, diameter 6-5/8 inches, depth 514 feet. Measuring point, top of iron water-pipe clamp, 0.8 foot above land surface. Equipped with windmill.

Water level, in feet above measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Oct. 13, 1938	71.11	July 15, 1939	72.67	Apr. 25, 1940	73.38
Jan. 9, 1939	71.00	Aug. 12	72.54	May 21	73.49
26	71.44	Sept.12	72.70	June 19	73.92
Mar. 1	71.25	Oct. 24	72.65	July 24	74.96
Apr. 1	71.45	Dec. 2	72.97	Aug. 22	74.01
May 1	71.75	Jan. 9, 1940	72.90	Sept.25	74.19
June 7	72.00	10	72.88	Oct. 25	74.36
July 7	72.40	Feb. 23	72.84	Dec. 4	74.69
14	72.70	Mar. 19	73.14		

XK-196. Well 171 a/. Judge John Fritter. Seven-tenths mile south of Laguna-Brackettville road, 5.2 miles, by road, northeast of Brackettville post office.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	113.06	Feb. 23	115.13	Aug. 21	117.74	Dec. 3	115.47
Feb. 22	116.05	Apr. 24	120.12	Oct. 22	113.00		

XK-198. Well 120 a/. Charley Zinsmeister. Two hundred feet southeast of ranch house, 15 feet southwest of nearest windmill, 0.3 mile south of bump gate at U. S. Highway 90, 3.45 miles west of intersection of U. S. Highway 90 and Bracketville loop road at west edge of town. Used dug irrigation well, diameter 48 inches, depth 47 feet. Measuring point, top of concrete curb, 0.6 foot above land surface. Equipped with centrifugal pump.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Nov. 29, 1938	39.34	Nov. 8, 1939	41.85	May 21, 1940	45.08
Jan. 26, 1939	42.77	Dec. 5	41.35	June 18	45.68
Apr. 1	45.29	Jan. 15, 1940	40.58	Aug. 21	40.54
June 7	45.91	Feb. 23	42.08	Sept.19	41.79
July 7	46.92	Mar. 19	45.17	Oct. 22	44.50
Aug. 14	45.22	Apr. 24	45.09	Dec. 3	45.57
Sept.13	43.17				

a Kinney County, Texas, Records of wells, etc., Texas State Board of Water Engineers. (Mimeographed). 1940.

Kinney County--Continued.

XK-199. Well 152 a/. E. Webb. One mile north of Brackettville post office. Unused drilled irrigation well, diameter 8 inches, depth about 500 feet. Measuring point, top of casing, 1.8 feet below land surface. Water level recorder maintained on well since Feb. 1, 1939.

Daily noon water level, in feet below measuring point, 1939
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	41.10	40.82	40.82	40.86	41.04	38.96	37.14	38.32	38.29	38.35
2	.....	40.56	41.08	40.82	40.87	40.87	41.04	38.82	37.17	38.35	38.28	38.35
3	.....	40.60	41.03	40.83	40.86	40.87	41.05	38.75	37.22	38.40	38.28	38.37
4	.....	40.68	41.06	40.82	40.87	40.87	41.05	38.68	37.27	38.43	38.24	38.38
5	.....	40.60	41.06	40.81	40.83	40.87	41.05	38.63	37.31	38.47	38.24	38.40
6	.....	40.62	41.12	40.82	40.85	40.87	41.06	38.59	37.35	38.51	38.24	38.42
7	.....	40.61	41.15	40.81	40.83	40.90	31.06	38.52	37.37	38.56	38.24	38.44
8	.....	40.58	41.15	40.84	40.83	40.90	41.05	38.49	37.41	38.59	38.25	38.48
9	.....	40.57	41.17	40.81	40.86	40.91	41.05	38.42	37.46	38.63	38.25	38.50
10	b40.61	40.64	41.13	40.79	40.89	40.91	41.07	37.82	37.50	38.68	38.25	38.53
11	.....	40.67	41.10	40.81	40.89	40.92	41.09	37.52	37.55	38.65	38.24	38.57
12	.....	40.65	41.10	40.81	40.89	40.94	41.11	37.35	37.59	38.60	38.24	38.60
13	.....	40.67	41.10	40.81	40.88	40.94	41.09	37.24	37.67	38.52	38.24	38.64
14	.....	40.72	41.13	40.80	40.86	40.95	40.84	37.18	37.70	38.50	38.24	38.67
15	.....	40.76	41.09	40.77	40.86	40.96	40.56	37.12	37.74	38.47	38.25	38.71
16	.....	40.82	41.08	40.80	40.86	40.96	40.41	37.07	37.78	38.43	38.26	38.75
17	.....	40.86	41.04	40.78	40.85	40.97	40.26	37.03	37.81	38.40	38.26	38.80
18	.....	40.85	41.01	40.79	40.85	40.98	40.12	37.01	37.84	38.39	38.27	38.85
19	.....	40.86	41.00	40.78	40.85	40.99	40.01	37.00	37.87	38.38	38.26	38.88
20	.....	40.89	40.96	40.78	40.85	41.00	39.91	37.00	37.90	38.37	38.26	38.90
21	.....	40.92	40.92	40.79	40.86	41.01	38.79	37.00	37.93	38.37	38.26	38.90
22	.....	40.95	40.89	40.80	40.86	41.00	39.68	37.00	37.95	38.37	38.26	38.92
23	.....	41.00	40.91	40.82	40.87	41.00	39.59	37.00	38.00	38.36	38.28	38.97
24	.....	40.97	40.92	40.82	40.87	41.00	39.52	37.01	38.03	38.36	38.29	39.02
25	.....	41.02	40.90	40.80	40.86	41.00	39.44	37.02	38.07	38.35	38.33	39.03
26	b40.37	41.01	40.95	40.85	40.87	41.02	39.38	37.04	38.10	38.35	38.34	39.06
27	.....	41.05	40.90	40.82	40.88	41.02	39.32	37.06	38.15	38.34	38.35	39.07
28	.....	41.03	40.90	30.82	30.88	41.03	39.26	37.08	38.19	38.35	38.35	39.11
29	.....	.....	40.91	40.82	40.87	41.03	39.21	37.10	38.22	38.30	38.35	39.12
30	.....	.....	40.87	40.82	40.87	41.04	39.17	37.12	38.26	38.34	38.35	39.14
31	.....	.....	40.82	.....	40.86	.....	39.05	37.13	.....	38.30	.....	39.14

Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	39.16	39.71	40.02	40.25	39.29	.....	.....	36.11	37.71	38.88	39.78	.....
2	39.18	39.74	40.03	40.25	39.30	.....	.....	36.16	37.75	38.91	39.82	.....
3	39.20	39.74	40.03	40.23	39.33	.....	36.20	36.22	37.79	38.94	39.84	b40.18
4	39.23	39.74	40.05	40.24	39.32	.....	35.52	36.27	37.84	38.96	39.85	40.19
5	39.25	39.75	40.05	40.26	39.37	.....	35.28	36.35	37.87	39.00	39.86	40.23
6	39.26	39.79	40.05	40.30	39.36	.....	35.12	36.42	37.92	39.02	39.87	40.22
7	39.30	39.80	40.08	40.01	39.37	.....	35.03	36.49	37.95	39.03	39.83	40.26
8	39.32	39.80	40.08	39.82	39.37	.....	35.00	36.55	38.00	39.03	39.87	40.25
9	39.35	39.82	40.08	39.70	39.38	.....	34.98	36.62	38.03	39.12	39.88	40.26
10	39.36	39.84	40.08	39.60	39.05	.....	34.98	36.68	38.07	39.15	39.89	40.26
11	39.36	39.84	40.09	39.53	38.70	.....	34.97	36.75	38.15	39.19	39.93	40.26
12	39.37	39.84	40.10	39.48	38.55	.....	34.98	36.82	38.20	39.20	39.92	40.26
13	39.38	39.86	40.17	39.42	38.45	.....	35.02	36.90	38.27	39.22	39.96	40.27
14	39.40	39.87	40.13	39.38	38.38	.....	35.04	36.94	38.33	39.24	39.97	40.27
15	39.41	39.86	40.15	39.34	38.35	.....	35.10	36.98	38.34	39.27	39.98	40.28
16	39.43	39.88	40.15	39.32	38.34	.....	35.14	37.05	38.37	39.33	40.00	40.28
17	39.43	39.88	40.15	39.35	38.32	.....	35.18	37.12	38.42	39.37	40.02	40.29
18	39.52	39.89	40.16	39.33	38.31	36.66	35.24	37.18	38.47	39.40	40.05	40.29
19	39.52	39.90	40.15	39.33	38.32	36.72	35.28	37.22	38.50	39.43	40.06	40.29
20	39.52	39.91	40.15	39.30	37.77	36.78	35.33	37.23	38.53	39.45	40.07	40.30
21	39.53	39.92	40.17	39.31	37.45	36.85	35.39	37.25	38.59	39.47	40.06	40.29
22	39.54	39.93	40.17	39.29	37.33	36.91	35.46	37.27	38.62	39.47	40.08	40.29

a Kinney County, Texas, Records of wells, etc., Texas State Board of Water Engineers. (Mimeographed). 1940.

b Tape measurement.

Kinney County--Continued.

XK-199.--Continued.

Daily noon water level, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
23	39.56	39.93	40.18	39.33	.....	36.97	35.50	37.32	38.66	39.53	.....	40.29
24	39.60	39.95	40.21	39.34	.....	37.05	35.57	37.36	38.68	39.57	.....	40.29
25	39.60	39.96	40.21	39.32	.....	37.11	35.62	37.42	38.73	39.58	.....	40.29
26	39.63	39.96	40.20	39.34	.....	37.17	35.68	37.45	38.74	39.62	.....	40.34
27	39.64	39.97	40.20	39.32	.....	37.25	35.75	37.48	38.77	39.66	.....	40.34
28	39.65	40.00	40.20	39.30	.....	37.28	35.82	37.53	38.80	39.68	.....	40.33
29	39.65	40.01	40.20	39.29	.....	.....	35.90	37.58	38.84	39.71	.....	40.35
30	39.67	.....	40.21	39.28	.....	.....	35.95	37.65	38.87	39.74	.....	40.35
31	39.70	.....	40.22	.....	.....	.....	36.02	37.68	.....	39.76	.....	40.35

XK-269. Well 53 d/. E. Webb. Six and six-tenths miles, by road, northeast of Brackettville post office. Used drilled stock well, diameter 6 inches. Measuring point, top of iron water-pipe clamp, 1.0 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	147.77	Apr. 25	161.76	July 24	134.35	Oct. 23	142.89
Feb. 23	157.78	May 22	161.50	Sept.18	136.15	Dec. 3	144.39
Mar. 20	162.49	June 19	149.81	Oct. 22	151.71		

Kleberg County

Well numbers correspond to those in Water-Supply Papers 773-D, 845 and 886.

13. Tamales a/. King Estate. Eight miles northwest of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 50.65.

15. Pureta a/. King Estate. Five miles northwest of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 44.45.

23. Caldero a/. King Estate. Two and one-fourth miles west-southwest of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 51.48.

31. Liberty a/. King Estate. Two miles south of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 35.00.

35. Silo a/. King Estate. One and one-half miles southeast of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, b/40.00.

64. Rincon Caesar a/. King Estate. Eighteen miles south-southeast of Santa Gertrudis ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 16, c/3.43.

73. Joe Stelzig. Two miles north-northeast of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 37.21.

79. W. H. Young. One and one-fourth mile north of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 49.36.

83. Texas College of Arts and Industries. One and one-fourth miles northwest of Kingsville. Not used since Oct. 1938. Water level, in feet below measuring point, 1940: Feb. 16, 46.34.

127. R. F. Preait. Two and one-half miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 28.90.

a Owner's name for well.
b Pumping.
c Pumping slowly.
d Kinney County, Texas, Records of wells, etc., Texas State Board of Water Engineers. (Mimeographed). 1940.

Kleberg County

128. Measurements discontinued.

144. Joe Stelzig. Three miles southeast of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 29.98.

150. A. Robinson. Four miles southeast of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 12.44.

179. N. E. Selstad. Five miles southeast of Kingsville. Water level, in feet below measuring point, 1940: Feb. 17, 17.42.

188. J. R. Trussell. Three and one-half miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 24.89.

190. L. E. Flato el al. Four and one-half miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 19.99.

217. J. R. Trussell. Six miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 17.78.

219. A. J. Williams. Six and one-half miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, a/14.64.

257. Mrs. J. Talty. Seven and one-half miles south of Kingsville. Water level, in feet below measuring point, 1940: Feb. 16, 13.83.

282. Pete Christensen. Three miles north of Rivera. Water level, in feet below measuring point, 1940: Feb. 16, b/23.8.

283. W. H. Bensman. Three miles north of Rivera. Water level, in feet below measuring point, 1940: Feb. 16, 6.94.

375. Noria Hondo number 1 c/. King Estate. Twelve miles west of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, a/9.46.

380. Telephone number 1 c/. King Estate. Thirteen miles southwest of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 16.60.

381. Measurements discontinued.

382. Tres Esquinas c/. King Estate. Ten miles west-southwest of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 5.03.

383. Quantitos c/. King Estate. Eight and one-half miles west-southwest of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 5.27.

384. Aljibres c/. King Estate. Seven miles west of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 15.13.

385. Palacios c/. King Estate. Eight miles west of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 5.82.

406. Mujeres Chiquito c/. King Estate. One-half mile south of Laureles ranch headquarters. Water level, in feet below measuring point, 1940: Feb. 15, 25.09.

Lamb County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. H. H. Engleking. Eleven miles west and 4.5 miles north of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 70.55; Nov. 14, 71.45.

3A. J. O. Crawford. Eleven miles west and 3 miles north of Earth. Water level, in feet below measuring point, 1940: Nov. 14, 32.55.

6. Albert Lavigne. Twelve miles west of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 2.95; Nov. 14, 4.21.

a Pumping slowly.
b Pumping.
c Owner's name for well.

Lamb County--Continued.

7. Lillie Bickle. Eleven miles west and 1 mile north of Earth. Water levels, in feet below measuring point, 1940: Oct. 28, 17.34; Nov. 13, 17.28.

8. J. L. Withrow. One-half mile north of U. S. Highway 70, 0.5 mile east of Bailey-Lamb County line. Water level, in feet below measuring point, 1940: Nov. 13, 17.43.

13. John Fyie. Ten miles west and 1.5 miles north of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 20.10; Nov. 13, 21.09.

16. R. L. Brown. Ten miles west and 3 miles north of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 36.31; Nov. 13, 37.48.

19. Josephine Roubineck. Ten and one-half miles west and 2 miles north of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 2.12; Nov. 13, 2.87.

30. J. M. Young. Seven miles west and 2 miles north of Earth. Water levels, in feet below measuring point, 1940: Mar. 18, 23.71; Nov. 13, 23.99.

33A. Halsell Cattle Company. One and three-tenths miles south of U. S. Highway 70, on east side of Sudan road. Water levels, in feet below measuring point, 1940: Mar. 25, 23.88; Apr. 22, 23.86; Nov. 18, 24.56.

34A. Halsell Cattle Company. Three-tenths mile south of U. S. Highway 70, on east side of Sudan road. Water levels, in feet below measuring point, 1940: Mar. 25, 11.42; Apr. 22, 11.38; Nov. 18, 12.20.

38. No measurements made in 1940.

42. Halsell Cattle Company. Four and one-half miles west of Earth. Water levels, in feet below measuring point, 1940: Mar. 25, 19.14; Nov. 13, 20.18.

48. Measurements discontinued.

60. S. A. Davis. One-half mile northwest of Springlake. Water level, in feet below measuring point, 1940: Nov. 13, 72.88.

76. No measurements made in 1940.

76A. George Brown. Ten miles east of Earth. Water levels, in feet below measuring point, 1940: Apr. 22, 83.51; Nov. 13, 82.56.

88. Halsell Cattle Company. Eight and one-half miles south of Earth. Water levels, in feet below measuring point, 1940: Mar. 25, 38.08; Dec. 2, 38.68.

88A. Halsell Cattle Company. Nine miles south of Earth. Water level, in feet below measuring point, 1940: Dec. 2, 8.68.

89A. Halsell Cattle Company. Six and one-half miles south of Earth. Water levels, in feet below measuring point, 1940: Mar. 25, 29.88; Dec. 2, 30.73.

90A. County. Five miles south of Earth. Water level, in feet below measuring point, 1940: Mar. 25, 35.46; measurements discontinued.

91A. Halsell Cattle Company. Two and one-fourth miles south of Earth. Water level, in feet below measuring point, 1940: Mar. 25, 12.20.

98A. Halsell Cattle Company. Eight miles southwest of Earth. Water levels, in feet below measuring point, 1940: Mar. 25, 37.98; Apr. 22, 37.78; Nov. 18, 38.85.

108. Texas Highway Department. Four and seven-tenths miles northwest of Sudan. Water levels, in feet below measuring point, 1940: Mar. 25, 79.11; Nov. 18, 79.18.

110. Measurements discontinued.

Lamb County--Continued.

216A. Measurements discontinued.

230. Two miles northwest of Amherst. Water level, in feet below measuring point, 1940: Nov. 18, 85.82.

231. Vincent Peterman. Two miles southeast of Bailey-Lamb County line on U. S. Highway 84. Water levels, in feet below measuring point, 1940: Mar. 25, 97.37; Nov. 18, 97.60.

236. L. D. Criswell. Two miles east of Amherst. Water level, in feet below measuring point, 1940: Nov. 18, 80.44.

238A. D. C. Black. Four and one-half miles north of Amherst. Water levels, in feet below measuring point, 1940: Mar. 25, 55.37; Dec. 2, 56.01.

243. Les Baker. One and one-half miles northwest of Littlefield. Water level, in feet below measuring point, 1940: Dec. 9, 78.72.

247. Measurements discontinued.

251A. G. Y. Oxford. Eight and one-half miles north of Littlefield. Water levels, in feet below measuring point, 1940: Mar. 25, 69.56; Dec. 9, 69.61.

259A. Measurements discontinued.

259B. Lee Bennett. Six miles north of Littlefield. Water levels, in feet below measuring point, 1940: Mar. 25, 76.70; Dec. 9, 76.89.

322. Yellow House Land Company. Four and one-half miles southeast of Littlefield. Water level, in feet below measuring point, 1940: Dec. 16, 42.10.

341A. One-half mile north of Yellow House railroad switch. Water level, in feet below measuring point, 1940: Dec. 16, 44.59.

342A. R. M. Love. Four and three-tenths miles northwest of Anton. Water level, in feet below measuring point, 1940: Dec. 16, 41.18.

Lee County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

101-A. Measurements discontinued.

113. City of Giddings. In red brick pump house, 0.45 mile northwest of junction of U. S. Highways 77 and 290 in Giddings. Water levels, in feet below measuring point: Dec. 5, 1939, a/216.40; July 9, 1940, 175.58; Nov. 21, 1940, 198.35.

113-A. City of Giddings. Near well 113 in Giddings. Not used since 1939. Water levels, in feet below measuring point, 1940: July 9, 137.48; Nov. 21, 137.25.

113-B. City of Giddings. Near well 113 in Giddings. Water level, in feet below measuring point, 1940: Apr. 1, 171.89.

122. H. B. Krenik. On east side of U. S. Highway 77, 7.85 miles northwest of Giddings. Water levels, in feet below measuring point, 1940: Apr. 1, 37.89; July 9, 37.85; Nov. 21, 37.74.

124. Garrett Killian. About 500 feet west of U. S. Highway 77, 5.65 miles north of Giddings. Water levels, in feet below measuring point, 1940: Apr. 1, 58.70; July 9, 51.55; Nov. 21, 59.84.

153-A. Doctor Baker. Thomas Bird survey, 3.5 miles west of New Dimebox. Water levels, in feet below measuring point, 1940: Apr. 1, 52.84; July 9, 52.45; Nov. 21, 51.44.

174. Martin Mallinak. South edge of Dimebox. Water levels, in feet below measuring point, 1940: Apr. 1, 40.98; July 9, 37.17; Nov. 21, 40.30.

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a Measurement by airline and gauge.

Lee County--Continued.

175. H. Hannes. North edge of Dimebox. Water levels, in feet below measuring point, 1940: Apr. 1, 18.37; July 9, 17.13; Nov. 21, 17.68.

Leon County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

72. Mrs. S. F. Parker. One hundred forty feet west of U. S. Highway 75, 8.7 miles north of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 32.99; July 10, 33.24; Nov. 22, 33.33.

79. S. L. Elgin. One hundred eight feet west of U. S. Highway 75, 9.6 miles north of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, dry at 69; July 10, 63.93; Nov. 22, 69.73.

153. M. C. Garver. Five hundred feet east of U. S. Highway 75, 1.6 miles south of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 42.45; July 10, 39.39; Nov. 22, well filled; measurements discontinued.

158-A. R. W. Gardner. One hundred eighty feet southwest of U. S. Highway 75, 1.25 miles north of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 25.28; July 10, 24.06; Nov. 22, 26.01.

298. R. R. Condiff. Two hundred eighty feet southwest of U. S. Highway 75, 11.2 miles south of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 30.48; July 10, 26.68; Nov. 22, 23.11.

301. W. B. Riley. One hundred fifteen feet northeast of U. S. Highway 75, 10.3 miles south of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 2.55; July 10, 3.16; Nov. 22, 3.30.

308. G. A. Gindratt. Six hundred sixty feet west of U. S. Highway 75, 5.9 miles south of Centerville. Water levels, in feet below measuring point, 1940: Apr. 2, 42.93; July 10, 39.33; Nov. 22, 40.30.

310. Mrs. Ella G. Rogers. One hundred twenty-five feet southwest of U. S. Highway 75, 0.45 mile north of Leona, 6.5 miles south of Centerville. Unused since May 3, 1939. Water levels, in feet below measuring point, 1940: Apr. 2, 10.29; July 10, 6.45; Nov. 22, 13.45.

368. L. L. Laningham. One hundred fifty-five feet northwest of State Highway 21, 1 mile east of Normangee. Water levels, in feet below measuring point, 1940: Apr. 2, 51.89; July 10, 51.82; Nov. 22, 51.93.

379. Otto Schultz. Two hundred fifteen feet north of State Highway 21, 5.8 miles west of Normangee. Water levels, in feet below measuring point, 1940: Apr. 2, 54.20; July 10, 55.53; Nov. 22, 54.36.

537. Mrs. M. C. Garver. Thirty feet north of well 153. One and six-tenths miles south of Centerville. Used dug domestic and stock well, diameter 42 inches, depth 45 feet. Measuring point, top of concrete and brick curb, 1.5 feet above land surface. Equipped with hand pump. Water levels, in feet below measuring point: Dec. 7, 1939, 41.27; Apr. 2, 1940, 41.30; July 10, 1940, 41.27; Nov. 22, 1940, 41.41.

Lubbock County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

3a. E. E. Winters. NE¼NE¼ sec. 43, blk. P, east bank of draw, 17 miles northwest of Lubbock. Water level, in feet below measuring point, 1940: Nov. 18, 29.24.

37. S. E. Blair. NW¼NW¼ sec. 149, blk. C, 17 miles northeast of Lubbock.

Water level, in feet below measuring point, 1937, 1939-40

Date	Water level	Date	Water level	Date	Water level
Mar. 12, 1937	74.15	Jan. 10, 1939	74.13	Nov. 19, 1940	75.37
Dec. 22	74.02	Dec. 16	74.49		

Lubbock County--Continued.

64a. W. O. Fortenberry. NE¼NW¼ sec. 30, blk. D, 0.4 mile east of U. S. Highway 87, 10.5 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 86.49; Nov. 13, 87.14.

67a. Ward Grim. SW¼SW¼ sec. 27, blk. D, 0.8 mile west of U. S. Highway 87, 10.5 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 77.87; July 10, 77.90; Nov. 13, 80.64.

74a. J. S. George. SW¼SE¼ sec. 37, blk. A, 1.5 miles west of U. S. Highway 87, 6.5 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 35.60; July 10, 35.81; Nov. 13, 36.30.

74b. J. S. George. NE¼NW¼ sec. 37, blk. A, 7.5 miles north of Lubbock. Water level, in feet below measuring point, 1940: Mar. 13, 37.89.

75a. Measurements discontinued.

77a. J. H. Felton. SE¼SE¼ sec. 35, blk. A, 6.5 miles north of Lubbock on U. S. Highway 87. Water levels, in feet below measuring point, 1940: Mar. 13, 71.16; Nov. 13, 73.44.

81. J. E. Vickers. NE¼SE¼ sec. 27, blk. A, 0.2 mile west of U. S. Highway 87, 5 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 46.92; Nov. 13, 48.14.

99. R. B. Gray. SW¼NE¼ sec. 37, blk. P, 4 miles northwest of Shallowater. Water level, in feet below measuring point, 1940: Nov. 18, 39.67.

101. O. P. Bowser. SW cor. SW¼ sec. 38, blk. P, 4 miles west of Shallowater. Water levels, in feet below measuring point, 1940: Mar. 13, 63.88; Nov. 18, 66.64.

107. B. G. Lokey. SW¼NE¼ sec. 27, blk. D5, on north side of U. S. Highway 84, in Shallowater. Water levels, in feet below measuring point, 1940: Mar. 13, 50.08; Nov. 18, 50.56.

118. No measurements made in 1940.

121. Claude Campbell. SE¼ sec. 1, blk. D6, north of Carlisle Public School, north of State Highway 24. Water levels, in feet below measuring point, 1940: Mar. 26, 76.92; Nov. 18, 78.20.

123. Travis Tubbs. SW¼NW¼ sec. 9, blk. JS, 6 miles west of Lubbock. Water level, in feet below measuring point, 1940: Nov. 18, 66.54.

128. Rufus Rush. West line of SW¼NE¼ sec. 3, blk. E-2, 0.6 mile north of State Highway 24, 2.5 miles west of Lubbock. Water level, in feet below measuring point, 1940: Nov. 18, 44.95.

138. Edith Collie. NE¼NE¼ sec. 25, blk. JS, 7 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 41.42; Apr. 4, 41.30; Nov. 18, 41.60.

139. O. C. Ballard. NE¼NE¼ sec. 23, blk. JS, 7 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 25.88; Apr. 4, 26.01; Nov. 18, 27.07.

150a. M. C. Gibson. NW¼NW¼ sec. 14, blk. A, between U. S. Highway 84 and A. T. & S. F. R. R., 5.5 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 28.30; July 10, 28.49; Nov. 18, 29.00.

151. Broadview School. SE¼NW¼ sec. 14, blk. A, on south side of U. S. Highway 84, 3 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 27.24; July 10, 27.44; Oct. 27, 27.97; Nov. 18, 28.06.

154. J. S. Hamilton. NE¼SW¼ sec. 22, blk. A, 4 miles west of Lubbock. Water level, in feet below measuring point, 1940: Nov. 18, 40.34.

Lubbock County--Continued.

156. J. M. Phillips. SW¼SE¼ sec. 18, blk. A, 0.6 mile south of U. S. Highway 84, 3 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 41.37; Nov. 18, 43.38.

162b. NW¼SE¼ sec. 19, blk. A, 110 Temple Avenue, Lubbock. Water level, in feet below measuring point, 1940: Mar. 13, 59.78.

185. Filled and abandoned. Measurements discontinued.

188. State Experiment Farm. NE¼NW¼ sec. 5, blk. O, 3 miles east of Lubbock. Water levels, in feet below measuring point, 1940: Feb. 28, 77.92; Nov. 19, 79.38.

197. Measurements discontinued.

199a. SW¼NE¼NE¼ sec. 2, blk. A, 2.5 miles northeast of Lubbock. Water level, in feet below measuring point, 1940: Mar. 22, 73.51.

200. Northeast Ward School. SW¼SW¼ sec. 41, blk. A, 3.75 miles northeast of Lubbock. Water level, in feet below measuring point, 1940: Mar. 22, 56.55.

202. Measurements discontinued.

219. Ed. Harrison. NW cor. sec. 5, blk. RG, 9.5 miles east of Lubbock. Water level, in feet below measuring point, 1940: Nov. 19, 46.92.

220. Measurements discontinued.

221. Bill Turner. NW cor. NW¼ sec. 156, blk. C, on south side of U. S. Highway 62, 2 miles east of Idalou. Water level, in feet below measuring point, 1940: Nov. 19, 56.49.

222. R. T. Groves. NW¼NE¼ sec. 10, blk. RG, 1.2 miles south of U. S. Highway 62, 12 miles east of Lubbock. Water level, in feet below measuring point, 1940: Mar. 22, 53.02.

223. W. C. Grimes. SE¼SE¼ sec. 11, blk. RG, 12 miles east of Lubbock. Water level, in feet below measuring point, 1940: Mar. 22, 47.86; Nov. 19, 47.80.

225. Acuff Public School. NW¼SW¼ sec. 122, blk. C. 13.5 miles east of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 22, 53.18; Nov. 18, 53.67.

228. NE¼SE¼ sec. 91, blk. C, 6 miles east of Idalou, along U. S. Highway 62 and 0.6 mile south on dirt road. Water levels, in feet below measuring point, 1940: Mar. 22, 70.29; Nov. 19, 70.37.

252b. No measurements made in 1940.

272a. Measurements discontinued.

272b. Texas Pacific Coal and Oil Company. NW¼NW¼ sec. 4, blk. B, at stucco house, west of cemetery, 2 miles southeast of Lubbock. Used drilled domestic well, diameter 12 inches. Measuring point, top of concrete curb, level with land surface. Equipped with rope and bucket.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
June 17, 1938	40.40	Dec. 12, 1938	40.97	Dec. 17, 1939	40.90
21	40.61	June 19, 1939	39.63	Nov. 19, 1940	43.27
28	40.94	Oct. 10	40.87		

278. Ed Putty. NW¼NE¼ sec. 8, blk. B, 1.75 miles south of Lubbock. Water level, in feet below measuring point, 1940: Nov. 19, 79.88.

279. No measurements made in 1940.

284a. Southeast Ward Public School. SE¼SE¼ sec. 1, blk. E, 3.5 miles southeast of Lubbock. Water level, in feet below measuring point, 1940: Nov. 19, 45.14.

Lubbock County--Continued.

301. New Hope Public School. SE cor. sec. 68, blk. S, 8 miles south of Lubbock. Water level, in feet below measuring point, 1940: Nov. 19, 58.33.

303b. Lubbock County. In right-of-way of county road, SE cor. sec. 18, blk. E, 8.5 miles south of Lubbock. Water levels, in feet below measuring point, 1940: Aug. 2, 74.51; Nov. 19, 73.29.

314. T. B. Zelner. SW cor. SE¼SW¼ sec. 17, blk. B, 4 miles southwest of Lubbock. Water levels, in feet below measuring point, 1940: Jan. 16, 45.58; Nov. 20, 49.39.

316. No measurements made in 1940.

316a. Measurements discontinued.

332. No measurements made in 1940.

336a. Mary Coons. SW¼SW¼ sec. 26, blk. AK, 0.8 mile south of U. S. Highway 62, 10 miles southwest of Lubbock. Water levels, in feet below measuring point, 1940: Jan. 16, 79.90; July 31, 80.02; Nov. 20, 80.13.

339. J. E. Hinson. NW¼NE¼ sec. 34, blk. AK, 8.5 miles west of Lubbock. Used drilled irrigation well, diameter 15 inches, depth 162 feet. Measuring point, top of ⅛-inch airline hole in pump base, 0.5 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1937, 1939-40

Date	Water level	Date	Water level	Date	Water level
May 18, 1937	62.68	Jan. 4, 1939	62.30	Jan. 16, 1940	62.96
Dec. 23	62.23	Oct. 11	63.33	Nov. 20	64.34

355. J. A. Medlock. SW¼NE¼ sec. 26, blk. 20, 0.5 mile west of U. S. Highway 87, 9.5 miles south of Lubbock. Water levels, in feet below measuring point, 1940: Jan. 16, 85.24; Nov. 20, 86.21.

369. A. D. Thomas. NE¼NW¼ sec. 26, blk. 20, 0.5 mile west of U. S. Highway 87, 9.5 miles south of Lubbock. Water level, in feet below measuring point, 1940: Nov. 19, 81.67.

372. Measurements discontinued.

376. No measurements made in 1940.

379a. Measurements discontinued.

383. H. B. Hobgood. NW¼NW¼ sec. 21, blk. CB, 0.2 mile east of U. S. Highway 62, 14 miles southwest of Lubbock. Water levels, in feet below measuring point, 1940: Jan. 16, 73.84; Nov. 20, 73.99.

386. Measurements discontinued.

387. W. J. Garrett. NW¼SE¼ sec. 15, blk. B, 0.6 mile south of junction of U. S. Highway 62 and State Highway 24.

Water level, in feet below measuring point, 1940

Jan. 16	41.87	July 31	43.05	Nov. 19	43.81
Mar. 26	42.23	Oct. 27	43.64		

388. G. D. Taylor. SW cor. SW¼NW¼ sec. 15, blk. B, 0.35 mile southwest of junction of U. S. Highway 62 and State Highway 24. Water levels, in feet below measuring point, 1940: Mar. 26, 27.40; Nov. 19, 29.59.

389. E. Scott Jones. Center NW¼NW¼ sec. 15, blk. B, on east side of U. S. Highway 62, 0.2 mile southwest of junction with State Highway 24. Water levels, in feet below measuring point, 1940: Mar. 26, 28.52; July 31, 29.90; Nov. 19, 30.88.

391. Six and seventy-five hundredths miles west of junction of State Highway 24 and U. S. Highway 62. Water levels, in feet below measuring point, 1940: Mar. 26, 79.23; Nov. 18, 79.66.

Lubbock County--Continued.

392. No measurements made in 1940.

393. SE cor. SW¼SW¼ sec. 4, blk. 0, 0.45 mile south of U. S. Highway 82, 1.7 miles east of Lubbock County Courthouse. Water level, in feet below measuring point, 1940: Nov. 19, 58.59.

394. Measurements discontinued.

395. Stanton. NW cor. NE¼NE¼ sec. 16, blk. A, 2.5 miles north of Lubbock County Courthouse. Water levels, in feet below measuring point, 1940: Mar. 13, 47.15; Nov. 19, 51.43.

397. NE cor. SE¼SW¼ sec. 13, blk. JS, 3.5 miles north and 3.5 miles west of Lubbock County Courthouse. Water levels, in feet below measuring point, 1940: Mar. 13, 18.54; Apr. 4, 18.55; July 10, 18.80; Nov. 18, 19.54.

398. E. E. Ireland. SE¼SE¼ sec. 36, blk. D5, 8.5 miles northwest of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 15.69; July 10, 16.11; Nov. 18, 16.83.

399. Couch. SE¼NW¼ sec. 32, blk. D, 1.5 miles west of U. S. Highway 87, 9 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 42.12; July 10, 42.35. Measurements discontinued.

401. SE cor. SE¼NW¼ sec. 39, blk. D, 0.6 mile west of U. S. Highway 87, 8 miles north of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 13, 70.63; July 10, 70.64; Nov. 13, 70.98.

402. Fort Worth & Denver City Railway Company. SW¼SW¼ sec. 65, blk. A, on railway right-of-way at Kitalou Switch, 0.2 mile north of U. S. Highway 62. Water levels, in feet below measuring point, 1940: Mar. 22, 39.88; Nov. 19, 40.91.

403. SW cor. SW¼SE¼ sec. 56, blk. A, 8 miles northeast of Lubbock. Water levels, in feet below measuring point, 1940: Mar. 22, 41.41; Nov. 19, 43.42.

Lynn County

Well numbers correspond to those in Water-Supply Papers 840, 845, and 886.

604a. SE¼NE¼ sec. 391, blk. 5, 6.7 miles north of courthouse in Tahoka. Used drilled domestic well, diameter 4⅝ inches, depth 67 feet. Measuring point, top of steel casing, 0.2 foot above land surface. Equipped with hand pump.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
July 22, 1938	53.70	Aug. 10, 1939	53.77	Aug. 2, 1940	54.08
Jan. 23, 1939	53.79	Mar. 1, 1940	53.96		

605. L. King. NE cor. NE¼ sec. 396, blk. 5, T. T. R. R. Co., 8.3 miles north of Tahoka. Water levels, in feet below measuring point, 1940: Mar. 1, 63.96; Aug. 2, 64.12.

607. W½ sec. 3, blk. D23, 14.2 miles north of Tahoka. Water level, in feet below measuring point, 1940: Mar. 1, 109.33.

608. NE¼NE¼ sec. 419, blk. 1, D. & S. E. R. R. Co., 14.4 miles north of Tahoka. Water levels, in feet below measuring point, 1940: Mar. 1, 100.18; Aug. 2, 99.80.

701. No measurements made in 1940.

703. T. L. McKinney. SW cor. NE¼SE¼ sec. 34, blk. 8, E. L. & R. R. R. Co., 3.65 miles north of O'Donnell. Water level, in feet below measuring point, 1940: Mar. 1, 64.70.

Lynn County--Continued.

705. No measurements made in 1940.

712. L. C. Johnson. In Tahoka, 0.55 mile south of Lynn County Courthouse. Water level, in feet below measuring point, 1940: Mar. 1, 55.25; measurements discontinued.

713a. City of Tahoka. In Tahoka, 100 feet northeast of city standpipe. Unused drilled well. Measuring point, top of heavy timber pump base, 1.0 foot above concrete base.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
July 22, 1938	82.46	Aug. 10, 1939	81.22	Aug. 2, 1940	80.42
Jan. 23, 1939	81.92	Mar. 1, 1940	80.69		

803. City of O'Donnell. In O'Donnell, 100 feet north of city water tower. Water level, in feet below measuring point, 1940: Mar. 1, 69.75. Measurements discontinued.

806. Parker. SW cor. NW¼NW¼ sec. 53, blk. 8, 0.6 mile west and 0.2 mile north of O'Donnell water tower. Water levels, in feet below measuring point, 1940: Mar. 1, 32.74; Aug. 2, 34.90.

Martin County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

130. Charles Logsdon. NE¼NW¼ sec. 16, blk. 34, T. 3 N., 1.5 miles west of Ackerly. Unused drilled well, depth 97 feet. Measuring point, top of concrete curb, 0.2 foot above land surface.

Water level, in feet below measuring point, 1936, 1938-40

Apr. 28, 1936	90.20	Jan. 27, 1939	90.41	Aug. 2, 1940	91.18
Apr. 29, 1938	90.78	Aug. 10	90.12	Nov. 25	89.96
July 19	90.47	Mar. 1, 1940	89.58		

241. E. B. Dickenson. SW¼SE¼ sec. 1, blk. 37, T. 1 N., 11 miles northwest of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 81.96; Nov. 24, 82.32.

292-A. Florence Konz. SE¼SE¼ sec. 35, blk. 37, T. 1 N., 7.5 miles northwest of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 31.41; Aug. 1, 31.55; Nov. 23, 31.60.

336. John Atchison. SE¼SW¼ sec. 43, blk. 36, T. 1 S., 5.5 miles northwest of Stanton. Water level, in feet below measuring point, 1940: Jan. 17, 43.05.

361. W. C. Flanagan. NW¼SW¼ sec. 1, blk. 36, T. 1 S., 2.25 miles north of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 45.45; Aug. 1, 47.08; Nov. 23, 43.41.

363. I. G. Peters. SW¼SW¼ sec. 3, blk. 36, T. 1 S., 2.5 miles northwest of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 64.40; Aug. 1, 64.93; Nov. 23, 64.66.

369. Mrs. H. L. Rhodes. NE¼NW¼ sec. 6, blk. 37, T. 1 S., 5 miles west of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 40.78; Nov. 23, 41.29.

376. J. R. Reed. NW¼NE¼ sec. 4, blk. 37, T. 1 S., at Mustang Spring, 8.5 miles west of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 1.65; Aug. 1, 3.62; Nov. 24, 1.84.

384. Penny Stroud. NW¼NW¼ sec. 7, blk. 36, T. 1 S., 4.75 miles west of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 41.51; Nov. 23, 42.73.

Martin County--Continued.

389. Measurements discontinued.

401. G. P. Anderson. SW¼SW¼ sec. 11, blk. 36, T. 1 S., 1.25 miles northwest of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 78.38; Aug. 1, 77.59; Nov. 23, 77.59.

452-A. T. C. Vinson Est. Center SE¼ sec. 23, blk. 37, T. 1 S., 6 miles southwest of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 28.62; Aug. 1, 29.13; Nov. 23, 29.31.

455. R. Yantis. NW¼SE¼ sec. 24, blk. 37, T. 1 S., 5 miles west of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 32.30; Aug. 1, 32.75.

457. No measurements made in 1940.

467. No measurements made in 1940.

468. Palmer heirs. SW¼NE¼ sec. 23, blk. 36, T. 1 S., in Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 62.54; Aug. 1, 62.92; Nov. 23, 62.71.

471. Measurements discontinued.

494-A. M. H. Nance. NW¼NW¼ sec. 29, blk. 36, T. 1 S., 3.75 miles west of Stanton. Water levels, in feet below measuring point, 1940: Jan. 17, 47.70; Aug. 1, 47.17.

610. Woodard School. SW¼SE¼ sec. 135, Simp. Holloway survey, 1.5 miles west and 5 miles north of Tarzan. Water levels, in feet below measuring point, 1940: Jan. 17, 23.28; Aug. 1, 23.92; Nov. 24, 24.19.

655. H. B. Schick. NE¼NW¼ sec. 23, blk. 37, T. 2 N., 3 miles west of Tarzan. Water levels, in feet below measuring point, 1940: Jan. 17, 28.16; Aug. 1, 28.42; Nov. 24, 28.59.

665. G. T. Hall. SW¼SE¼ sec. 29, blk. 57, T. 2 N., 3.4 miles west of Lenorah. Water levels, in feet below measuring point, 1940: Jan. 17, 57.78; Aug. 1, 58.03; Nov. 24, 58.16.

674. W. H. Badgett. NE¼NE¼ sec. 4, blk. 38, T. 1 N., 4.5 miles south and 3.5 miles west of Tarzan. Water levels, in feet below measuring point, 1940: Jan. 17, 23.18; Aug. 1, 23.63; Nov. 24, 23.86.

687. J. W. Meek. SE¼SE¼ sec. 6, blk. 38, T. 1 N., 1 mile south of Badgett Public School. Water levels, in feet below measuring point, 1940: Jan. 17, 23.71; Nov. 24, 24.29.

690. W. W. Williams. SE¼SE¼ sec. 5, blk. 38, T. 1 N., 1 mile east and 1 mile south of Badgett Public School. Water level, in feet below measuring point, 1940: Jan. 17, 35.85.

Matagorda County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

3. Southern Pacific Railroad. Six-tenths mile west of Highway intersection at Midfield, 15 miles west of Bay City. Not used since Dec. 17, 1938. Water levels, in feet below measuring point, 1940: Mar. 11, 9.04; Dec. 11, 12.88.

33. Turtle Bay School. One and eight-tenths miles east of county line, 5 miles west of Palacios. Water level, in feet below measuring point, 1940: Dec. 11, 2.61.

40. City of Palacios. Seven hundred feet northwest of new city well in Palacios. Water levels, in feet below measuring point, 1940: Mar. 11, 11.68; Dec. 11, 14.35.

46. No measurements made in 1940.

Maverick County

Well number corresponds to that in Water-Supply Papers 777, 840, 845 and 886.

M3-21. Eighteen miles west of LaPryor. Water levels, in feet below measuring point: Aug. 21, 1939, 46.37; July 31, 1940, 46.45.

Medina County

Well numbers correspond to those in Water-Supply Papers 678, 840, 845 and 886.

I-2-1. W. A. Weynand. Seven and eight-tenths miles north of D'Hanis.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	a194.65	May 20	198.20	Aug. 23	199.82	Oct. 21	a202.46
Feb. 21	196.31	June 17	198.65	Sept.26	201.36	Dec. 2	204.37
Mar. 18	197.25	July 22	a202.88				

I-2-7. Alfred Schlentz. Eight and two-tenths miles north-northwest of Hondo.

Water level, in feet below measuring point, 1940

Jan. 16	216.94	Apr. 23	217.85	July 22	217.70	Oct. 21	224.68
Feb. 21	218.82	May 20	219.84	Aug. 23	221.03	Dec. 2	226.40
Mar. 18	219.95	June 17	220.12	Sept.24	223.04		

I-3-2. Wilson. At water works in Hondo, 40 feet south of well I-3-1. Used drilled public supply well, diameter 12 inches, depth 1,600 feet. Measuring point, top of hole in pump base, 1.0 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1930, 1938-40

Date	Water level	Date	Water level	Date	Water level
Feb. 10, 1930	196.70	Jan. 16, 1940	178.98	June 17, 1940	182.49
Sept.23, 1938	163.67	Feb. 25	180.61	Oct. 25	186.09
15, 1939	177.44	Mar. 18	181.66	Dec. 2	183.60

I-3-3. Gus Britch. Four and seven-tenths miles north of Hondo.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	192.62	Apr. 23	197.69	July 22	194.25	Oct. 21	201.94
Feb. 21	192.65	May 20	193.96	Sept.24	199.99	Dec. 2	204.03
Mar. 18	194.62	June 17	196.03				

I-3-4. H. W. McClain. Seven and two-tenths miles north by east of Hondo.

Water level, in feet below measuring point, 1940

Jan. 16	190.73	Apr. 23	194.85	July 22	195.74	Oct. 21	200.80
Feb. 21	192.55	May 20	195.35	Aug. 23	198.02	Dec. 2	202.23
Mar. 18	193.76	June 17	196.15	Sept.24	199.59		

I-3-5. L. H. Heyen. Six miles north by east of Hondo.

Water level, in feet below measuring point, 1940

Jan. 16	162.82	Apr. 23	166.82	July 22	167.53	Oct. 21	172.64
Feb. 21	164.62	May 20	167.29	Aug. 23	169.88	Dec. 2	173.97
Mar. 18	165.82	June 17	168.09	Sept.24	171.43		

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Medina County--Continued.

I-4-18. Ross Kenedy Estate.. Three and seven-tenths miles east of Sabinal.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	227.90	Apr. 23	230.22	July 22	228.84	Oct. 21	233.92
Feb. 24	228.26	May 20	229.90	Aug. 23	231.13	Dec. 2	234.73
Mar. 21	229.85	June 17	229.81	Sept.21	232.58		

I-4-29. Illinois Pipe Line Company. Six and three-tenths miles southwest of D'Hanis.

Water level, in feet below measuring point, 1940

Jan. 16	215.50	Mar. 21	217.93	June 17	217.65	Oct. 21	222.04
Feb. 21	216.79	May 20	218.04	July 22	216.73	Dec. 2	222.06

I-4-30. Virgil Johnson. Twelve miles southeast by east of D'Hanis.

Water level, in feet below measuring point, 1940

Jan. 16	53.51	Apr. 23	56.49	July 22	55.03	Oct. 21	60.08
Feb. 21	55.03	May 20	56.32	Aug. 23	57.68	Dec. 2	60.25
Mar. 18	56.26	June 17	55.94	Sept.24	59.04		

XM-1. Lenard Otto. North side of U. S. Highway 90, 1.0 mile east of Castroville.

Water level, in feet below measuring point, 1940

Jan. 17	53.27	Mar. 21	69.69	June 17	63.61	Sept.21	62.80
Feb. 21	55.11	Apr. 26	66.00	July 22	63.60	Oct. 21	57.98
Mar. 18	69.99	May 20	66.38	Aug. 23	64.25	Dec. 2	53.87

XM-2. F. C. Stinson. Five and nine-tenths miles north of intersection of gravel road with U. S. Highway 90 at point 300 feet east of Medina River Bridge, Castroville.

Water level, in feet below measuring point, 1940

Jan. 17	153.71	Apr. 26	157.30	July 22	155.86	Oct. 21	160.85
Feb. 21	154.59	May 20	157.58	Aug. 23	159.44	Dec. 2	155.46
Mar. 18	156.44	June 17	156.86	Sept.24	160.42		

XM-3. John Krenmueller. South side of U. S. Highway 90, on east side of intersection of highway and crossroad at Dunley, 7 miles east of Castroville.

Water level, in feet below measuring point, 1940

Jan. 17	67.91	Apr. 26	70.18	July 25	70.39	Oct. 25	70.50
Feb. 21	69.04	May 20	69.40	Sept.26	71.30	Dec. 2	70.27
Mar. 18	69.60	June 17	68.94				

Midland County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

36. In Midland, 2 blocks west and 2 blocks south of Midland County Courthouse. Water levels, in feet below measuring point, 1940: Jan. 17, 32.72; Aug. 1, 33.35; Nov. 23, 33.41.

37. Elmer Lamb. In Midland, 5 blocks south and 2 blocks east of Texas & Pacific Railway depot. Water levels, in feet below measuring point, 1940: Jan. 17, 41.95; Aug. 1, 46.07; Nov. 23, 42.30.

54a. SE¼ sec. 42, blk. 38, T. 1 S., on south bank of Midland Draw about 250 yards southeast of concrete bridge on U. S. Highway 80, 2.5 miles northeast of Midland. Unused dug irrigation well, diameter 6 feet. Measuring point, top of concrete curb, 0.2 foot above land surface.

Midland County--Continued.

54a.--Continued.

Water level, in feet below measuring point, 1937-40

Date	Water level	Date	Water level	Date	Water level
Aug. 5, 1937	20.19	Aug. 11, 1939	20.46	Aug. 1, 1940	21.87
July 21, 1938	20.31	Jan. 17, 1940	21.37	Nov. 23,	22.56
Jan. 27, 1939	19.22				

54b. SE¼ sec. 42, blk. 38, T. 1 S., 300 feet northeast of well 54a in bed of draw. Unused drilled irrigation well, diameter 25 inches. Measuring point, top of 25-inch iron casing, 2.5 feet above land surface.

Water level, in feet below measuring point, 1938-40

July 21, 1938	14.08	Jan. 17, 1940	15.17	Nov. 23, 1940	16.38
Aug. 11, 1939	14.42	Aug. 1	15.84		

55. Joe Youngblood. SE¼NE¼ sec. 42, blk. 38, T. 1 S., 2.5 miles northeast of Midland. Water levels, in feet below measuring point, 1940: Jan. 17, 31.61; Aug. 1, 32.55; Nov. 23, 32.86.

78. C. J. Weathered. NW¼NW¼ sec. 34, blk. 38, T. 1 S., 5 miles northeast of Midland. Water levels, in feet below measuring point, 1940: Jan. 17, 51.16; Aug. 1, 51.17; Nov. 23, 51.16.

98. Texas Highway Department. On right-of-way of U. S. Highway 80, 9.5 miles northeast of Midland. Water levels, in feet below measuring point, 1940: Jan. 17, 39.85; Aug. 1, 40.08; Nov. 23, 40.11.

222. R. J. Webb. NW¼NE¼ sec. 23, blk. 41, T. 2 S., on south side of U. S. Highway 80, 12.5 miles southwest of Midland. Water levels, in feet below measuring point, 1940: Jan. 17, 26.12; Aug. 1, 34.70; Nov. 23, 34.22.

Milam County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

14-A. Santa Fe R. R. In Milano, 220 feet north-northwest corner of freight depot. Water levels, in feet below measuring point, 1940: Apr. 10, 88.99; July 9, 89.07; Nov. 21, 89.03.

165. John McClerron, Jr. State Highway 36, 8.2 miles northwest of Milano. Water levels, in feet below measuring point, 1940: Apr. 1, a/17.12; July 9, 14.37; Nov. 21, 14.81.

278. Charles Jones. Nine and one-tenth miles northeast of Milano. Water levels, in feet below measuring point, 1940: Apr. 1, 36.63; July 9, 37.01; Nov. 21, 36.38.

285. Bud Smith. Five hundred eighty feet northwest of State Highway 43, 1 mile southeast of highway bridge over Brazos River. Water levels, in feet below measuring point, 1940: Apr. 1, 24.04; July 9, 23.73; Nov. 21, 23.91.

311. M. E. Ashley. One-tenth mile north of State Highway 43, 1.9 miles northeast of Milano. Water levels, in feet below measuring point, 1940: Apr. 1, 55.90; July 9, 56.38; Nov. 21, 55.89.

333. Clyde Hensley. One-half mile east of State Highway 36, 6.75 miles northwest of Milano. Water levels, in feet below measuring point, 1940: Apr. 1, 94.61; July 9, 94.77; Nov. 21, 94.78.

364. Rebecca Graham. In pasture, 82 feet north of State Highway 36, 5.4 miles southeast of Milano. Water levels, in feet below measuring point, 1940: Apr. 1, 61.09; July 9, 57.32; Nov. 21, 57.78.

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a Pumping slowly.

Montgomery County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

16. Measurements discontinued.

22. City of Conroe. In northeast corner of brick pump house, 40 feet east of U. S. Highway 75 (business route) through Conroe. Unused drilled public supply well, diameter 8 inches, depth 1,464 feet, screen set at 1,125 to 1,272 feet. Measuring point, top of hole in flange cover, 2 feet above land surface.

Water level, in feet below measuring point, 1931, 1939-40

Date	Water level	Date	Water level	Date	Water level
June 3, 1931	1.38	Dec. 19, 1939	3.65	Aug. 21, 1940	a 13.83
15, 1939	4.67	Feb. 15, 1940	3.32	Oct. 4	a 10.00
Aug. 3	3.78	May 1	2.94	Dec. 5	2.40
Sept.25	a 9.69	June 28	4.30		

29. Brown Estate. Forty feet west of U. S. Highway 75, 1.8 miles south of court house in Conroe.

Water level, in feet below measuring point, 1940

Feb. 15	27.54	June 28	26.76	Oct. 4	27.60
May 1	27.26	Aug. 25	27.02	Dec. 5	26.50

30. L. Johnson. Thirty feet north of white bungalow, about 250 feet west of U. S. Highway 75, 2 miles south of county court house in Conroe.

Water level, in feet below measuring point, 1940

Feb. 15	30.39	June 28	29.52	Oct. 4	30.25
May 1	29.90	Aug. 25	29.94	Dec. 5	(b)

45. Blair and Sons. At Tamina store, 0.6 mile east of U. S. Highway 75, 9.2 miles south of county court house in Conroe.

Water level, in feet below measuring point, 1940

Feb. 15	25.40	June 28	26.10	Oct. 4	26.40
May 1	26.02	Aug. 25	26.40	Dec. 5	24.15

46. E. W. Castleschout. Sixty feet west of U. S. Highway 75, 9.5 miles south of county court house in Conroe.

Water level, in feet below measuring point, 1940

Feb. 15	32.44	June 28	33.64	Oct. 4	33.78
May 1	31.52	Aug. 25	33.96	Dec. 5	32.62

57. Hicks. Two and twenty-five hundredths miles northwest of Conroe, 50 feet southwest of well 16. Used dug domestic well, diameter 3 feet, depth 49 feet. Measuring point, top of casing, 2.3 feet above land surface. Equipped with rope and bucket. Water levels, in feet below measuring point, 1940: Oct. 3, 46.70; Dec. 5, 46.50.

Moore County

Well numbers correspond to those in Water-Supply Paper 886.

2. Texas Highway Department. Along U. S. Highway 87, 6.2 miles north of junction with State Highway 5. Water level, in feet below measuring point, 1940: Apr. 12, 50.52.

3. No measurements made in 1940.

Nacogdoches County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

66. Texas Highway Department. East side of Highway 35, 11.75 miles northeast of Nacogdoches. Measured flow, in gallons per minute, 1940: Apr. 6, 2.55; July 13, 3.72; Nov. 27, 10.91.

a Nearby well 23 pumping. b Well filled; measurements discontinued.

Nacogdoches County--Continued.

70. A. M. Foshee. Four and one-fourth miles southwest of Garrison. Water levels, in feet below measuring point, 1940: Apr. 6, 21.41; July 13, 21.27; Nov. 27, 22.05.

76. Ed Weatherly. One-fourth mile northwest of railroad depot in Garrison. Water levels, in feet below measuring point, 1940: Apr. 6, 21.81; July 13, 10.86; Nov. 27, 7.60.

113. T. H. Hill. Seven and eight-tenths miles northeast of Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 6, 12.49; July 13, 13.97.

113-A. A. W. McCruistian. Seven and two-tenths miles northeast of Nacogdoches. Equipped with automatic pump since July 1940. Water levels, in feet below measuring point, 1940: Apr. 6, 75.31; July 13, 75.69; Nov. 27, 76.41.

120. Southern Ice Company. Thirty-five hundredths mile south of railroad station in Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 7, 12.31; July 14, 18.92; Nov. 27, 19.79.

120-A. Southern Ice Company. Thirty feet south of well 120. Unused drilled industrial well, diameter 6 inches, depth about 500 feet. Measuring point, top of flange at top of casing, 1.0 foot above land surface. Water levels, in feet below measuring point: Dec. 13, 1939, 0.30; Apr. 7, 1940, 0.50; July 14, 1940, 5.43; Nov. 27, 1940, 8.13.

121. City of Nacogdoches. In city park, 100 feet west of well 122, 0.55 mile north of railroad in Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 7, 35.57; July 14, 42.70; Nov. 28, 42.03.

122. City of Nacogdoches. In city park, 0.55 mile north of railroad station in Nacogdoches, 100 feet east of well 121. Water levels, in feet below measuring point, 1940: Apr. 7, 32.54; July 14, 40.52; Nov. 28, 38.96.

128. R. L. Whitmire. Sixty feet east of State Highway 35, 3.85 miles north of Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 6, 20.99; July 13, 21.49; Nov. 27, 15.13.

132. M. H. Dennard. At junction of State Highways 26 and 35, 5.7 miles north of Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 6, 42.09; July 13, 42.21; Nov. 27, 43.15.

178. Shell Pipe Line Company. Twelve miles west of Nacogdoches. Used drilled domestic and industrial well, diameter 5-3/16 inches. Measuring point, top of steel plate supporting water pipe, 0.2 foot above land surface. Equipped with electric driven cylinder pump. Water levels, in feet below measuring point, 1940: Apr. 7, 81.51; July 14, 83.72; Nov. 27, 85.28; Nov. 28, 85.31.

198. Piney Woods Country Club. Four and eight-tenths miles south-southeast of Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 7, 3.73; July 14, 4.14; Nov. 27, 3.10.

199. Hillard Stone. Four and two-tenths miles south-southeast of Nacogdoches. Water levels, in feet below measuring point, 1940: Apr. 7, 20.27; July 14, 20.38; Nov. 27, 22.56.

271. L. C. Jacobs. One mile southeast of Woden, 10.5 miles southeast of Nacogdoches. Unused drilled oil test well, diameter 6 inches, depth 400 feet. Measuring point, top of casing, 7 feet above land surface. Water levels, in feet above measuring point, 1940: Apr. 7, flowing; July 13, a/34.

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a Measured with altitude gage.

Navarro County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

1. Dr. Ratliff. In Richland. Water levels, in feet below measuring point, 1940: Apr. 2, 24.22; July 11, 24.69; Nov. 24, a/13.18.

2. J. L. Stewart. Four and seven-tenths miles east of Corsicana. Water levels, in feet below measuring point, 1940: Apr. 2, 24.48; July 11, 24.48; Nov. 24, 28.31.

3. Zach Banks. One-tenth mile south of State Highway 31, 4.7 miles east of Corsicana. Water levels, in feet below measuring point, 1940: Apr. 3, 25.87; July 11, 26.05; Nov. 24, 26.07.

4. Wilson and Burk. Eight miles west of Corsicana. Used during ginning season, 1940. Water levels, in feet below measuring point, 1940: Apr. 3, 21.14; July 11, 19.09; Nov. 24, 18.56.

5. City of Kerens. In Kerens. Water levels, in feet below measuring point, 1940: Apr. 3, 35.42; July 11, 34.77; Nov. 24, 34.45.

Ochiltree County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. Measurements discontinued.

2. Along U. S. Highway 83, 6.3 miles south of junction with State Highway 117. Water levels, in feet below measuring point, 1940: Apr. 9, 261.72; Aug. 6, 261.97; Dec. 4, 261.88.

3. Along U. S. Highway 83, 6.6 miles south of junction with State Highway 117. Water levels, in feet below measuring point, 1940: Apr. 9, 218.82; Aug. 6, 219.07; Dec. 4, 218.89.

4. Measurements discontinued.

Panola County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

148. G. A. Menner. One-fourth mile south and 0.8 mile west of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 18.08; July 13, 15.53; Nov. 27, 12.87.

150. City of Carthage. In pump house, 60 feet northwest of fire station in Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, b/62.12; July 13, c/77.02; Nov. 27, b/62.19

151. City of Carthage. On north side of storage tank, in Carthage. Water level, in feet below measuring point, 1940: July 13, d/74.24.

189. Sam Dillard. Ten and six-tenths miles west of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 18.66; July 13, 18.17; Nov. 27, 4.35.

202. Richmond Shaw. Ten and six-tenths miles west of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 8.58; July 13, 9.18; Nov. 27, 4.35.

277. J. F. Ritter. Four miles south of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 12.06; July 13, 10.92; Nov. 27, 11.00.

279. Mattie Solomon. Seventy feet east of U. S. Highway 79, 7.7 miles south of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 19.94; July 13, 19.20; Nov. 27, 18.43.

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a Water from roof ran into well during heavy rains.
b Well 151 pumping. c Measured while pumping. d Well 150 pumping.

Panola County--Continued.

293. J. B. Hooker. Eight and nine-tenths miles south-southeast of Carthage. Water levels, in feet below measuring point, 1940: Apr. 4, 72.20; July 13, 72.03; Nov. 27, 70.93.

302. W. B. McDaniel. Ten and four-tenths miles south-southeast of Carthage. Water levels, in feet below measuring point, 1940: Apr. 6, 29.09; July 13, 28.77; Nov. 27, 28.66.

Parmer County

No measurements made in Parmer County in 1940.

Potter County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

22. No measurements made in 1940.

38. Masterson Estate. NE¼SE¼ sec. 70, blk. 018, D. & P. R. R., 3 miles southwest of Masterson ranch house, 24.5 miles north of Amarillo. Water levels, in feet below measuring point, 1940: Apr. 12, 95.21; Aug. 9, 94.95; Dec. 7, 95.07.

38A. One and one-half miles south of well 38. Water levels, in feet below measuring point, 1940: Apr. 12, 50.10; Aug. 9, 49.98; Dec. 7, 50.17.

84A. West of U. S. Highway 87, 15.5 miles north of Amarillo. Water levels, in feet below measuring point, 1940: Apr. 12, 1.80; Dec. 7, 1.73.

123. No measurements made in 1940.

161. No measurements made in 1940.

197. No measurements made in 1940.

210. Seven and one-half miles north of Amarillo. Water levels, in feet below measuring point, 1940: July 12, 75.57; Aug. 9, 75.20; Dec. 7, 75.35.

246. W. S. Birge. Three miles east of Amarillo. Water levels, in feet below measuring point, 1940: Apr. 9, 214.27; Aug. 6, 214.98; Dec. 4, 215.10.

Randall County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

5a. Measurements discontinued.

6a. NW cor. NW¼ sec. 4, blk. 9, 10.5 miles north of Canyon. Water levels, in feet below measuring point, 1940: Mar. 14, 144.00; Dec. 7, 144.18.

76. C. H. Ray. NW¼SW¼ sec. 33, blk. 1, T. T. R. R. survey, 4.75 miles north of Canyon. Water levels, in feet below measuring point, 1940: Mar. 14, 107.92; Dec. 7, 108.34.

83a. SE cor. NE¼ sec. 28, blk. B5, 2 miles west of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 79.05; Mar. 14, 79.06; July 24, 79.01.

91. Measurements discontinued.

103. W. H. Bush Estate. SW¼NW¼NW¼ sec. 64, blk. B5, 1.2 miles south of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 10.71; Mar. 14, 10.68.

Randall County--Continued.

117. Melton Dooley. NE¼NW¼ sec. 128, blk. B5, 4.75 miles south of Canyon. Water level, in feet below measuring point, 1940: Mar. 14, 41.67.

145a. SE cor. NE¼ sec. 10, blk. B5, 7.5 miles west of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 111.79; Mar. 14, 111.88; July 24, 111.87.

160a. NE¼SW¼NW¼ sec. 11, blk. B5, 9.5 miles west of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 103.33; Mar. 14, 103.36; July 24, 103.34.

167a. SW¼SW¼ sec. 22, blk. B5, 9.5 miles west of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 105.81; Mar. 14, 105.86.

172a. NE¼NW¼SW¼ sec. 107, blk. B5, H. & G. N. R. R., 9.5 miles south of Canyon. Water levels, in feet below measuring point, 1940: Jan. 12, 108.75; Mar. 14, 108.80; Aug. 5, 108.83.

189a. W. F. Miller. NE¼SE¼SW¼ sec. 109, blk. M8, 2 miles east of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 96.89; Nov. 7, 97.05.

Roberts County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. One and one-half miles east of Miami.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	7.66	Feb. 24	7.60	Apr. 9	7.51	Aug. 6	7.90
30	7.67	Mar. 25	7.46	16	7.47	Dec. 4	6.10

2. Four miles west of Miami. Water levels, in feet below measuring point, 1940: Jan. 29, 73.66; Mar. 7, 73.65; Aug. 6, 74.19; Dec. 4, 74.34.

3. Five miles east of Miami. Water levels, in feet below measuring point, 1940: Jan. 31, 41.69; Mar. 14, 41.68.

Robertson County

Well numbers correspond to those in Water-Supply Papers 845 and 886.

1. Santa Fe R. R. At railroad station in Valley Junction, 2.4 miles southwest of Hearne. Water levels, in feet above measuring point, 1940: Apr. 1, a/ 53.5; July 9, a/55.8; Nov. 21, a/54.0.

2. W. H. and H. A. Ely. Two and one-tenth miles southwest of city limits of Hearne. Water levels, in feet above measuring point, 1940: Apr. 1, a/8.5; July 9, a/8.8; Nov. 21, a/7.8.

3. City of Hearne. In Hearne. Water levels, in feet with reference to measuring point, 1940: Apr. 1, -4.32; July 9, -0.80; Nov. 21, +0.27.

5. Mrs. Davidson. Five and seven-tenths miles southeast of Hearne. Water levels, in feet below measuring point, 1940: Apr. 2, 53.89; July 10, 53.99; Nov. 22, 53.75.

6. Venix Stubaugh. Seven and sixty-five hundredths miles northeast of Benchley. Measured flow, in gallons per minute, 1940: Apr. 2, 0.53; July 10, 0.52; Nov. 22, 0.48.

8. Tom Squires. Fourteen miles northeast of Benchley. Water levels, in feet below measuring point, 1940: Apr. 2, 22.30; July 10, 23.16; Nov. 22, 23.94.

21. Measurements discontinued.

a Measured with altitude gauge.

Rusk County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

16. Owner's number 1. City of Overton. In Overton. Water levels, in feet below measuring point, 1940: Apr. 5, 145.99; July 12, 149.96; Nov. 26, 144.41.

31. W. P. Moore. Two and forty-five hundredths miles east-northeast of Overton. Water levels, in feet below measuring point, 1940: Apr. 4, 16.40; July 12, 16.75; Nov. 26, 16.27.

31-A. Shell Petroleum Corporation. About 250 feet southwest of well 31. Water levels, in feet below measuring point, 1940: Apr. 4, 60.08; July 12, 59.80; Nov. 26, 56.22.

165. E. F. Posey. Eleven and eight-tenths miles east of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 42.06; July 13, 42.21; Nov. 27, 40.74.

177. L. K. Ballow. Five and eight-five hundredths miles east of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 16.11; July 13, 15.90; Nov. 27, 13.70.

179. Rosa Burt. Two and eighty-five hundredths miles east of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 6.09; July 13, 7.07; Nov. 27, 7.03.

248. J. J. Colwell. Two and one-half miles west of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 17.71; July 12, 17.06; Nov. 27, 13.76.

255. Z. D. Stone. Three and sixty-five hundredths miles west of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 26.95; July 12, 26.33; Nov. 27, 24.66.

415. Owner's number 2. City of Henderson. Northeast side of U. S. Highway 79, in east part of Henderson. Used drilled public supply well, diameter 12⅝ inches, depth 558 feet. Measuring point, top of steel pump base, 3 feet above land surface. Equipped with turbine pump. Water levels, in feet below measuring point: Oct. 7, 1938, 177.98; Feb. 8, 1939, 163.38; Dec. 12, a/167; Nov. 27, a/ 161.

416. Owner's number 4. City of Henderson. East part of Henderson. Used drilled public supply well, diameter 20 inches, depth 560 feet. Measuring point, top of 1½-inch pipe, 3 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1937, 1939-40

Date	Water level	Date	Water level	Date	Water level
Aug. 24, 1937	170.42	Apr. 4, 1940	b156.39	Nov. 27, 1940	b150.77
Dec. 12, 1939	b156.82	July 13	b164.85		

434. J. R. Smith. Nine and thirty-five hundredths miles east of Henderson. Water levels, in feet below measuring point, 1940: Apr. 5, 28.43; July 13, 27.15; Nov. 27, c/8.95.

445. Owner's number 5. City of Henderson. Two thousand feet northeast of well 415, in east part of Henderson. Seldom used drilled public supply well, diameter 12 inches, depth about 1,100 feet. Measuring point, top of airline hole in inner pump base, 1.0 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point: Dec. 11, 1939, 154.07; Apr. 4, 1940, 153.25; July 12, 1940, 158.40; Nov. 27, 1940, 149.71.

a Airline and gauge measurement.
b Shut down 11 to 13 hours.
c Caved.

San Patricio County

58. J. D. Mills. In north half of lot 3, block 105, McCampbell subdivision, in Aransas Pass, 2.5 miles west of center of Aransas Pass. Used drilled domestic and stock well, diameter 8¼ inches, depth 98 feet. Measuring point, top of 5 by 5-inch wood clamp, 2.5 feet above land surface and 10.87 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Sept. 6, 1938	13.20	Dec. 12, 1939	26.20	Aug. 6, 1940	26.93
Apr. 4, 1939	22.70	Mar. 18, 1940	24.10	Nov.19	19.65
May 2	22.51				

68. F. N. Edwards. In lot 9, block 86, McCampbell subdivision, 0.5 mile east-southeast of Ingleside, 4 miles southwest of Aransas Pass. Used drilled domestic and stock well, diameter 4 inches, depth 57 feet. Measuring point, hole in side of 4-inch casing, 0.2 foot above land surface, and 14.47 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

June 22, 1938	17.58	Jan. 4, 1940	25.09	Aug. 5, 1940	20.91
Dec. 14, 1939	25.79	Mar. 15	18.55	Dec. 6	19.40

69. O. V. Coopender. In north half of lot 16, block 85, McCampbell subdivision, 4 miles west of Aransas Pass. Used drilled domestic well, diameter 4 inches, depth 60 feet. Measuring point, top of casing, 5.9 feet above land surface and 17.55 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

June 22, 1938	27.53	Jan. 4, 1940	30.60	Aug. 5, 1940	31.73
Dec. 14, 1939	30.50	Mar. 15	29.60	Nov. 19	31.96

80. Lewis Caldwell. In south half of lot 1, block 83, McCampbell subdivision, west part of Ingleside, 3.25 miles southwest of Aransas Pass. Used drilled domestic and stock well, diameter 4 inches, depth 90 feet. Measuring point, top of iron water pipe clamp set on concrete base, 0.6 foot above land surface, and 16.04 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

June 22, 1938	15.54	Jan. 4, 1940	17.10	Aug. 6, 1940	18.19
Dec. 14, 1939	17.20	Mar. 15	17.42	Dec. 3	18.12

85. W. H. Bryan. In center of lot 9, block 82, McCampbell subdivision, 3.25 miles west of Aransas Pass. Unused drilled domestic and stock well, diameter 4 inches, depth 35 feet. Measuring point, top of casing, 0.6 foot above land surface and 16.33 feet above mean sea level. Equipped with hand pump.

Water level, in feet below measuring point, 1938-40

June 26, 1938	16.63	May 15, 1940	18.14	Nov. 16, 1940	19.88
Dec. 12, 1939	21.83	Aug. 5	18.87		

86. T. H. Bennight. In west corner of lot 12, block 82, McCampbell subdivision, 3.25 miles west of Aransas Pass. Used drilled domestic and stock well, diameter 4 inches, depth 52 feet. Measuring point, top of casing, 2.6 feet above land surface, and 14.46 feet above mean sea level.

Water level, in feet below measuring point, 1938-40

June 24, 1938	19.12	Mar. 15, 1940	19.68	Nov. 16, 1940	19.80
Dec. 14, 1939	20.00	Aug. 6	20.64	Dec. 4	19.84

107. L. S. Lane. Center lot 14, block 1, McCampbell subdivision, 2.5 miles northwest of Aransas Pass. Used drilled domestic well, diameter 4 inches, depth 22 feet. Measuring point, top of casing, 1.8 feet above land surface and 10.30 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

Sept. 7, 1938	10.20	Dec. 12, 1939	11.00	Aug. 6, 1940	13.24
Apr. 4, 1939	11.50	Mar. 18, 1940	12.50	Nov. 21	12.21
May 2	11.32				

San Patricio County--Continued.

119. R. E. Farley. Center of lot 16, block 5, McCampbell subdivision, 2.5 miles northwest of Aransas Pass. Used drilled domestic and stock well, diameter 6 inches, depth 60 feet. Measuring point, top of 4 by 4-inch wood water pipe clamp, 2.2 feet above land surface and 11.66 feet above mean sea level. Equipped with windmill.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
Sept.12, 1938	6.30	Dec. 14, 1939	41.10	Aug. 6, 1940	17.42
Apr. 4, 1939	31.12	Mar. 19, 1940	19.99	Nov. 21	16.55
May 2	33.13				

129. B. A. Linderman. Center of lot 7, block 353, McCampbell subdivision, 0.5 mile northwest of Aransas Pass. Unused drilled domestic and stock well, diameter 4 inches, depth 76 feet. Measuring point, top of 2 by 3-inch bushing, 1.6 feet above land surface and 15.01 feet above mean sea level.

Water level, in feet below measuring point, 1938, 1940

Sept.12, 1938	15.00	Mar. 23, 1940	14.08	Nov. 20, 1940	14.15
Mar. 18, 1940	15.31	Aug. 5	17.05		

140. Bruce Hannah. NW cor. lot 11, block E, Burton and Danforth subdivision, 3 miles southwest of Aransas Pass. Used drilled domestic and stock well, diameter 4 inches, depth 24 feet. Measuring point, base of pitcher pump, 0.1 foot above land surface and 15.10 feet above mean sea level. Equipped with hand pump.

Water level, in feet below measuring point, 1938-40

June 27, 1938	14.69	Mar. 18, 1940	21.58	Dec. 3, 1940	21.85
Dec. 12, 1939	19.30	Aug. 5	22.08		

144. Fred McMullen. In lot 16, block F, McCampbell subdivision, 3.25 miles southwest of Aransas Pass. Seldom used drilled domestic and stock well, diameter 4 inches, depth 35 feet. Measuring point, top of casing, 1.3 feet above land surface and 18.22 feet above mean sea level. Equipped with hand pump.

Water level, in feet below measuring point, 1938-40

June 26, 1938	20.66	Mar. 18, 1940	22.14	Nov. 20, 1940	23.42
Dec. 16, 1939	23.20	Aug. 5	22.37		

Shelby County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

11. Mrs. Ida Keeling. Seventy feet east, one block south of junction of U. S. Highway 84 and State Highway 35 in Timpson. Water levels, in feet below measuring point, 1940: Apr. 6, 10.34; July 13, 8.92; Nov. 27, 4.97.

26. Ed Bogard. Eight and one-fourth miles east of Tenaha. Water levels, in feet below measuring point, 1940: Apr. 6, 18.15; July 13, 17.33; Nov. 27, 18.3.

28. Phillip Whittaker. Eight and one-fourth miles east of Tenaha. Water levels, in feet below measuring point, 1940: Apr. 6, 16.94; July 13, 16.79; Nov. 27, 17.11.

35. J. W. Butler. In Tenaha. Water levels, in feet below measuring point, 1940: Apr. 6, 9.20; July 13, 9.62; Nov. 27, 6.36.

Sherman County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

1. Measurements discontinued.

2. Measurements discontinued.

3. Seventeen and fifteen hundredths miles east of Stratford. Water level, in feet below measuring point, 1940: Aug. 8, 176.14.

4. Eighteen and sixty-five hundredths miles east of Stratford. Water levels, in feet below measuring point, 1940: Apr. 11, 190.81; Aug. 8, 190.76; Dec. 5, 190.94.

Smith County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

68. Smith County. Twelve and thirty-five hundredths miles north of Tyler. Measured flow, in gallons per minute: Dec. 9, 1939, 0.32; Apr. 4, 1940, 0.41; July 11, 1940, 0.37.

69. Texas State Park Board. Tyler State Park, 9.25 miles north of Tyler. Unused well since July 1940. Water level, in feet below measuring point, 1940: Nov. 26, 120.49.

70-A. A. R. Krauss. South edge of Tyler State Park, 14.7 miles north of Tyler. Well dug deeper after Apr. 4, 1940. Water levels, in feet below measuring point, 1940: Apr. 4, well dry; July 11, 35.47; Nov. 26, 34.68.

86. J. T. Browning. One mile east of railroad station in Winona. Water levels, in feet below measuring point, 1940: Apr. 4, 23.29; July 12, 22.86; Nov. 26, 22.62.

93. L. A. Chapman. Three and fifteen hundredths miles southeast of railroad station at Winona. Water levels, in feet below measuring point, 1940: Apr. 4, 16.44; July 12, 16.02; Nov. 26, 14.54.

102. Mrs. H. E. McVey. Twelve miles east of railroad station in Winona. Water levels, in feet below measuring point, 1940: Apr. 4, 26.18; July 12, 25.25; Nov. 26, 25.31.

196. Lon W. Stanley. At Elkton siding, 4.4 miles south of Tyler. Water levels, in feet below measuring point, 1940: Apr. 3, 3.91; July 11, 5.15; Nov. 26, 4.56.

205. Sam Greenberg. One and forty-five hundredths miles east of court house in Tyler. Water levels, in feet below measuring point, 1940: Apr. 4, 19.08; Nov. 26, 13.15.

217. J. M. Holt. Six and fifty-five hundredths miles north of Tyler. Water levels, in feet below measuring point, 1940: Apr. 4, 54.95; July 11, 55.

343. Cotton Belt Railroad Company. Three-fourths mile north of railroad station in Bullard. Water levels, in feet below measuring point, 1940: Apr. 3, 3.68; July 11, 3.61; Nov. 26, 1.89.

353. J. L. Killough. In Bullard. Water levels, in feet below measuring point, 1940: Apr. 3, 15.36; July 11, 6.59; Nov. 26, 4.21.

462. J. B. Mayfield. Three and thirty-five hundredths miles southeast of center of Arp. Water levels, in feet below measuring point, 1940: Apr. 5, 100.69; July 12, 100.77; Nov. 26, measurements discontinued.

466. Martin Duckworth. One and nine-tenths miles southeast of center of Arp. Water levels, in feet below measuring point, 1940: Apr. 5, 30.57; July 12, 31.1; Nov. 26, 31.2.

477. Measurements discontinued.

477-A. Emma Adams. Four hundred feet south of well 477. Water levels, in feet below measuring point, 1940: Apr. 5, 16.90; July 12, 13.89; Nov. 26, 5.50.

Swisher County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

2. I. Irlbeck. Three miles south of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 78.39; Nov. 7, 78.58.

3. Measurements discontinued.

3A. W. E. Williamson. One mile east of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 99.96; Nov. 7, 100.00.

4. Measurements discontinued.

5. Measurements discontinued.

13. B. F. Smith. Five and one-half miles south of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 75.20; Nov. 7, 74.84.

14. Measurements discontinued.

16. C. M. Brant. Eight miles south of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 62.09; Nov. 7, 62.80.

18. H. C. George. Six and one-half miles south of Happy. Water levels, in feet below measuring point, 1940: Mar. 14, 77.46; Nov. 7, 77.63.

36. Foster Clouse, NW¼SE¼ sec. 2, blk. W1, 4.5 miles northwest of Tulia. Drilled irrigation well, diameter 24 inches, depth 230 feet. Measuring point, lower edge of end of 10-inch discharge pipe, 3.5 feet above land surface. Water level, in feet below measuring point: Apr. 20, 1934, 57.53; June 5, 1937, 59.30; Nov. 7, 1940, 60.43.

38. J. B. Johnson. Three miles northwest of Tulia. Water level, in feet below measuring point, 1940: Mar. 14, 56.32.

49. Northeast edge of Tulia. Water level, in feet below measuring point, 1940: Mar. 14, 50.70.

50. One-half block north and ½ block east of Tulia High School. Water level, in feet below measuring point, 1940: Nov. 7, 62.31.

226. A. G.Cox. Seven miles east of Kress. Water level, in feet below measuring point, 1940: Mar. 5, 46.69; Measurements discontinued.

245. Measurements discontinued.

254. Charles Inman. Eight miles east of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 39.44; July 9, 39.80; Nov. 15, 40.50.

255. Charles Inman. Seven and one-half miles east of Kress. Water level, in feet below measuring point, 1940: Nov. 15, 46.99.

256. No measurements made in 1940.

258. A. G. Hinn. Eight miles east of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 53.75; Nov. 15, 55.07.

261. No measurements made in 1940.

301. W. T. Adams. One mile southwest of Tulia. Water levels, in feet below measuring point, 1940: Mar. 14, 33.01; Nov. 7, 33.36.

302. J. D. Vaughn. One and one-half miles southwest of Tulia. Water level, in feet below measuring point, 1940: Mar. 14, 69.10; Nov. 7, 70.75.

304. Measurements discontinued.

305. J. L. Cantrell. One and three-fourths miles southeast of Tulia. Water level, in feet below measuring point, 1940: Mar. 14, 38.06.

315. No measurements made in 1940.

323. J. L. Guest. Six and one-half miles south of Tulia. Water level, in feet below measuring point, 1940: Mar. 5, 66.72.

Swisher County--Continued.

332. W. F. Kerr. Four miles north of Kress. Water level, in feet below measuring point, 1940: Mar. 5, 64.35.

339. Measurements discontinued.

352. John Elliott. Northeast of Santa Fe depot in Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 61.36; July 9, 61.67; Nov. 7, 62.18.

354. V. A. Beck. West edge of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 62.66; July 9, 62.78; Nov. 7, 63.00.

359. E. E. Formway. Two and three-fourths miles west of Kress. Water level, in feet below measuring point, 1940: Mar. 5, 77.34.

362. G. T. Hughes. Three and one-half miles southwest of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 71.32; July 9, 71.51; Nov. 7, 72.92.

364. Measurements discontinued.

368. Texas Land and Development Company. Two and three-fourths miles south of Kress. Water levels, in feet below measuring point, 1940: Jan. 12, 76.25; Mar. 5, 76.10; Nov. 15, 78.17.

369. No measurements made in 1940.

370. Texas Land and Development Company. Two and three-fourths miles south of Kress. Water levels, in feet below measuring point, 1940: Jan. 12, 74.19; Mar. 5, 74.11; Nov. 15, 75.24.

371. No measurements made in 1940.

380. Joe Bontke. Five miles east of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 55.20; Nov. 15, 55.67.

383. Texas Land and Development Company. Four and one-half miles southeast of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 74.20; Nov. 15, 76.84.

385. Texas Land and Development Company. NW¼NW¼ sec. 53, blk. M14, 5.5 miles southeast from Kress. Unused drilled irrigation well, diameter 24 inches, depth 250 feet. Measuring point, lower edge of end of discharge pipe, 3.5 feet above land surface.

Water level, in feet below measuring point, 1936-40

Date	Water level	Date	Water level	Date	Water level
May 4, 1936	71.60	Aug. 12, 1938	72.83	Dec. 8, 1939	74.74
Sept.21, 1937	72.31	Oct. 19	72.98	Mar. 5, 1940	74.36
Apr. 9, 1938	71.87	Feb. 28, 1939	72.74	Nov. 15	77.63
June 27	72.95	Oct. 3	74.70		

427. H. F. Reynolds. Six and one-half miles west of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 86.91; July 9, 87.08; Nov. 7, 87.10.

429. Reed. Five and one-half miles west of Kress. Water levels, in feet below measuring point, 1940: Mar. 5, 95.38; Nov. 7, 97.82.

430. Measurements discontinued.

Terry County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

2. J. P. Cox. SW cor. SW¼ sec. 46, blk. DD, John H. Gibson survey, 4.35 miles southwest of Wellman. Water levels, in feet below measuring point, 1940: Jan. 16, 104.28; July 31, 104.12; Nov. 20, 104.12.

5. Measurements discontinued.

Terry County--Continued.

7a. L. Hulse. NW¼SW¼ sec. 143, blk. T, D. & W. R. R. Co., 0.7 mile east of Lahey Post Office and 0.8 mile south. Unused drilled domestic and stock well, diameter 6 inches, depth 107 feet. Measuring point, top concrete well curb around casing, 0.5 foot above land surface. Equipped with old wooden windmill tower.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Jan. 26, 1939	97.31	Jan. 16, 1940	96.64	Nov. 20, 1940	96.35
Aug. 12	97.20	Sept.30	96.38		

8. Measurements discontinued.

9. Jenkins. NE cor. NE¼ sec. 127, blk. T, 1 mile southwest of Brownfield. Water level, in feet below measuring point, 1940: July 31, 89.97.

12. Measurements discontinued.

14. J. S. Smith. SW¼SW¼ sec. 82, blk. 4X, 7.6 miles southwest of Meadow. Water level, in feet below measuring point, 1940: Nov. 20, 85.94.

15. Measurements discontinued.

16. Challis Public School. SE¼SE¼ sec. 64, blk. 4X, 5.35 miles southwest of railroad depot at Meadow. Water levels, in feet below measuring point, 1940: July 31, 96.98; Nov. 20, 97.03.

17a. SE¼SW¼SW¼ sec. 25, blk. 4X, 2 miles southwest of Meadow. Water level, in feet below measuring point, 1940: Nov. 20, 80.15.

19. Measurements discontinued.

21a. NW¼NW¼NW¼ sec. 18, blk. 4X, 0.15 mile southeast of dry sink, 100 yds. west of north-south county road, which is about 0.4 mile west of U. S. Highway 62, 1 mile north of Meadow. Unused drilled stock well, diameter 4-3/4 inches. Measuring point, top of casing, 1.8 feet above land surface. Equipped with windmill. Water levels, in feet below measuring point: Aug. 14, 1939, 69.79; Jan. 14, 1940, 69.71; July 31, 1940, 69.67; Nov. 20,1940, 69.89.

Travis County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

502. H. S. Lawson heirs. Six and one-half miles south of Austin. Equipped with automatic pump since May 24, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	18.45	Apr. 29	11.46	July 26	10.24	Oct. 30	16.73
Feb. 26	14.25	May 24	13.99	Aug. 26	13.59	Nov. 30	9.02
Mar. 25	15.62	June 24	13.81	Sept.27	15.52		

504. R. B. Gault. Ten and four-tenths miles south of Austin.

Water level, in feet below measuring point, 1940

Jan. 23	29.99	Apr. 29	24.03	July 26	23.15	Oct. 30	23.12
Feb. 26	29.89	May 24	23.15	Aug. 26	23.13	Nov. 30	23.06
Mar. 25	28.43	June 24	23.11	Sept.27	23.14		

Travis County--Continued.

508. Barge Renoe. Eight and three-tenths miles southwest of State Capitol Building in Austin. Measuring point to Feb. 29, 1940, base of plug at side of 2-inch tubing, 1.0 foot above land surface. Measuring point since Feb. 29, 1940, top of steel plate water pipe support, 0.7 foot above land surface.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	232.40	May 6	232.53	June 25	232.43	Sept.23	232.56
Feb. 29	232.48	8	232.48	July 29	231.74	Oct. 28	232.60
Mar. 27	232.31	28	232.47	Aug. 29	232.50		

509. Erlene Patton. Nine and four-tenths miles west of State Capitol Building, in Austin.

Water level, in feet below measuring point, 1940

Jan. 30	41.35	May 6	39.85	July 29	39.49	Oct. 28	39.54
Feb. 29	40.54	28	40.20	Aug. 29	42.48	Nov. 30	37.88
Mar. 27	40.69	June 25	41.13	Sept.23	40.89		

516. Frank Bailey. Three and eight-tenths miles southeast of First and Congress Streets, in Austin. Water levels, in feet below measuring point, 1940: Apr. 1, 34.88; July 9, 34.53; Nov. 21, 34.82.

519. Colorado Colored School Number 3. Nine miles southeast of Austin, 1.8 miles southeast of Delvalle. Water levels, in feet below measuring point, 1940: Apr. 1, 40.76; July 9, 40.34; Nov. 21, 40.73.

527. Sarah Moore. On U. S. Highway 290, 100 yards south of Cedar Valley post office.

Water level, in feet below measuring point, 1940

Jan. 30	27.44	May 6	9.08	July 29	8.93	Oct. 28	14.21
Feb. 29	9.28	28	9.48	Aug. 29	9.37	Nov. 30	7.11
Mar. 27	9.48	June 25	8.33	Sept.23	10.94		

581. Measurements discontinued.

616. J. R. Moore. Fourteen and six-tenths miles west of State Capitol Building in Austin.

Water level, in feet below measuring point, 1940

Jan. 30	152.27	May 6	148.70	July 29	145.12	Oct. 28	147.09
Feb. 29	144.52	28	148.21	Aug. 29	153.36	Dec. 6	138.70
Mar. 27	144.79	June 25	146.87	Sept.23	150.04		

618. Homer Heep. Fifty feet east of U. S. Highway 81, 1 mile north of Hays County line.

Water level, in feet below measuring point, 1940

Jan. 23	27.40	Apr. 29	23.70	July 26	20.76	Oct. 30	27.10
Feb. 26	23.35	May 24	25.23	Aug. 26	24.73	Nov. 30	19.09
Mar. 25	25.12	June 24	23.83	Sept.27	26.31		

621. Mrs. L. L. Hart. One-half mile east of Oak Hill. Water levels, in feet below measuring point, 1940: Jan. 30, 228.25; Feb. 29, 227.89.

640. Measurements discontinued.

Uvalde County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

H-2-4. J. H. Desmuke. Fifty yards north of white house, 0.5 mile west of Leakey-Uvalde road, 13.7 miles north of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 16	150.55	Apr. 25	153.16	July 24	148.85	Oct. 23	152.06
Feb. 24	151.93	May 22	152.70	Aug. 22	149.00	Dec. 4	154.91
Mar. 20	152.74	June 19	151.14	Sept.26	150.49		

Uvalde County--Continued.

H-2-5. Mrs. W. E. Fitzgerald. Seventy-five feet north of house on hillside, 0.4 mile west of intersection of U. S. Highway 83 and State Highway 127, 17.8 miles north of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	57.31	Apr. 25	55.71	July 24	55.36	Oct. 23	89.44
Feb. 24	56.90	May 22	54.65	Aug. 22	57.56	Dec. 4	58.21
Mar. 20	56.78	June 19	55.10	Sept.26	66.61		

H-2-8. W. O. Dubose. Thirty feet east of concrete tank, 75 yards southwest of house, 2 miles east of old U. S. Highway 83, 12.5 miles north of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 16	191.71	Mar. 20	195.07	May 22	195.80	Dec. 4	200.56
Feb. 24	193.83	Apr. 25	196.62	June 19	198.10		

H-3-4. Measurements discontinued.

H-3-9. Measurements discontinued.

H-4-6. Briscoe, Fenley & Spangler. East side of north-south county road at jog in road, east edge of earthen reservoir, 4.5 miles west by northwest of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	66.25	Apr. 26	68.69	Aug. 22	68.70	Oct. 23	71.02
Feb. 24	67.65	May 22	68.74	Sept.26	70.00	Dec. 2	72.29
Mar. 18	68.11	June 19	67.93				

H-4-8. Measurements discontinued.

H-4-18. Measurements discontinued.

H-4-28. J. R. Ingrum. One hundred and fifty yards north of west end of Nueces River bridge on U. S. Highway 90, 7.4 miles west of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	19.68	Apr. 24	21.79	July 24	20.19	Oct. 23	22.94
Feb. 23	20.87	May 21	22.04	Aug. 22	21.41	Dec. 4	23.51
Mar. 20	21.36	June 18	19.64	Sept.25	22.37		

H-4-34. John Rosenow. On hilltop, 20 feet south of concrete tank at sheep pens, 3 miles north by winding road from white bump gate which is 12.4 miles west of Uvalde County Court House on U. S. Highway 90. Used drilled stock well, diameter 6 inches, depth 593 feet. Measuring point, top of iron water-pipe clamp, 0.5 foot above land surface. Equipped with windmill.

Water level, in feet below measuring point, 1939-40

Date	Water level	Date	Water level	Date	Water level
Mar. 22, 1939	162.70	Apr. 24, 1940	162.59	Aug. 22, 1940	161.08
Jan. 9, 1940	157.50	May 21	162.44	Sept.25	163.63
Feb. 24	159.98	June 18	158.94	Oct. 23	165.60
Mar. 19	161.09	July 23	158.38		

H-4-35. John Rosenow. Fifteen feet north of concrete tank at sheep pens, 300 yards north of ranch house, 3.7 miles by road north by northwest of white bump gate, which is 12.4 miles west of Uvalde County Court House on U. S. Highway 90. Used drilled stock well, diameter 6 inches, depth 100 (?) feet. Measuring point, top of iron water-pipe clamp, 0.7 foot above surface. Equipped with windmill.

Water level, in feet below measuring point, 1939-40

Mar. 22, 1939	63.30	May 21, 1940	62.06	Sept.25, 1940	68.30
Feb. 24, 1940	59.24	June 18	60.99	Oct. 23	67.60
Mar. 19	60.32	July 23	60.03	Dec. 4	70.39
Apr. 24	61.33				

Uvalde County--Continued.

H-5-1. City of Uvalde. Inside pump house of city water works, one-half block east and 2 blocks south of Uvalde County Court House. Water-stage recorder set, Oct. 24, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	32.52	June 19	33.94	Sept.25	34.92	Oct. 25	35.60
Feb. 24	32.97	July 24	33.78	Oct. 24	35.41	Dec. 2	36.30
Apr. 23	33.77	Aug. 22	34.26				

H-5-22. Jack Dean. In garden, beside elevated tank, 100 feet south of old house, 0.1 mile east of U. S. Highway 83, 0.2 mile north of railroad tracks, 2 miles north of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	60.54	Apr. 23	61.91	July 24	61.73	Oct. 23	64.02
Feb. 24	61.04	May 22	62.28	Aug. 22	62.32	Dec. 2	64.94
Mar. 21	61.48	June 19	61.94	Sept.26	63.26		

H-5-26. Geo. Kennedy. In pasture, east side of large concrete tank, 0.1 mile east of U. S. Highway 83, 7.2 miles north by northeast of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	163.34	Apr. 25	164.99	July 24	164.52	Oct. 23	167.42
Feb. 24	163.89	May 22	165.34	Aug. 22	165.42	Dec. 4	168.57
Mar. 21	164.51	June 19	165.07	Sept.26	166.55		

H-5-39. Wm. Galloway. Twenty-five feet east of small yellow house at end of private road, 0.15 mile south of U. S. Highway 90, on hilltop, 2.5 miles east by northeast of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 17	79.99	Apr. 26	81.44	Aug. 22	81.95	Oct. 23	83.45
Feb. 25	80.52	May 20	81.82	Sept.21	82.63	Dec. 2	84.37
Mar. 18	80.84	June 19	81.77				

H-5-51. O. T. Caldwell. East side of U. S. Highway 83, behind concrete reservoir, 2.5 miles south by southwest of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	40.55	Apr. 24	41.14	July 24	41.45	Oct. 23	42.50
Feb. 24	40.64	May 22	41.38	Aug. 22	41.79	Dec. 2	42.90
Mar. 18	40.83	June 19	41.53	Sept.25	42.15		

H-6-1. Ashby & Chinn. West side of concrete tank, 200 feet northeast of house on west side of concrete tank, north side of railroad tracks, 9.2 miles northeast by east of Uvalde County Court House, on U. S. Highway 90.

Water level, in feet below measuring point, 1940

Jan. 17	93.51	Apr. 26	95.33	Aug. 23	95.52	Oct. 21	96.08
Feb. 24	94.44	May 21	95.53	Sept.21	95.99	Dec. 2	96.34
Mar. 21	94.77	June 17	95.46				

H-6-8. K. K. Woodley. North side of elevated tank, 50 feet south of U. S. Highway 90 and east of local road, 1.5 miles east of Knippa.

Water level, in feet below measuring point, 1940

Jan. 17	73.37	Mar. 21	72.96	July 22	73.07	Sept.21	73.24
Feb. 21	72.97	Apr. 23	73.34	Aug. 22	73.23	Oct. 21	73.02
25	73.02	May 20	72.97	23	73.18	Dec. 2	74.64
Mar. 20	73.02	June 17	72.98				

Uvalde County--Continued.

H-6-10. Herbert Stevens. Southeast of small house, 100 feet south of U. S. Highway 90, 2.9 miles west of Sabinal.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	68.53	Apr. 23	68.88	July 22	68.92	Oct. 21	69.62
Feb. 25	68.59	May 20	68.94	Aug. 23	69.18	Dec. 2	68.87
Mar. 21	68.87	June 17	68.93	Sept.24	69.29		

H-6-16. Illinois Pipe Line Co. On top of hill among old cement foundations of former pipe line pump station and field camp, 300 yards west of bump gate located at telephone line crossing of north-south road, this point being 3.5 miles south on road with several turns that connects with U. S. Highway 90 at a point 1.5 miles east by north of Knippa.

Water level, in feet below measuring point, 1940

Jan. 17	171.15	Apr. 23	173.99	July 22	174.79	Oct. 21	177.11
Feb. 25	172.42	May 20	174.50	Aug. 22	175.17	Dec. 2	178.64
Mar. 21	173.03	June 17	174.80	Sept.24	176.02		

XU-6. No measurements made in 1940.

XU-7. Measurements discontinued.

XU-8. Measurements discontinued.

XU-9. Frank Kirchgraber. East side of pentagonal cement tank, 25 feet southeast of elevated cypress tank, 50 feet north of white cattle guard on U. S. Highway 90, 16.5 miles west of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	56.49	Apr. 24	56.01	July 23	56.08	Oct. 23	57.46
Feb. 23	56.36	May 21	56.64	Aug. 22	56.11	Dec. 4	56.93
Mar. 20	56.28	June 18	55.67	Sept.25	57.31		

XU-10. Texas & New Orleans Railroad Co. Fifty feet east of railroad station at Cline, 200 feet north of U. S. Highway 90, 18.4 miles west of Uvalde County Court House.

Water level, in feet below measuring point, 1940

Jan. 15	40.50	Apr. 24	41.19	July 23	40.31	Oct. 23	42.43
Feb. 23	40.45	May 21	40.85	Sept.25	41.25	Dec. 4	41.80
Mar. 19	40.96	June 19	40.52				

Val Verde County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

XV-1. B. S. Harrison. Forty feet south of white house and 30 feet east of second white house at end of private road, 0.6 mile south by southeast of bump gate located on U. S. Highway 90, 7.5 miles east of highway junction in Del Rio.

Water level, in feet below measuring point, 1940

Feb. 23	39.15	May 21	39.04	Aug. 22	39.12	Oct. 22	39.63
Mar. 19	39.05	June 18	38.95	Sept.19	39.28	Dec. 3	39.47
Apr. 24	38.71	July 23	38.64				

XV-2. Otto Koog. West well of two wells, northwest side of large cement tank, 200 feet east of house, on west side of north-south road, 0.1 mile north of U. S. Highway 90 at a point 2.8 miles east of highway junction in Del Rio.

Water level, in feet below measuring point, 1940

Jan. 15	75.92	Mar. 19	76.44	June 18	73.99	Oct. 22	76.47
Feb. 22	76.75	Apr. 24	75.85	Aug. 21	73.30	Dec. 3	74.70
23	75.48	May 21	75.83	Sept.19	74.78		

Val Verde County--Continued.

XV-3. Patricio Confreras. Seventy-five feet north of small house and 20 feet south of second small house, 150 feet north of U. S. Highway 90, 1.5 miles east of highway junction in Del Rio.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	38.96	Mar. 19	39.44	June 19	38.58	Sept.19	38.66
Feb. 22	39.25	Apr. 25	40.31	July 23	38.28	Oct. 22	39.15
23	39.25	May 21	38.71	Aug. 21	38.28	Dec. 3	39.70

Waller County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

117. Mrs. H. L. Milam. Near railroad station at Prairie View.

Water level, in feet below measuring point, 1940

Feb. 20	17.67	May 27	(a)	June 10	(a)	June 26	(a)
May 7	(a)	29	(a)	11	18.04	July 1	15.59
9	(a)	30	(a)	12	16.03	16	15.40
13	(a)	June 1	(a)	13	16.55	Aug. 19	(a)
14	(a)	3	(a)	15	16.96	Oct. 7	(a)
21	(a)	6	(a)	21	17.70	Nov. 28	12.33

128. H. and T. C. Railroad. At Prairie View station on Houston-Hempstead highway. Seldom used drilled domestic well, diameter 6 inches, depth about 100 feet. Measuring point, bottom edge of pump base, 0.75 foot above land surface.

Water level, in feet below measuring point, 1940

Apr. 25	44.14	May 13	44.92	June 11	44.39	July 1	44.45
30	44.15	21	44.26	12	44.30	16	44.05
May 7	44.05	27	44.32	13	44.35	Aug. 19	44.49
9	44.30	29	44.90	15	44.27	Oct. 7	44.58
10	44.27	30	45.35	21	44.40	Nov. 28	44.78
11	44.25	June 6	44.40	26	44.42		

151. Measurements discontinued.

152. Myers. One and fifty-five hundredths miles east of Prairie View railroad station along old U. S. Highway 290.

Water level, in feet below measuring point, 1940

Feb. 20	2.90	May 13	6.37	June 6	4.50	June 21	3.30
Apr. 3	6.85	21	7.66	10	1.18	26	3.85
30	5.42	27	8.02	11	2.78	July 1	1.46
May 7	4.70	29	8.00	12	2.11	16	2.78
9	5.02	30	4.27	13	2.48	Oct. 7	11.20
10	5.20	June 1	3.80	15	2.69	Nov. 28	3.00
11	5.70	3	4.23				

154. W. D. Weaver. Eighty feet south of old U. S. Highway 290, 0.6 mile west of railroad station in Waller.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 20	15.08	June 29	14.56	Oct. 7	15.88
Apr. 30	14.93	Aug. 19	14.95	Nov. 28	14.00

a Dry.

Waller County--Continued.

223. T. B. Tucker. Six and three-fourths miles northwest of Katy. Used drilled irrigation well, diameter 16 inches, depth 767 feet, screens set at 117 to 145, 165 to 198, 304 to 343, 425 to 445, 467 to 488, 596 to 630 and 693 to 714 feet. Measuring point, top of air line hole in pump base, 1.0 foot above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931, 1933, 1939-40

Date	Water level	Date	Water level	Date	Water level
Feb. 10, 1931	49.17	Mar. 15, 1939	55.01	Mar. 12, 1940	57.06
Apr. 28	48.53	Sept.15	62.36	Apr. 27	56.84
Mar. 17, 1933	50.76	Dec. 21	58.11	Oct. 7	63.58

235. John Cope. Two miles west of Katy. Used drilled irrigation well, diameter 24 inches, depth 545 feet, screens set at 106 to 142, 182 to 219 and 454 to 511 feet. Measuring point to Mar. 15, 1939, 0.5 foot above land surface. Measuring point, since Mar. 15, 1939, lower edge of inverted and bent discharge pipe, 2.9 feet above land surface. Equipped with turbine pump.

Water level, in feet below measuring point, 1931, 1933, 1939-40

Mar. 12, 1931	49.05	Mar. 15, 1939	57.92	Dec. 21, 1939	63.35
Mar. 18, 1933	51.31	Sept.18	62.25	Mar. 12, 1940	61.40

247. T. B. Tucker. Six and one-half miles northwest of Katy. Used drilled irrigation well, diameter 18 inches, depth 641 feet. Measuring point, top of air line hole in pump base, 1.0 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point: Mar. 15, 1939, 56.57; Sept. 15, 1939, 67.00; Dec. 21, 1939, 59.90; Mar. 12, 1940, 58.59.

Wharton County

Well numbers correspond to those in Water-Supply Papers 840, 845 and 886.

4. Commercial State Bank. Under derrick beside transformer, 75 feet northwest of house, 1.4 miles west of Sandy Creek, 9 miles southwest of Hahn. Water levels, in feet below measuring point, 1940: Mar. 7, 37.99; Dec. 9, 36.20.

8. J. W. Wyer. At end of transmission line, 1,000 feet south of road, 0.7 mile west of Round Mott School, 6 miles southwest of Hahn. Water levels, in feet below measuring point, 1940: Mar. 3, 36.96; Dec. 9, 37.76.

31. Tom Thomas. Six hundred feet south of house, 6.5 miles north of Louise. Water levels, in feet below measuring point, 1940: Mar. 7, 27.40; Dec. 9, 28.23.

32. Harfst Bros. In old shed, underneath derrick, near high-line transformer, 0.7 mile north of Cobbler Creek School, 4.5 miles southeast of Hahn. Water levels, in feet below measuring point, 1940: Mar. 7, 31.57; Dec. 9, 31.87.

33. Harfst Bros. In pump house near small red shed, 600 feet west of house, on south side of road, 1.75 miles east of Hahn. Water levels, in feet below measuring point, 1940: Mar. 7, 39.17; Dec. 9, 39.90.

70-A. J. J. Vacek. Ten feet south of small building, 0.1 mile south of U. S. Highway 90, 3.2 miles west of East Bernard. Water levels, in feet below measuring point, 1940: Mar. 11, 15.09; Dec. 11, 9.42.

70-B. J. J. Vacek. Two hundred and seventy-five feet south of well 70-A. Water levels, in feet below measuring point, 1940: Mar. 11, 14.19; Dec. 11, 10.81.

96. Frank Bucek. Thirty feet south of white house, 100 feet east of State Highway 60, 8.2 miles north of Wharton. Water levels, in feet below measuring point, 1940: Mar. 11, 24.69; Dec. 11, 24.14.

Wharton County--Continued.

108. City of Wharton. On State Highway 60, south side of street, one-half block east and one block north of Wharton County Court House. Water levels, in feet below measuring point, 1940: Mar. 11, 25.01; Apr. 12, 24.65; Dec. 11, 24.77.

109. City of Wharton. Northeast corner of city water works lot in Wharton. Water levels, in feet below measuring point, 1940: May 9, 28.95; June 7, 28.88; Dec. 11, 30.01.

140. P. Dornak. In well house, 6 feet north from northwest corner of concrete swimming pool, 460 feet southwest of "T" road intersection of gravel road, and State Highway 71, 1.8 miles south from El Campo. Water level, in feet below measuring point, 1940: Mar. 11, 22.27.

165. H. P. Stockton. Thirty feet west of road, 600 feet north of two-story white house, 1.4 miles northwest of Louise. Water levels, in feet below measuring point, 1940: Mar. 7, 24.26; Dec. 9, 24.97.

173. Stoval & Appling. Under old derrick, between high-line and irrigation ditch, 100 feet northeast of road, 8.35 miles south of Louise. Water levels, in feet below measuring point, 1940: Mar. 11, 17.93; Dec. 9, 20.19.

178. Adrian Johnson. In wooden shed, 15 feet west of earthen tank, 386 feet east from house, 50 feet south of county road, 8.2 miles southwest from El Campo. Water levels, in feet below measuring point, 1940: Mar. 11, 18.36; Dec. 9, 18.49.

181. T. E. Appling. In galvanized pump shed, 200 feet southeast from red barn, 75 feet northwest from county road, 6.8 miles southeast from El Campo. Water levels, in feet below measuring point, 1940: Mar. 11, 24.38; Dec. 9, 25.65.

186. Otto Mickelson. In shed, east of red barn, 300 feet east of dirt road, 400 feet east of State Highway 71, 2.5 miles north of Danevang. Water levels, in feet below measuring point, 1940: Mar. 11, 18.31; Dec. 11, 18.26.

209. J. C. Allen. At end of galvanized pump shed, 200 feet southeast from red barn, 75 feet northwest of county road, 6.8 miles southeast from El Campo. Water levels, in feet below measuring point, 1940: Mar. 11, 15.64; Dec. 10, 1722.

239. Gulf, Colorado & Santa Fe Railway Company. At large black water tank, east of section houses and east of railroad track, 3.2 miles south of Boling Station. Water levels, in feet below measuring point, 1940: Mar. 11, 25.13; Dec. 11, 23.02.

241. Texas Gulf Sulphur Company. In wood pump shed, 75 feet northwest of private road, 400 feet northeast of time-keeper's office, in company grounds at New Gulf. Water levels, in feet below measuring point, 1940: Mar. 11, 36.79; Dec. 11, 27.59.

Zavala County

Well numbers correspond to those in Water-Supply Papers 777, 840, 845 and 886.

H7-13. Roy Cornett. Five miles north of La Pryor. Water levels, in feet below measuring point: Aug. 21, 1939, 130.93; July 31, 1940, 131.56.

H7-20. W. R. Terpening. Five and one-half miles north of La Pryor. Water level, in feet below measuring point, 1940: July 31, 76.68.

M3-28. Measurements discontinued.

M3-29. No measurements made in 1940.

M6-9. King Ware. Eight and one-half miles northwest of Cometa. Water levels, in feet below measuring point: Aug. 14, 1939, 52.62; Aug. 2, 1940, 52.65.

Zavala County--Continued.

M6-10. W. M. Van Cleve. Seven and one-half miles northwest of Cometa. Water level, in feet below measuring point, 1940: Aug. 2, 74.67.

M6-16. J. S. Steward. Six miles northwest of Cometa. Water levels, in feet below measuring point: Aug. 14, 1939, 42.00; Aug. 2, 1940, 42.66.

M6-18. N. E. Ware. Four miles northwest of Cometa. Water levels, in feet below measuring point: Aug. 14, 1939, 42.09; Aug. 2, 1940, 38.76.

M6-19. L. D. Van Cleve. Three miles northwest of Cometa. Water levels, in feet below measuring point: Aug. 14, 1939, 55.73; Aug. 2, 1940, 56.50.

M9-1. T. B. Mear. Cometa. Water levels, in feet below measuring point: Aug. 14, 1939, 71.61; Aug. 2, 1940, 63.78.

N1-17. No measurements made in 1940.

N1-24. J. C. Williams. Two and one-half miles northwest of La Pryor. Water levels, in feet below measuring point: Aug. 21, 1939, 126.84; July 31, 1940, 123.29.

N1-40. I. T. Pryor. Two miles west of La Pryor. Water levels, in feet below measuring point: July 21, 1939, 114.48; July 31, 1940, 105.05.

M5-31. C. & M. Produce Company. Three miles northeast of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 51.83; Aug. 1, 1940, 38.02.

N5-39. C. R. Jarrett. Two miles northeast of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 60.61; Aug. 1, 1940, 41.87.

N5-40. C. R. Jarrett. Two and one-half miles east of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 55.92; Aug. 1, 1940, 39.70.

N5-47. A. Wagner. Six miles east of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 86.32; no measurements made in 1940.

N5-55. Cribbs & Davidson. Two and one-half miles east of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 59.02; Aug. 1, 1940, 43.55.

N5-60. E. L. Reedy. Four miles east of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 58.29; Dec. 12, 1939, 67.00; Aug. 1, 1940, 49.67.

N7-2. Murray. One mile southeast of Cometa. Water levels, in feet below measuring point: Aug. 13, 1939, 40.79; no measurements made in 1940.

N8-7. W. W. Walker. Three miles southeast of Crystal City. Water levels, in feet below measuring point: Aug. 16, 1939, 55.78; no measurements made in 1940.

ELM CREEK AND DEER CREEK AREAS OF SOIL CONSERVATION SERVICE

Water levels, in feet above arbitrary datum, in wells in Elm Creek and Deer Creek areas, near Temple, Texas, 1940

Date	7	8	9	11	12	20	22	24
Jan. 4	11.02	11.62	(a)	2.35	4.70	9.64	8.72	10.44
11	11.02	11.52	(a)	2.15	4.60	9.54	8.82	10.40
18	11.02	11.52	(a)	2.25	4.60	9.44	8.62	10.40
25	10.92	11.22	(a)	1.95	4.50	9.24	8.32	10.30
Feb. 1	11.02	11.22	(a)	1.95	4.20	9.14	8.32	10.30
12	11.22	11.32	(a)	2.85	4.10	9.34	8.52	10.30
15	11.22	11.42	(a)	2.95	4.10	9.44	8.62	10.40
23	11.02	11.32	(a)	3.65	3.90	9.49	8.62	10.60
29	11.22	11.32	(a)	3.75	3.80	9.44	8.62	10.90
Mar. 7	11.02	11.32	(a)	3.95	3.60	9.44	8.32	10.90
14	11.02	11.32	(a)	3.95	3.50	9.24	8.22	10.90
21	11.12	11.32	(a)	3.75	3.10	9.34	8.22	11.00
28	11.22	11.32	(a)	3.55	3.00	9.34	8.12	11.00

Water levels, in feet above arbitrary datum, in wells in Elm Creek and Deer Creek areas, near Temple, Texas, 1940

Date	25	26	27	29	31	32	Average
Jan. 4	9.89	11.15	9.30	9.41	8.60	(a)	8.90
11	9.79	11.35	(a)	9.51	9.20	(a)	8.90
18	9.79	11.15	(a)	9.51	8.50	(a)	8.80
25	9.79	11.15	(a)	9.51	8.60	(a)	10.08
Feb. 1	9.79	11.15	(a)	9.51	8.80	(a)	8.69
12	9.79	11.15	9.70	9.81	10.20	(a)	9.03
15	9.79	11.05	9.70	9.91	9.80	(a)	9.87
23	9.79	10.95	9.70	10.01	9.90	(a)	9.08
29	9.69	11.05	9.60	10.11	9.60	(a)	9.09
Mar. 7	9.69	11.05	9.30	10.01	8.80	(a)	8.95
14	9.59	10.95	9.30	10.01	8.20	(a)	8.85
21	9.59	10.85	(a)	10.01	7.80	(a)	8.74
28	9.59	10.85	(a)	10.11	7.40	(a)	8.68

Noon stage of water level in well 13, in feet above arbitrary datum, obtained from water-stage recorder charts, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	7.29	Jan. 25	7.16	Feb. 17	7.49	Mar. 11	8.41
2	7.28	26	7.15	18	7.66	12	8.37
3	7.27	27	7.14	19	7.81	13	8.32
4	7.27	28	7.13	20	7.94	14	8.29
5	7.27	29	7.13	21	8.05	15	8.25
6	7.27	30	7.12	22	8.13	16	8.21
7	7.26	31	7.12	23	8.21	17	8.17
8	7.25	Feb. 1	7.12	24	8.29	18	8.14
9	7.25	2	7.12	25	8.35	19	8.12
10	7.24	3	7.11	26	8.40	20	8.07
11	7.24	4	7.10	27	8.45	21	8.05
12	7.24	5	7.10	28	8.50	22	8.02
13	7.23	6	7.12	29	8.52	23	7.98
14	7.22	7	7.13	Mar. 1	8.55	24	7.94
15	7.22	8	7.14	2	8.56	25	7.90
16	7.21	9	7.15	3	8.56	26	7.87
17	7.20	10	7.16	4	8.57	27	7.83
18	7.20	11	7.21	5	8.57	28	7.82
19	7.19	12	7.27	6	8.56	29	7.80
20	7.19	13	7.31	7	8.56	30	7.77
21	7.18	14	7.34	8	8.53	31	7.75
22	7.17	15	7.35	9	8.49	Apr. 1	7.73
23	7.17	16	7.37	10	8.45	2	7.71
24	7.16						

a Dry.